

2022 FALL SEED GUIDE

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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 2021. 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 2022 will be posted on the UNL Crop Variety and Hybrid Testing Program CropWatch page and published in the 2023 Spring Seed Guide.

WINTER WHEAT PERFORMANCE

According to the National Agricultural Statistics Service, winter wheat was sown on 0.98 million acres in Nebraska last year. 0.86 million acres were harvested producing a projected 32 million bushels of grain. The average winter wheat yield of Nebraska for all wheat harvested during the summer of 2022 was projected to be 37 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	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Yield (bu/a)	35	49	38	54	46	49	57	41	49	37
NE Total Production (million bu)	40	71	46	71	47	49	55	34	41	32

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.

- The Saunders County Rainfed trial was planted on September 24th into disked ground previously in oats. 80 lb/a N was applied at greenup in the spring. Prowl and 2,4-D herbicides were applied in April. Plots were harvested on July 5th with a top yield of 98 bu/a and an average yield of 86 bu/a.
- The SaundersIM County Rainfed trial was planted on September 24th, where the previous crop was oats. 40 lb/a N was applied at greenup and 80 lb/a N was applied at Feekes 5. Prowl and 2,4-D herbicides were applied in April. Prosaro fungicide was applied at late heading. Plots were harvested on July 5th but yield data was significantly affected by rodent damage and field site location.
- The Lancaster County Rainfed trial was planted on September 23rd 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. Plots were harvested on July 5th with a top yield of 87 bu/a and an average yield of 70 bu/a.

South Central:

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

- The Jefferson County Rainfed trial was planted on October 21st no-till into soybean stubble. 100 lb/A potash and 100 lb/a 11-52-0 was applied in the fall and 130 lb/a N and 13 lb/a sulfur fertilizer were applied in the spring. Harmony Extra herbicide and generic Quilt fungicide were applied in the spring and Miravis Ace fungicide and N-Cline were applied at flowering. Plots were harvested on July 11th with a top yield of 108 bu/a and an average yield of 95 bu/a.
- The Clay County Rainfed trial was planted on October 8th into disked soybean stubble. Plots were harvested on July 12th but yield data was highly variable due to hailstorm damage.
- The Gosper County Rainfed trial was planted on September 20th no-till into corn fallow. Plots were harvested on July 20th but yield data was highly variable due to 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).

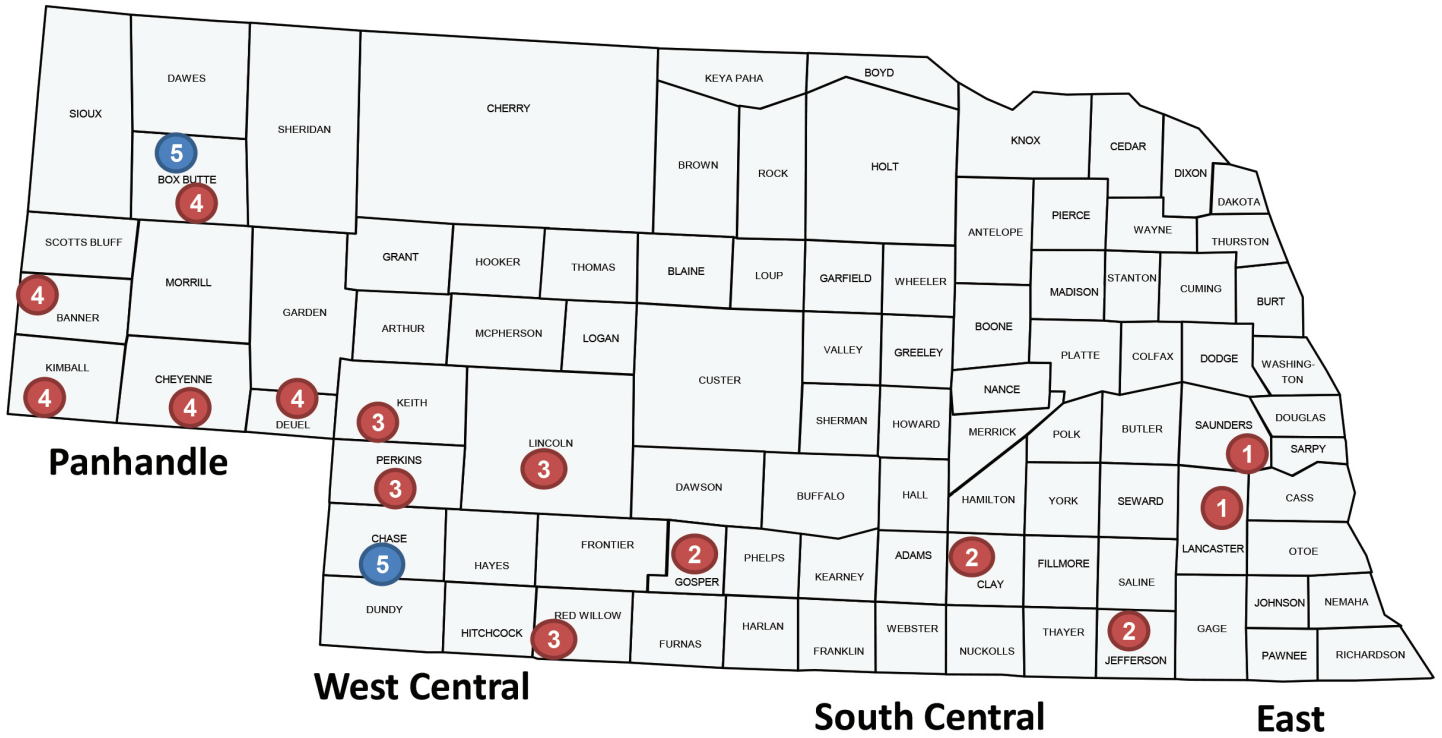
- The Perkins County Irrigated trial was planted on October 11th no-till into soybean stubble. The wheat was irrigated at moderate amount and fall drought reduced early season growth. Plots were harvested on July 26th but data was not consistent with irrigated wheat yields.
- The Red Willow County Rainfed trial was planted on September 23rd into minimum-tilled ground following corn fallow. The trial had excellent emergence and stand despite drought conditions and looked like 60+ bushel yield potentials until hit by hailstorm in late May around heading/early grain fill causing significant yield variability and loss.
- The Lincoln County Rainfed trial was planted on September 23rd no-till into corn fallow. 70 lb/a 40 Rock was applied in-furrow at planting and 60 lb/a N streamed in the spring. Prowl H2O and 2,4-D LV6 herbicide was applied in May. Plots were harvested on July 13th with a top yield of 83 bu/a and an average yield of 67 bu/a.
- The Perkins County Rainfed trial was planted on September 24th no-till into corn fallow. 70 lb/a 40 Rock was applied in-furrow at planting. Gramoxone was applied preplant and Prowl H2O herbicide in the spring for weed control. Plots were harvested July 11th with a top yield of 67 bu/a and an average yield of 60 bu/a.
- The Keith County Rainfed trial was planted on September 20th into minimum-tilled corn fallow ground. 70 lb/a 40 Rock was applied in-furrow at planting and 60 lb/a N streamed in the spring. Starane and Patriot herbicides were applied for weed control. Plots were harvested July 8th with a top yield of 79 bu/a and an average yield of 61 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, Box Butte, and Banner counties. All rainfed sites were left fallow the previous year (Table B).

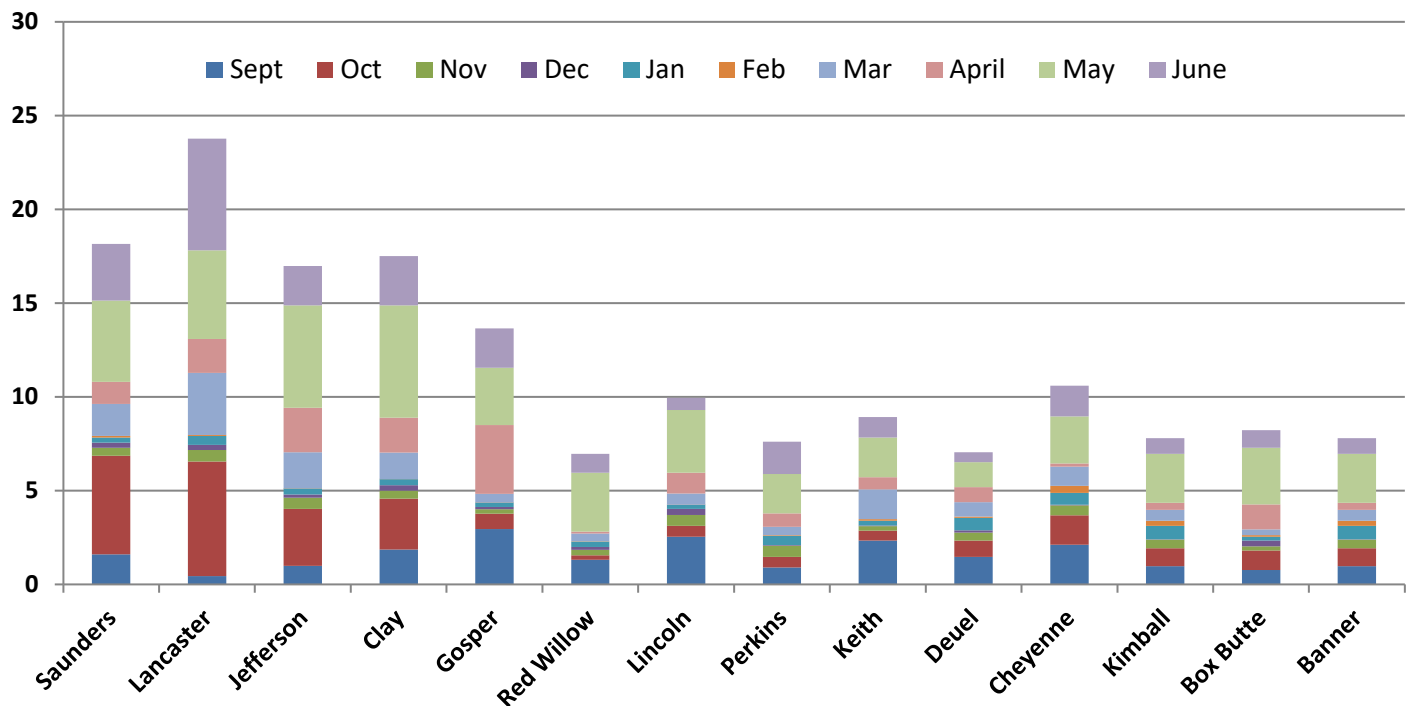
- The Box Butte County Irrigated trial was planted on September 21st into disked dry bean stubble. The trial was lost due to hailstorm damage in May.
- The Deuel County Rainfed trial was planted on September 20th into conventionally tilled wheat fallow. The trial was lost due to hailstorm damage in late May.
- The Cheyenne County Rainfed trial was planted on September 14th no-till into millet fallow. 50 lb/a N was applied preplant. RoundUp and 2,4-D LV-6 were applied preplant and Prowl H2O and 2,4-D LV6 in the spring. Cheyenne had sawfly damage and late season freezing at early heading. Plots were harvested on July 18th a top yield of 32 bu/a and an average yield of 25 bu/a.
- The CheyenneIM (Intensive Management) County Rainfed trial was planted on September 14th no-till into millet fallow. 50 lb/a N as 32-0-0 was applied preplant and 87.5 lb/a 40 Rock in-furrow at planting. 10 lb/a N was applied in early April and 50 lb/a N topdressed 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. CheyenneIM had sawfly damage and late season freezing at early heading. Plots were harvested on July 19th with a top yield of 50 bu/a and an average yield of 31 bu/a.
- The Kimball County Rainfed trial was planted on September 13th into conventionally tilled corn fallow. 70 lb/a 40 Rock was applied in-furrow at planting. Plots were harvested on July 21st with a top yield of 57 bu/a and an average yield of 45 bu/a.
- The Box Butte County Rainfed trial was planted on September 15th into disked corn fallow. The trial was lost due to hailstorm damage in late May.
- The Banner County Rainfed trial was planted on September 13th into wheat fallow. 70 lb/a 40 Rock was applied in-furrow at planting and 35 lb/a N in the spring. Barrage herbicide was applied in the spring for weed control. Plots were harvested on July 21st with a top yield of 42 bu/a and an average yield of 32 bu/a.

2022 WINTER WHEAT TRIAL LOCATIONS MAP



● Rainfed Sites ● Irrigated Sites

2022 WINTER WHEAT TRIAL SITE PRECIPITATION (inches)



**TABLE A - LOCATION SUMMARY FOR NEBRASKA
WINTER WHEAT VARIETY TESTS - 2022**

Location	Cooperator	Latitude	Longitude	Dates		Location Mean Yield (bu/a)	
				Plant	Harvest	Top Yield	Site Avg
Southeast							
Saunders Rainfed	UNL ARDC; Ithaca, NE	41.165817	-96.415756	9/24/21	7/5/22	98.4	86.4
SaundersIM Rainfed	UNL ARDC; Ithaca, NE	41.165156	-96.415756	9/24/21	NA		
Lancaster Rainfed	UNL Havelock Farm; Lincoln, NE	40.857312	-96.595411	9/23/21	7/5/22	86.9	70.1
South Central							
Jefferson Rainfed	Mark Knobel; Fairbury, NE	40.237072	-97.199371	10/21/21	7/11/22	107.7	94.7
Clay Rainfed	South Central Res & Ext Center; Harvard, NE	40.572281	-98.129629	10/8/21	Data highly variable due to hailstorm damage.		
Gosper Rainfed	Troy tenBensel, Arapahoe, NE	40.359245	-99.877022	9/20/21	Data highly variable due to hailstorm damage.		
West Central							
Red Willow Rainfed	Randy Peters; McCook, NE	40.113713	-100.817437	9/23/21	Data highly variable due to hailstorm damage.		
Lincoln Rainfed	UNL WCREC Dryland Farm; North Platte, NE	41.057122	-100.750830	9/23/21	7/13/22	82.5	67.3
Perkins Rainfed	UNL Stumpf International Wheat Center; Grant, NE	40.843994	-101.699950	9/24/21	7/11/22	67.4	59.8
Keith Rainfed	UNL WCREC Water Resource Lab; Brule, NE	41.163308	-101.997725	9/20/21	7/8/22	78.8	60.8
Panhandle (West)							
Deuel Rainfed	Larry Flohr; Chappell, NE	41.174776	-102.247238	9/20/21	Lost to hailstorm		
Cheyenne Rainfed	High Plains Ag Lab; Sidney, NE	41.233281	-103.000321	9/14/21	7/18/22	31.8	25.1
CheyenneIM Rainfed	High Plains Ag Lab; Sidney, NE	41.233281	-103.000321	9/14/21	7/19/22	50.3	30.8
Kimball Rainfed	Chad Bomberger / Travis Freeburg; Bushnell, NE	41.407540	-103.994729	9/13/21	7/21/22	57.2	45.1
Box Butte Rainfed	Cullan Farm Seed; Hemingford, NE	42.248355	-103.018278	9/15/21	Lost to hailstorm		
Banner Rainfed	Jim Wyatt; Harrisburg, NE	41.56687	-103.728587	9/13/21	7/21/22	42.2	31.7
Irrigated							
Box Butte Irrigated	Tommy Cullan, Cullan Seed Farms; Hemingford, NE	42.281353	-103.014730	9/21/21	Lost to hailstorm		
Perkins Irrigated	UNL Stumpf International Wheat Center; Grant, NE	40.853561	-101.703579	10/11/21	NA		

**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	Filbert & Tomek silt loam	Disked	Oats	80 lb/a N applied at greenup	2 pt/a Prowl & 0.5 pt/a 2,4-D in April
SaundersIM Rainfed	Tomek silt loam	Disked	Oats	40 lb/a N applied at greenup and 80 lb/a N applied at Feekes 5.	2 pt/a Prowl & 0.5 pt/a 2,4-D in April; 8 oz/a Prostaro applied at late heading
Lancaster Rainfed	Kennebec silt loam	Disked	Oats	80 lbs/a N using liquid 32% preplant, 80 lbs/a N in April	0.3 oz/a Finesse + NIS preplant, 2,4-D + Prowl H2O in April
South Central					
Jefferson Rainfed	Crete silt loam	No-till	Soybean	100 lb/a potash & 100 lb/a 11-52-0 applied in the fall and 130 lb/a N & 13 lb/a S applied as spring topdress	Harmony Extra & generic Quilt applied in spring, generic Quilt applied at flag leaf, & Miravis Ace & N-Cline applied at flowering
Clay Rainfed	Crete silt loam	Disked	Soybean	NA	NA
Gosper Rainfed	Holdrege silt loam	No-till	Fallow (corn)	NA	NA
West Central					
Red Willow Rainfed	Blackwood silt loam	Tilled	Fallow (corn)	NA	NA
Lincoln Rainfed	Holdrege silt loam	No-till	Fallow (corn)	70 lb/a 40 Rock in-furrow at planting; 60 lb/a N streamed in spring	2 pt/a Prowl H2O and 2,4-D LV6 in early May
Perkins Rainfed	Alliance & Kuma silt loams	No-till	Fallow (corn)	70 lb/a 40 Rock at planting, soil test revealed 110lb/a residual N, so no additional topdressing.	0.5 oz/a Amber in fall
Keith Rainfed	Kuma loam	Tilled	Fallow (corn)	70 lb/a 40 Rock in-furrow at planting; 60/a lb N streamed in spring	Starane and Patriot at labeled rates
Panhandle (West)					
Deuel Rainfed	Johnstown-Satanta-Richfield-Altvan loams	Tilled	Fallow (wheat)	NA	NA
Cheyenne Rainfed	Duroc & Alliance loams	No-till	Fallow (millet)	50 lb/a 32-0-0 streamed in August; no in-furrow starter	32 oz 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
CheyenneIM Rainfed	Duroc & Alliance loams	No-till	Fallow (millet)	50 lb/a 32-0-0 streamed in August; 87.5 lb/a 40 Rock in-furrow at planting; 10 lb/a N with 2,4-D in April; 50 lb/a N applied on April 26	32 oz RoundUp, 8 oz/a 2,4-D LV6 preplant; 2,4-D in April; 2 pt/a Prowl H2O and 6 oz/a 2,4-D LV6 in early May
Kimball Rainfed	Rosebud-Canyon & Alliance loams	Tilled	Fallow (corn)	70 lb/a 40 Rock in-furrow at planting	NA
Box Butte Rainfed	Rosebud loam	Tilled	Fallow (corn)	NA	NA
Banner Rainfed	Bridget very fine sandy loam	Tilled	Fallow (wheat)	70 lb/a 40 Rock in-furrow at planting, 35 lb/a N in spring	4 oz/a Barrage in April
Irrigated					
Box Butte Irrigated	Rosebud & Alliance loams	Tilled	Dry bean	NA	NA
Perkins Irrigated	Kuma & Mace silt loams	No-till	Soybean	70 lb/a 40 Rock; 90 lb/a N at greenup; fertigated 25 lb/a N mid-May and 70 lb/a in late May	2 pt/a Prowl H2O in mid-April, touchup spraying with 2,4-D in late May

TABLE C - ENTRIES AND CONTACT INFORMATION

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

<p>AgriPro - Syngenta 47765 899th Rd Atkinson, NE 68713 agriprowheat.com</p>	<p>AP18AX, AP Bigfoot, AP Roadrunner, AP Solid, Spur, SY Legend, SY Wolverine</p>	
<p>CROPLAN by Winfield United 500 North 1st Street Vincent, IA 50594 croplan.com</p>	<p>CP7017AX, CP7050AX, CPX72166AX, CP7869</p>	
<p>Husker Genetics 1071 County Rd G Ithaca, NE 68033 huskergenetics.unl.edu</p>	<p>Freeman, Goodstreak, Pronghorn, Robidoux, Ruth, Wesley</p>	
<p>Kansas Wheat Alliance 1990 Kimball Ave. Ste 200 Manhattan, KS 66502 kswheatalliance.org</p>	<p>KS Hamilton</p>	
<p>Limagrain Cereal Seeds 6414 N. Sheridan Wichita, KS 67204 limagraincerealseeds.com</p>	<p>LCS Atomic AX, LCS Chrome, LCS Helix AX, LCS Link, LCS Photon AX, LCS Runner, LCS Steel AX, LCS Valiant</p>	
<p>Meridian Seeds 16553 37th St SE, Suite 3 Mapleton, ND 58059 meridianseeds.com</p>	<p>MS Iceman, MS Maverick</p>	
<p>NuHorizon Genetics 6731 Franklin Rd Hemingford, NE 69348 nuhorizongenetics.com</p>	<p>Epoch</p>	
<p>NuPride Genetics P. O. Box 830911 Lincoln, Nebraska 68583-0911 necrop.org</p>	<p>Settler CL, Siege</p>	
<p>PlainsGold Colorado State University 4026 S. Timberline Rd. Suite 100 Fort Collins, CO 80525 plainsgold.com</p>	<p>Amplify SF, Canvas, Crescent AX, Fortify SF, Langan, Monarch, Whistler</p>	
<p>Polansky Seed, Inc. P.O. Box 306, Belleville, KS 66935 polanskyseed.com</p>	<p>High Country, Paradise, Rock Star</p>	
<p>WestBred 9105 W. Meadow Knoll St. Wichita, KS 67205 westbred.com</p>	<p>WB4269, WB4303, WB4309, WB4401, WB4418, WB4422, WB4462, WB4483, WB4510CLP, WB4523, WB4595, WB4699, WB4792</p>	

WINTER WHEAT VARIETY CHARACTERISTICS 2022^[1] (PAGE 1/3)

Variety	Origin	Maturity	Winter Hardiness	Straw Strength	Plant Height	Coleoptile Length	Bushel Weight	Grain Protein	
Amplify SF	CSU	3	5	4	5	6	3	6	
AP 18AX	AgriPro	2	3	3	4	5	3	5	
AP Bigfoot	AgriPro	2	4	4	3	5	2	2	
AP Roadrunner	AgriPro	3	4	2	6	5	4	3	
AP Solid	AgriPro	4	4	5	4	5	3	2	
Canvas	CSU	3	5	5	5	5	3	5	
CP7017AX	CROPLAN	3	5	5	5	--	6	5	
CP7050AX	CROPLAN	2	4	5	5	--	3	3	
CP7869	CROPLAN	5	4	5	5	--	3	3	
CPX72166AX	CROPLAN	3	4	5	7	--	3	3	
Crescent AX	CSU	1	4	4	5	5	3	8	
Epoch	USDA-NE	2	5	3	2	--	3	--	
Fortify SF	CSU	4	5	3	5	3	4	6	
Freeman	NE	3	5	3	2	2	6	5	
Goodstreak	NE	3	4	4	8	9	2	4	
High Country	KS	2	5	6	4	5	2	--	
KS Hamilton	KSU	3	5	4	5	4	7	7	
Langin	CSU	2	5	3	4	3	5	6	
LCS Atomic AX	Limagrain	1	4	6	2	7	5	5	
LCS Chrome	Limagrain	4	4	6	6	6	4	3	
LCS Helix AX	Limagrain	2	4	5	4	9	2	3	
LCS Link	Limagrain	5	5	6	5	6	4	5	
LCS Photon AX	Limagrain	2	4	3	6	8	1	1	
LCS Runner	Limagrain	3	5	4	5	8	3	4	
LCS Steel AX	Limagrain	5	5	6	6	6	4	5	
LCS Valiant	Limagrain	2	5	5	4	6	4	3	
Monarch	CSU	3	5	6	5	3	4	8	
		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
	--	--	--	--	--	4	--	Sawfly defense	17 Solidness (Pith)
	5	6	3	5	3	2	4	All	Excellent yield potential, medium maturity, WSMV tolerance
	9	3	2	5	5	4	3	SC, WC, PH	Acid soil tolerance, very good leaf and stripe rust tolerance, works well for late planting after soybean, a top AP varieties for WSMV tolerance
	2	2	8	1	4	2	6	WC, PH	A top AP varieties for WSMV, excellent milling and baking quality
	9	5	5	--	6	7	4	PH	Good yield potential, adaptability from NW KS to N MT, rated well for solidness from MSU
	3	6	2	--	3	3	--	Irrigated/higher rainfall areas	Ideal population is 1.2-1.5 million.
	--	7	1	--	--	3	--	High yield	Broadly adapted, resistance to SBMV, tolerance in acid soils
	--	3	8	--	--	1	--	High yield potential	Strong yield potential, strong straw and test weight, consistent performance
	--	1	1	--	--	1	--	High yield potential	High yield potential especially in well-managed conditions
	--	1	8	--	--	3	--	Mod-high yield and dryland	Experimental CoAXium
	--	6	--	--	2	4	--	Grassy weed pressure areas	
	8	3	2	1	7	3	--	Irrigated/higher rainfall areas	Well-adapted for intensive management and irrigated acres
	9	7	4	--	2	7	--	Sawfly defense	13 Solidness (Pith)
	Seg	6	2	1	9	8	--	All NE	
	6	8	3	9	9	--	--	Western	Tall; Susceptible to stripe rust; high tillering
	9	2	3	1	4	6	--	WC	Released in 2021 for High Plains West.
	1	5	3	1	2	7	7	SC, WC	Improved temperature resistance to WSMV
	9	6	8	1	--	3	--	Dryland	Finishes well in the heat
	--	4	9	1	--	1	--	All	Very good FHB tolerance, AX
	1	1	9	1	7	1	2	All	Good FHB tolerance
	--	2	1	1	--	2	--	All	Very good FHB tolerance, AX
	--	2	1	1	6	5	3	All	Good FHB tolerance/Irrigated wheat
	--	5	9	4	--	2	--	All	High tillering with good drought tolerance, AX
	9	4	2	1	--	4	--	All	Intermediate FHB tolerance
	9	2	8	1	--	8	--	All	Very good FHB tolerance, AX
	1	5	4	1	8	2	--	All	Very good FHB tolerance
	9	5	2	--	4	5	--	Irrigated/Higher Rainfall	Low PPO
	1 = Resistant 9 = Susceptible Seg = Segregating R* = Resistant (by marker)								

WINTER WHEAT VARIETY CHARACTERISTICS 2022 (PAGE 2/3)

Variety	Origin	Maturity	Winter Hardiness	Straw Strength	Plant Height	Coleoptile Length	Bushel Weight	Grain Protein	
MS Iceman	Meridian	3	--	5	3	7	1	2	
MS Maverick	Meridian	4	--	3	5	6	2	2	
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	--	
NE18573	NE	3	5	--	7	--	2	--	
NE19590	NE	3	5	--	5	--	4	--	
NE19619	NE	4	5	--	6	--	3	--	
NHH17450	NE	2	5	--	5	--	4	--	
NHH17612	NE	3	5	--	5	--	3	--	
NHH19651	NE	4	5	--	6	--	2	--	
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-14-83	NE	3	5	--	5	--	6	--	
Robidoux	NE	3	4	--	5	6	5	--	
Rock Star	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	
Settler CL	NE	3	5	3	1	6	6	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
	--	2	5	--	--	7	--		
	--	1	3	--	--	1	--		
	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	
	S	9	2	R*	S	7	--	Broad adaptation	
	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	--	4	--	S	5	--	West Central/PH	CL2
	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 or after beans, excellent Mill/Bake score, excellent Strip Rust tolerance, 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	SC, WC	High yields planted continuous, after beans or corn, excellent stripe rust, strong straw, 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
	9	5	4	1	5	8	--	Broad adaptation; dry-land and irrigated	Single gene Clearfield for grassy weed pressure, good winter hardiness, stable yields
	1 = Resistant 9 = Susceptible Seg = Segregating R* = Resistant (by marker)								

WINTER WHEAT VARIETY CHARACTERISTICS 2022 (PAGE 3/3)

Variety	Origin	Maturity	Winter Hardiness	Straw Strength	Plant Height	Coleoptile Length	Bushel Weight	Grain Protein	
Siege	NE	4	4	5	3	--	2	--	
Spur	AgriPro/MSU	5	5	5	5	5	6	3	
SY Legend CL2	AgriPro	3	4	2	4	5	2	3	
SY Wolverine	AgriPro	2	4	5	3	5	2	2	
Turkey	Ukraine	5	4	2	9	9	3	1	
WB4269	Bayer	1	4	3	3	5	3	2	
WB4303	Bayer	2	3	6	4	5	5	2	
WB4309	Bayer	2	4	3	4	5	3	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	
WB4462	Bayer	2	4	2	7	6	4	3	
WB4483	Bayer	4	5	5	5	6	5	5	
WB4510CLP	Bayer	3	4	5	5	6	2	4	
WB4523	Bayer	3	4	6	3	5	4	5	
WB4595	Bayer	3	5	5	5	6	2	4	
WB4699	Bayer	3	4	5	3	5	6	6	
WB4792	Bayer	4	5	5	6	6	4	4	
Wesley	ARS-NE	3	5	5	2	1	7	4	
Whistler	CSU	5	5	1	7	5	6	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	

[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
	3	4	2	1	7	2	--	Eastern; South Central	Moderate disease/pest resistance package, excellent yield and straw strength, acceptable end use
	--	4	--	--	9	4	--	Panhandle	Excellent yield potential in target environment, solid stem, lower test weight and late maturing
	9	5	--	--	4	4	3	Panhandle	Consistent yielder, drought tolerance, good tolerance to leaf and stripe rust
	9	2	2	1	4	7	3	SC, WC, PH	Wide adaptability and yield potential, good choice if planting late after soybeans, WSMV tolerance
	9	7	7	9	5	9	--	--	Brought to KS in 1870s from Ukraine with immigrants, dominant historical variety
	8	2	4	3	8	6	8	Eastern Dryland	Very Good FHB tolerance.
	6	3	3	2	5	8	8	Western Irrigated	Excellent Mill/Bake
	--	5	4	4	7	4	8	Western Dry, Irrig	Very good drought/heat tolerance.
	5	4	4	2	7	3	5	Eastern Dryland	Good FHB tolerance.
	2	4	3	2	5	4	7	Western Dry, Irrig	Good sawfly tolerance for light to moderate infestations.
	8	2	6	2	6	8	3	Western Dry, Irrig	Targeted as WB-Grainfield replacement.
	8	3	4	2	8	7	6	Western Dryland	Excellent tough acre variety with excellent drought and heat tolerance
	--	5	7	6	6	7	4	Sawfly Acres	Solid stem variety with very good yield potential.
	7	6	5	6	6	2	7	Western Dry, Irrig	2-gene Clearfield with excellent yield potential and agronomics.
	8	5	4	3	6	2	2	Eastern Dryland	Very good yield potential with excellent standability and disease package. Good FHB tolerance.
	6	4	3	7	5	4	6	Western Dry, Irrig	Excellent drought and heat tolerance. Good sawfly tolerance for light to moderate infestations.
	5	3	2	3	5	6	4	Eastern Dryland	Excellent yield potential, standability with a very good disease package. Very Good FHB tolerance.
	4	2	4	7	5	4	6	Western Dry, Irrig	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
	9	6	1	--	2	3	--	Dryland	
	1 = Resistant 9 = Susceptible Seg = Segregating R* = Resistant (by marker)								

EAST DRYLAND WHEAT VARIETY TESTS

SAUNDERS AND LANCASTER COUNTIES - 2022

Variety	Brand	Average 2022 Yield (bu/a) ^[1]	Saunders Yield (bu/a)	Lancaster Yield (bu/a)	Bushel Weight (lb/bu)	Plant Height (in)	Grain Protein (%) ^[2]	Seed Weight (1000 seeds/lb)
Ruth	Husker Genetics	90.5	98.4	82.7	58.8	38.1	12.9	16.4
WB4401	WestBred	87.2	87.5	86.9	58.1	34.9	12.4	15.0
NE16562	UNL-Experimental	87.1	94.9	79.4	56.9	36.8	13.2	17.7
WB4699	WestBred	84.5	90.7	78.4	56.0	33.9	12.2	21.7
WB4523	WestBred	84.2	83.1	85.3	55.3	32.9	12.4	19.8
NE18455	UNL-Experimental	83.3	90.7	75.9	57.4	37.4	12.8	17.6
Freeman	Husker Genetics	81.7	90.5	72.9	55.5	37.0	13.3	16.9
Epoch	NuHorizon	81.1	86.8	75.5	56.4	36.8	13.1	17.7
NHH19651	UNL-Experimental	80.8	88.7	72.8	56.3	40.3	13.6	17.7
NE17441	UNL-Experimental	79.5	91.5	67.4	59.7	37.5	13.7	15.4
Siege	NuPride Genetics	79.5	89.3	69.6	57.8	36.8	13.8	15.6
NI17410	UNL-Experimental	79.4	87.3	71.5	59.6	37.0	13.4	14.8
WB4269	WestBred	78.7	83.2	74.2	57.8	32.5	12.5	18.4
LCS Atomic AX	Limagrain Cereal Seeds	77.4	85.1	69.8	59.0	33.3	13.2	14.3
NHH17612	UNL-Experimental	76.9	90.8	63.0	58.4	38.7	13.7	18.5
LCS Valiant	Limagrain Cereal Seeds	75.7	85.3	66.1	58.0	34.7	14.6	15.2
Wesley	Husker Genetics	75.4	86.1	64.6	56.3	36.0	14.0	15.7
NHH17450	UNL-Experimental	73.6	79.8	67.4	56.6	38.7	13.8	17.6
Scout 66	Check	53.6	69.0	38.2	57.0	43.1	14.8	14.8
Turkey	Check	52.5	64.5	40.5	56.6	43.7	15.6	16.7
Average of all entries		78.1	86.4	70.1	57.4	37.0	13.5	16.9
Standard deviation		5.6	4.0	5.7	0.7	1.5	0.3	0.5
LSD_{0.10}^[3]		9.8	6.8	9.6	1.2	2.6	0.5	0.9
Coefficient of variation^[4]		7.2	4.7	8.1	1.2	4.0	2.1	3.0

[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)	Plant Height (inches)	Grain Protein (%)	Seed Weight (1000 seeds/lb)
Two-year (2021-2022) averages*						
WB4401	WestBred	90.1	57.0	36.1	12.1	13.9
Ruth	Husker Genetics	86.6	58.1	39.2	12.5	16.7
WB4699	WestBred	86.2	56.0	33.2	12.1	20.9
Siege	NuPride Genetics	85.3	58.8	37.6	13.5	14.5
NHH17612	UNL-Experimental	84.6	58.6	38.3	13.2	17.8
WB4269	WestBred	83.6	57.4	33.7	12.4	17.6
LCS Valiant	Limagrain Cereal Seeds	83.0	58.2	35.7	13.6	15.0
Epoch	NuHorizon	82.4	56.0	37.6	12.6	17.6
NHH17450	UNL-Experimental	78.8	57.3	39.8	13.2	16.9
NE16562	UNL-Experimental	76.0	55.4	37.8	12.8	17.8
NE17441	UNL-Experimental	75.0	57.0	36.7	12.8	16.9
Freeman	Husker Genetics	75.0	54.6	37.9	12.9	17.6
Wesley	Husker Genetics	74.0	55.2	36.5	13.4	16.6
Scout 66	Check	59.6	57.5	45.8	14.2	14.8
Turkey	Check	57.3	56.3	46.3	14.5	16.6
Average of all entries		78.3	56.9	38.2	13.0	16.7
Standard deviation		4.7	0.8	0.9	0.3	0.7
LSD_{0.10}		7.8	1.3	1.5	0.4	1.1
Coefficient of variation		5.9	1.3	2.4	1.9	4.0
Three-year (2020-2022) averages*						
Ruth	Husker Genetics	87.9	58.9	38.7	12.8	.
WB4699	WestBred	86.0	57.3	32.3	12.1	.
WB4269	WestBred	81.8	57.9	33.4	12.6	.
Siege	NuPride Genetics	81.6	59.6	36.8	13.8	.
LCS Valiant	Limagrain Cereal Seeds	79.4	59.0	34.9	14.0	.
Wesley	Husker Genetics	76.5	56.9	36.0	13.7	.
NE16562	UNL-Experimental	74.4	56.2	36.4	13.2	.
Freeman	Husker Genetics	74.1	55.8	37.0	13.1	.
Turkey	Check	55.8	57.1	45.7	14.8	.
Scout 66	Check	55.2	57.8	44.5	14.5	.
Average of all entries		3.5	0.5	0.6	0.2	.
Standard deviation		5.8	0.8	1.0	0.3	.
LSD_{0.10}		75.3	57.7	37.6	13.4	.
Coefficient of variation		4.6	0.9	1.6	1.4	.

* 2022 Saunders, Lancaster

* 2021 Saunders, SaundersIM, Lancaster

* 2020 Saunders, SaundersIM, Lancaster

SOUTH CENTRAL DRYLAND WHEAT VARIETY TEST

JEFFERSON COUNTY - 2022

Variety	Brand	Jefferson 2022 Yield (bu/a)	Bushel Weight (lb/bu)	Plant Height (in)	Grain Protein (%)	Seed Weight (1000 seeds/lb)
CP7017AX	CROPLAN	107.7	58.7	31.0	13.0	15.5
LCS Atomic AX	Limagrain Cereal Seeds	106.2	59.9	31.0	12.7	12.1
LCS Valiant	Limagrain Cereal Seeds	103.8	59.8	31.3	13.5	13.5
WB4401	WestBred	100.6	58.8	31.8	12.7	13.4
Paradise	Polansky Seed, Inc.	100.2	59.7	31.3	13.5	13.5
MS Iceman	Meridian Seeds	98.9	60.9	32.0	14.2	15.3
NE16562	UNL-Experimental	98.7	59.2	32.3	13.0	15.2
WB4699	WestBred	98.5	58.5	28.0	12.2	17.7
SY Wolverine	AgriPro	98.0	58.2	28.5	13.1	14.0
NE17441	UNL-Experimental	97.7	60.1	34.3	13.5	14.0
NHH19668	UNL-Experimental	97.6	59.5	31.5	13.1	14.1
Siege	NuPride Genetics	97.5	60.4	33.3	13.8	13.3
AP Roadrunner	AgriPro	97.4	58.9	30.8	13.5	15.3
NHH17450	UNL-Experimental	96.5	59.3	35.0	13.5	14.9
Rock Star	Polansky Seed, Inc.	96.2	58.0	31.5	14.5	14.9
NE18455	UNL-Experimental	96.2	58.9	32.8	12.6	15.7
PSB13NEDH-14-83	UNL-Experimental	95.9	59.4	34.5	13.6	13.1
NHH19651	UNL-Experimental	95.8	59.5	36.5	13.5	15.1
CP7050AX	CROPLAN	95.7	60.9	32.5	14.6	14.5
MS Maverick	Meridian Seeds	95.4	58.6	33.5	13.9	14.8
LCS Steel AX	Limagrain Cereal Seeds	94.7	57.8	33.5	13.2	17.6
AP Bigfoot	AgriPro	94.6	59.5	30.0	13.1	15.6
NHH17612	UNL-Experimental	94.1	59.3	34.3	13.9	16.2
CP7869	CROPLAN	94.0	58.5	30.3	12.6	13.8
NE17443	UNL-Experimental	93.6	58.1	30.3	13.4	15.0
WB4269	WestBred	93.6	59.3	28.8	12.7	16.0
Epoch	NuHorizon	92.8	59.0	30.5	13.5	15.1
Wesley	Husker Genetics	92.7	58.0	31.5	14.3	13.9
WB4523	WestBred	91.7	56.6	27.8	12.8	19.5
Ruth	Husker Genetics	88.2	58.2	33.3	13.8	15.7
LCS Chrome	Limagrain Cereal Seeds	87.2	58.7	33.8	14.5	16.1
Freeman	Husker Genetics	87.2	56.6	32.8	13.4	15.2
CPX72166AX	CROPLAN	83.5	59.4	33.0	13.2	15.6
Scout 66	Check	80.2	59.8	39.3	13.7	14.0
Turkey	Check	73.4	59.2	37.8	14.9	15.9
Average of all entries		94.7	59.0	32.3	13.5	15.0
Standard deviation		2.4	0.4	0.7	0.3	0.4
LSD_{0.10}^[1]		4.1	0.6	1.1	0.5	0.7
Coefficient of variation^[2]		2.6	0.6	2.1	2.1	2.9

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

[2] 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.

SOUTH CENTRAL (JEFFERSON) DRYLAND AVERAGE WHEAT PERFORMANCE

Variety	Brand	Grain Yield (bu/a)	Bushel Weight (lb/bu)	Plant Height (inches)	Grain Protein (%)
Two-year (2021-2022) averages in Jefferson County					
CP7017AX	CROPLAN	113.9	59.6	31.8	12.3
WB4401	WestBred	108.8	60.0	33.6	12.2
AP Roadrunner	AgriPro	107.5	59.8	32.6	12.8
LCS Valiant	Limagrain Cereal Seeds	107.3	60.6	32.6	12.7
WB4699	WestBred	106.1	59.1	29.3	11.8
MS Iceman	Meridian Seeds	105.7	61.7	33.6	13.7
NHH17450	UNL-Experimental	105.1	59.8	35.8	12.9
AP Bigfoot	AgriPro	104.8	60.3	31.8	12.7
MS Maverick	Meridian Seeds	104.3	59.6	35.3	13.5
Siege	NuPride Genetics	104.3	61.4	33.9	13.2
NE16562	UNL-Experimental	103.6	59.1	33.9	12.7
WB4269	WestBred	103.0	59.7	30.6	12.4
NHH17612	UNL-Experimental	102.0	60.2	35.0	13.1
Wesley	Husker Genetics	100.8	59.2	33.0	13.9
SY Wolverine	AgriPro	100.2	59.5	30.0	12.6
Freeman	Husker Genetics	99.0	57.4	34.9	13.0
Ruth	Husker Genetics	99.0	59.4	35.4	13.1
CP7050AX	CROPLAN	98.6	61.3	33.0	14.0
PSB13NEDH-14-83	UNL-Experimental	97.1	59.4	36.6	13.1
Scout 66	Check	85.1	60.6	42.4	13.8
Turkey	Check	77.5	60.0	41.6	14.6
Average of all entries		101.3	59.8	34.1	13.0
LSD_{0.10}		7.6	0.9	2.1	0.5
Three-year (2020-2022) averages in Jefferson County					
CP7017AX	CROPLAN	101.3	59.3	30.8	12.3
LCS Valiant	Limagrain Cereal Seeds	98.1	60.4	31.8	13.0
NHH17450	UNL-Experimental	96.1	59.5	35.0	13.0
WB4269	WestBred	95.6	59.4	30.0	12.6
Siege	NuPride Genetics	95.2	61.4	33.6	13.4
WB4699	WestBred	93.5	58.8	28.7	12.0
NHH17612	UNL-Experimental	93.1	59.9	34.3	13.2
Wesley	Husker Genetics	93.0	59.1	32.7	13.7
NE16562	UNL-Experimental	91.8	58.7	33.1	12.9
Freeman	Husker Genetics	91.7	57.3	34.1	13.0
SY Wolverine	AgriPro	90.2	59.4	29.1	13.1
Ruth	Husker Genetics	90.0	59.1	34.3	12.8
CP7050AX	CROPLAN	89.2	60.5	32.1	13.9
PSB13NEDH-14-83	UNL-Experimental	88.2	59.1	35.9	13.2
Scout 66	Check	76.8	60.0	41.2	14.1
Turkey	Check	75.1	59.6	41.7	14.5
Average of all entries		91.2	59.4	33.6	13.2
LSD_{0.10}		9.2	0.9	1.9	0.7

WEST CENTRAL DRYLAND WHEAT VARIETY TESTS

LINCOLN, PERKINS, AND KEITH COUNTIES - 2022 (PAGE 1/2)

Variety	Brand	Average 2022 Yield (bu/a) ^[1]	Lincoln Yield (bu/a)	Perkins Yield (bu/a)	Keith Yield (bu/a)	Bushel Weight (lb/bu)	Plant Height (in)	Grain Protein (%) ^[2]	Seed Weight (1000 seeds/lb)
High Country	Polansky Seed, Inc.	72.5	71.3	67.4	78.8	58.8	26.9	12.7	17.3
LCS Steel AX	Limagrain Cereal Seeds	72.4	81.0	66.5	69.8	58.2	29.5	13.5	17.7
Langin	PlainsGold	71.7	70.6	66.1	78.3	57.4	26.9	13.2	15.9
CPX72166AX	CROPLAN	69.8	82.5	64.8	62.2	57.7	27.0	13.3	16.0
LCS Atomic AX	Limagrain Cereal Seeds	67.5	64.8	63.8	73.8	58.8	26.2	13.2	13.9
Rock Star	Polansky Seed, Inc.	67.5	77.1	55.8	69.5	58.7	27.6	14.7	15.2
Crescent AX	PlainsGold	67.2	73.4	64.8	63.3	58.7	28.3	13.2	13.9
CP7017AX	CROPLAN	66.9	64.0	65.0	71.7	59.0	26.5	13.2	15.5
KS Hamilton	Kansas Wheat Alliance	66.8	67.5	62.3	70.6	59.0	26.4	13.5	15.7
NE16562	UNL-Experimental	66.6	68.5	61.8	69.5	57.6	27.4	13.7	16.4
CP7869	CROPLAN	66.4	70.6	61.1	67.5	58.3	27.3	13.9	13.6
NHH17450	UNL-Experimental	65.8	69.3	59.9	68.1	58.3	29.4	13.9	15.9
AP Bigfoot	AgriPro	65.7	68.8	63.3	64.9	58.3	27.0	14.0	18.2
SY Wolverine	AgriPro	65.6	64.2	57.3	75.2	58.4	26.6	14.2	15.4
LCS Runner	Limagrain Cereal Seeds	65.4	74.2	64.0	58.0	59.0	28.2	13.3	14.4
MS Maverick	Meridian Seeds	65.1	69.6	61.5	64.0	59.3	28.1	14.1	14.3
AP 18AX	AgriPro	64.7	66.7	65.4	61.9	57.2	27.3	13.3	15.0
SY Legend	AgriPro	64.6	62.5	61.3	70.1	59.1	26.9	14.5	15.1
NHH19668	UNL-Experimental	64.2	67.5	63.4	61.7	58.5	26.9	14.1	14.6
Robidoux	Husker Genetics	64.0	63.3	64.9	63.6	57.8	27.9	14.4	15.9
NE17443	UNL-Experimental	63.4	68.7	59.9	61.6	58.5	25.3	14.1	15.0
WB4595	WestBred	63.3	72.3	58.9	58.5	60.8	28.2	13.5	14.0
AP Roadrunner	AgriPro	63.2	71.5	59.2	58.8	57.5	26.9	14.4	16.2
NHH17612	UNL-Experimental	62.3	71.3	58.4	57.2	59.1	27.7	14.4	16.8
WB4422	WestBred	62.3	71.6	66.8	48.5	58.8	27.8	14.5	15.4
WB4418	WestBred	62.3	67.5	58.1	61.2	57.2	26.4	14.0	18.4
Settler CL	NuPride Genetics	62.1	66.9	55.9	63.7	58.7	27.0	13.9	14.0
LCS Chrome	Limagrain Cereal Seeds	61.7	64.7	59.9	60.7	58.3	27.3	14.8	17.3
WB4309	WestBred	61.7	64.2	65.1	55.7	57.9	26.0	14.3	16.3
LCS Helix AX	Limagrain Cereal Seeds	61.7	67.1	56.2	61.8	59.5	27.0	13.5	14.9
WB4792	WestBred	61.3	63.7	59.0	61.2	60.1	27.8	13.6	16.3
CP7050AX	CROPLAN	61.3	62.6	62.0	59.2	59.6	26.9	13.9	16.4
Freeman	Husker Genetics	60.2	60.3	56.6	63.5	56.8	27.7	13.8	15.7
LCS Valiant	Limagrain Cereal Seeds	59.4	71.3	60.1	46.7	58.0	26.9	15.2	15.2
MS Iceman	Meridian Seeds	59.1	62.4	54.6	60.4	58.8	26.1	14.9	16.9
WB4510CLP	WestBred	58.6	64.2	55.5	56.1	60.2	27.7	14.2	16.1
PSB13NEDH-14-83	UNL-Experimental	57.5	71.1	53.7	47.7	58.1	28.7	15.0	12.5

TABLE CONTINUED ON NEXT PAGE

WEST CENTRAL DRYLAND WHEAT VARIETY TESTS

LINCOLN, PERKINS, AND KEITH COUNTIES - 2022 (PAGE 2/2)

Variety	Brand	Average 2022 Yield (bu/a) ^[1]	Lincoln Yield (bu/a)	Perkins Yield (bu/a)	Keith Yield (bu/a)	Bushel Weight (lb/bu)	Plant Height (in)	Grain Protein (%) ^[2]	Seed Weight (1000 seeds/lb)
NE17441	UNL-Experimental	57.3	62.7	51.7	57.6	58.8	27.3	13.8	15.4
Ruth	Husker Genetics	56.8	64.1	58.2	48.1	57.4	28.4	14.4	17.0
Epoch	NuHorizon	56.6	58.9	52.1	58.7	57.4	26.8	14.4	16.4
Wesley	Husker Genetics	56.3	56.6	53.0	59.4	56.9	25.3	14.7	14.9
NW15443	UNL-Experimental	55.6	64.0	56.1	46.7	57.2	28.2	13.8	14.6
Scout 66	Check	53.8	58.6	54.1	48.8	59.1	31.6	13.6	14.2
LCS Link	Limagrain Cereal Seeds	53.2	67.7	55.0	36.9	57.5	27.9	14.6	14.8
Turkey	Check	50.6	55.3	51.7	44.7	57.1	32.8	15.1	16.6
Average of all entries		62.7	67.3	59.8	60.8	58.4	27.5	14.0	15.6
Standard deviation		4.5	4.2	2.7	4.2	0.7	0.8	0.5	0.6
LSD_{0.10}^[3]		7.5	7.2	4.4	6.9	1.2	1.3	0.8	1.0
Coefficient of variation^[4]		7.2	6.3	4.4	6.8	1.2	2.8	3.4	3.9

[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)	Plant Height (inches)	Grain Protein (%)
Two-year (2021-2022) averages*					
LCS Atomic AX	Limagrain Cereal Seeds	86.4	58.7	30.3	12.4
AP Bigfoot	AgriPro	85.6	58.2	30.7	13.3
KS Hamilton	Kansas Wheat Alliance	84.2	58.6	30.6	12.8
WB4462	WestBred	82.9	58.9	34.7	13.4
WB4595	WestBred	82.7	60.6	32.2	12.4
AP 18AX	AgriPro	82.4	57.3	32.6	12.6
WB4792	WestBred	82.2	59.6	32.1	12.6
CP7017AX	CROPLAN	82.0	58.7	30.6	12.4
NHH17612	UNL-Experimental	81.6	59.4	31.4	13.5
Settler CL	NuPride Genetics	80.9	58.4	31.7	13.0
LCS Helix AX	Limagrain Cereal Seeds	80.8	59.2	31.7	12.8
AP Roadrunner	AgriPro	80.7	57.4	31.3	13.3
NHH17450	UNL-Experimental	80.3	58.1	33.7	13.3
MS Maverick	Meridian Seeds	80.1	59.0	31.7	13.2
NE17443	UNL-Experimental	80.0	58.6	31.1	13.4
LCS Valiant	Limagrain Cereal Seeds	80.0	58.2	31.5	14.0
SY Wolverine	AgriPro	79.9	58.4	30.5	13.4
WB4422	WestBred	79.7	58.8	32.2	13.7
WB4418	WestBred	79.6	57.2	30.4	13.3
Robidoux	Husker Genetics	79.5	57.3	32.4	13.6
NE17441	UNL-Experimental	78.6	57.9	30.9	12.9
MS Iceman	Meridian Seeds	78.6	58.7	30.9	13.7
NE16562	UNL-Experimental	78.6	57.0	32.3	12.9
LCS Link	Limagrain Cereal Seeds	78.0	58.4	32.6	13.2
SY Legend	AgriPro	77.9	58.6	30.8	13.7
WB4309	WestBred	77.8	57.9	30.9	13.6
PSB13NEDH-14-83	UNL-Experimental	77.0	57.9	32.7	13.5
Ruth	Husker Genetics	76.8	58.0	33.0	13.2
NW15443	UNL-Experimental	76.7	57.8	33.3	12.8
Wesley	Husker Genetics	76.4	57.1	29.3	13.6
Freeman	Husker Genetics	76.1	56.4	31.8	13.1
Epoch	NuHorizon	75.4	57.7	31.2	13.2
CP7050AX	CROPLAN	73.6	60.0	31.4	13.7
Scout 66	Check	62.5	58.8	36.5	13.4
Turkey	Check	62.3	57.4	37.8	14.4
Average of all entries		78.7	58.3	31.9	13.2
LSD_{0.10}		6.1	0.9	1.3	0.5
Coefficient of variation		4.7	0.9	2.5	2.4

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WEST CENTRAL DRYLAND AVERAGE WHEAT PERFORMANCE

Variety	Brand	Grain Yield (bu/a)	Bushel Weight (lb/bu)	Plant Height (inches)	Grain Protein (%)
Three-year (2020-2022) averages*					
WB4595	WestBred	75.7	59.8	31.8	11.9
WB4792	WestBred	72.9	58.0	31.4	12.3
Settler CL	NuPride Genetics	72.9	57.9	31.2	12.4
AP 18AX	AgriPro	72.6	56.6	32.0	12.3
CP7017AX	CROPLAN	71.9	57.8	29.9	12.1
LCS Valiant	Limagrain Cereal Seeds	71.9	57.6	31.1	13.1
WB4418	WestBred	71.8	56.7	30.1	12.8
NW15443	UNL-Experimental	70.9	57.1	33.1	12.4
LCS Link	Limagrain Cereal Seeds	70.8	58.1	32.2	12.6
SY Wolverine	AgriPro	70.4	58.1	30.2	12.9
Robidoux	Husker Genetics	70.3	56.7	32.2	13.0
Wesley	Husker Genetics	69.3	56.7	29.1	13.1
SY Legend	AgriPro	69.3	57.9	30.2	13.3
Ruth	Husker Genetics	68.2	57.6	32.3	12.7
Freeman	Husker Genetics	67.7	55.7	31.3	12.7
NE16562	UNL-Experimental	66.9	56.3	31.6	12.9
CP7050AX	CROPLAN	65.9	59.2	31.0	13.2
Scout 66	Check	55.9	57.3	36.2	12.9
Turkey	Check	54.9	56.4	37.3	14.0
Average of all entries		69.1	57.5	31.8	12.8
LSD_{0.10}		5.2	0.9	1.1	0.4
Coefficient of variation		4.5	1.0	2.0	2.0

* 2022 Keith, Perkins, Lincoln

* 2021 Red Willow, Perkins, Lincoln

* 2020 Red Willow, Perkins, Lincoln



PANHANDLE (WEST) DRYLAND WHEAT VARIETY TESTS

CHEYENNE, CHEYENNE(IM), KIMBALL, AND BANNER COUNTIES - 2022 (PAGE 1/2)

Variety	Brand	Average 2022 Yield (bu/a) ^[1]	Cheyenne Yield (bu/a)	Cheyenne IM Yield (bu/a)	Kimball Yield (bu/a)	Banner Yield (bu/a)	Bushel Weight (lb/bu)	Plant Height (in)	Seed Weight (1000 seeds/lb)
WB4595	WestBred	41.3	31.8	41.1	56.3	35.9	59.1	25.6	20.8
Whistler	PlainsGold	41.0	28.6	49.0	49.9	36.6	55.5	26.6	22.4
LCS Steel AX	Limagrain Cereal Seeds	40.6	30.5	49.8	45.8	36.5	55.6	25.3	25.6
WB4483	WestBred	39.2	30.6	50.3	40.2	35.6	54.7	24.0	28.3
WB4792	WestBred	38.2	30.2	43.7	44.3	34.5	57.7	25.6	22.9
AP Solid	AgriPro	38.1	29.8	42.0	47.6	33.0	58.4	24.0	22.4
LCS Helix AX	Limagrain Cereal Seeds	36.5	28.1	30.3	55.2	32.5	58.5	24.0	19.5
Fortify SF	PlainsGold	36.3	30.4	36.9	43.3	34.6	57.4	25.1	23.5
AP 18AX	AgriPro	36.2	28.8	35.2	42.4	38.5	56.5	25.7	21.3
Robidoux	Husker Genetics	36.0	25.1	36.8	49.3	32.6	56.7	25.8	21.3
Langin	PlainsGold	35.7	26.2	27.2	56.6	32.6	57.0	24.7	18.0
CPX72166AX	CROPLAN	35.3	23.9	26.9	48.2	42.2	57.1	24.8	21.2
CP7017AX	CROPLAN	34.9	26.7	31.8	47.5	33.8	57.5	23.7	21.2
Spur	AgriPro	34.9	25.6	32.6	49.1	32.2	53.7	25.0	22.7
WB4309	WestBred	34.9	23.9	32.0	53.1	30.4	57.0	24.3	22.8
LCS Runner	Limagrain Cereal Seeds	34.9	27.0	37.1	44.4	30.9	57.2	24.3	23.9
AP Roadrunner	AgriPro	34.6	27.5	34.7	44.3	32.1	54.7	24.4	23.3
NE19619	UNL-Experimental	34.4	24.2	35.5	44.1	33.9	55.3	25.4	21.1
WB4422	WestBred	34.4	24.8	33.9	48.0	31.1	57.5	25.0	20.7
Goodstreak	Husker Genetics	34.3	26.9	36.7	40.9	32.6	57.4	29.4	21.7
NE17544	UNL-Experimental	34.2	26.6	34.4	47.9	27.9	57.0	25.8	22.6
MS Maverick	Meridian Seeds	34.1	27.5	34.6	39.7	34.6	56.7	24.5	19.6
SY Wolverine	AgriPro	34.0	25.0	32.2	46.2	32.6	56.3	23.7	20.0
Epoch	NuHorizon	34.0	26.3	35.5	40.7	33.4	55.2	23.4	23.0
NE17441	UNL-Experimental	34.0	24.3	31.8	47.2	32.6	56.9	24.8	22.2
LCS Photon AX	Limagrain Cereal Seeds	33.9	24.0	31.7	46.3	33.5	58.5	26.0	21.1
NE16562	UNL-Experimental	33.9	25.5	32.7	44.8	32.5	55.2	26.0	21.2
KS Hamilton	Kansas Wheat Alliance	33.7	26.6	30.8	42.1	35.4	57.2	24.8	20.2
WB4418	WestBred	33.5	23.4	23.6	57.2	29.7	55.3	24.2	25.1
Crescent AX	PlainsGold	33.1	24.5	30.7	43.4	34.0	57.8	26.2	18.0
WB4510CLP	WestBred	33.1	22.9	32.8	44.7	32.0	57.4	25.2	22.0
MS Iceman	Meridian Seeds	32.9	26.3	31.7	45.9	27.5	57.0	24.6	21.9
NHH17612	UNL-Experimental	32.7	23.9	31.3	45.8	29.8	57.7	24.8	20.8
NE18573	UNL-Experimental	32.3	25.4	32.7	45.9	25.3	56.2	25.8	21.0
Pronghorn	Husker Genetics	32.2	25.9	28.6	43.1	31.3	57.8	27.1	20.8
NHH17450	UNL-Experimental	31.6	25.9	27.6	43.2	29.7	56.9	26.4	21.4
NI17410	UNL-Experimental	31.6	24.3	30.0	41.5	30.6	56.7	24.0	21.3
WB4462	WestBred	31.5	24.8	20.7	50.2	30.2	56.6	27.9	16.4
Amplify SF	PlainsGold	31.4	26.4	33.9	33.5	32.0	56.7	23.8	20.4

TABLE CONTINUED ON NEXT PAGE

PANHANDLE (WEST) DRYLAND WHEAT VARIETY TESTS

CHEYENNE, CHEYENNE(IM), KIMBALL, AND BANNER COUNTIES - 2022 (PAGE 2/2)

Variety	Brand	Average 2022 Yield (bu/a) ^[1]	Cheyenne Yield (bu/a)	Cheyenne IM Yield (bu/a)	Kimball Yield (bu/a)	Banner Yield (bu/a)	Bushel Weight (lb/bu)	Plant Height (in)	Seed Weight (1000 seeds/lb)
CP7869	CROPLAN	30.8	24.1	23.8	43.3	31.8	55.9	22.3	17.9
NE19590	UNL-Experimental	30.7	20.5	21.9	46.1	34.2	56.1	24.4	21.1
AP Bigfoot	AgriPro	30.4	23.4	24.8	42.0	31.6	56.0	24.0	20.8
Settler CL	NuPride Genetics	30.2	22.4	26.7	41.2	30.5	56.0	24.2	22.2
CP7050AX	CROPLAN	29.9	23.2	17.4	47.9	31.0	57.6	25.5	19.1
LCS Valiant	Limagrain Cereal Seeds	29.8	20.9	22.4	48.6	27.3	56.6	24.9	21.3
LCS Link	Limagrain Cereal Seeds	29.6	24.5	23.7	42.5	27.7	55.6	23.7	22.1
NHH19668	UNL-Experimental	29.5	22.5	25.4	43.5	26.7	54.6	23.2	22.4
SY Legend	AgriPro	29.5	22.1	21.3	42.3	32.1	56.6	24.2	20.9
Ruth	Husker Genetics	29.4	23.6	25.4	39.9	28.6	56.6	25.4	21.8
NW15443	UNL-Experimental	29.4	19.9	27.8	41.1	28.6	53.6	25.3	19.3
Turkey	Check	29.3	22.7	32.3	34.4	27.8	56.0	28.9	22.5
LCS Atomic AX	Limagrain Cereal Seeds	27.0	20.0	15.9	47.9	24.3	55.9	23.4	17.5
Freeman	Husker Genetics	26.7	20.8	17.8	40.7	27.6	54.9	24.4	21.3
Scout 66	Check	26.2	20.3	17.9	37.6	28.8	57.1	28.6	19.7
Wesley	Husker Genetics	25.8	18.8	15.2	40.5	28.5	55.6	22.9	19.5
Average of all entries		33.2	25.1	30.8	45.1	31.7	56.5	25.0	21.3
Standard deviation		3.1	2.0	2.3	5.1	2.5	0.6	0.7	1.2
LSD_{0.10}^[2]		5.1	3.3	3.9	8.5	4.1	1.1	1.2	2.0
Coefficient of variation^[3]		9.3	8.0	7.6	11.3	7.7	1.1	2.9	5.7

There were no significant variety differences in grain protein across Panhandle locations; overall average protein was 16.7%.

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

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

[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.



2022 WHEAT GRAIN YIELD* AT ALL LOCATIONS TESTED (1/2)

Variety	Brand	Saunders	Lancaster	Jefferson	Lincoln	Perkins	Keith	Cheyenne	CheyenneIM	Kimball	Banner
Amplify SF	PlainsGold	.	.	.	.	.	.	26	34	33	32
AP 18AX	AgriPro	.	.	.	67	65	62	29	35	42	38
AP Bigfoot	AgriPro	.	.	95	69	63	65	23	25	42	32
AP Roadrunner	AgriPro	.	.	97	72	59	59	27	35	44	32
AP Solid	AgriPro	.	.	.	.	.	.	30	42	48	33
Canvas	PlainsGold	.	.	.	.	.	.	.	.	.	.
CP7017AX	CROPLAN By WinField United	.	.	108	64	65	72	27	32	47	34
CP7050AX	CROPLAN By WinField United	.	.	96	63	62	59	23	17	48	31
CP7869	CROPLAN By WinField United	.	.	94	71	61	67	24	24	43	32
CPX72166AX	CROPLAN By WinField United	.	.	83	83	65	62	24	27	48	42
Crescent AX	PlainsGold	.	.	.	73	65	63	24	31	43	34
Epoch	NuHorizon	87	75	93	59	52	59	26	35	41	33
Fortify SF	PlainsGold	.	.	.	.	.	.	30	37	43	35
Freeman	Husker Genetics	90	73	87	60	57	64	21	18	41	28
Goodstreak	Husker Genetics	.	.	.	.	.	.	27	37	41	33
High Country	Polansky Seed, Inc.	.	.	.	71	67	79	.	.	.	.
KS Hamilton	Kansas Wheat Alliance	.	.	.	67	62	71	27	31	42	35
Langin	PlainsGold	.	.	.	71	66	78	26	27	57	33
LCS Atomic AX	Limagrain Cereal Seeds	85	70	106	65	64	74	20	16	48	24
LCS Chrome	Limagrain Cereal Seeds	.	.	87	65	60	61	.	.	.	.
LCS Helix AX	Limagrain Cereal Seeds	.	.	.	67	56	62	28	30	55	32
LCS Link	Limagrain Cereal Seeds	.	.	.	68	55	37	25	24	42	28
LCS Photon AX	Limagrain Cereal Seeds	.	.	.	.	.	.	24	32	46	34
LCS Runner	Limagrain Cereal Seeds	.	.	.	74	64	58	27	37	44	31
LCS Steel AX	Limagrain Cereal Seeds	.	.	95	81	66	70	30	50	46	37
LCS Valiant	Limagrain Cereal Seeds	85	66	104	71	60	47	21	22	49	27
Monarch	PlainsGold	.	.	.	.	.	.	.	.	.	.
MS Iceman	Meridian Seeds	.	.	99	62	55	60	26	32	46	27
MS Maverick	Meridian Seeds	.	.	95	70	62	64	28	35	40	35
NE16562	UNL-Experimental	95	79	99	69	62	70	26	33	45	33
NE17441	UNL-Experimental	92	67	98	63	52	58	24	32	47	33
NE17443	UNL-Experimental	.	.	94	69	60	62	.	.	.	.
NE17544	UNL-Experimental	.	.	.	.	.	.	27	34	48	28
NE18435	UNL-Experimental	.	.	.	.	.	.	.	.	.	.
NE18455	UNL-Experimental	91	76	96	.	.	.	.	.	.	.
NE18573	UNL-Experimental	.	.	.	.	.	.	25	33	46	25
NE19590	UNL-Experimental	.	.	.	.	.	.	20	22	46	34
NE19619	UNL-Experimental	.	.	.	.	.	.	24	36	44	34

2022 WHEAT GRAIN YIELD* AT ALL LOCATIONS TESTED (2/2)

Variety	Brand			Jefferson				Cheyenne	CheyenneIM	Kimball	Banner
		Saunders	Lancaster		Lincoln	Perkins	Keith				
NHH17450	UNL-Experimental	80	67	96	69	60	68	26	28	43	30
NHH17612	UNL-Experimental	91	63	94	71	58	57	24	31	46	30
NHH19651	UNL-Experimental	89	73	96	.	.	.	.	.	.	.
NHH19668	UNL-Experimental	.	.	98	67	63	62	22	25	44	27
NI17410	UNL-Experimental	87	71	.	.	.	.	24	30	42	31
NW15443	UNL-Experimental	.	.	.	64	56	47	20	28	41	29
Paradise	Polansky Seed, Inc.	.	.	100	.	.	.	.	.	.	.
Pronghorn	Husker Genetics	.	.	.	.	.	.	26	29	43	31
PSB13NEDH-14-83	UNL-Experimental	.	.	96	71	54	48	.	.	.	.
Robidoux	Husker Genetics	.	.	.	63	65	64	25	37	49	33
Rock Star	Polansky Seed, Inc.	.	.	96	77	56	70	.	.	.	.
Ruth	Husker Genetics	98	83	88	64	58	48	24	25	40	29
Scout 66	Check	69	38	80	59	54	49	20	18	38	29
Settler CL	NuPride Genetics	.	.	.	67	56	64	22	27	41	31
Siege	NuPride Genetics	89	70	98	.	.	.	.	.	.	.
Spur	AgriPro	.	.	.	.	.	.	26	33	49	32
SY Legend CL2	AgriPro	.	.	.	63	61	70	22	21	42	32
SY Wolverine	AgriPro	.	.	98	64	57	75	25	32	46	33
Turkey	Check	65	40	73	55	52	45	23	32	34	28
WB4269	WestBred	83	74	94	.	.	.	.	.	.	.
WB4303	WestBred	.	.	.	.	.	.	.	.	.	.
WB4309	WestBred	.	.	.	64	65	56	24	32	53	30
WB4401	WestBred	88	87	101	.	.	.	.	.	.	.
WB4418	WestBred	.	.	.	68	58	61	23	24	57	30
WB4422	WestBred	.	.	.	72	67	48	25	34	48	31
WB4462	WestBred	.	.	.	.	.	.	25	21	50	30
WB4483	WestBred	.	.	.	.	.	.	31	50	40	36
WB4510CLP	WestBred	.	.	.	64	56	56	23	33	45	32
WB4523	WestBred	83	85	92	.	.	.	.	.	.	.
WB4595	WestBred	.	.	.	72	59	59	32	41	56	36
WB4699	WestBred	91	78	99	.	.	.	.	.	.	.
WB4792	WestBred	.	.	.	64	59	61	30	44	44	34
Wesley	Husker Genetics	86	65	93	57	53	59	19	15	41	29
Whistler	PlainsGold	.	.	.	.	.	.	29	49	50	37
Average of all entries		86	70	95	67	58	61	25	31	45	32

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

2022 WHEAT GRAIN PROTEIN* AT ALL LOCATIONS TESTED (1/2)

Variety	Brand	Saunders	Lancaster	Jefferson	Lincoln	Perkins	Keith	Cheyenne	CheyenneIM	Kimball	Banner
Amplify SF	PlainsGold	.	.	.	.	.	.	17.0	15.9	12.3	16.9
AP 18AX	AgriPro	.	.	.	10.6	14.4	15.0	16.2	.	11.6	15.2
AP Bigfoot	AgriPro	.	.	13.1	11.6	15.1	15.2	17.2	15.6	12.9	16.5
AP Roadrunner	AgriPro	.	.	13.5	12.0	15.2	15.8	17.3	17.2	14.1	17.2
AP Solid	AgriPro	.	.	.	.	.	.	16.5	16.9	11.8	16.6
Canvas	PlainsGold	.	.	.	.	.	.	.	.	.	.
CP7017AX	CROPLAN By WinField United	.	.	13.0	11.3	13.7	14.4	15.7	16.4	12.3	15.7
CP7050AX	CROPLAN By WinField United	.	.	14.6	11.7	15.0	15.0	17.4	16.1	14.6	16.5
CP7869	CROPLAN By WinField United	.	.	12.6	10.7	14.8	16.1	17.0	18.1	15.1	17.6
CPX72166AX	CROPLAN By WinField United	.	.	13.2	12.0	13.7	14.3	16.0	17.6	10.2	14.8
Crescent AX	PlainsGold	.	.	.	11.2	13.9	14.5	16.5	16.1	11.8	15.3
Epoch	NuHorizon	13.0	13.2	13.5	11.6	15.5	16.0	16.8	16.6	12.0	16.5
Fortify SF	PlainsGold	.	.	.	.	.	.	15.5	16.6	12.3	16.0
Freeman	Husker Genetics	12.9	13.8	13.4	12.0	14.9	14.7	17.2	15.9	15.1	16.9
Goodstreak	Husker Genetics	.	.	.	.	.	.	17.5	17.6	11.1	17.5
High Country	Polansky Seed, Inc.	.	.	.	11.5	13.5	13.1	.	.	.	.
KS Hamilton	Kansas Wheat Alliance	.	.	.	12.0	14.1	14.4	17.0	17.5	12.1	15.9
Langin	PlainsGold	.	.	.	11.0	13.9	14.7	16.2	18.2	11.0	15.4
LCS Atomic AX	Limagrain Cereal Seeds	13.1	13.2	12.7	12.2	13.9	13.4	16.8	16.9	11.9	16.0
LCS Chrome	Limagrain Cereal Seeds	.	.	14.5	13.1	15.4	16.0	.	.	.	.
LCS Helix AX	Limagrain Cereal Seeds	.	.	.	11.6	14.3	14.6	15.8	17.5	12.0	16.0
LCS Link	Limagrain Cereal Seeds	.	.	.	12.0	14.9	17.0	17.1	16.7	11.6	17.6
LCS Photon AX	Limagrain Cereal Seeds	.	.	.	.	.	.	16.5	17.6	12.8	15.9
LCS Runner	Limagrain Cereal Seeds	.	.	.	10.6	13.8	15.4	16.2	16.7	14.5	15.8
LCS Steel AX	Limagrain Cereal Seeds	.	.	13.2	11.0	14.5	15.0	15.4	16.0	9.8	16.1
LCS Valiant	Limagrain Cereal Seeds	14.1	15.1	13.5	12.7	14.9	17.8	18.2	14.3	10.6	17.2
Monarch	PlainsGold	.	.	.	.	.	.	.	.	.	.
MS Iceman	Meridian Seeds	.	.	14.2	12.3	16.1	16.3	17.8	16.3	12.1	17.1
MS Maverick	Meridian Seeds	.	.	13.9	11.8	14.5	16.0	16.7	17.7	14.8	16.3
NE16562	UNL-Experimental	13.0	13.5	13.0	11.4	15.1	14.5	17.7	17.2	15.5	16.9
NE17441	UNL-Experimental	13.5	13.8	13.5	11.6	14.7	15.1	16.7	16.6	12.8	16.3
NE17443	UNL-Experimental	.	.	13.4	12.3	14.4	15.6	.	.	.	.
NE17544	UNL-Experimental	.	.	.	.	.	.	16.7	16.4	12.4	17.9
NE18435	UNL-Experimental	.	.	.	.	.	.	.	.	.	.
NE18455	UNL-Experimental	12.6	13.1	12.6	.	.	.	.	.	.	.
NE18573	UNL-Experimental	.	.	.	.	.	.	17.1	16.9	12.9	16.9
NE19590	UNL-Experimental	.	.	.	.	.	.	16.3	16.8	13.1	15.4
NE19619	UNL-Experimental	.	.	.	.	.	.	17.2	16.1	10.7	17.5

2022 WHEAT GRAIN PROTEIN* AT ALL LOCATIONS TESTED (2/2)

Variety	Brand										
		Saunders	Lancaster	Jefferson	Lincoln	Perkins	Keith	Cheyenne	CheyenneIM	Kimball	Banner
NHH17450	UNL-Experimental	13.3	14.2	13.5	12.0	15.0	14.7	16.5	17.2	12.9	16.8
NHH17612	UNL-Experimental	13.1	14.4	13.9	12.3	15.1	15.6	16.3	16.7	10.8	16.4
NHH19651	UNL-Experimental	13.3	13.8	13.5	.	.	.	.	.	.	.
NHH19668	UNL-Experimental	.	.	13.1	12.8	14.9	14.6	17.9	16.4	13.1	17.4
NI17410	UNL-Experimental	13.4	13.4	.	.	.	.	17.1	18.0	12.0	16.4
NW15443	UNL-Experimental	.	.	.	11.1	14.9	15.4	17.0	16.4	12.2	17.3
Paradise	Polansky Seed, Inc.	.	.	13.5	.	.	.	.	.	.	.
Pronghorn	Husker Genetics	.	.	.	.	.	.	16.7	16.6	12.3	17.1
PSB13NEDH-14-83	UNL-Experimental	.	.	13.6	12.0	15.7	17.4	.	.	.	.
Robidoux	Husker Genetics	.	.	.	12.3	15.2	15.6	17.0	17.2	12.8	16.9
Rock Star	Polansky Seed, Inc.	.	.	14.5	12.3	16.0	15.8	.	.	.	.
Ruth	Husker Genetics	12.7	13.0	13.8	11.8	15.1	16.3	17.1	17.2	15.5	16.8
Scout 66	Check	14.8	14.9	13.7	11.4	14.5	14.8	17.0	17.2	13.1	16.1
Settler CL	NuPride Genetics	.	.	.	12.0	14.7	15.1	16.5	17.2	11.6	16.4
Siege	NuPride Genetics	13.5	14.1	13.8	.	.	.	.	.	.	.
Spur	AgriPro	.	.	.	.	.	.	16.7	16.2	13.5	17.8
SY Legend CL2	AgriPro	.	.	.	12.6	15.2	15.6	17.4	17.0	11.5	17.0
SY Wolverine	AgriPro	.	.	13.1	12.2	14.9	15.6	17.9	17.6	12.7	16.7
Turkey	Check	15.3	16.0	14.9	12.4	16.1	16.9	17.1	16.7	10.7	17.5
WB4269	WestBred	12.5	12.5	12.7	.	.	.	.	.	.	.
WB4303	WestBred	.	.	.	.	.	.	.	.	.	.
WB4309	WestBred	.	.	.	12.6	15.2	15.2	18.2	16.6	11.3	17.4
WB4401	WestBred	12.3	12.5	12.7	.	.	.	.	.	.	.
WB4418	WestBred	.	.	.	12.1	14.4	15.6	17.0	18.3	12.6	16.4
WB4422	WestBred	.	.	.	10.9	15.2	17.5	17.0	16.5	13.7	17.3
WB4462	WestBred	.	.	.	.	.	.	17.2	16.8	14.8	16.3
WB4483	WestBred	.	.	.	.	.	.	17.4	17.3	11.3	18.7
WB4510CLP	WestBred	.	.	.	11.8	14.9	15.9	16.9	15.7	12.1	16.3
WB4523	WestBred	12.6	12.2	12.8	.	.	.	.	.	.	.
WB4595	WestBred	.	.	.	10.7	14.3	15.5	14.9	16.5	11.5	15.3
WB4699	WestBred	12.2	12.3	12.2	.	.	.	.	.	.	.
WB4792	WestBred	.	.	.	11.3	14.5	15.0	15.3	15.4	12.3	16.1
Wesley	Husker Genetics	13.9	14.2	14.3	12.0	15.9	16.3	17.8	14.9	15.1	17.8
Whistler	PlainsGold	.	.	.	.	.	.	16.0	18.5	12.4	15.6

Average of all entries **13.3 13.7 13.5 11.8 14.8 15.4 16.8 16.8 12.6 16.6**

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

2022 WHEAT BUSHEL WEIGHT AT ALL LOCATIONS TESTED (1/2)

Variety	Brand	Saunders	Lancaster	Jefferson	Lincoln	Perkins	Keith	Cheyenne	CheyenneIM	Kimball	Banner
Amplify SF	PlainsGold	.	.	.	.	.	.	55	57	58	56
AP 18AX	AgriPro	.	.	.	57	57	57	54	57	59	57
AP Bigfoot	AgriPro	.	.	59	58	58	59	53	56	60	55
AP Roadrunner	AgriPro	.	.	59	58	58	57	52	55	58	54
AP Solid	AgriPro	.	.	.	.	.	.	56	58	62	57
Canvas	PlainsGold	.	.	.	.	.	.	.	.	.	.
CP7017AX	CROPLAN By WinField United	.	.	59	58	59	60	56	57	60	57
CP7050AX	CROPLAN By WinField United	.	.	61	60	60	59	56	57	62	56
CP7869	CROPLAN By WinField United	.	.	59	59	58	58	54	56	59	55
CPX72166AX	CROPLAN By WinField United	.	.	59	58	58	57	55	56	60	58
Crescent AX	PlainsGold	.	.	.	59	59	58	56	58	60	57
Epoch	NuHorizon	58	55	59	58	57	57	52	55	59	55
Fortify SF	PlainsGold	.	.	.	.	.	.	55	56	61	57
Freeman	Husker Genetics	57	54	57	57	57	57	53	55	58	53
Goodstreak	Husker Genetics	.	.	.	.	.	.	55	58	60	56
High Country	Polansky Seed, Inc.	.	.	.	58	59	59	.	.	.	.
KS Hamilton	Kansas Wheat Alliance	.	.	.	60	58	59	55	58	60	55
Langin	PlainsGold	.	.	.	58	57	58	55	57	61	56
LCS Atomic AX	Limagrain Cereal Seeds	60	58	60	59	58	59	56	52	62	54
LCS Chrome	Limagrain Cereal Seeds	.	.	59	59	58	59	.	.	.	.
LCS Helix AX	Limagrain Cereal Seeds	.	.	.	60	60	59	57	59	62	56
LCS Link	Limagrain Cereal Seeds	.	.	.	60	58	55	54	56	59	53
LCS Photon AX	Limagrain Cereal Seeds	.	.	.	.	.	.	57	58	62	57
LCS Runner	Limagrain Cereal Seeds	.	.	.	59	60	58	56	57	60	55
LCS Steel AX	Limagrain Cereal Seeds	.	.	58	59	57	58	53	55	59	55
LCS Valiant	Limagrain Cereal Seeds	61	55	60	59	58	56	56	56	61	54
Monarch	PlainsGold	.	.	.	.	.	.	.	.	.	.
MS Iceman	Meridian Seeds	.	.	61	59	59	59	56	58	60	54
MS Maverick	Meridian Seeds	.	.	59	60	59	58	55	57	59	56
NE16562	UNL-Experimental	59	55	59	58	57	58	53	55	58	55
NE17441	UNL-Experimental	61	58	60	59	58	59	53	57	61	56
NE17443	UNL-Experimental	.	.	58	59	58	58	.	.	.	.
NE17544	UNL-Experimental	.	.	.	.	.	.	55	56	61	55
NE18435	UNL-Experimental	.	.	.	.	.	.	.	.	.	.
NE18455	UNL-Experimental	59	56	59	.	.	.	.	.	.	.
NE18573	UNL-Experimental	.	.	.	.	.	.	52	57	59	57
NE19590	UNL-Experimental	.	.	.	.	.	.	53	55	60	56
NE19619	UNL-Experimental	.	.	.	.	.	.	53	55	60	54

2022 WHEAT BUSHEL WEIGHT AT ALL LOCATIONS TESTED (2/2)

Variety	Brand										
		Saunders	Lancaster	Jefferson	Lincoln	Perkins	Keith	Cheyenne	CheyenneIM	Kimball	Banner
NHH17450	UNL-Experimental	58	55	59	59	58	58	55	57	60	56
NHH17612	UNL-Experimental	60	56	59	60	59	58	56	58	60	56
NHH19651	UNL-Experimental	58	54	59	.	.	.	.	.	.	.
NHH19668	UNL-Experimental	.	.	59	59	58	58	52	54	59	54
NI17410	UNL-Experimental	60	59	.	.	.	.	54	57	60	56
NW15443	UNL-Experimental	.	.	.	59	57	56	50	54	57	54
Paradise	Polansky Seed, Inc.	.	.	60	.	.	.	.	.	.	.
Pronghorn	Husker Genetics	.	.	.	.	.	.	55	58	62	57
PSB13NEDH-14-83	UNL-Experimental	.	.	59	59	59	56	.	.	.	.
Robidoux	Husker Genetics	.	.	.	59	57	58	56	57	59	55
Rock Star	Polansky Seed, Inc.	.	.	58	59	58	59	.	.	.	.
Ruth	Husker Genetics	60	58	58	58	58	57	56	57	60	54
Scout 66	Check	58	56	60	59	60	58	56	57	60	55
Settler CL	NuPride Genetics	.	.	.	59	58	59	54	56	58	55
Siege	NuPride Genetics	60	56	60	.	.	.	.	.	.	.
Spur	AgriPro	.	.	.	.	.	.	51	52	58	53
SY Legend CL2	AgriPro	.	.	.	60	59	58	54	58	60	55
SY Wolverine	AgriPro	.	.	58	58	58	59	53	57	59	55
Turkey	Check	59	55	59	58	57	56	54	56	59	54
WB4269	WestBred	59	57	59	.	.	.	.	.	.	.
WB4303	WestBred	.	.	.	.	.	.	.	.	.	.
WB4309	WestBred	.	.	.	59	58	57	55	57	61	56
WB4401	WestBred	59	57	59	.	.	.	.	.	.	.
WB4418	WestBred	.	.	.	58	57	57	52	55	60	53
WB4422	WestBred	.	.	.	61	60	56	55	58	60	57
WB4462	WestBred	.	.	.	.	.	.	54	56	60	56
WB4483	WestBred	.	.	.	.	.	.	53	55	58	53
WB4510CLP	WestBred	.	.	.	61	60	59	.	59	61	55
WB4523	WestBred	57	54	57	.	.	.	.	.	.	.
WB4595	WestBred	.	.	.	62	62	58	58	59	61	58
WB4699	WestBred	58	54	59	.	.	.	.	.	.	.
WB4792	WestBred	.	.	.	62	61	58	57	58	60	56
Wesley	Husker Genetics	58	55	58	58	56	57	54	56	59	54
Whistler	PlainsGold	.	.	.	.	.	.	54	56	58	54
Average of all entries		59	56	59	59	58	58	54	57	60	55

CHEYENNE COUNTY SAWFLY RATINGS WINTER WHEAT VARIETY TRIAL - 2022

Variety	Brand	2022 Sawfly Rating [1] (1=no damage, 9=plot killed)	Two-year Sawfly Rating 2021- 2022	Three-year Sawfly Rating 2020-2022	2022 Freeze Damage [2] (1=no damage, 9=plot killed)
Wesley	Husker Genetics	4.2	3.9	3.1	6.1
Amplify SF	PlainsGold	4.9	.	.	5.4
Freeman	Husker Genetics	4.9	4.3	3.7	7.6
Fortify SF	PlainsGold	4.9	4.3	3.2	5.1
LCS Atomic AX	Limagrain Cereal Seeds	4.9	5.3	.	7.1
AP Solid	AgriPro	5.0	3.8	.	4.4
CP7050AX	CROPLAN	5.0	5.0	4.1	6.6
WB4422	WestBred	5.2	.	.	5.2
Spur	AgriPro	5.3	4.2	3.4	5.1
SY Legend	AgriPro	5.3	4.5	4.5	7.4
LCS Helix AX	Limagrain Cereal Seeds	5.4	4.6	.	5.5
Epoch	NuHorizon	5.4	.	.	5.5
KS Hamilton	Kansas Wheat Alliance	5.4	4.5	.	6.7
LCS Runner	Limagrain Cereal Seeds	5.5	.	.	5.6
WB4595	WestBred	5.5	5.0	4.2	5.3
WB4309	WestBred	5.5	4.7	.	5.3
WB4792	WestBred	5.5	4.7	3.7	4.9
NE16562	UNL-Experimental	5.6	.	4.9	6.6
SY Wolverine	AgriPro	5.7	5.4	5.5	4.8
NE19590	UNL-Experimental	5.7	.	.	6.3
WB4483	WestBred	5.7	4.6	.	3.4
CP7017AX	CROPLAN	5.7	5.1	5.0	5.4
AP Roadrunner	AgriPro	5.7	5.3	.	5.0
CP7869	CROPLAN	5.7	.	.	5.9
LCS Link	Limagrain Cereal Seeds	5.7	5.0	5.0	5.7
WB4462	WestBred	5.8	5.1	4.6	6.0
NI17410	UNL-Experimental	5.8	.	.	6.3
WB4418	WestBred	5.8	4.4	4.4	5.9
CPX72166AX	CROPLAN	5.8	.	.	5.3
NE17544	UNL-Experimental	5.8	5.2	.	4.9
NE18573	UNL-Experimental	5.9	.	.	5.5
Crescent AX	PlainsGold	6.0	5.5	5.0	5.3
Ruth	Husker Genetics	6.0	4.7	4.3	4.7
NW15443	UNL-Experimental	6.0	.	5.0	6.5
MS Maverick	Meridian Seeds	6.0	5.4	.	4.6
Settler CL	Husker Genetics	6.0	5.1	4.5	5.5
Langin	PlainsGold	6.1	.	4.9	6.4

TABLE CONTINUED ON NEXT PAGE

CHEYENNE COUNTY SAWFLY RATINGS WINTER WHEAT VARIETY TRIAL - 2022 (continued)

Variety	Brand	2022 Sawfly Rating [1] (1=no damage, 9=plot killed)	Two-year Sawfly Rating 2021- 2022	Three-year Sawfly Rating 2020-2022	2022 Freeze Damage [2] (1=no damage, 9=plot killed)
NHH17612	UNL-Experimental	6.1	5.6	.	4.9
LCS Steel AX	Limagrain Cereal Seeds	6.1	.	.	3.4
LCS Valiant	Limagrain Cereal Seeds	6.2	5.9	5.5	5.9
AP 18AX	AgriPro	6.2	5.3	5.1	5.1
NE17441	UNL-Experimental	6.2	5.5	.	6.1
Pronghorn	Husker Genetics	6.3	5.3	4.8	4.4
LCS Photon AX	Limagrain Cereal Seeds	6.3	5.4	.	6.0
NE19619	UNL-Experimental	6.4	.	.	4.9
MS Iceman	Meridian Seeds	6.4	5.4	.	5.2
NHH17450	UNL-Experimental	6.4	6.0	.	5.4
Goodstreak	Husker Genetics	6.4	5.9	5.1	3.8
NHH19668	UNL-Experimental	6.4	.	.	6.3
Robidoux	Husker Genetics	6.4	6.0	5.4	4.7
Scout 66	Check	6.5	6.1	5.9	6.0
AP Bigfoot	AgriPro	6.6	5.6	.	4.7
Whistler	PlainsGold	6.8	5.8	5.1	4.0
Turkey	Check	6.9	6.0	5.0	4.5
WB4510CLP	WestBred	7.0	.	.	4.5
Average of all entries		5.8	5.1	4.6	5.4
Standard deviation		0.6	0.6	0.7	0.9

[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.

[2] Freeze damage rated about 1 month after the hard freezes at the end of May. A rating of 1 indicates little to no damage while 9 is severe and all of plot anticipated to be lost..



2022 WINTER TRITICALE VARIETY TRIALS MEAD, LINCOLN, AND SIDNEY, NE

Entry Name	Grain Yield (lbs/a)			Flowering Date (Julian date)		Plant Height (in)	
	Average	Mead	Sidney	Lincoln	Mead	Lincoln	Mead
NT21436	4942	5094	4789	146.0	148.6	47.0	50.2
NT21431	4702	4833	4571	143.1	146.7	45.2	48.6
NT19443	4699	4943	4454	145.2	148.3	42.6	46.7
NT21406	4679	4407	4951	142.7	146.4	44.2	46.5
NT20427	4638	4930	4346	143.1	146.6	46.4	46.9
NT17441	4459	4774	4144	145.9	148.4	48.9	51.7
NT12404-1	4451	4290	4611	142.8	146.4	43.9	44.5
NT17442	4295	4441	4148	145.9	148.7	49.3	51.6
NT21409	4275	4597	3952	141.9	145.6	41.4	44.8
NT20401	4215	4676	3753	142.0	145.4	40.1	41.5
NT20409	4214	4411	4016	142.5	146.5	44.2	47.0
NT21414	4176	4726	3626	141.4	145.1	37.0	38.6
NT20429	4174	4260	4087	143.6	147.2	44.8	44.0
NT441	4167	4077	4256	145.8	148.8	49.5	52.4
NE03T416-1	4091	3994	4187	143.6	147.8	40.5	41.2
NT19441	4072	4333	3810	144.3	147.4	46.1	51.6
NT21424	4072	4333	3811	145.2	148.0	41.1	42.5
NT14407	4054	4218	3889	143.5	146.7	44.6	47.0
NT21440	4045	4135	3954	143.9	147.1	45.3	49.2
OVERLAND	4038	3979	4097	145.0	148.0	37.6	45.1
NT21419	4038	4085	3991	144.1	147.6	43.2	45.8
NT21425	4028	4138	3917	143.1	148.0	45.3	47.8
NT19410	3974	4293	3654	145.0	147.7	43.8	46.5
NT21443	3826	3965	3686	142.1	146.1	38.3	42.6
NE03T416-3	3748	4516	2979	144.2	147.6	40.9	43.6
NT20432	3746	4236	3255	143.9	147.2	42.3	44.0
NT20403	3700	4307	3092	142.3	145.6	39.1	39.6
NT20417	3545	4081	3008	142.7	146.1	44.1	46.3
NT14433	3524	3816	3231	145.0	147.3	49.2	53.0
NT13443	2473	2138	2807	144.4	147.7	47.6	49.5
Average all entries[1]	4102	4301	3902	143.8	147.1	43.8	46.3
Least Significant Difference (5%)[2]	.	520	609	0.7	1.1	4.3	2.4
CV[3]	.	8.8	9.1	0.3	0.4	5.0	3.8

[1] Mean performance of all entries in the trial.

[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.

2022 WINTER BARLEY VARIETY TRIALS LINCOLN, MEAD, SIDNEY, NE, HAYES, KS

Entry Name	Yield (lbs/a)				Flowering Date (Julian date)		Plant Height (in)		Winter Survival (0-100%)	
	Average	Lincoln	Mead	Sidney	Lincoln	Mead	Lincoln	Mead	Mead, NE	Hayes, KS
NB19406	2935	3410	2396	2998	25.6	25.7	139.9	146.0	90.2	60.1
NB17401	2928	3501	2482	2802	30.6	30.7	143.2	145.0	90.0	86.8
NB19420	2901	3193	2850	2661	26.8	26.3	144.6	149.6	99.6	65.7
NB21415	2891	3296	2142	3235	25.9	25.3	141.6	149.6	99.5	57.0
NB11414	2875	3085	2665	.	25.1	25.0	144.7	146.3	99.8	56.9
NB17431	2858	2894	2339	3341	29.8	30.7	142.6	145.7	93.4	53.7
P-954	2793	2469	2486	3424	24.4	24.0	142.4	146.0	100.0	70.2
NB18429	2789	2955	2205	3206	27.1	26.0	144.8	145.4	96.6	72.7
NB17411	2785	2835	2397	3122	29.6	28.0	144.0	144.7	100.3	81.2
NB21418	2753	2627	2165	3466	27.5	27.3	144.2	149.7	100.2	57.8
NB14404	2747	3152	2506	2582	26.9	27.0	141.6	146.0	99.8	65.6
NB20421	2735	3136	2369	2699	27.4	24.0	141.3	147.0	100.0	58.6
NB20435	2703	3127	2665	2317	27.5	26.3	140.7	146.0	100.1	62.4
NB19422	2674	3005	2139	2879	25.4	24.0	141.6	146.0	96.9	63.0
NB18406	2671	2436	2538	3039	28.5	28.3	143.8	145.0	96.5	64.1
NB20420	2670	2821	2828	2360	25.7	24.7	140.7	144.4	100.0	74.3
NB21442	2656	2957	2371	2640	27.2	27.3	141.9	146.0	99.9	43.3
NB21411	2630	3089	2043	2759	25.9	24.7	139.5	146.7	99.8	53.9
NB14422	2555	2706	2235	2724	24.1	23.7	141.9	145.7	96.9	54.6
NB21211	2533	3131	2122	2347	27.3	27.0	142.2	148.3	100.1	46.1
NB21416	2511	2667	2234	2632	27.6	24.7	139.2	147.0	100.1	46.6
NB20419	2500	3216	2255	2029	26.4	24.0	139.9	145.3	100.2	51.7
NB21414	2463	2540	2158	2692	23.8	22.3	141.0	146.3	100.1	56.8
NB11416	2456	2786	2125	.	25.7	24.7	140.3	146.0	96.7	52.7
NB21428	2426	2856	2136	2287	24.6	24.3	141.8	146.7	96.6	54.5
NB21423	2388	2566	2612	1986	27.7	28.3	139.7	146.0	93.1	64.7
NB21412	2383	2620	2079	2449	24.0	25.0	140.1	146.0	96.5	62.3
NB21427	2380	2830	2130	2181	23.2	23.7	140.8	146.0	100.2	59.8
NB20409	2365	2998	2412	1686	26.0	25.3	139.2	146.0	99.9	67.7
NB21212	2331	2638	2290	2066	25.7	25.0	141.0	146.4	93.1	44.3
NB20439	2281	2351	2443	2048	26.5	25.3	141.3	146.0	100.3	62.4
NB20403	2243	2800	1466	2462	23.6	23.7	139.8	145.6	99.9	58.0
NB18411	2201	2755	2299	1549	24.7	22.7	139.1	146.0	100.1	52.0
NB21405	2201	2634	2250	1718	25.7	23.3	141.4	146.3	93.2	46.6
NB99845	2198	2516	2162	1916	26.4	25.3	141.5	146.6	90.2	63.9
NB21410	2194	2633	2280	1670	25.9	24.3	139.5	146.3	93.6	65.3
NB20408	2131	2562	1795	2035	24.3	24.0	139.3	146.7	83.1	64.9
NB21404	2047	2168	1965	2008	22.4	23.3	142.1	145.4	93.4	52.8
NB21429	2032	2562	1969	1565	26.7	25.0	138.9	146.3	99.9	29.4
NB21214	2014	2111	1888	2042	31.7	30.3	143.9	145.6	100.2	55.5
Average of all entries	2521	2816	2272	2338	26.3	25.5	141.4	146.3	97.3	59.0
LSD (5%)	.	503	516	541	2.3	2.1	2.0	1.0	7.7	8.8
CV	.	13.1	16.6	17.0	6.4	6.0	1.1	0.5	5.8	10.9



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