

2023 FALL SEED GUIDE

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University of Nebraska Crops
Testing Program

- University of Nebraska - Lincoln Extension
- Institute of Agriculture and Natural Resources
- Department of Agronomy & Horticulture

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UNL EXTENSION CIRCULAR 103

FALL SEED GUIDE

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We would like to thank the Nebraska Wheat Board for contributing wheat check-off money and the Nebraska Agricultural Statistics Service for compiling data on varieties and production of wheat.

This circular reports data from winter wheat trials conducted throughout Nebraska. Entries include commercial varieties and promising experimental lines from Nebraska, surrounding states, and private breeders. The state has been divided into four districts for the purposes of variety testing (Panhandle, West Central, South Central, and East).

There were 18 trials planted across Nebraska in the fall of 2022. Names of cooperators, trial locations, planting dates, harvest dates, highest location mean yield, and mean of top five varieties are shown in Table A. Location specific information such as soil type, tillage, previous crop, and fertilizer applications when available are shown in Table B. Plot sizes varied with location. Six row wide and 20 to 35 feet long plots were planted across locations. All tests were direct harvested with plot combines. Entries were replicated 3 to 6 times. Yield values are corrected to 12% moisture.

Protein data were collected from two replicates at each location. The protein data was combined within each district and reported in the district tables. Protein was determined from whole grain using a Perten DA 7250 Near Infrared Spectrometer. Protein is corrected to 14% moisture, the correction factor used in most analytical standards. Please refer to the UNL Crop Variety Testing Home Page (<https://cropwatch.unl.edu/varietytest>) for individual site yields, disease score, and other relevant information .

Results of spring wheat variety, corn hybrid, and grain sorghum hybrid trials conducted in 2023 will be posted on the UNL Crop Variety and Hybrid Testing Program CropWatch page and published in the 2024 Spring Seed Guide.

WINTER WHEAT PERFORMANCE

According to the National Agricultural Statistics Service, winter wheat was sown on 1.13 million acres in Nebraska last year. 0.84 million acres were harvested producing a projected 33 million bushels of grain. The average winter wheat yield of Nebraska for all wheat harvested during the summer of 2023 was projected to be 39 bushels per acre (bu/ac). Yields were down this year due to drought, frequent hail, and late season freezes. Winter wheat yields and production from the previous 10 years are reported below.

Average Nebraska Winter Wheat Yield (all practices)

Year	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Yield (bu/a)	49	38	54	46	49	57	41	49	32	39
NE Total Production (million bu)	71	46	71	47	49	55	34	41	26	33

Source: National Agricultural Statistics Service (<http://www.nass.usda.gov>)

Yielding ability of different varieties cannot be measured with absolute accuracy because of variations in local disease incidence, soil fertility, seasonal rainfall or moisture, and other factors. For this reason, small differences in yield have no significance. Unless the difference in performance of two varieties is greater than the difference required for least significance difference (LSD) shown in the tables, little confidence can be placed in the superiority of one variety over the other for measured traits in that particular test. These differences are shown at the 10% level, meaning that differences as large or larger could be expected through chance alone in 1 of 10 trials (10%). Even though two varieties are not statistically different, there may be other factors such as disease resistance, grain quality, agronomic desirability or availability of seed which may influence the choice of one variety over the other.

Complementary varieties are important when selecting additional varieties to grow. One definition of complementary varieties is that they come from diverse parentages. In order to help select varieties with diverse parentages, the related families of many varieties are included in the characteristics chart.

RESULTS AT INDIVIDUAL LOCATIONS

East:

There were three rainfed trials conducted in the East Region in Saunders, SaundersIM (Intensive Management) and Lancaster counties. Site specific management, soil type, and previous crops are shown in Table B. All Eastern sites experienced drought conditions through the fall and winter.

- The Saunders County Rainfed trial was planted on October 4th into disked ground previously in oats. 80 lb/a N was applied at greenup in the spring. Finesse herbicides was applied preplant while Prowl and 2,4-D herbicides were applied in April. Plots were harvested on July 10th with a top yield of 32 bu/a and an average yield of 24 bu/a.
- The SaundersIM County Rainfed trial was planted on October 4th, where the previous crop was oats. 40 lb/a N was applied at greenup and 80 lb/a N was applied at Feekes 5. Finesse herbicides was applied preplant while Prowl and 2,4-D herbicides were applied in April. Plots were harvested on July 10th with a top yield of 43 bu/a and an average yield of 30 bu/a.
- The Lancaster County Rainfed trial was planted on October 5th into disked oat stubble. 80 lb/a N was applied preplant and 80 lb/a of N in the spring. Finesse was applied preplant and Prowl H2O plus 2,4-D herbicides in the spring for weeds. The site was lost to extreme drought.

South Central:

Three rainfed trial was conducted in the South-Central Region in Jefferson, Clay, and Furnas counties. Site specific management and previous crops are shown in Table B.

- The Jefferson County Rainfed trial was planted on October 13th no-till into soybean stubble. The site was lost to winter freeze kill and the cooperators planted an alternative crop in the spring.
- The Clay County Rainfed trial was planted on October 5th into disked soybean stubble. The site was lost to drought and winter freeze damage.
- The Furnas County Rainfed trial was planted on October 11th no-till into corn fallow. Plots were lost to spring hailstorm damage.

West Central:

Five locations were planted in the West Central Region. One irrigated trial was planted in Perkins County. Rainfed trials were planted in Red Willow, Lincoln, Perkins, and Keith counties. Most rainfed sites were left fallow during the previous growing season with corn or wheat as the previous crop (Table B).

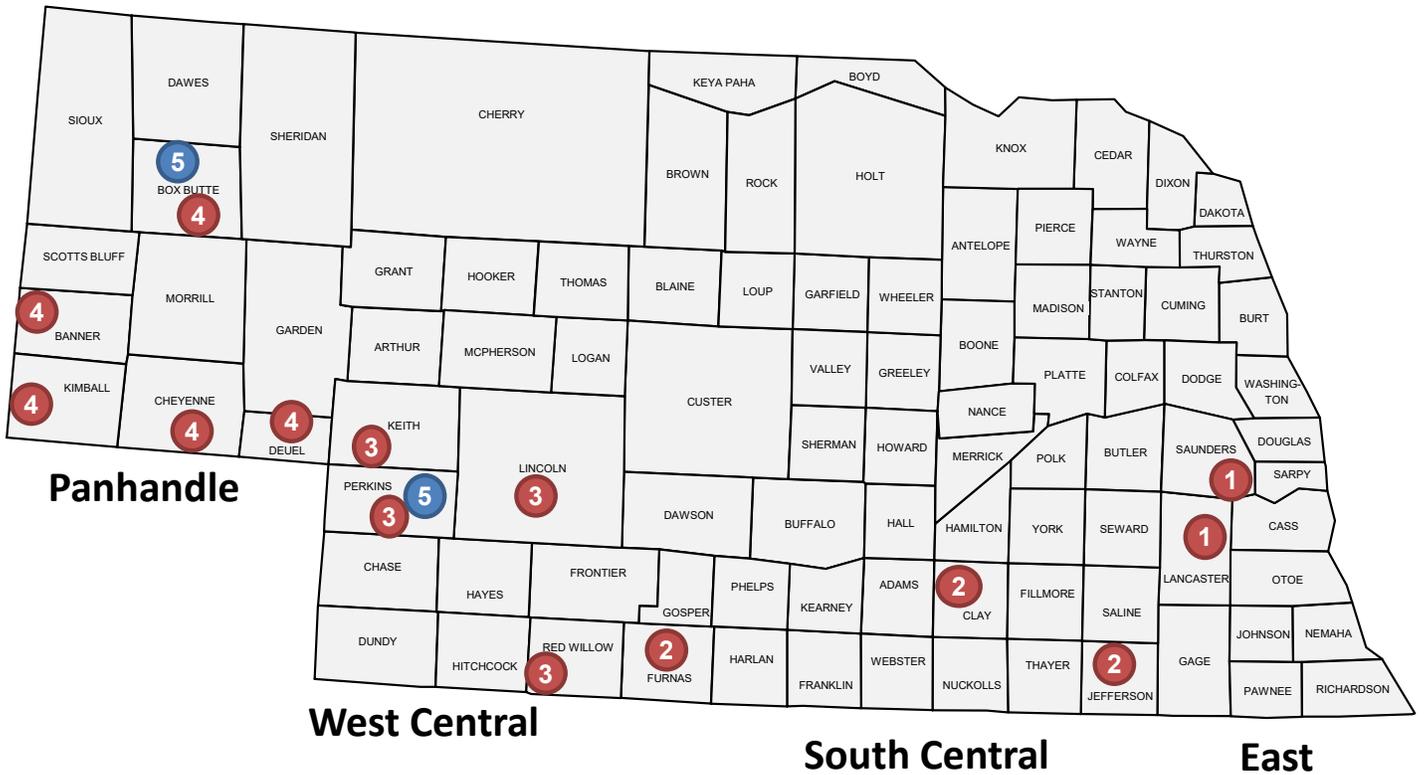
- The Perkins County Irrigated trial was planted on September 11th no-till into soybean stubble. 30 lb/a 40 Rock was applied in-furrow at planting and 125lb/a N fertigated in the spring. Plots were harvested on August 10th with a top yield of 93 bu/a and an average yield of 76 bu/a.
- The Red Willow County Rainfed trial was planted on September 29th into no-till corn fallow. 30 lb/a 40 Rock was applied in-furrow at planting and 22 gal/a 30-0-0-3 applied in the spring. Amber herbicide was applied preplant and Trivapro and Tebustar fungicides were applied in June. Plots were harvested on July 17th with a top yield of 82 bu/a and an average yield of 70 bu/a.
- The Lincoln County Rainfed trial was planted on September 29th no-till into milo fallow. 30 lb/a 40 Rock was applied in-furrow at planting. The site was lost to hail damage.
- The Perkins County Rainfed trial was planted on September 21st no-till into corn fallow. 30 lb/a 40 Rock was applied in-furrow at planting. Prowl H2O and 2,4-D LV6 herbicides were applied in the spring for weed control. Plots were harvested July 11th with a top yield of 80 bu/a and an average yield of 68 bu/a.
- The Keith County Rainfed trial was planted on September 27th into no-till corn fallow ground. 30 lb/a 40 Rock was applied in-furrow at planting and 50 lb/a N topdressed in the spring. Prowl and 2,4-D LV6 herbicides were applied for weed control. Plots were harvested on July 31st with a top yield of 94 bu/a and an average yield of 80 bu/a.

Panhandle (West):

Seven locations were planted in the Panhandle (West Region). One irrigated trial was planted in Box Butte County. Rainfed trials were planted in Deuel, Cheyenne, CheyenneIM (Intensive Management), Kimball, Banner and Box Butte counties. All rainfed sites were left fallow the previous year (Table B).

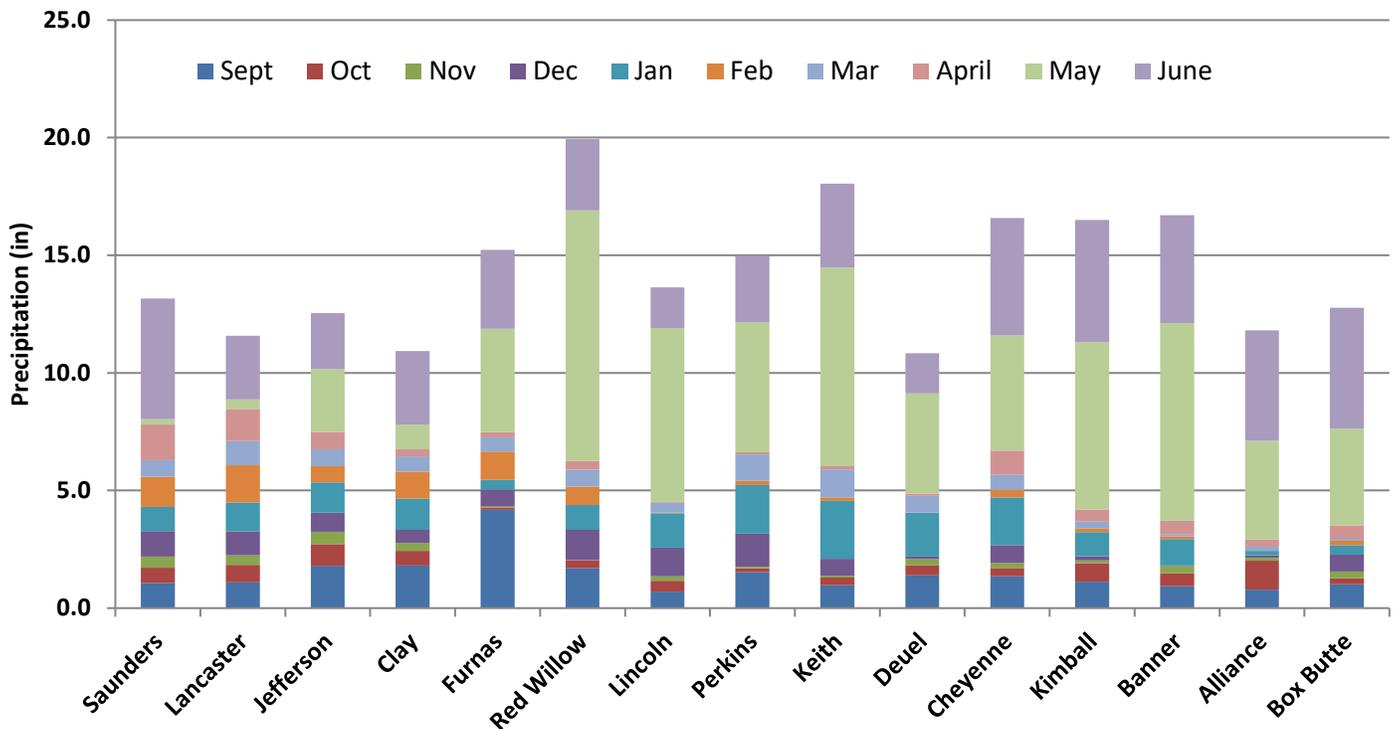
- The Box Butte County Irrigated trial was planted on September 15th into disked dry bean stubble. 30 lb/a 40 Rock was applied in-furrow at planting and 50 lb/a N in the spring. 2,4-D LV-6 and Affinity were applied preplant and Prowl H2O and 2,4-D LV6 in the spring for weed control. Onset fungicide was applied. Plots were harvested August 2nd with a top yield of 104 bu/a and an average yield of 86 bu/a.
- The Deuel County Rainfed trial was planted on September 27th into conventionally tilled wheat fallow. 30 lb/a 40 Rock was applied in-furrow at planting and 30 lb/a N in the spring. Amber and Prowl herbicides were applied for weed control. Plots were harvested July 29th with a top yield of 85 bu/a and an average yield of 73 bu/a.
- The Cheyenne County Rainfed trial was planted on September 20th no-till into corn fallow. 30 lb/a N was applied preplant and 30 lb/a 40 Rock was applied in-furrow at planting. RoundUp and 2,4-D LV-6 were applied preplant and Prowl H2O and 2,4-D LV6 in the spring. Plots were harvested on July 31st with a top yield of 77 bu/a and an average yield of 63 bu/a.
- The CheyenneIM (Intensive Management) County Rainfed trial was planted on September 20th no-till into corn fallow. 50 lb/a N was applied preplant and 30 lb/a 40 Rock in-furrow at planting. 10 lb/a N was applied in early April and 50 lb/a N in late April. RoundUp and 2,4-D LV-6 herbicides were applied preplant and Prowl H2O and 2,4-D LV6 in the spring. Plots were harvested on July 26th with a top yield of 86 bu/a and an average yield of 70 bu/a.
- The Kimball County Rainfed trial was planted on September 20th into conventionally tilled corn fallow. 30 lb/a 40 Rock was applied in-furrow at planting. Prowl H2O and 2,4-D LV6 were applied in the spring. Plots were harvested on August 12th with a top yield of 65 bu/a and an average yield of 50 bu/a.
- The Banner County Rainfed trial was planted on September 19th into wheat fallow. 30 lb/a 40 Rock was applied in-furrow at planting. Prowl H2O and 2,4-D LV6 were applied in the spring. Plots were harvested on August 11th with a top yield of 91 bu/a and an average yield of 75 bu/a.
- The Box Butte County Rainfed trial was planted on September 15th into disked corn fallow. 30 lb/a 40 Rock was applied at planting and 50 lb/a N topdressed in the spring. Prowl, 2,4-D LV6, and Nexicor in the spring were used for weeds. Plots were harvested on July 22nd with a top yield of 106 bu/a and an average yield of 95 bu/a.

2023 WINTER WHEAT TRIAL LOCATIONS MAP



● Rainfed Sites ● Irrigated Sites

2023 WINTER WHEAT TRIAL SITE PRECIPITATION (inches)



**TABLE A - LOCATION SUMMARY FOR NEBRASKA
WINTER WHEAT VARIETY TESTS - 2023**

Location	Cooperator	Latitude	Longitude	Dates		Location Mean Yield (bu/a)	
				Plant	Harvest	Top Yield	Site Avg
Southeast							
Saunders Rainfed	UNL ARDC; Ithaca, NE	41.164746	-96.419017	10/4/22	7/10/23	32.0	23.8
SaundersIM Rainfed	UNL ARDC; Ithaca, NE	41.164201	-96.419017	10/4/22	7/10/23	42.5	30.4
Lancaster Rainfed	UNL Havelock Farm; Lincoln, NE	40.857285	-96.613049	10/5/22	Lost to drought.		
South Central							
Jefferson Rainfed	Mark Knobel; Fairbury, NE	40.276981	-97.216391	10/13/22	Lost to winter freeze.		
Clay Rainfed	South Central Res & Ext Center; Harvard, NE	40.573510	-98.129649	10/5/22	Lost to drought and freeze.		
Furnas Rainfed	Troy tenBensel, Arapahoe, NE	40.161901	-99.96837	10/11/22	Lost to hail damage.		
West Central							
Red Willow Rainfed	Randy Peters; McCook, NE	40.176476	-100.760500	9/29/22	7/17/23	91.9	70.0
Lincoln Rainfed	UNL WCREC Dryland Farm; North Platte, NE	41.055840	-100.748413	9/29/22	Lost to hail damage.		
Perkins Rainfed	UNL Stumpf International Wheat Center; Grant, NE	40.845372	-101.705381	9/21/22	7/21/23	79.5	67.5
Keith Rainfed	UNL WCREC Water Resource Lab; Brule, NE	41.162919	-101.991881	9/27/22	7/31/23	94.1	79.6
Panhandle (West)							
Deuel Rainfed	Larry Flohr; Chappell, NE	41.17432	-102.247141	9/27/22	7/29/23	84.8	72.6
Cheyenne Rainfed	High Plains Ag Lab; Sidney, NE	41.235923	-103.002828	9/20/22	7/31/23	76.5	63.2
CheyenneIM Rainfed	High Plains Ag Lab; Sidney, NE	41.235927	-103.002296	9/20/22	7/26/23	86.0	70.2
Kimball/Banner Rainfed	Chad Bomberger/Travis Freeburg; Bushnell, NE	41.393448	-103.993727	9/20/22	8/12/23	64.7	49.7
Banner Rainfed	Jim Wyatt; Harrisburg, NE	41.568388	-103.716031	9/19/22	8/11/23	90.9	75.1
Box Butte Rainfed	Cullan Seed Farms; Hemingford, NE	42.246128	-103.014585	9/15/22	7/22/23	105.6	94.8
Irrigated							
Box Butte Irrigated	Tommy Cullan, Cullan Seed Farms; Hemingford, NE	42.289789	-103.014540	09/15/22	8/2/23	104.4	85.8
Perkins Irrigated	UNL Stumpf International Wheat Center; Grant, NE	40.853739	-101.701514	10/11/22	8/10/23	93.4	76.2

TABLE B - SOIL TYPE, PREVIOUS CROP, FERTILIZERS AND HERBICIDES/ FUNGICIDES APPLIED TO NEBRASKA WINTER WHEAT VARIETY TESTS

Location	Soil Type	Tillage System	Previous Crop(s)	Fertilizer	Herbicide/Fungicide
Southeast					
Saunders Rainfed	Yutan silty clay loam	Disked	Oats	80 lb/a N applied at greenup	0.3 oz/a Finesse preplant; 0.5 pt/a 2,4-D + 2 pt/a Prowl in April
SaundersIM Rainfed	Yutan silty clay loam	Disked	Oats	40 lb/a N applied at greenup, 80 lb/a N applied at Feekes 5	0.3 oz/a Finesse preplant; 0.5 pt/a 2,4-D + 2 pt/a Prowl in April
Lancaster Rainfed	Crete silt loam	Disked	Oats	80 lbs/a N preplant, 80 lbs/a N in March	0.3 oz/a Finesse preplant, 2,4-D + Prowl in April
South Central					
Jefferson Rainfed	Crete silt loam	No-till	Soybean	NA	NA
Clay Rainfed	Crete silt loam	Disked	Soybean	NA	NA
Furnas Rainfed	Holdrege silt loam	No-till	Fallow (corn)	NA	NA
West Central					
Red Willow Rainfed	Keith & Blackwood silt loams	No-till	Fallow (corn)	30 lb/a P as 40 Rock at planting, 22 gal/a 30-0-0-3 in April	0.56 oz/a Amber in September, Trivapro & 4 oz/a Tebustar in June
Lincoln Rainfed	Holdrege silt loam	No-till	Fallow (milo)	30 lb/a P as 40 rock	2.4 pts/a Prowl H2O + 6oz/a 2,4-D LV6 + 1/4 lb/a N
Perkins Rainfed	Mace & Rosebud-Canyon silt loams	No-till	Fallow (corn)	30 lb/a P as 40 rock	2.4 pts/a Prowl H2O + 6oz/a 2,4-D LV6 + 1/4 lb/a N
Keith Rainfed	Kuma loam	No-till	Fallow (corn)	30 lb/a P as 40 rock	2.4 pts/a Prowl H2O + 6oz/a 2,4-D LV6 + 1/4 lb/a N
Panhandle (West)					
Deuel Rainfed	Johnstown-Satanta-Richfield-Altvan loams	Tilled	Fallow (wheat)	30 lbs lb/a P as 40 rock at planting, 20 lb/a N, followed by 10 lbs N with Amber in early spring	Amber in early spring, 2 pt/a Prowl H2O in spring
Cheyenne Rainfed	Alliance loam	No-till	Fallow (corn)	30 lb/a N as 32-0-0 streamed in August; 30 lb/a P as 40 Rock in-furrow at planting; 10 lb/a N with 2,4-D in April	32 oz/a RoundUp, 8 oz/a 2,4-D LV6 and 1% Class Act preplant; 2 pt/a Prowl H2O and 6 oz/a 2,4-D LV6 in early May
CheyenneIM Rainfed	Alliance loam	No-till	Fallow (corn)	50 lb/a N as 32-0-0 streamed in August; 30 lb/a P as 40 Rock in-furrow at planting; 10 lb/a N with 2,4-D in April; 50 lb/a N applied with streamer nozzles after herbicide application	32 oz/a RoundUp, 8 oz/a 2,4-D LV6 preplant; 2 pt/a Prowl H2O and 6 oz/a 2,4-D LV6 in early May
Kimball/Banner Rainfed	Satanta fine sandy loam	Tilled	Fallow (corn)	30lbs/a of P as 40 rock	2 pt/a Prowl H2O + 2,4-D LV6 in the spring
Banner Rainfed	Bridget very fine sandy loam	Tilled	Fallow (wheat)	30lbs/a of P as 40 rock	2 pt/a Prowl H2O + 2,4-D LV6
Box Butte Rainfed	Rosebud loam	Tilled	Fallow (corn)	30 lb/a P as 40 Rock at planting, 50 lb/a N topdressed in spring	2 pt/a Prowl H2O + 2,4-D LV6 and Nexicor in spring.
Irrigated					
Box Butte Irrigated	Rosebud & Alliance loams	Tilled	Dry bean	30 lb/a P as 40 Rock at planting, 50 lb/a N topdressed in spring	LV6 and Affinity in the fall, 2.4 pt/a Prowl H2O with 6 oz/a 2,4-D LV6 in April, Onset fungicide
Perkins Irrigated	Mace & Kuma silt loams	No-till	Soybean	30 lb/a 40 Rock in-furrow; 125 lb/a N fertigated in the spring	2 pt/a Prowl H2O + 2,4-D LV6 in the spring

TABLE C - ENTRIES AND CONTACT INFORMATION

The entrant should be contacted for information on seed availability, adaptation and agronomic characteristics.

AgriPro - Syngenta 47765 899th Rd, Atkinson, NE 68713 agriprowheat.com	AP18AX, AP Bigfoot, AP Prolific, AP Roadrunner, AP Solid, SY Legend CL2, SY Wolverine	
Armor Seed 2532 Alexander Dr b, Jonesboro, AR 72401 armorseed.com	AR Iron Eagle 33AX, AR Turret 25	
Crop Rsch Foundation of WY P.O. Box 1778, Laramie, WY 82073-1778 wyomingwheat.com	Steamboat	
CROPLAN by Winfield United 500 North 1st Street, Vincent, IA 50594 croplan.com	CP7017AX, CP7050AX, CP7266AX	
Husker Genetics 1071 County Rd G, Ithaca, NE 68033 huskergenetics.unl.edu	Freeman, Pronghorn, Robidoux, Ruth, Wesley	
Kansas Wheat Alliance 1990 Kimball Ave. Ste 200, Manhattan, KS 66502 kswheatalliance.org	KS Territory	
Limagrain Cereal Seeds 6414 N. Sheridan, Wichita, KS 67204 limagraincerealseeds.com	LCS Atomic AX, LCS Julep, LCS Steel AX, LCS Valiant	
Meridian Seeds 16553 37th St SE, Suite 3, Mapleton, ND 58059 meridianseeds.com	MS Maverick, MS Sundown	
ND Crop Improvement & Seed Assn AAC Goldrush 11360 Albrecht Blvd, Fargo, ND 58102 ndcropimprovement.com	AAC Goldrush	
NuHorizon Genetics 6731 Franklin Rd, Hemingford, NE 69348 nuhorizongenetics.com	Epoch	
NuPride Genetics P. O. Box 830911, Lincoln, NE 68583-0911 necrop.org	Settler CL, Siege	
PlainsGold Colorado State University 4026 S. Timberline Rd. Suite 100, Fort Collins, CO 80525 plainsgold.com	Amplify SF, Canvas, Crescent AX, Fortify SF, Kivari AX, Langin, Whistler	
Polansky Seed, Inc. P.O. Box 306, Belleville, KS 66935 polanskyseed.com	High Country, Paradise, Rock Star	
WestBred 9105 W. Meadow Knoll St., Wichita, KS 67205 westbred.com	WB4303, WB4401, WB4418, WB4422, WB4483, WB4510CLP, WB4523, WB4595, WB4632, WB4699, WB4733CLP, WB4792	

WINTER WHEAT VARIETY CHARACTERISTICS 2023^[1] (PAGE 1/3)

Variety	Origin	Maturity	Winter Hardiness	Straw Strength	Plant Height	Coleoptile Length	Bushel Weight	Grain Protein	
AAC Goldrush	Canada	5	5	5	6	--	1	1	
Amplify SF	CSU/PlainsGold	3	4	5	6	6	3	6	
AP 18AX	AgriPro	4	4	5	4	5	3	2	
AP Bigfoot	AgriPro	2	4	4	4	5	1	4	
AP Prolific	AgriPro	3	4	3	5	7	2	4	
AP Roadrunner	AgriPro	5	3	3	5	5	4	4	
AP Solid	AgriPro	5	4	3	4	5	2	4	
AR Iron Eagle 33AX	Armor	3	4	4	7	5	3	5	
AR Turret 25	Armor	4	4	5	5	5	3	5	
Canvas	CSU/PlainsGold	3	4	5	3	6	3	3	
CP7017AX	CROPLAN	3	5	5	5	5	5	5	
CP7050AX	CROPLAN	1	4	5	5	5	3	2	
CP7266AX	CROPLAN	3	4	4	7	5	3	5	
Crescent AX	CSU/PlainsGold	1	3	4	5	5	3	7	
Epoch	USDA-NE	2	5	3	2	--	3	--	
Fortify SF	CSU/PlainsGold	4	4	2	6	4	4	6	
Freeman	NE	3	5	3	2	2	6	5	
High Country	KS	2	5	6	4	5	2	3	
Kivari AX	CSU/PlainsGold	3	5	3	5	5	5	8	
KS Territory	KSU	3	5	5	5	4	5	5	
Langin	CSU/PlainsGold	2	3	3	3	4	5	7	
LCS Atomic AX	Limagrain	1	5	6	1	7	2	3	
LCS Julep	Limagrain	5	5	5	6	5	3	3	
LCS Steel AX	Limagrain	5	5	5	6	7	2	3	
LCS Valiant	Limagrain	2	5	6	5	5	5	5	
MS Maverick	Meridian	4	--	3	5	6	2	2	
		1 = Early 5 = Late	1 = Tender 5 = Hardy	1=Weak 6=Strong	1 = Short 9 = Tall	1 = Short 9 = Long	1 = High 9 = Low		

	Hessian Fly	Leaf Rust	Stem Rust	Soil Borne Mosaic	Wheat Streak Mosaic	Stripe Rust	Tan Spot	Target Environment in Nebraska	Other Information
	9	1	1	--	1	5	2	Panhandle	
	9	5	5	5	8	4	--	Sawfly acres	Semi-solid stem
	9	5	5		6	7	4		
	9	2	2	5	4	4	5		
	9	2	2	1	4	2	4		
	2	2	8	1	4	2	6		Solid stem
	9	7	6	7	5	7	6		
	9	3	7	6	6	4	--		
	9	3	3	6	6	3	--		
	4	6	2	9	3	3	--	West & Central	Bump seeds/acre by 15%
	9	6	3	6	6	4	--		
	9	4	7	6	6	3	--		
	9	3	7	6	6	4	--		
	--	6	--	--	2	4	--	Weedy acres	CoAXium variety
	8	3	2	1	7	3	--	Irrigated/higher rainfall areas	Well-adapted for intensive management and irrigated acres
	9	7	4	--	2	7	--	Sawfly acres	Semi-solid stem
	Seg	6	2	1	9	8	--	All NE	
	9	2	3	1	4	6	4	West Central	Tremendous yields in high country western environments. High yields in areas with less than 20" annual rainfall.
	--	8	5	9	3	8	--	Weedy acres	Low pH tolerance, CoAXium variety
	2	8	3	--	3	7	6	West Central	Triticum Mosaic Virus tolerance
	--	6	8	--	6	3	--	Dryland West	
	9	2	9	1	7	1	--	All	Early maturity and consistently top performing CoAXium variety
	1	4	4	1	3	7	--	All except East and South Central	Very good drought tolerance with very good yield potential and Hessian Fly resistance
	9	2	8	1	7	8	--	All	Latest maturity CoAxium in LCS line up
	1	5	4	1	8	2	--	Irrigated/ Dryland	Consistant performance with a very good disease package.
	--	1	3	--	--	1	--	Panhandle, West Central	
1 = Resistant 9 = Susceptible Seg = Segregating R* = Resistant (by marker)									

WINTER WHEAT VARIETY CHARACTERISTICS 2023 (PAGE 2/3)

Variety	Origin	Maturity	Winter Hardiness	Straw Strength	Plant Height	Coleoptile Length	Bushel Weight	Grain Protein	
MS Sundown	Meridian	4	--	5	5	7	4	5	
NE16562	NE	2	5	--	4	2	5	--	
NE17441	NE	2	5	--	4	--	1	--	
NE17443	NE	2	5	--	4	--	6	--	
NE17544	NE	4	5	--	7	--	2	--	
NE18435	NE	2	5	--	3	--	1	--	
NE18455	NE	2	5	--	4	--	4	--	
NE19454	NE	--	--	--	--	--	--	--	
NE19590	NE	3	5	--	5	--	4	--	
NE19619	NE	4	5	--	6	--	3	--	
NHH17450	NE	2	5	--	5	--	4	--	
NHH17612	NE	3	5	--	5	--	3	--	
NHH19668	NE	3	5	--	4	--	1	--	
NI17410	NE	2	5	--	4	--	1	--	
NW15443	NE	4	5	--	6	--	4	--	
Paradise	KS	2	4	5	3	5	2	2	
Pronghorn	NE	3	4	3	8	9	5	5	
PSB13NEDH-14-83W	NE	3	5	--	5	--	6	--	
Robidoux	NE	3	4	--	5	6	5	--	
Rockstar	KS	3	5	6	4	5	4	3	
Ruth	NE	4	4	4	5	7	1	4	
Scout 66	NE	3	3	1	9	8	4	5	
		1 = Early 5 = Late	1 = Tender 5 = Hardy	1=Weak 6=Strong	1 = Short 9 = Tall	1 = Short 9 = Long	1 = High 9 = Low		

	Hessian Fly	Leaf Rust	Stem Rust	Soil Borne Mosaic	Wheat Streak Mosaic	Stripe Rust	Tan Spot	Target Environment in Nebraska	Other Information
	--	1	2	--	--	3	--		
	S	--	--	--	S	5	--	Broad adaptation, top line in 3-year averages	
	S	6	6	R*	S	3	R*	Broad adaptation	MR for FHB
	S	6	5	S	S	9	--	West Central & Panhandle	MR for FHB
	MR/MS	3	5	R*	S	5	--	Panhandle	
	--	--	--	--	S	3	--	Eastern/high rainfall and irrigated potential	
	--	5	--	S	S	3	--	Eastern, high rainfall	
	--	--	--	--	--	--	--		
	R	--	5	--	S	7	--	Panhandle	
	MR/MS	--	1	--	S	3	--	Eastern and Central NE	
	R	9	5	R*	S	4	--	West Central and South	2 gene CL approved for release, excellent yield potential, earlier maturity than sib, acceptable baking quality
	S	9	4	R*	S	4	--	North of I-80	2 gene CL approved for release, excellent yield potential, later maturity and Better quality than sib 17450- rated as good-excellent in milling and baking tests
	S	--	6	--	S	4	--	Broadly adapted to NE	CL2
	S	--	--	--	S	3	--	Eastern, high rainfall, irrigated potential	CL2
	S	--	--	--	S	4	--	West/south central, good yield potential	White Wheat
	9	3	3	1	5	1	3	South Central	High yields planted continuous, fallow, or after soybeans. Excellent Mill and Bake score, Excellent Stripe Rust tolerance and good grazing.
	9	7	3	9	9	--	--	Western	Tall, moderately early maturity with good tillering, long coleoptile; good in drought prone conditions
	R	3	1	R*	S	6	--	West/South Central	
	9	8	1	3	9	4	--	Western; rainfed and irrigated	Semi dwarf with medium coleoptile, moderately late, broadly adapted; developed UNL/USDA and co-released with Wyoming
	9	2	3	1	4	2	4	South Central & West Central	High yields planted continuous, fallow, after beans, or after corn. Good Fusarium Head Blight tolerance
	5	8	1	1	9	3	--	Broad adaptation	Strong yield and fairly stable, good stripe rust resistance, good test weight
	9	7	5	9	7	8	9		Released by NE Agricultural Expt station in 1963, a composite of selections from Scout developed for uniformity and end use
1 = Resistant 9 = Susceptible Seg = Segregating R* = Resistant (by marker)									

WINTER WHEAT VARIETY CHARACTERISTICS 2023 (PAGE 3/3)

Variety	Origin	Maturity	Winter Hardiness	Straw Strength	Plant Height	Coleoptile Length	Bushel Weight	Grain Protein	
Settler CL	NE	3	5	3	1	6	6	5	
Siege	NE	4	4	5	3	--	2	--	
Steamboat	WY	4	4	4	7	7	3	5	
SY Legend CL2	AgriPro	3	4	2	4	5	2	4	
SY Wolverine	AgriPro	3	4	2	3	5	2	3	
Turkey	Ukraine	5	4	2	9	9	3	1	
WB4303	Bayer	2	3	6	4	5	5	2	
WB4401	Bayer	2	4	4	5	5	4	4	
WB4418	Bayer	3	4	6	4	6	4	4	
WB4422	Bayer	3	4	5	6	6	2	3	
WB4483	Bayer	4	5	5	5	6	6	5	
WB4510CLP	Bayer	3	4	5	5	6	2	4	
WB4523	Bayer	3	4	6	3	5	4	5	
WB4595	Bayer	3	4	5	5	6	2	4	
WB4632	Bayer	3	4	4	5	5	3	4	
WB4699	Bayer	3	4	5	3	5	6	6	
WB4733CLP	Bayer	4	5	5	5	6	5	5	
WB4792	Bayer	4	5	5	6	6	4	4	
Wesley	ARS-NE	3	5	5	2	1	7	4	
Whistler	CSU/PlainsGold	9	5	2	7	5	6	6	
		1 = Early 5 = Late	1 = Tender 5 = Hardy	1=Weak 6=Strong	1 = Short 9 = Tall	1 = Short 9 = Long	1 = High 9 = Low		

[1] Variety characteristics and descriptors are provided by the companies.

	Hessian Fly	Leaf Rust	Stem Rust	Soil Borne Mosaic	Wheat Streak Mosaic	Stripe Rust	Tan Spot	Target Environment in Nebraska	Other Information
	9	5	4	1	5	8	--	Broad adaptation; dry-land and irrigated	Single gene Clearfield for grassy weed pressure, good winter hardiness, stable yields
	3	4	2	1	7	2	--	Eastern; South Central	Moderate disease/pest resistance package, excellent yield and straw strength, acceptable end use
	--	1	1	5	--	1	--	West	Excellent rust resistance
	9	5	--	--	4	4	3		
	9	2	2	1	4	6	3		
	9	7	7	9	5	9	--		Brought to KS in 1870s from Ukraine with immigrants, dominant historical variety
	6	3	3	2	5	8	8	Western Irrigated	Excellent Protein and Mill/Bake
	5	4	4	2	7	3	5	Eastern Dryland	Very good FHB tolerance
	2	4	3	2	5	4	7	Western Dry, Irrigated	Good sawfly tolerance for light to moderate infestations
	8	2	6	2	6	8	3	Eastern/Western Dry-land	New in 2022: Targeted as WB-Grainfield replacement
	--	5	7	6	6	7	4	Western Dryland	Solid Stem variety with good yield potential
	7	6	5	6	6	2	7	Western Dryland	2-gene Clearfield with excellent yield potential and agronomics
	8	5	4	3	6	2	2	Eastern Dry, Western Irrigated	New in 2021: Very good yield potential with excellent standability and disease package. Good FHB tolerance
	6	4	3	7	4	4	6	Western Dry, Irrig	Excellent drought and heat tolerance. Good sawfly tolerance for light to moderate infestations
	5	5	7	3	8	6	5	Eastern Dryland	New for 2022: Very good yield and test weight, with good FHB and BLS.
	5	3	2	3	6	6	4	Eastern Dry, Western Irrigated	Excellent yield potential, standability with a very good disease package. Very good FHB tolerance
	--	3	6	--	6	2	5	Western Dryland	2-gene Clearfield Solid Stem variety with good yield potential
	4	2	4	7	5	4	6	Western Dryland	Excellent drought and heat tolerance. Good sawfly tolerance for light to moderate infestations
	9	8	1	1	9	7	5	Broad adaptation; particularly good on irrigated acres	Moderately short, excellent straw strength, bronze chaff, good end use
	--	6	1	1	2	3	--	Dryland West	
1 = Resistant 9 = Susceptible Seg = Segregating R* = Resistant (by marker)									

EAST DRYLAND WHEAT VARIETY TESTS

SAUNDERS AND SAUNDERS(IM) COUNTIES - 2023

Variety	Brand	Average 2023 Yield (bu/a) ^[1]	Saunders Yield (bu/a)	SaundersIM Yield (bu/a)	Grain Protein (%) ^[2]	Plant Height (in)	Seed Weight (1000 seeds/lb)
LCS Steel AX	Limagrain	37.3	32.0	42.5	14.6	22.5	14.7
WB4422	WestBred	32.7	30.7	34.6	16.0	22.7	12.3
Turkey	Check	30.8	29.3	32.2	16.9	27.5	13.8
NE16562	UNL-Experimental	29.0	27.3	30.7	14.9	22.7	13.3
NE17443	UNL-Experimental	29.4	27.2	31.5	16.2	20.7	13.0
Freeman	Husker Genetics	27.3	26.4	28.1	15.7	22.8	13.2
Wesley	Husker Genetics	29.9	26.1	33.6	16.1	21.5	11.6
WB4632	WestBred	30.5	25.8	35.1	14.3	21.9	12.5
Scout 66	Check	29.2	25.2	33.1	16.3	28.2	12.7
Ruth	Husker Genetics	32.4	25.0	39.8	15.9	23.3	13.1
LCS Julep	Limagrain	27.1	24.6	29.6	16.3	21.1	12.7
NE18455	UNL-Experimental	25.2	23.9	26.5	15.3	21.8	13.8
NE17441	UNL-Experimental	23.5	22.0	24.9	16.3	22.8	13.5
AP Prolific	AgriPro	24.3	21.3	27.2	16.0	20.0	13.6
WB4523	WestBred	21.7	21.3	22.0	13.5	17.0	14.0
WB4699	WestBred	23.2	20.5	25.9	14.1	20.1	16.0
WB4401	WestBred	22.4	20.0	24.7	14.2	18.7	11.5
LCS Valiant	Limagrain	24.5	19.3	29.7	15.2	21.5	13.1
LCS Atomic AX	Limagrain	21.5	15.7	27.3	14.8	20.4	11.8
Siege	NuPride Genetics	20.4	12.5	28.3	15.3	21.1	12.7
Average of all entries		27.1	23.8	30.4	15.4	21.9	13.1
Standard error		2.7	2.9	2.4	0.3	1.0	0.3
LSD_{0.10}^[3]		4.5	4.9	4.0	0.5	1.6	0.6
Coefficient of variation^[4]		10.1	12.2	8.0	1.8	4.3	2.5

[1] Yield values corrected to 12% moisture and 60 lb/bu test weight.

[2] Protein corrected to 14% moisture, the correction factor used in analytical standards.

[3] For differences between varieties that are equal to or greater than the LSD_{0.10} value, the chance that the difference is significant is 90%.

[4] Coefficient of Variation (CV) indicates the quality of a trial, and lower than 15 indicates a high quality trial. For CV>15, there was higher than expected variability in the field or the data and the results should be used with caution.



EAST DRYLAND AVERAGE WHEAT PERFORMANCE

Variety	Brand	Grain Yield (bu/a)	Bushel Weight (lb/bu)	Grain Protein (%)	Plant Height (inches)	Seed Weight (1000 seeds/lb)
Two-year (2022-2023) averages*						
Ruth	Husker Genetics	61.5	58.8	14.4	30.7	14.8
NE16562	UNL-Experimental	58.1	56.9	14.1	29.8	15.5
WB4401	WestBred	54.8	58.1	13.3	26.8	13.2
Freeman	Husker Genetics	54.5	55.5	14.5	29.9	15.0
NE18455	UNL-Experimental	54.3	57.4	14.1	29.6	15.7
WB4699	WestBred	53.9	56.0	13.2	27.0	18.9
WB4523	WestBred	52.9	55.4	12.9	25.0	16.9
Wesley	Husker Genetics	52.6	56.4	15.1	28.8	13.7
NE17441	UNL-Experimental	51.5	59.7	15.0	30.2	14.5
LCS Valiant	Limagrain	50.1	58.1	14.9	28.1	14.1
Siege	NuPride Genetics	49.9	57.8	14.6	29.0	14.1
LCS Atomic AX	Limagrain	49.5	59.0	14.0	26.8	13.0
Turkey	Check	41.6	56.6	16.3	35.6	15.2
Scout 66	Check	41.4	57.0	15.6	35.6	13.8
Average of all entries		51.9	57.3	14.4	29.5	14.9
Standard error		NA	0.7	0.3	0.9	0.6
LSD_{0.10}		NA^[1]	1.3	0.5	1.4	0.9
Coefficient of variation		NA	1.3	2.1	2.9	3.7

[1] Across the 2022 and 2023 growing season, overall yield differences were not statistically significant, so no LSD is provided.

Three-year (2021-2023) averages*						
Ruth	Husker Genetics	68.8	58.1	13.5	33.8	15.6
WB4401	WestBred	68.4	57.0	12.8	30.3	13.1
WB4699	WestBred	65.9	56.0	12.8	28.6	19.4
Siege	NuPride Genetics	64.4	58.8	14.1	32.1	13.8
LCS Valiant	Limagrain	64.0	58.3	14.2	30.8	14.3
NE16562	UNL-Experimental	60.3	55.4	13.5	32.6	16.4
Wesley	Husker Genetics	59.1	55.2	14.3	31.4	15.0
Freeman	Husker Genetics	59.0	54.6	13.8	32.7	16.2
NE17441	UNL-Experimental	58.0	57.0	13.9	31.9	15.8
Scout 66	Check	48.6	57.5	14.9	39.9	14.1
Turkey	Check	47.4	56.3	15.3	40.1	15.7
Average of all entries		60.4	56.7	13.9	33.1	15.4
Standard error		4.8	0.8	0.2	0.8	0.6
LSD_{0.10}		7.9	1.3	0.4	1.3	0.9
Coefficient of variation		7.9	1.4	1.7	2.4	3.7

* 2023 Saunders, SaundersIM (2023 drought caused loss of site in Lancaster County.)

* 2022 Saunders, Lancaster

* 2021 Saunders, SaundersIM, Lancaster

WEST CENTRAL DRYLAND WHEAT VARIETY TESTS

RED WILLOW, PERKINS, AND KEITH COUNTIES - 2023 (PAGE 1/2)

Variety	Brand	Average 2023 Yield (bu/a) ^[1]	Red Willow Yield (bu/a)	Perkins Yield (bu/a)	Keith Yield (bu/a)	Bushel Weight (lb/bu)	Grain Protein (%) ^[2]	Plant Height (in)	Seed Weight (1000 seeds/lb)
AR Turret 25	ARMOR	82.8	75.1	79.1	94.1	57.6	10.4	29.8	12.2
LCS Steel AX	Limagrain	79.9	76.8	79.5	83.3	55.8	9.5	32.6	17.3
AR Iron Eagle 33AX	ARMOR	79.1	77.3	71.7	88.3	58.0	10.5	30.3	14.6
NE19619	UNL-Experimental	78.4	75.1	69.7	90.4	57.5	11.0	33.9	12.8
AP Bigfoot	AgriPro	78.3	75.1	71.8	87.9	58.8	11.3	29.3	16.1
WB4422	WestBred	77.0	73.4	64.2	93.4	59.2	10.6	28.7	14.5
Ruth	Husker Genetics	76.5	67.7	72.9	89.0	57.7	10.4	31.3	14.8
CP7266AX	CROPLAN	76.2	70.6	77.9	80.2	57.9	10.5	30.1	15.0
High Country	Polansky Seed, Inc.	76.2	67.3	70.5	90.9	58.8	10.7	27.9	15.9
Canvas	PlainsGold	75.8	69.5	74.7	83.2	58.2	10.6	29.9	16.6
MS Maverick	Meridian Seeds	75.8	71.9	67.5	87.9	59.0	10.9	29.7	13.0
NHH19668	UNL-Experimental	75.5	81.9	63.5	81.0	58.5	10.5	29.3	14.3
NE16562	UNL-Experimental	74.8	73.0	67.6	83.7	58.0	10.8	29.1	15.2
NW15443	UNL-Experimental	74.8	72.6	69.0	82.7	57.3	10.5	32.9	12.2
KS Territory	Kansas Wheat Alliance	74.4	73.7	68.1	81.4	58.6	10.7	30.0	13.7
NE18455	UNL-Experimental	74.4	71.4	63.2	88.5	57.5	10.6	29.5	16.5
MS Sundown	Meridian Seeds	74.1	69.8	66.5	86.0	58.8	10.2	30.5	14.6
NHH17612	UNL-Experimental	74.0	73.9	67.3	80.7	59.1	11.0	30.0	15.5
Rockstar	Polansky Seed, Inc.	73.7	74.5	66.6	80.1	58.0	11.4	27.7	13.3
NE17441	UNL-Experimental	73.3	73.6	64.0	82.3	59.0	11.1	31.0	13.2
WB4595	WestBred	72.3	74.3	65.9	76.7	60.2	10.6	29.5	14.9
WB4510CLP	WestBred	72.2	70.1	74.3	72.3	59.4	10.5	31.9	13.6
NHH17450	UNL-Experimental	71.4	68.5	64.4	81.4	58.0	10.8	31.8	15.5
WB4418	WestBred	71.4	64.5	64.9	84.9	57.4	10.9	27.6	16.7
Freeman	Husker Genetics	71.0	72.4	66.9	73.8	57.0	10.4	30.3	14.0
CP7017AX	CROPLAN	70.8	63.3	68.7	80.4	58.5	10.3	28.9	15.2
SY Wolverine	AgriPro	70.5	71.2	66.2	74.1	57.9	10.7	27.0	14.4
AP 18AX	AgriPro	70.3	62.4	71.9	76.7	56.0	10.7	28.2	14.7
SY Legend CL2	AgriPro	70.3	69.6	69.9	71.3	58.8	11.0	29.6	13.5
NE17443	UNL-Experimental	70.1	72.1	61.5	76.7	57.9	10.9	28.1	14.3
NE19590	UNL-Experimental	70.0	69.9	69.3	70.9	58.0	10.6	31.2	15.0
LCS Valiant	Limagrain	69.5	65.9	57.5	85.1	57.3	10.8	27.6	14.5
AP Roadrunner	AgriPro	69.4	.	69.4	.	58.4	11.7	30.4	14.0
LCS Julep	Limagrain	68.9	64.2	63.8	78.8	58.8	10.9	29.2	13.3
Wesley	Husker Genetics	68.9	67.5	59.6	79.5	57.4	11.2	28.5	13.1
LCS Atomic AX	Limagrain	66.1	59.4	65.4	73.6	57.5	10.7	28.2	14.0

TABLE CONTINUED ON NEXT PAGE

WEST CENTRAL DRYLAND WHEAT VARIETY TESTS

RED WILLOW, PERKINS, AND KEITH COUNTIES - 2023 (PAGE 2/2)

Variety	Brand	Average 2023 Yield (bu/a) ^[1]	Red Willow Yield (bu/a)	Perkins Yield (bu/a)	Keith Yield (bu/a)	Bushel Weight (lb/bu)	Grain Protein (%) ^[2]	Plant Height (in)	Seed Weight (1000 seeds/lb)
Robidoux	Husker Genetics	64.3	64.7	65.4	62.7	55.7	10.6	30.3	15.7
CP7050AX	CROPLAN	63.7	63.6	63.0	64.6	59.3	11.7	28.6	16.3
Turkey	Check	60.8	65.3	55.8	61.2	58.8	11.5	38.6	13.8
Scout 66	Check	59.8	59.6	59.0	60.9	58.8	11.6	37.5	12.9
Average of all entries		72.4	70.0	67.5	79.6	57.9	10.8	30.1	14.6
Standard error		4.6	3.3	4.8	5.6	0.7	0.5	1.2	0.8
LSD_{0.10}^[3]		7.6	5.4	8.0	9.3	1.1	0.8	2.0	1.2
Coefficient of variation^[4]		6.3	4.7	7.2	7.0	1.1	4.2	4.1	5.1

[1] Yield values corrected to 12% moisture and 60 lb/bu test weight.

[2] Protein corrected to 14% moisture, the correction factor used in analytical standards.

[3] For differences between varieties that are equal to or greater than the LSD value, the chance that the difference is significant is 90%.

[4] Coefficient of Variation (CV) indicates the quality of a trial, and lower than 15 indicates a high quality trial. For CV>15, there was higher than expected variability in the field or the data and the results should be used with caution.



WEST CENTRAL DRYLAND AVERAGE WHEAT PERFORMANCE

Variety	Brand	Grain Yield (bu/a)	Bushel Weight (lb/bu)	Grain Protein (%)	Plant Height (inches)	Seed Weight (1000 seeds/lb)
Two-year (2022-2023) averages*						
LCS Steel AX	Limagrain	76.2	57.0	11.5	31.1	17.5
High Country	Polansky Seed, Inc.	74.4	58.8	11.7	27.4	16.6
CP7266AX	CROPLAN	73.0	57.8	11.9	28.5	15.5
AP Bigfoot	AgriPro	72.0	58.5	12.7	28.2	17.1
Rockstar	Polansky Seed, Inc.	71.9	58.6	13.1	28.9	14.7
NE16562	UNL-Experimental	70.7	57.8	12.2	28.3	15.8
MS Maverick	Meridian Seeds	70.4	59.2	12.5	28.9	13.7
NHH19668	UNL-Experimental	69.8	58.5	12.3	28.1	14.5
WB4422	WestBred	69.7	59.0	12.6	28.3	14.9
Rockstar	Polansky Seed, Inc.	69.3	58.2	13.0	26.4	13.9
CP7017AX	CROPLAN	68.9	58.8	11.7	27.7	15.4
NHH17450	UNL-Experimental	68.6	58.2	12.4	30.6	15.7
NHH17612	UNL-Experimental	68.1	59.1	12.7	28.9	16.1
SY Wolverine	AgriPro	68.0	58.2	12.5	26.8	14.9
WB4595	WestBred	67.8	60.5	12.0	28.8	14.5
AP 18AX	AgriPro	67.5	56.6	12.0	27.7	14.9
SY Legend CL2	AgriPro	67.5	58.9	12.7	28.2	14.3
WB4418	WestBred	66.9	57.3	12.5	27.0	17.6
LCS Atomic AX	Limagrain	66.8	58.1	11.9	27.2	14.0
NE17443	UNL-Experimental	66.8	58.2	12.5	26.7	14.6
Ruth	Husker Genetics	66.7	57.6	12.4	29.8	15.9
WB4792	WestBred	65.7	60.0	12.0	29.1	15.7
Freeman	Husker Genetics	65.6	56.9	12.2	29.0	14.8
WB4510CLP	WestBred	65.4	59.8	12.4	29.8	14.8
NE17441	UNL-Experimental	65.3	58.9	12.5	29.2	14.3
NW15443	UNL-Experimental	65.2	57.3	12.2	30.5	13.4
LCS Valiant	Limagrain	64.4	57.7	13.0	27.3	14.9
Robidoux	Husker Genetics	64.1	56.7	12.5	29.1	15.8
Wesley	Husker Genetics	62.6	57.2	13.0	26.9	14.0
CP7050AX	CROPLAN	62.5	59.5	12.8	27.8	16.3
Scout 66	Check	56.8	59.0	12.6	34.6	13.6
Turkey	Check	55.7	58.0	13.3	35.7	15.2
Average of all entries		67.3	58.3	12.4	28.8	15.1
Standard error		3.4	0.5	0.3	0.7	0.5
LSD_{0.10}		5.6	0.9	0.6	1.2	0.8
Coefficient of variation		5.0	0.9	2.8	2.4	3.3

TABLE CONTINUED ON NEXT PAGE

WEST CENTRAL DRYLAND AVERAGE WHEAT PERFORMANCE

Variety	Brand	Grain Yield (bu/a)	Bushel Weight (lb/bu)	Grain Protein (%)	Plant Height (inches)	Seed Weight (1000 seeds/lb)
Three-year (2021-2023) averages*						
AP Bigfoot	AgriPro	83.2	58.4	12.6	30.3	17.5
LCS Atomic AX	Limagrain	79.7	58.3	11.9	29.6	14.8
WB4595	WestBred	79.2	60.5	11.8	31.3	15.3
NHH17612	UNL-Experimental	79.1	59.3	12.6	30.9	17.0
MS Maverick	Meridian Seeds	78.6	59.0	12.4	31.1	14.7
AP 18AX	AgriPro	78.4	56.9	11.9	31.1	15.6
CP7017AX	CROPLAN	78.3	58.6	11.7	30.0	15.8
NHH17450	UNL-Experimental	77.3	58.0	12.5	33.1	16.6
NE16562	UNL-Experimental	77.3	57.3	12.2	31.2	15.9
WB4418	WestBred	76.9	57.2	12.5	29.4	18.0
NE17441	UNL-Experimental	76.8	58.3	12.3	30.9	15.1
SY Wolverine	AgriPro	76.8	58.2	12.5	29.4	15.5
NE17443	UNL-Experimental	76.7	58.4	12.6	30.1	15.5
Ruth	Husker Genetics	76.7	57.9	12.3	32.4	16.4
LCS Valiant	Limagrain	76.5	57.9	12.9	30.2	15.4
NW15443	UNL-Experimental	76.1	57.7	12.0	33.1	14.0
SY Legend CL2	AgriPro	75.4	58.7	12.8	30.4	14.8
Freeman	Husker Genetics	74.4	56.6	12.2	31.3	15.6
Robidoux	Husker Genetics	74.4	56.8	12.6	31.7	16.7
Wesley	Husker Genetics	73.9	57.2	12.8	29.1	14.3
CP7050AX	CROPLAN	70.3	59.7	13.0	30.5	16.5
Turkey	Check	61.8	57.9	13.5	38.0	15.8
Scout 66	Check	61.6	58.8	12.8	36.8	14.8
Average of all entries		75.6	58.2	12.5	31.4	15.7
Standard error		2.8	0.4	0.2	0.7	0.5
LSD_{0.10}		4.7	0.7	0.4	1.1	0.8
Coefficient of variation		3.7	0.7	1.9	2.1	3.0

* 2023 Red Willow, Keith, Perkins

* 2022 Keith, Perkins, Lincoln

* 2021 Red Willow, Perkins, Lincoln



PANHANDLE (WEST) DRYLAND WHEAT VARIETY TESTS

DEUEL, CHEYENNE, CHEYENNE(IM), KIMBALL, BANNER, & BOX BUTTE COUNTIES - 2023 (PAGE 1/2)

Variety	Brand	Average Yield (bu/a) ^[1]	Deuel Yield (bu/a)	Cheyenne Yield (bu/a)	Cheyenne IM Yield (bu/a)	Kimball Yield (bu/a)	Banner Yield (bu/a)	Box Butte Yield (bu/a)	Bushel Weight (lb/bu)	Grain Protein (%) ^[2]	Plant Height (in)	Seed Weight (1000 seeds/lb)
LCS Steel AX	Limagrain	79.5	80.2	72.5	86.0	56.5	90.9	90.8	56.7	10.6	31.8	18.2
AR Turret 25	ARMOR	78.1	76.1	69.7	81.3	63.9	80.3	97.2	56.6	11.4	28.3	13.9
NE17544	UNL-Experimental	78.1	79.5	72.9	82.5	52.5	82.9	98.1	57.6	11.6	31.9	15.1
WB4595	WestBred	77.7	70.2	76.5	79.9	63.2	78.0	98.3	58.6	11.2	29.6	17.2
MS Maverick	Meridian Seeds	77.7	81.6	72.4	75.6	53.8	80.8	101.7	57.7	12.1	30.1	14.8
Steamboat	Crop Research Foundation of WY, Inc.	76.6	84.8	62.9	70.2	48.2	88.0	105.6	57.7	10.8	31.1	15.4
Whistler	PlainsGold	76.4	75.9	69.1	74.2	56.0	81.8	101.3	56.0	11.5	32.0	16.3
Kivari AX	PlainsGold	76.0	68.1	74.0	74.3	59.7	78.3	101.7	55.7	10.7	30.2	16.7
Amplify SF	PlainsGold	76.0	76.7	64.7	72.5	53.3	86.9	101.7	57.1	11.4	30.0	16.4
NE17441	UNL-Experimental	75.8	83.0	62.2	77.3	54.4	75.6	102.2	57.7	12.0	30.3	16.0
Settler CL	NuPride Genetics	75.6	79.8	64.3	73.9	57.4	76.5	101.4	58.0	11.6	29.5	14.7
NE16562	UNL-Experimental	75.2	76.1	68.9	78.1	49.5	75.1	103.2	56.1	12.0	29.4	17.1
NE19619	UNL-Experimental	74.7	80.9	68.2	73.7	52.9	76.1	96.4	56.5	12.3	33.8	14.1
WB4422	WestBred	74.1	79.3	64.1	79.9	46.1	77.3	98.1	58.0	12.1	28.6	16.0
Wesley	Husker Genetics	73.7	78.4	67.9	72.6	57.7	72.4	93.2	55.7	12.4	28.2	14.8
Crescent AX	PlainsGold	73.5	72.9	59.6	77.1	48.5	78.0	104.8	57.5	11.5	29.7	15.1
Ruth	Husker Genetics	73.5	75.8	57.5	79.6	40.5	87.5	100.0	56.5	11.9	29.8	16.9
AR Iron Eagle 33AX	ARMOR	73.2	79.7	65.2	74.5	40.9	75.5	103.1	56.4	11.4	29.7	17.4
CP7017AX	CROPLAN	72.5	73.0	61.4	66.2	61.2	74.7	98.6	57.4	11.2	27.9	16.9
AP Bigfoot	AgriPro	72.1	77.9	62.1	75.3	51.1	71.3	94.7	56.3	11.9	28.4	18.2
NW15443	UNL-Experimental	72.0	78.7	65.4	67.2	55.0	76.8	89.0	56.6	11.5	31.6	13.7
WB4510CLP	WestBred	71.9	75.7	68.1	78.0	45.7	69.5	94.1	58.4	11.7	30.9	16.1
WB4792	WestBred	71.5	74.7	61.2	76.7	48.9	75.1	92.1	56.9	11.3	29.8	16.8
WB4483	WestBred	71.4	57.7	72.0	74.1	64.7	76.7	83.3	55.3	11.9	30.3	19.9
AP 18AX	AgriPro	71.3	74.9	53.8	71.1	43.4	81.4	102.9	55.3	11.4	28.7	16.2
NE18455	UNL-Experimental	70.9	70.7	59.6	75.6	50.3	79.0	89.9	55.2	11.7	29.4	19.0
Freeman	Husker Genetics	70.8	75.1	64.6	65.6	46.3	77.3	96.0	55.3	11.9	29.5	16.1
AAC Goldrush	North Dakota Crop Improvement	70.7	70.1	66.8	70.0	58.9	72.5	85.9	57.8	12.4	32.4	16.1
AP Solid	AgriPro	70.6	74.1	56.5	68.2	51.2	75.9	97.8	57.4	12.1	27.8	16.2
WB4418	WestBred	70.2	71.7	64.1	74.3	47.5	73.3	90.5	54.6	12.0	26.7	18.4
Canvas	PlainsGold	70.1	67.9	61.1	66.9	52.1	72.7	100.0	56.4	11.7	28.7	18.6
Langin	PlainsGold	70.0	73.0	60.3	72.2	49.3	70.1	95.3	54.8	11.1	27.6	17.3
CP7266AX	CROPLAN	70.0	75.4	61.3	71.3	38.4	71.5	101.8	56.5	11.8	30.2	16.9
MS Sundown	Meridian Seeds	70.0	69.0	65.9	69.5	43.1	74.1	98.1	57.2	11.8	30.6	17.5
SY Wolverine	AgriPro	69.2	68.1	59.8	66.1	54.7	71.7	95.0	55.6	12.0	27.6	16.5

TABLE CONTINUED ON NEXT PAGE

PANHANDLE (WEST) DRYLAND WHEAT VARIETY TESTS

DEUEL, CHEYENNE, CHEYENNE(IM), KIMBALL, BANNER, & BOX BUTTE COUNTIES - 2023 (PAGE 2/2)

Variety	Brand	Average Yield (bu/a) ^[1]	Deuel Yield (bu/a)	Cheyenne Yield (bu/a)	Cheyenne IM Yield (bu/a)	Kimball Yield (bu/a)	Banner Yield (bu/a)	Box Butte Yield (bu/a)	Bushel Weight (lb/bu)	Grain Protein (%) ^[2]	Plant Height (in)	Seed Weight (1000 seeds/lb)
LCS Julep	Limagrain	69.0	80.4	61.2	62.4	42.9	73.1	93.8	57.5	12.3	29.1	14.8
NHH19668	UNL-Experimental	68.6	74.1	64.8	68.1	51.2	55.7	97.9	57.0	11.9	29.4	16.3
NHH17612	UNL-Experimental	68.4	70.2	69.2	68.0	40.0	75.2	87.8	57.2	12.3	29.9	18.3
NHH17450	UNL-Experimental	68.4	72.0	58.6	71.0	49.5	71.4	87.9	56.2	11.7	31.1	17.7
Robidoux	Husker Genetics	67.0	61.4	65.1	57.7	52.9	68.1	96.5	54.5	11.9	30.0	17.9
WB4733CLP	WestBred	66.9	62.4	65.3	62.3	50.2	77.5	83.9	55.6	12.1	27.7	18.6
Pronghorn	Husker Genetics	66.6	73.5	56.3	57.9	43.4	78.1	90.3	57.7	12.5	35.2	15.6
LCS Atomic AX	Limagrain	65.4	68.2	49.3	59.2	48.4	66.5	100.8	55.5	11.7	27.8	16.4
Fortify SF	PlainsGold	64.9	62.1	64.3	56.1	37.5	72.6	96.5	56.0	11.3	29.6	18.3
SY Legend CL2	AgriPro	64.3	64.9	63.7	67.2	41.5	58.9	89.8	56.5	12.2	28.1	16.1
Turkey	Check	63.2	69.7	57.7	59.9	41.5	70.3	80.3	56.7	13.0	38.6	15.8
CP7050AX	CROPLAN	62.7	64.4	51.0	60.0	40.6	68.7	91.3	56.3	12.7	28.0	18.1
Scout 66	Check	62.5	71.1	47.9	52.5	40.2	79.5	83.9	56.1	13.0	36.4	15.2
LCS Valiant	Limagrain	61.1	63.5	60.8	55.8	37.3	60.4	88.5	54.2	12.6	27.0	17.1
Average of all entries		70.9	72.6	63.2	70.2	49.7	75.1	94.8	56.5	11.8	30.0	16.6
Standard error		4.6	3.6	5.4	5.7	3.7	5.9	3.2	1.0	0.5	1.2	1.1
LSD_{0.10}^[3]		7.6	5.9	9.0	9.5	6.1	9.8	5.2	1.6	0.9	2.1	1.8
Coefficient of variation^[4]		6.7	4.9	8.6	8.2	7.4	7.9	3.3	1.7	4.5	4.1	6.4

[1] Yield values corrected to 12% moisture and 60 lb/bu test weight.

[2] Protein corrected to 14% moisture, the correction factor used in analytical standards.

[3] For differences between varieties that are equal to or greater than the LSD value, the chance that the difference is significant is 90%.

[4] Coefficient of Variation (CV) indicates the quality of a trial, and lower than 15 indicates a high quality trial. For CV>15, there was higher than expected variability in the field or the data and the results should be used with caution.



PANHANDLE DRYLAND AVERAGE WHEAT PERFORMANCE (1/2)

Variety	Brand	Grain Yield (bu/a)	Bushel Weight (lb/bu)	Grain Protein (%)	Plant Height (inches)	Seed Weight (1000 seeds/ lb)
Two-year (2022-2023) averages*						
LCS Steel AX	Limagrain	60.4	56.3	13.2	28.7	21.4
WB4595	WestBred	59.5	58.8	13.4	27.5	19.1
Whistler	PlainsGold	58.6	55.8	14.0	29.3	19.1
NE17544	UNL-Experimental	56.9	57.4	14.2	28.9	18.4
MS Maverick	Meridian Seeds	56.6	57.3	14.5	27.4	17.1
NE17441	UNL-Experimental	55.5	57.3	14.3	27.6	18.8
NE16562	UNL-Experimental	55.0	55.7	14.6	27.6	19.2
NE19619	UNL-Experimental	55.0	56.0	14.6	30.0	17.2
WB4483	WestBred	54.9	55.1	14.6	27.3	23.4
WB4422	WestBred	54.7	57.8	14.5	26.7	18.3
Amplify SF	PlainsGold	54.6	57.0	13.9	27.0	18.5
WB4792	WestBred	54.5	57.2	13.5	27.6	19.6
AP Solid	AgriPro	54.0	57.8	14.4	25.8	19.0
CP7017AX	CROPLAN	53.9	57.4	13.5	25.7	19.1
Settler CL	NuPride Genetics	53.8	57.2	14.1	26.9	18.0
Crescent AX	PlainsGold	53.8	57.6	13.8	27.8	16.8
AP 18AX	AgriPro	53.6	55.8	13.6	27.0	18.7
WB4510CLP	WestBred	52.8	58.1	14.0	28.1	18.8
Langin	PlainsGold	52.7	55.7	13.7	26.0	18.3
CP7266AX	CROPLAN	52.5	56.7	14.0	27.6	19.0
Ruth	Husker Genetics	52.2	56.5	14.4	27.6	19.3
NE18455	UNL-Experimental	52.1	55.2	14.1	26.9	21.4
WB4418	WestBred	51.9	54.9	14.5	25.3	21.4
AP Bigfoot	AgriPro	51.8	56.1	14.2	26.1	19.8
SY Wolverine	AgriPro	51.5	55.9	14.6	25.6	18.4
NW15443	UNL-Experimental	51.4	55.4	14.1	28.6	16.3
Robidoux	Husker Genetics	51.0	55.4	14.4	27.9	19.8
Wesley	Husker Genetics	50.9	55.6	14.7	25.6	17.1
NHH17612	UNL-Experimental	50.5	57.4	14.5	27.3	19.9
NHH17450	UNL-Experimental	50.1	56.5	14.2	28.7	19.7
Fortify SF	PlainsGold	49.8	56.5	13.6	27.3	20.7
Freeman	Husker Genetics	49.6	55.1	14.3	26.9	18.6
NHH19668	UNL-Experimental	49.4	56.0	14.5	26.4	19.1
Pronghorn	Husker Genetics	49.2	57.7	14.7	31.5	18.1
SY Legend CL2	AgriPro	46.8	56.6	14.6	26.0	18.4
LCS Atomic AX	Limagrain	46.5	55.7	14.1	25.6	17.5
Turkey	Check	46.1	56.4	15.1	34.2	18.7
CP7050AX	CROPLAN	46.0	56.8	14.8	26.6	19.2
LCS Valiant	Limagrain	45.0	55.2	14.7	25.6	19.2
Scout 66	Check	44.4	56.5	15.0	32.8	17.4
Average of all entries		52.2	56.5	14.2	27.6	18.9
Standard error		2.4	0.5	0.3	0.6	0.7
LSD_{0.10}		4.0	0.8	0.5	1.0	1.1
Coefficient of variation		4.7	0.9	2.0	2.3	3.6

PANHANDLE DRYLAND AVERAGE WHEAT PERFORMANCE (2/2)

Variety	Brand	Grain Yield (bu/a)	Bushel Weight (lb/bu)	Grain Protein (%)	Plant Height (inches)	Seed Weight (1000 seeds/lb)
Three-year (2021-2023) averages*						
Whistler	PlainsGold	65.4	56.9	13.1	31.2	18.3
WB4595	WestBred	63.4	59.9	12.9	29.4	18.5
MS Maverick	Meridian Seeds	62.2	58.4	13.6	29.6	17.0
NE17441	UNL-Experimental	61.9	57.8	13.5	29.5	18.2
AP 18AX	AgriPro	61.4	57.0	12.9	29.6	17.7
WB4792	WestBred	61.2	58.4	12.8	30.0	18.8
Crescent AX	PlainsGold	60.7	58.5	13.0	30.0	16.6
NE17544	UNL-Experimental	60.6	58.0	13.6	31.7	17.7
CP7017AX	CROPLAN	60.2	58.0	12.9	28.0	18.9
AP Solid	AgriPro	60.1	59.0	13.8	28.0	18.2
NE16562	UNL-Experimental	59.9	56.2	13.8	30.2	18.5
SY Wolverine	AgriPro	59.5	57.3	13.7	27.7	18.0
AP Bigfoot	AgriPro	59.5	57.3	13.5	28.7	19.6
Ruth	Husker Genetics	59.2	57.7	13.7	30.0	18.3
WB4418	WestBred	59.0	56.2	13.7	28.1	20.5
Settler CL	NuPride Genetics	58.6	57.9	13.4	29.3	17.3
Fortify SF	PlainsGold	57.5	57.7	13.0	29.7	20.1
WB4483	WestBred	56.9	56.5	13.8	29.3	22.3
Robidoux	Husker Genetics	56.7	56.6	13.7	29.9	19.0
Wesley	Husker Genetics	56.6	56.7	14.0	28.0	16.8
LCS Atomic AX	Limagrain	56.3	57.0	13.2	28.0	17.0
NHH17450	UNL-Experimental	55.7	57.5	13.6	31.0	19.1
NHH17612	UNL-Experimental	55.6	58.3	13.9	29.5	19.5
Freeman	Husker Genetics	55.5	55.8	13.6	29.2	18.0
SY Legend CL2	AgriPro	54.2	57.6	13.9	28.0	17.8
CP7050AX	CROPLAN	53.9	58.2	14.0	29.5	18.6
Pronghorn	Husker Genetics	53.5	58.7	14.0	34.4	17.6
LCS Valiant	Limagrain	52.6	56.6	13.9	28.3	18.7
Turkey	Check	48.6	57.4	14.4	36.9	18.5
Scout 66	Check	48.2	57.6	14.3	35.8	17.0
Average of all entries		57.8	57.6	13.6	30.0	18.4
Standard error		2.1	0.4	0.2	0.5	0.5
LSD_{0.10}		3.4	0.6	0.3	0.9	0.9
Coefficient of variation		3.5	0.7	1.5	1.8	2.9

* 2023 Deuel, Cheyenne, CheyenneIM, Kimball, Banner, Box Butte

* 2022 Cheyenne, CheyenneIM, Kimball, Banner

* 2021 Deuel, Cheyenne, CheyenneIM, Kimball, Banner, Box Butte

WEST IRRIGATED WHEAT VARIETY TESTS

BOX BUTTE AND PERKINS COUNTIES - 2023

Variety	Brand	Average Yield (bu/a) ^[1]	Box Butte Yield (bu/a)	Perkins Yield (bu/a)	Bushel Weight (lb/bu)	Grain Protein (%) ^[2]	Plant Height (inches)	Seed Weight (1000 seeds/lb)
LCS Steel AX	Limagrain	98.1	104.4	91.8	56.4	11.9	33.9	14.4
AR Turret 25	ARMOR	95.3	100.2	90.4	54.9	12.5	31.7	12.4
CP7017AX	CROPLAN	88.3	100.1	76.5	55.7	12.3	29.8	14.4
NE18435	UNL-Experimental	88.1	95.3	80.8	55.8	12.2	31.4	14.0
Wesley	Husker Genetics	88.0	93.3	82.7	54.6	13.5	31.4	13.3
WB4422	WestBred	87.9	82.4	93.4	56.5	13.4	32.0	13.8
WB4699	WestBred	86.3	97.0	75.5	53.5	11.9	31.9	17.1
WB4595	WestBred	83.9	88.8	78.9	56.6	11.9	32.5	15.1
NHH17612	UNL-Experimental	83.2	79.5	86.9	56.1	13.2	33.4	15.0
Canvas	PlainsGold	83.1	88.7	77.4	55.5	12.5	31.6	15.4
NE19454	UNL-Experimental	82.3	88.1	76.4	55.6	13.1	32.4	14.7
LCS Julep	Limagrain	82.2	82.0	82.3	54.9	13.4	31.4	13.5
WB4523	WestBred	82.1	92.0	72.1	52.5	11.7	28.6	16.3
AR Iron Eagle 33AX	ARMOR	81.7	86.9	76.4	53.6	12.8	33.9	15.9
NE19590	UNL-Experimental	80.6	82.6	78.6	54.7	12.9	35.0	14.7
NE17441	UNL-Experimental	80.3	82.8	77.8	55.6	13.3	34.2	13.8
WB4418	WestBred	79.9	88.3	71.5	52.4	12.6	30.1	16.9
WB4303	WestBred	79.1	86.7	71.5	52.1	12.5	28.6	12.9
Crescent AX	PlainsGold	78.6	91.9	65.3	54.1	12.7	32.8	13.3
LCS Atomic AX	Limagrain	78.1	80.6	75.6	55.3	13.0	30.5	13.4
NI17410	UNL-Experimental	77.7	80.1	75.3	54.6	13.3	33.2	14.2
Epoch	NuHorizon Genetics	77.3	82.4	72.1	54.5	12.7	30.7	15.0
SY Wolverine	AgriPro	76.7	90.8	62.5	52.4	13.1	29.3	14.4
CP7266AX	CROPLAN	76.1	80.0	72.2	54.8	12.7	32.6	15.0
NHH17450	UNL-Experimental	74.9	72.1	77.7	54.7	13.5	35.3	14.5
AP Roadrunner	AgriPro	74.4	74.4	.	53.6	13.3	36.2	16.1
LCS Valiant	Limagrain	72.4	84.3	60.5	52.4	13.2	30.5	15.7
CP7050AX	CROPLAN	71.7	76.8	66.5	54.3	14.0	31.9	15.4
Scout 66	Check	70.9	71.7	70.1	56.1	14.3	44.1	12.8
Turkey	Check	70.3	68.5	72.1	55.5	14.8	43.9	14.4
Average of all entries		81.0	85.8	76.2	54.7	12.9	32.7	14.5
Standard error		4.9	3.7	6.0	1.1	0.5	1.7	0.9
LSD_{0.10} [3]		8.1	6.1	10.0	1.9	0.8	2.9	1.6
Coefficient of variation [4]		6.1	4.3	7.9	2.1	3.7	5.3	6.1

[1] Yield values corrected to 12% moisture and 60 lb/bu test weight.

[2] Protein corrected to 14% moisture, the correction factor used in analytical standards.

[3] For differences between varieties that are equal to or greater than the LSD value, the chance that the difference is significant is 90%.

[4] Coefficient of Variation (CV) indicates the quality of a trial, and lower than 15 indicates a high quality trial. For CV>15, there was higher than expected variability in the field or the data and the results should be used with caution.

WEST IRRIGATED AVERAGE WHEAT PERFORMANCE

Variety	Brand	Grain Yield (bu/a)	Bushel Weight (lb/bu)	Plant Height (inches)	Grain Protein (%)	Seed Weight (1000 seeds/lb)
Two-year (2021 & 2023) averages*						
CP7017AX	CROPLAN	98.4	58.8	12.1	29.8	15.2
WB4595	WestBred	96.5	59.7	11.7	32.5	15.3
Wesley	Husker Genetics	95.6	57.9	13.3	31.4	13.8
NE17441	UNL-Experimental	94.3	58.4	13.0	34.2	14.3
NHH17612	UNL-Experimental	93.7	59.1	12.9	33.4	15.7
Canvas	PlainsGold	93.3	58.8	12.3	31.6	16.0
WB4303	WestBred	92.9	55.7	12.3	28.6	13.6
SY Wolverine	AgriPro	91.7	56.6	12.7	29.3	14.5
WB4418	WestBred	90.9	56.1	12.5	30.1	17.0
Epoch	NuHorizon Genetics	89.3	57.6	12.6	30.7	15.4
LCS Valiant	Limagrain	89.0	56.8	12.8	30.5	15.4
WB4523	WestBred	88.8	53.7	11.8	28.0	17.0
NHH17450	UNL-Experimental	87.5	58.0	13.1	35.3	14.9
CP7050AX	CROPLAN	84.7	58.0	13.9	31.9	15.6
Scout 66	Check	79.5	58.7	14.0	44.1	13.5
Turkey	Check	77.9	58.4	14.7	43.9	15.1
Average of all entries		90.3	57.6	12.9	32.8	15.2
Standard error		4.3	0.7	0.2	0.9	0.4
LSD_{0.10}		7.2	1.2	0.3	1.5	0.7
Coefficient of variation		3.5	0.7	1.5	1.8	2.9

* 2023 Box Butte

* 2021 Box Butte



2023 WHEAT GRAIN YIELD* AT ALL LOCATIONS TESTED (1/2)

Variety	Brand													
		Saunders	SaundersIM	Red Willow	Perkins	Keith	Deuel	Cheyenne	CheyenneIM	Kimball	Banner	Box Butte RF	Box Butte IRR	Perkins IRR
AAC Goldrush	North Dakota Crop Improvement	.	.	.	.	.	70	67	70	59	73	86	.	.
Amplify SF	PlainsGold	.	.	.	.	.	77	65	73	53	87	102	.	.
AP 18AX	AgriPro	.	.	62	72	77	75	54	71	43	81	103	.	.
AP Bigfoot	AgriPro	.	.	75	72	88	78	62	75	51	71	95	.	.
AP Prolific	AgriPro	21	27	.	.	.	.	.	.	.	.	.	.	.
AP Roadrunner	AgriPro	.	.	.	69	.	.	.	.	.	.	.	74	.
AP Solid	AgriPro	.	.	.	.	.	74	57	68	51	76	98	.	.
AR Iron Eagle 33AX	ARMOR	.	.	77	72	88	80	65	75	41	76	103	87	76
AR Turret 25	ARMOR	.	.	75	79	94	76	70	81	64	80	97	100	90
Canvas	PlainsGold	.	.	70	75	83	68	61	67	52	73	100	89	77
CP7017AX	CROPLAN	.	.	63	69	80	73	61	66	61	75	99	100	77
CP7050AX	CROPLAN	.	.	64	63	65	64	51	60	41	69	91	77	67
CP7266AX	CROPLAN	.	.	71	78	80	75	61	71	38	72	102	80	72
Crescent AX	PlainsGold	.	.	.	.	.	73	60	77	49	78	105	92	65
Epoch	NuHorizon Genetics	.	.	.	.	.	.	.	.	.	.	.	82	72
Fortify SF	PlainsGold	.	.	.	.	.	62	64	56	38	73	97	.	.
Freeman	Husker Genetics	26	28	72	67	74	75	65	66	46	77	96	.	.
High Country	Polansky Seed, Inc.	.	.	67	71	91	.	.	.	.	.	.	.	.
Kivari AX	PlainsGold	.	.	.	.	.	68	74	74	60	78	102	.	.
KS Territory	Kansas Wheat Alliance	.	.	74	68	81	.	.	.	.	.	.	.	.
Langin	PlainsGold	.	.	.	.	.	73	60	72	49	70	95	.	.
LCS Atomic AX	Limagrain	16	27	59	65	74	68	49	59	48	67	101	81	76
LCS Julep	Limagrain	25	30	64	64	79	80	61	62	43	73	94	82	82
LCS Steel AX	Limagrain	32	43	77	79	83	80	73	86	57	91	91	104	92
LCS Valiant	Limagrain	19	30	66	58	85	64	61	56	37	60	89	84	61
MS Maverick	Meridian Seeds	.	.	72	68	88	82	72	76	54	81	102	.	.
MS Sundown	Meridian Seeds	.	.	70	67	86	69	66	70	43	74	98	.	.
NE16562	UNL-Experimental	27	31	73	68	84	76	69	78	50	75	103	.	.
NE17441	UNL-Experimental	22	25	74	64	82	83	62	77	54	76	102	83	78
NE17443	UNL-Experimental	27	32	72	61	77	.	.	.	.	.	.	.	.
NE17544	UNL-Experimental	.	.	.	.	.	80	73	83	53	83	98	.	.
NE18435	UNL-Experimental	.	.	.	.	.	.	.	.	.	.	.	95	81
NE18455	UNL-Experimental	24	27	71	63	89	71	60	76	50	79	90	.	.
NE19454	UNL-Experimental	.	.	.	.	.	.	.	.	.	.	.	88	76
NE19590	UNL-Experimental	.	.	70	69	71	.	.	.	.	.	.	83	79
NE19619	UNL-Experimental	.	.	75	70	90	81	68	74	53	76	96	.	.
NHH17450	UNL-Experimental	.	.	69	64	81	72	59	71	50	71	88	72	78

TABLE CONTINUED ON NEXT PAGE

2023 WHEAT GRAIN YIELD* AT ALL LOCATIONS TESTED (2/2)

Variety	Brand														
		Saunders	SaundersIM	Red Willow	Perkins	Keith	Deuel	Cheyenne	CheyenneIM	Kimball	Banner	Box Butte RF	Box Butte IRR	Perkins IRR	
NHH17612	UNL-Experimental	.	.	74	67	81	70	69	68	40	75	88	80	87	
NHH19668	UNL-Experimental	.	.	82	63	81	74	65	68	51	56	98	.	.	
NI17410	UNL-Experimental	.	.	.	.	.	.	.	.	.	.	.	80	75
NW15443	UNL-Experimental	.	.	73	69	83	79	65	67	55	77	89	.	.	
Pronghorn	Husker Genetics	.	.	.	.	.	74	56	58	43	78	90	.	.
Robidoux	Husker Genetics	.	.	65	65	63	61	65	58	53	68	97	.	.	
Rockstar	Polansky Seed, Inc.	.	.	75	67	80	.	.	.	.	.	.	.	.
Ruth	Husker Genetics	25	40	68	73	89	76	58	80	41	88	100	.	.	
Scout 66	Check	25	33	60	59	61	71	48	53	40	80	84	72	70	
Settler CL	NuPride Genetics	.	.	.	.	.	80	64	74	57	77	101	.	.
Siege	NuPride Genetics	13	28	.	.	.	.	.	.	.	.	.	.	.
Steamboat	Crop Research Foundation of Wyoming, Inc.	.	.	.	.	.	85	63	70	48	88	106	.	.
SY Legend CL2	AgriPro	.	.	70	70	71	65	64	67	42	59	90	.	.	
SY Wolverine	AgriPro	.	.	71	66	74	68	60	66	55	72	95	91	63	
Turkey	Check	29	32	65	56	61	70	58	60	42	70	80	69	72	
WB4303	WestBred	.	.	.	.	.	.	.	.	.	.	.	87	72
WB4401	WestBred	20	25	.	.	.	.	.	.	.	.	.	.	.
WB4418	WestBred	.	.	65	65	85	72	64	74	48	73	91	88	72	
WB4422	WestBred	31	35	73	64	93	79	64	80	46	77	98	82	93	
WB4483	WestBred	.	.	.	.	.	58	72	74	65	77	83	.	.
WB4510CLP	WestBred	.	.	70	74	72	76	68	78	46	70	94	.	.	
WB4523	WestBred	.	.	.	.	.	.	.	.	.	.	.	92	72
WB4595	WestBred	21	22	74	66	77	70	77	80	63	78	98	89	79	
WB4632	WestBred	26	35	.	.	.	.	.	.	.	.	.	.	.
WB4699	WestBred	21	26	.	.	.	.	.	.	.	.	.	97	76
WB4733CLP	WestBred	.	.	.	.	.	62	65	62	50	78	84	.	.
WB4792	WestBred	.	.	.	.	.	75	61	77	49	75	92	.	.
Wesley	Husker Genetics	.	.	68	60	80	78	68	73	58	72	93	93	83	
Whistler	PlainsGold	26	34	.	.	.	76	69	74	56	82	101	.	.	
Average of all entries		24	30	70	67	80	73	64	70	50	75	95	86	76	

*Yield values are calculated in bushels/acre and corrected to 12% moisture.

2023 WHEAT GRAIN PROTEIN* AT ALL LOCATIONS TESTED (1/2)

Variety	Brand													
		Saunders	SaundersIM	Red Willow	Perkins	Keith	Deuel	Cheyenne	CheyenneIM	Kimball	Banner	Box Butte RF	Box Butte IRR	Perkins IRR
AAC Goldrush	North Dakota Crop Improvement	.	.	.	.	.	12.0	13.7	12.9	12.0	11.3	12.5	.	.
Amplify SF	PlainsGold	.	.	.	.	.	11.4	12.3	10.7	11.9	10.4	11.8	.	.
AP 18AX	AgriPro	.	.	11.6	10.7	9.7	10.9	13.0	11.9	11.7	9.9	10.8	.	.
AP Bigfoot	AgriPro	.	.	11.0	12.5	10.5	11.0	13.3	12.4	12.1	11.5	11.3	.	.
AP Prolific	AgriPro	15.7	16.3	.	.	.	.	.	.	.	.	.	.	.
AP Roadrunner	AgriPro	.	.	.	11.7	.	.	.	.	.	.	.	13.3	.
AP Solid	AgriPro	.	.	.	.	.	12.1	13.2	12.4	12.1	11.3	11.7	.	.
AR Iron Eagle 33AX	ARMOR	.	.	10.4	11.1	10.0	11.0	12.5	11.4	11.5	11.1	10.8	13.3	12.3
AR Turret 25	ARMOR	.	.	10.4	11.0	9.8	11.1	12.4	11.7	11.2	10.0	12.1	12.7	12.3
Canvas	PlainsGold	.	.	10.7	11.3	9.7	11.3	12.7	12.3	11.8	11.1	10.8	12.5	12.4
CP7017AX	CROPLAN	.	.	10.4	10.1	10.4	10.9	11.6	12.2	10.8	10.5	10.9	13.1	11.4
CP7050AX	CROPLAN	.	.	11.3	13.1	10.8	11.4	14.0	13.5	13.2	11.9	12.2	14.5	13.4
CP7266AX	CROPLAN	.	.	10.3	11.5	9.6	11.3	12.8	11.9	12.5	11.3	10.9	13.2	12.2
Crescent AX	PlainsGold	.	.	.	.	.	10.9	12.8	12.2	11.6	11.0	10.3	12.7	12.7
Epoch	NuHorizon Genetics	.	.	.	.	.	.	.	.	.	.	.	13.3	12.0
Fortify SF	PlainsGold	.	.	.	.	.	10.5	11.1	11.5	12.7	10.6	11.1	.	.
Freeman	Husker Genetics	15.6	15.8	10.5	11.2	9.6	11.4	12.6	12.5	12.2	11.1	11.7	.	.
High Country	Polansky Seed, Inc.	.	.	11.0	11.2	10.0	.	.	.	.	.	.	.	.
Kivari AX	PlainsGold	.	.	.	.	.	10.8	10.7	10.8	11.0	10.0	11.0	.	.
KS Territory	Kansas Wheat Alliance	.	.	10.9	11.5	9.7	.	.	.	.	.	.	.	.
Langin	PlainsGold	.	.	.	.	.	10.2	12.0	11.8	11.4	10.2	11.0	.	.
LCS Atomic AX	Limagrain	14.6	14.9	10.6	11.9	9.6	11.0	13.1	12.8	11.6	11.0	10.8	13.4	12.6
LCS Julep	Limagrain	16.2	16.4	11.2	11.9	9.7	11.6	13.6	12.8	12.9	11.4	11.6	13.5	13.2
LCS Steel AX	Limagrain	14.5	14.6	9.7	10.5	8.3	10.0	11.6	9.9	11.4	9.8	11.1	11.9	11.9
LCS Valiant	Limagrain	14.6	15.7	10.9	11.5	10.0	11.9	13.7	13.8	12.8	11.5	11.7	13.6	12.7
MS Maverick	Meridian Seeds	.	.	11.4	11.5	9.9	11.8	13.1	12.8	11.6	11.2	12.1	.	.
MS Sundown	Meridian Seeds	.	.	10.0	10.5	10.0	12.3	12.6	11.8	12.4	10.4	11.0	.	.
NE16562	UNL-Experimental	14.4	15.4	10.5	11.7	10.2	11.7	13.4	12.2	11.7	11.6	11.6	.	.
NE17441	UNL-Experimental	16.2	16.3	11.0	12.2	10.1	11.1	13.5	12.7	11.6	11.3	11.7	13.8	12.8
NE17443	UNL-Experimental	16.1	16.2	11.0	11.6	10.1	.	.	.	.	.	.	.	.
NE17544	UNL-Experimental	.	.	.	.	.	11.3	12.5	12.5	11.7	10.4	11.1	.	.
NE18435	UNL-Experimental	.	.	.	.	.	.	.	.	.	.	.	12.5	11.9
NE18455	UNL-Experimental	15.1	15.4	10.4	11.6	9.8	11.5	12.7	11.5	12.0	11.4	11.3	.	.
NE19454	UNL-Experimental	.	.	.	.	.	.	.	.	.	.	.	13.0	13.1
NE19590	UNL-Experimental	.	.	10.9	10.8	10.2	.	.	.	.	.	.	13.2	12.6
NE19619	UNL-Experimental	.	.	11.3	12.0	9.6	11.4	13.4	13.2	12.4	10.8	12.5	.	.
NHH17450	UNL-Experimental	.	.	10.4	11.5	10.6	11.5	12.4	12.7	11.9	10.4	11.4	13.9	13.1

TABLE CONTINUED ON NEXT PAGE

2023 WHEAT GRAIN PROTEIN* AT ALL LOCATIONS TESTED (2/2)

Variety	Brand	Saunders			Red Willow			Cheyenne			Box Butte RF			Box Butte IRR	
		SaundersIM	Perkins	Keith	Deuel	Cheyenne	CheyenneIM	Kimball	Banner	Box Butte IRR	Perkins IRR				
NHH17612	UNL-Experimental	. .	10.7	11.3	10.9	11.7	12.9	12.9	12.8	11.0	12.3	13.1	13.2		
NHH19668	UNL-Experimental	. .	10.1	11.3	10.0	11.0	12.9	12.0	12.4	10.8	12.4		
NI17410	UNL-Experimental	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	13.9	12.7
NW15443	UNL-Experimental	. .	10.3	11.3	9.9	11.1	13.0	12.3	11.3	10.7	10.8		
Pronghorn	Husker Genetics	. .	. .	. .	. .	11.8	13.6	12.6	12.5	11.6	13.0		
Robidoux	Husker Genetics	. .	10.8	11.2	9.7	12.2	12.2	12.2	11.8	10.2	12.6		
Rockstar	Polansky Seed, Inc.	. .	11.1	11.9	11.1	. .	. .	. .	. .	. .	. .	. .	. .
Ruth	Husker Genetics	15.5	16.2	10.5	10.8	10.0	11.5	13.0	11.1	12.7	11.1	11.7	. .		
Scout 66	Check	16.1	16.4	11.8	12.3	10.8	12.5	14.3	13.3	13.2	11.2	13.2	14.4	14.2	
Settler CL	NuPride Genetics	. .	. .	. .	. .	10.7	12.9	11.8	11.9	10.4	11.8		
Siege	NuPride Genetics	15.2	15.4	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Steamboat	Crop Research Foundation of Wyoming, Inc.	. .	. .	. .	. .	10.4	11.7	10.5	11.3	10.6	10.4		
SY Legend CL2	AgriPro	. .	. .	11.3	11.5	10.1	11.4	12.7	12.3	12.7	12.1	11.7	. .
SY Wolverine	AgriPro	10.6	11.8	9.8	11.8	13.9	12.5	11.3	11.3	11.1	13.4	12.7	
Turkey	Check	16.7	17.0	11.1	12.7	10.7	12.0	13.8	13.4	13.3	12.0	13.2	15.1	14.5	
WB4303	WestBred	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	12.5	12.4
WB4401	WestBred	14.0	14.3	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
WB4418	WestBred	10.9	11.6	10.2	11.5	12.2	12.4	12.2	11.4	12.0	12.9	12.3	
WB4422	WestBred	15.7	16.2	10.4	11.4	10.1	11.3	13.3	12.6	12.8	10.8	11.8	13.8	13.0	
WB4483	WestBred	. .	. .	. .	. .	12.8	12.4	11.1	11.4	10.7	12.8		
WB4510CLP	WestBred	. .	. .	10.3	10.8	10.4	12.6	12.1	11.1	11.6	11.2	11.6	. .
WB4523	WestBred	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	11.6	11.7
WB4595	WestBred	13.5	13.4	10.7	10.8	10.2	11.4	11.5	11.9	10.8	10.5	10.9	12.1	11.6	
WB4632	WestBred	14.1	14.4	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
WB4699	WestBred	14.0	14.1	. .	. .	. .	. .	. .	. .	. .	. .	11.7	12.0
WB4733CLP	WestBred	. .	. .	. .	. .	. .	12.3	12.8	12.4	12.0	10.8	12.3	. .
WB4792	WestBred	. .	. .	. .	. .	. .	10.3	12.6	11.8	11.3	10.7	11.1	. .
Wesley	Husker Genetics	10.5	12.1	10.9	11.8	13.7	13.1	12.5	11.6	11.8	13.7	13.2	
Whistler	PlainsGold	16.0	16.2	. .	. .	. .	11.3	12.9	11.6	11.3	10.9	11.2	. .

Average of all entries **15.2 15.5 10.7 11.5 10.1 11.4 12.8 12.2 12.0 10.9 11.6 13.2 12.6**

*Protein corrected to 14% moisture, the correction factor used in analytical standards.

2023 WHEAT BUSHEL WEIGHT AT ALL LOCATIONS TESTED (1/2)

Variety	Brand	Red Willow			Perkins							
		Perkins	Keith	Deuel	Cheyenne	CheyenneIM	Kimball	Banner	Box Butte RF	Box Butte IRR	Perkins IRR	
AAC Goldrush	North Dakota Crop Improvement	.	.	.	56.8	58.6	57.8	57.3	59.3	56.9	.	.
Amplify SF	PlainsGold	.	.	.	55.5	57.6	57.9	56.5	58.1	57.2	.	.
AP 18AX	AgriPro	54.7	57.2	56.0	54.3	55.3	55.2	54.0	56.1	56.7	.	.
AP Bigfoot	AgriPro	59.3	58.5	58.5	55.0	57.1	57.5	54.8	55.1	58.1	.	.
AP Prolific	AgriPro	.	.	.	.	.	.	.	.	.	.	.
AP Roadrunner	AgriPro	.	58.4	.	.	.	.	.	.	.	53.6	.
AP Solid	AgriPro	.	.	.	55.4	59.0	59.2	54.5	57.6	58.8	.	.
AR Iron Eagle 33AX	ARMOR	57.3	58.3	58.5	57.4	56.4	56.4	54.3	56.1	58.0	53.1	54.1
AR Turret 25	ARMOR	57.0	58.2	57.7	55.1	58.4	57.7	55.7	56.9	55.9	54.1	55.7
Canvas	PlainsGold	57.9	58.3	58.3	54.7	57.5	53.9	57.3	57.2	57.8	56.0	55.0
CP7017AX	CROPLAN	58.7	59.0	57.9	55.2	58.9	57.5	57.4	56.7	58.6	56.5	54.8
CP7050AX	CROPLAN	59.9	59.5	58.5	53.7	57.1	56.6	53.0	57.9	59.6	53.9	54.7
CP7266AX	CROPLAN	57.5	58.4	57.8	56.4	57.1	55.9	54.1	57.3	57.9	53.7	55.9
Crescent AX	PlainsGold	.	.	.	55.8	58.0	58.0	56.8	58.3	57.9	55.3	52.8
Epoch	NuHorizon Genetics	.	.	.	.	.	.	.	.	.	54.2	54.8
Fortify SF	PlainsGold	.	.	.	55.1	56.2	55.1	52.7	57.7	59.2	.	.
Freeman	Husker Genetics	57.3	57.0	56.8	53.8	54.9	55.4	55.5	56.4	55.5	.	.
High Country	Polansky Seed, Inc.	58.9	58.8	58.6	.	.	.	.	.	.	.	.
Kivari AX	PlainsGold	.	.	.	53.2	56.9	55.8	55.6	56.3	56.4	.	.
KS Territory	Kansas Wheat Alliance	58.5	58.3	59.1	.	.	.	.	.	.	.	.
Langin	PlainsGold	.	.	.	53.7	54.6	56.1	53.3	55.3	56.0	.	.
LCS Atomic AX	Limagrain	57.7	57.9	56.8	53.9	55.5	56.4	54.5	55.8	57.0	54.7	55.8
LCS Julep	Limagrain	58.0	59.6	58.9	58.0	57.9	57.0	53.7	58.7	59.8	54.0	55.8
LCS Steel AX	Limagrain	55.4	58.0	54.1	56.2	57.1	57.1	56.9	57.0	56.1	56.1	56.7
LCS Valiant	Limagrain	56.4	58.3	57.2	51.7	55.3	55.3	52.4	54.7	55.7	52.6	52.2
MS Maverick	Meridian Seeds	58.0	59.3	59.7	57.2	58.8	58.8	55.9	58.2	57.2	.	.
MS Sundown	Meridian Seeds	58.4	59.2	58.9	55.9	58.3	57.8	54.8	57.7	58.7	.	.
NE16562	UNL-Experimental	57.0	57.9	59.0	55.2	56.8	56.3	55.0	56.1	57.3	.	.
NE17441	UNL-Experimental	58.8	58.7	59.5	58.7	58.0	58.8	56.6	56.7	57.1	54.0	57.1
NE17443	UNL-Experimental	57.8	58.6	57.2	.	.	.	.	.	.	.	.
NE17544	UNL-Experimental	.	.	.	57.4	58.2	58.8	55.9	57.3	58.1	.	.
NE18435	UNL-Experimental	.	.	.	.	.	.	.	.	.	55.8	55.8
NE18455	UNL-Experimental	57.2	58.0	57.3	54.1	56.3	54.8	54.9	55.5	55.4	.	.
NE19454	UNL-Experimental	.	.	.	.	.	.	.	.	.	55.9	55.3
NE19590	UNL-Experimental	57.0	58.2	58.8	.	.	.	.	.	.	53.5	55.8
NE19619	UNL-Experimental	56.5	57.5	58.4	56.7	56.5	57.1	55.9	56.5	56.2	.	.
NHH17450	UNL-Experimental	58.6	57.9	57.5	55.9	57.5	57.6	54.6	55.1	56.5	53.1	56.2

TABLE CONTINUED ON NEXT PAGE

2023 WHEAT BUSHEL WEIGHT AT ALL LOCATIONS TESTED (2/2)

Variety	Brand	Red Willow			Cheyenne			Kimball			Box Butte IRR	
		Perkins	Keith	Deuel	Cheyenne	CheyenneIM	Banner	Box Butte RF	Box Butte IRR	Perkins IRR		
NHH17612	UNL-Experimental	59.3	58.8	59.3	56.7	58.6	57.2	55.3	57.3	58.3	55.6	56.5
NHH19668	UNL-Experimental	58.2	58.5	58.7	56.0	57.8	57.5	56.7	55.2	58.5	.	.
NI17410	UNL-Experimental	.	.	.	.	.	.	.	.	.	53.6	55.6
NW15443	UNL-Experimental	56.3	57.4	58.3	57.0	56.5	56.5	55.3	57.2	57.2	.	.
Pronghorn	Husker Genetics	.	.	.	57.2	58.9	58.4	55.1	56.9	59.5	.	.
Robidoux	Husker Genetics	56.8	57.8	52.4	51.0	55.4	54.8	55.5	55.0	55.5	.	.
Rockstar	Polansky Seed, Inc.	57.4	58.2	58.5	.	.	.	.	.	.	.	.
Ruth	Husker Genetics	56.8	58.3	58.1	56.3	56.6	56.8	53.8	57.6	57.7	.	.
Scout 66	Check	58.6	58.7	59.0	57.7	55.6	56.8	53.3	55.7	57.4	54.6	57.5
Settler CL	NuPride Genetics	.	.	.	57.9	58.5	57.7	56.8	58.5	58.5	.	.
Siege	NuPride Genetics	.	.	.	.	.	.	.	.	.	.	.
Steamboat	Crop Research Foundation of Wyoming, Inc.	.	.	.	57.7	57.0	57.8	56.6	58.2	58.9	.	.
SY Legend CL2	AgriPro	57.9	59.5	58.9	55.4	57.2	56.6	55.9	57.5	56.6	.	.
SY Wolverine	AgriPro	58.4	58.3	57.1	53.1	56.5	55.9	54.9	55.0	58.4	53.6	51.1
Turkey	Check	58.8	58.9	58.7	57.7	57.1	56.7	55.0	56.2	57.4	54.2	56.8
WB4303	WestBred	.	.	.	.	.	.	.	.	.	52.9	51.2
WB4401	WestBred	.	.	.	.	.	.	.	.	.	.	.
WB4418	WestBred	56.9	57.4	57.8	54.1	56.1	54.5	53.0	55.1	54.6	51.8	53.0
WB4422	WestBred	58.8	59.6	59.3	56.6	58.7	58.7	57.5	58.3	58.3	54.6	58.3
WB4483	WestBred	.	.	.	50.6	55.4	56.5	58.6	56.8	54.0	.	.
WB4510CLP	WestBred	59.3	60.9	58.0	57.3	59.5	58.7	56.2	59.4	59.4	.	.
WB4523	WestBred	.	.	.	.	.	.	.	.	.	54.4	50.6
WB4595	WestBred	59.6	60.6	60.3	57.5	59.3	59.7	57.9	58.2	59.1	56.1	57.1
WB4632	WestBred	.	.	.	.	.	.	.	.	.	.	.
WB4699	WestBred	.	.	.	.	.	.	.	.	.	53.8	53.2
WB4733CLP	WestBred	.	.	.	55.0	56.5	53.0	54.8	57.4	56.6	.	.
WB4792	WestBred	.	.	.	57.1	57.9	56.0	55.2	58.8	56.5	.	.
Wesley	Husker Genetics	57.8	58.0	56.5	54.2	57.0	56.9	54.6	55.9	55.5	53.0	56.1
Whistler	PlainsGold	.	.	.	54.2	57.4	56.0	56.8	56.4	55.2	.	.
Average of all entries		57.8	58.5	58.0	55.6	57.2	56.8	55.4	56.9	57.3	54.3	55.0

CHEYENNE COUNTY SAWFLY RATINGS WINTER WHEAT VARIETY TRIAL - 2023

Variety	Brand	2023 Sawfly Rating ^[1] (1=no damage, 9=plot killed)	Two-year Sawfly Rating 2022- 2023	Three-year Sawfly Rating 2021-2023
Wesley	Husker Genetics	3.9	4.0	4.0
WB4733CLP	WestBred	4.3	.	.
AP Solid	AgriPro	4.4	4.7	4.4
LCS Steel AX	Limagrain	4.5	5.3	.
CP7050AX	CROPLAN	4.6	4.8	4.9
CP7266AX	CROPLAN	4.6	5.2	.
WB4418	WestBred	4.6	5.2	4.9
Fortify SF	PlainsGold	4.7	4.8	4.6
NE16562	UNL-Experimental	4.7	5.1	.
SY Wolverine	AgriPro	4.7	5.2	5.3
LCS Julep	Limagrain	4.7	.	.
AP 18AX	AgriPro	4.8	5.5	5.4
Amplify SF	PlainsGold	4.8	4.9	.
Kivari AX	PlainsGold	5.1	.	.
AR Iron Eagle 33AX	ARMOR	5.2	.	.
LCS Atomic AX	Limagrain	5.2	5.0	5.1
SY Legend CL2	AgriPro	5.3	5.3	5.0
NHH17612	UNL-Experimental	5.3	5.7	5.7
WB4483	WestBred	5.3	5.5	5.2
NE17544	UNL-Experimental	5.4	5.6	5.5
WB4792	WestBred	5.5	5.5	5.2
AP Bigfoot	AgriPro	5.5	6.1	5.9
Steamboat	Crop Research Foundation of WY, Inc.	5.6	.	.
WB4422	WestBred	5.6	5.4	.
NE17441	UNL-Experimental	5.7	5.9	5.8
Settler CL	NuPride Genetics	5.7	5.8	5.6
Langin	PlainsGold	5.7	5.9	.
Ruth	Husker Genetics	5.8	5.9	5.5
AAC Goldrush	North Dakota Crop Improvement	5.8	.	.
LCS Valiant	Limagrain	5.8	6.0	6.0
NE19619	UNL-Experimental	5.8	6.1	.
NW15443	UNL-Experimental	5.8	5.9	.
Freeman	Husker Genetics	5.9	5.4	5.0
NE18455	UNL-Experimental	6.1	.	.
MS Sundown	Meridian Seeds	6.1	.	.
WB4510CLP	WestBred	6.1	6.6	.

TABLE CONTINUED ON NEXT PAGE

CHEYENNE COUNTY SAWFLY RATINGS WINTER WHEAT VARIETY TRIAL - 2023 (continued)

Variety	Brand	2023 Sawfly Rating ^[1] (1=no damage, 9=plot killed)	Two-year Sawfly Rating 2022- 2023	Three-year Sawfly Rating 2021-2023
Canvas	PlainsGold	6.2	.	.
CP7017AX	CROPLAN	6.2	6.0	5.7
AR Turret 25	ARMOR	6.3	.	.
WB4595	WestBred	6.3	5.9	5.6
Crescent AX	PlainsGold	6.4	6.2	6.0
MS Maverick	Meridian Seeds	6.4	6.2	5.9
NHH19668	UNL-Experimental	6.4	6.4	.
Whistler	PlainsGold	6.4	6.6	6.3
Pronghorn	Husker Genetics	6.5	6.4	6.0
Robidoux	Husker Genetics	6.5	6.5	6.3
NHH17450	UNL-Experimental	6.8	6.6	6.4
Turkey	Check	7.1	7.0	6.7
Scout 66	Check	7.3	6.9	6.6
Average of all entries		5.6	5.7	5.5
Standard deviation		0.8	0.7	0.6

[1] Ratings were conducted no more than 1 week before harvest using a 1-9 scale where 1 indicates little to no cutting of stems/lodging while 9 indicates a plot that is completely cut/lodged. Two- and three-year averages include data collected in 2020 and 2021 for varieties tested in those years. This data is meant to provide guidance in variety selection but may not reflect absolute sawfly impacts on the varieties.



2023 WINTER TRITICALE VARIETY TRIALS LINCOLN, MEAD, AND SIDNEY, NE

Entry Name	Grain Yield (lbs/a) ^[1]			Flowering Date (Julian date)				Plant Height (in)		
	Average	Mead	Sidney	Lincoln	Mead	Sidney	Maturity	Lincoln	Sidney	Height
NT441	2830	1510	4149	150	151	160	Late	27.7	52.6	Tall
NT13443	2624	1635	3613	150	151	157	Med	27.9	48.0	Med
NT14433	2345	1205	3485	150	151	158	Med	31.0	52.0	Tall
NE03T416-1	2887	1436	4338	149	148	156	Med	32.7	41.7	Med
NE03T416-3	2850	1447	4253	149	150	157	Med	30.0	43.6	Short
NT12404-1	2553	1223	3882	150	151	157	Med	30.0	43.6	Short
NT14407	2591	1347	3835	149	148	157	Med	33.1	45.3	Med
NT19410	3327	1794	4860	150	149	157	Med	32.0	49.0	Tall
NT19441	2691	1622	3761	149	147	157	Med	34.6	52.7	Tall
NT19443	3032	1659	4405	150	150	160	Med	34.0	48.0	Tall
NT20401	2393	1298	3488	148	146	157	Early	31.0	41.4	Short
NT20409	2552	1479	3625	149	148	156	Med	32.7	46.7	Med
NT20427	2578	1292	3863	149	151	158	Med	36.0	47.6	Tall
NT20429	2812	1746	3878	149	148	156	Med	30.4	42.0	Short
NT21406	2696	1471	3921	149	149	158	Med	32.1	46.0	Med
NT21409	2510	1073	3948	149	149	156	Med	30.3	44.3	Med
NT21414	2553	1327	3779	148	146	156	Early	33.6	38.4	Short
NT21425	2605	1366	3844	150	150	158	Med	34.0	46.3	Tall
NT21431	2659	1520	3799	149	148	157	Med	31.0	44.1	Med
NT21436	3119	1757	4481	151	150	159	Med	30.0	52.3	Tall
NT22741	3282	1858	4706	149	149	156	Med	33.7	43.3	Med
NT22719	2142	1062	3221	149	149	156	Med	29.3	40.7	Short
NT22712	2832	1402	4261	150	148	156	Med	32.0	44.3	Med
NT22711	1995	821	3170	148	149	155	Med	26.7	37.0	Short
NT22705	2913	1511	4314	149	145	157	Early	31.0	42.6	Short
NT22746	2204	1340	3067	150	150	160	Med	30.0	55.0	Tall
NT22703	1962	853	3071	149	147	157	Med	31.0	45.7	Med
NT22743	2903	1755	4052	152	152	160	Late	31.7	51.7	Tall
NT22721	2560	1283	3837	150	149	157	Med	29.3	43.0	Short
NT22744	3102	1936	4268	152	152	159	Late	33.4	53.7	Tall
NT22701	2457	1264	3650	149	148	156	Med	28.7	39.0	Short
NT22725	2619	1689	3550	149	147	156	Med	31.7	44.4	Med
NT22739	2735	1540	3931	150	149	159	Med	30.0	47.4	Med
NT22731	2502	1076	3927	150	148	156	Med	31.0	47.0	Med
NT22748	3041	1921	4162	152	152	161	Late	34.6	54.4	Tall
NT22742	2791	1568	4013	150	151	159	Med	34.4	47.4	Tall
NT22708	2327	1049	3606	147	149	156	Med	32.7	42.0	Med
NT22726	2201	871	3530	149	147	157	Med	31.4	41.0	Short
NT22747	2793	1737	3848	151	152	161	Late	30.7	53.0	Tall
NT22736	1906	973	2839	150	150	158	Med	28.7	52.9	Tall
Average all entries	2637	1418	3856	150	149	158	.	31.4	46.3	.
LSD (5%)[2]	.	496	937	1.8	2.9	1.9	.	6.7	4.3	.
CV[3]	.	16.1	11.2	0.6	0.9	0.6	.	9.8	4.3	.

[1] There is no grain yield data for Lincoln due to drought.

[2] For differences between varieties that are equal to or greater than the LSD value, the chance that the difference is significant is 95%.

[3] Coefficient of Variation (CV) indicates the quality of a trial, and lower than 15 indicates a high quality trial. For CV>15, there was higher than expected variability in the field or the data and the results should be used with caution.



UNIVERSITY OF NEBRASKA VARIETY TESTING PROGRAM

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