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Wisconsin Winter Wheat Performance Trials 2022

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The Wisconsin Winter Wheat Performance Trials are conducted each year to give growers information to select the best-performing varieties that will satisfy their specific goals. The performance trials are conducted each year at four locations in Wisconsin: Arlington, Chilton, Fond du Lac, and Waterloo. Trials include released varieties, experimental lines from university breeding programs and lines from private seed companies. The primary objective of these trials is to quantify how varieties perform at different locations and across years. Growers can use this data to help select which varieties to plant; breeders can use performance data to determine whether to release a new variety.

● Chilton

Cooperator: Kolbe Seed Farms
Kewaunee loam
7.5 inch row spacing
Applied 55 lb N/a
Planted: September 24, 2021
Harvested: July 21, 2022

▲ Fond du Lac

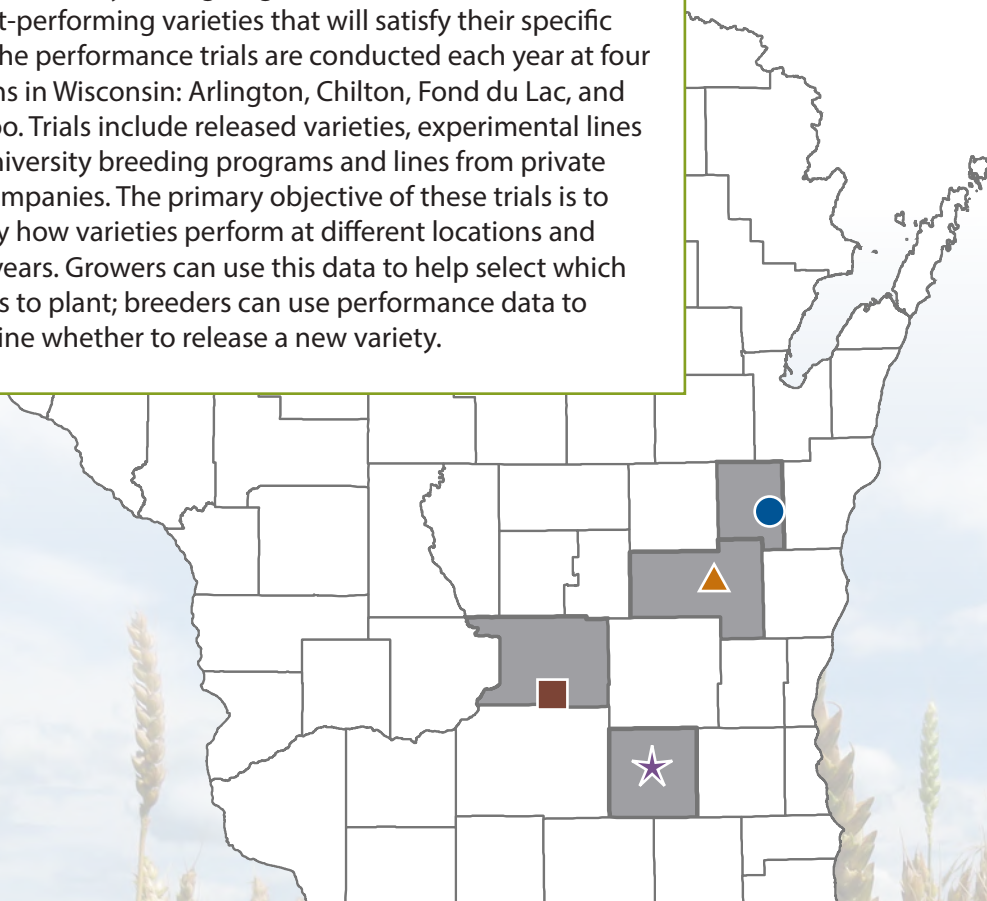
Cooperator: Ed Montsma
Lomira silt loam
7.5 inch row spacing
Applied 55 lb N/a
Planted: September 24, 2021
Harvested: July 22, 2022

■ Arlington

Cooperator: Mike Bertram
Plano silt loam
7.5 inch row spacing
Applied 55 lb N/a
Planted: September 28, 2021
Harvested: July 29, 2022

★ Waterloo

Cooperator: Larry Holzhueter
Juneau silt loam
7.5 inch row spacing
Applied 55 lb N/a
Planted: September 23, 2021
Harvested: July 20, 2022



Acres and Growing Conditions

Wisconsin saw a 3.5% increase in winter wheat acres planted (300,000) in the 2021-2022 growing season compared to the previous year; 260,000 acres are forecasted to be harvested for grain, compared to 245,000 in 2021. The forecasted yield for the 2022 crop is 76 bu/a, up 1 bu/a from 2021. Wheat acres were generally planted on time with corn and soybean harvest progressing earlier than average. Mild winter conditions and adequate snowfall resulted in good winter survival. Wheat broke dormancy in early April and crop development was normal due to near normal precipitation and GDU accumulation. In general, the crop was relatively short in stature.

Overall, winter wheat yield and test weights were average in 2022. Wheat yields at the Arlington, Chilton, Fond du Lac and Waterloo locations averaged 100, 115, 110, and 102 bu/a, respectively.

* Source: USDA National Agricultural Statistics Service (www.nass.usda.gov)

Diseases

Statewide, winter wheat disease pressure was reasonably low again this year. The dry weather during much of the stem elongation and flag leaf emergence stages, meant that foliar disease pressure was reasonably low in Wisconsin. Some tan spot and Septoria leaf blotch could be found on some susceptible varieties, but these diseases were not yield limiting in 2022.

Stripe rust was not found at any location this year. Again, the dry weather mid-season kept this disease in check. Rusts in general were non-existent in the trials in 2022.

Fusarium head blight (FHB) caused by *Fusarium graminearum* was observed at all locations. Warm and wet weather did prevail in much of the state during the anthesis timing. This meant that FHB pressure was moderate for the Arlington, Fond du Lac, and Waterloo locations and lower at the Chilton location. On susceptible varieties and certain locations FHB was yield limiting in 2022.

Using Data to Select Top-Yielding Varieties

As with any crop, variety selection is the most important factor to consider in maximizing winter wheat yield and profitability. When choosing a winter wheat variety, several factors must be considered. These include winter survival, insect and disease resistance, heading date, lodging, test weight and most importantly, yield. Since no variety is ideal for every location, it is important to understand the crop environment and pest complex that affects your specific region to maximize yield.

- **Yield** is based on the genetic potential and environmental conditions in which the crop is grown. Therefore, by diversifying the genetic pool that is planted, a grower can hedge against crop failure. Select those varieties that perform well not only in your area but also across experimental sites and years. This will increase the likelihood that, given next year's environment (which you cannot control), the variety you selected will perform well. ([Table 3](#) gives an overview of yields across all locations.)
- **Test weight** is also an important factor to consider when selecting a variety. The minimum test weight to be considered a U.S. #2 soft red winter wheat is 58 lb./bu. Wheat at lower test weights will be discounted. [Both environment and pests](#) may greatly affect test weight; therefore, selecting a variety that has a high test weight potential in your region is critical to maximizing economic gain.
- Select a variety that has the **specific disease resistance** characteristics that fit your cropping needs. By selecting varieties with the appropriate level of resistance, crop yield loss may be either reduced or avoided without the need for pesticides. Careful management of resistant cultivars through crop and variety rotation are required to ensure that these characteristics are not lost.
- **Plant height and lodging potential** are also important varietal characteristics that may be affected by your cropping system. If the wheat crop is intended for grain only, it may be important to select a variety that is short in stature and has a low potential for lodging. This may decrease yield loss due to crop spoilage and harvest loss as well as increase harvesting rate. However, if the wheat crop is to be used as silage or is to be harvested as both grain and straw, then selecting a taller variety may be warranted.

At Planting

Site details: Summarized on page 3.

Seedbed preparation: Conventional and no-till methods.

Seeding rate: 1.75 million seeds per acre.

Seed treatments: Identified in Table 2.

Fertilizer and herbicides: Nitrogen was applied in spring according to [UWEX recommendations](#). Phosphorus and potassium were applied as indicated by soil tests. Herbicides were applied for weed control as necessary.

Planting: A grain drill with a 9 row cone seeder was used to plant the plots, all 25 feet in length. To account for field variability and for statistical analysis, each variety was grown in four separate plots (replicates) in a randomized complete block design at each location.

Midseason

Disease assessments: Foliar disease assessments were made at all trial locations during June at Feekes 10.0 (emerging heads). Assessments were made in the field by visual estimation of incidence (number of plants with symptoms) and average severity (magnitude of damage on plants with symptoms) across the plot using pre-made rating scale diagrams generated using the Severity Pro software (F. Nutter, Iowa State University). Fusarium head blight assessments were made two weeks after the completion of anthesis at all trial locations. Entire plots were visually assessed for Fusarium head blight incidence and severity using pre-made rating scale diagrams.

Harvest

Yield: The center seven rows of each plot were harvested with a self-propelled combine. Grain was weighed and moisture and test weight were determined in the field using electronic equipment on the plot harvester. Yield is reported as bu/a (60 lb/bu) at 13.5% moisture content.

Lodging: Lodging scores were based on the average erectness of the main stem of plants at maturity. 1 = all plants erect, 2 = slight lodging, 3 = plants lodged at 45° angle, 4 = severe lodging, 5 = all plants flat.

Data Presentation

Yield: Listed in Tables 3-7. Data for both 2021 and 2022 are provided if the variety was entered in the 2021 trials.

Least significant difference: Variations in yield and other characteristics occur because of variability in soil and other growing conditions that lower the precision of the results. Statistical analysis makes it possible to determine, with known probabilities of error, whether a difference is real or whether it may have occurred by chance.

Growers can use the appropriate least significant difference (LSD) value at the bottom of the tables to determine true statistical differences. Where the difference between two selected varieties within a column is equal to or greater than the LSD value at the bottom of the column, there is a real difference between the two varieties in nine out of ten instances. If the difference is less than the LSD value, there may still be a real difference, but the experiment has produced no evidence of it. Data that is not significant is indicated by NS.

If an entrant is not listed for a brand, the entry was submitted either by the listed company or by the testing program.

The Wisconsin Winter Wheat Performance Trials were conducted by the Departments of Agronomy and Plant Pathology, College of Agricultural and Life Sciences and the University of Wisconsin-Extension.

Additional Information

Check the following publications for additional information on small grain production and seed availability. Both are updated annually.

Pest Management in Wisconsin Field Crops (A3646) available at learningstore.uwex.edu

The Wisconsin Certified Seed Directory available at wcia.wisc.edu

For information on seed availability of public varieties, contact:

Wisconsin Crop Improvement Association
8520 University Green
Middleton, WI 53562
(800) 892-1341, wcia.wisc.edu

To access crop performance testing information electronically, visit: www.coolbean.info

For more information on wheat production please also follow Dr. Conley on Twitter@badgerbean

Please click for [A Visual Guide to Winter Wheat Development and Growth Staging](#)

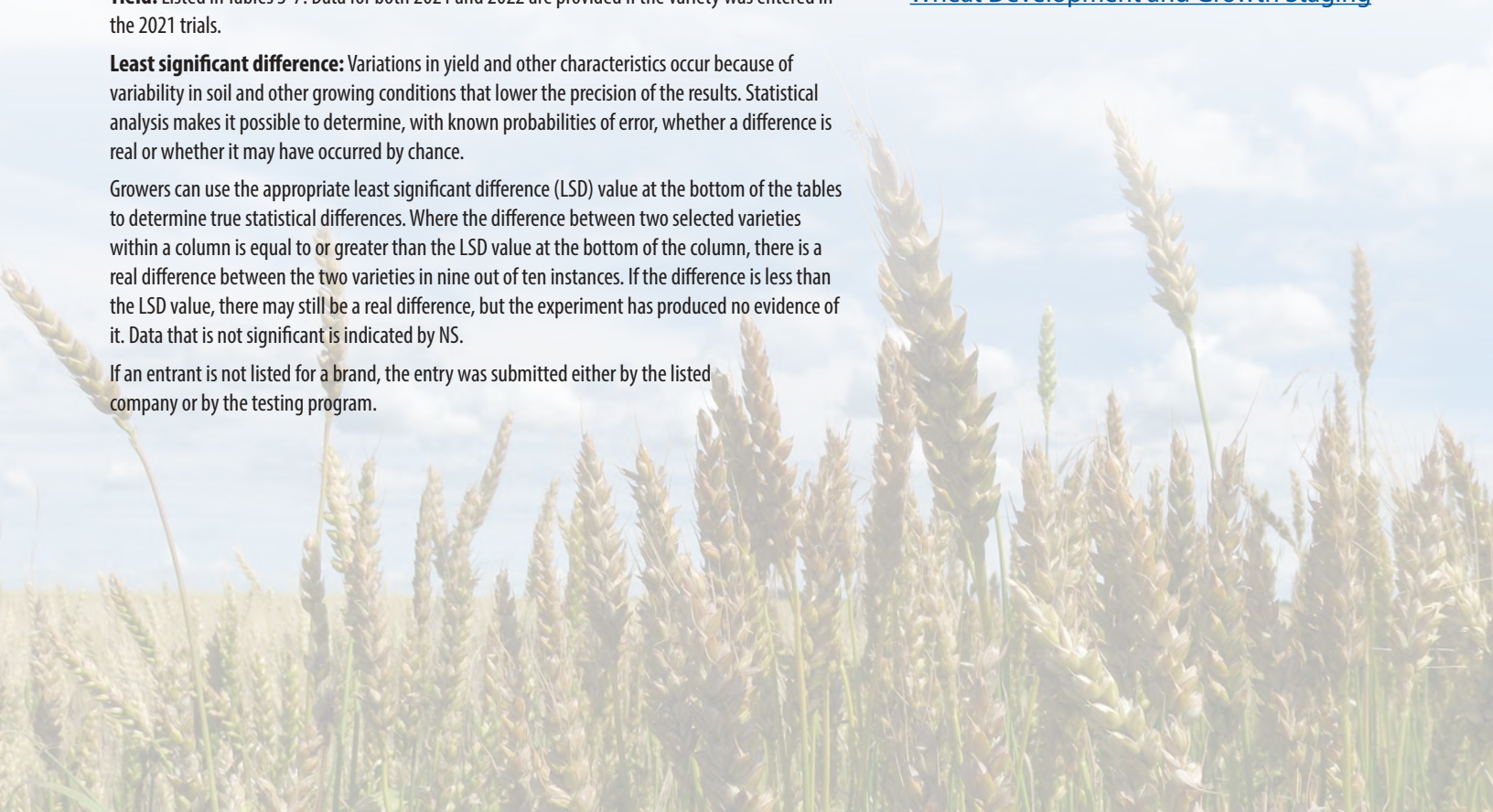


Table 1. 2022 Company Information

Brand (Entrant)	Company Name	Phone	Website
AgriMAXX	AgriMAXX Wheat Company	(855) 629-9432	www.agrimaxxwheat.com
AgriPro	AgriPro	(815) 370-3291	www.growprogenetics.com
CROPLAN by Winfield United	WinField United	(855) 494-6343	www.CROPLAN.com
Diener	BioTown Seeds Inc.	(219) 984-6038	www.biotownseeds.com
Dyna-Gro	Dyna-Gro Seed	(608) 756-2934	www.dynagroseed.com
FS InSPIRE Wheat	GROWMARK, Inc.	(309) 242-3439	www.fsseeds.com
Kennel Seed Farms	Kennel Seed Farms	(608) 379-0585	
KF Brand	Kratz Farms LLC	(262) 305-6631	www.kratzfarms.com
KWS Cereals	KWS Cereals	(217) 888-0176	www.kws.com
L-Brand (Ag Pro)	Ag Pro Enterprises, LLC	(920) 904-1758	www.limagraincerealseeds.com
Legacy	Legacy Seeds Inc.	(715) 467-2555	www.legacyseeds.com
MCIA	Michigan Crop Improvement Association	(517) 332-3546	www.michcrop.com
OSIA	Ohio Seed Improvement Association	(614) 889-1136	www.ohioseed.org
Pioneer	Corteva Agriscience	(515) 535-3200	www.pioneer.com
PiP	Partners in Production	(608) 335-2112	www.pipseeds.com
Pro Seed Genetics	Pro Seed Genetics Cooperative	(920) 255-1361	
Public	WI Foundation Seeds	(608) 262-9954	www.wisconsinfoundationseeds.wisc.edu
Van Treeck's	Van Treeck's Seed Farm	(920) 467-2422	
Viking	Albert Lea Seed	(800) 352-5247	www.alseed.com

Table 2. 2022 Entered Varieties and Seed Treatments

Brand (Entrant)	Variety	Seed Treatment(s)	Brand (Entrant)	Variety	Seed Treatment(s)
AgriMAXX	498	PRIME ST	Diener	D480W	CruiserMaxx, Vibrance
	503	PRIME ST		D491W	CruiserMaxx, Vibrance
	505	PRIME ST		D499W	CruiserMaxx, Vibrance
	513	PRIME ST		D504W	CruiserMaxx, Vibrance
	516	PRIME ST		XW2022	CruiserMaxx, Vibrance
	525	PRIME ST	Dyna-Gro	9120	CruiserMaxx, Vibrance
AgriPro	GP 348	CruiserMaxx, Vibrance		9151	CruiserMaxx, Vibrance
	GP 381	CruiserMaxx, Vibrance		9172	CruiserMaxx, Vibrance
	GP 463	CruiserMaxx, Vibrance		9182	CruiserMaxx, Vibrance
	GP 747	CruiserMaxx, Vibrance		9352	CruiserMaxx, Vibrance
	SY 100	CruiserMaxx, Vibrance		9862	CruiserMaxx, Vibrance
	SY 547	CruiserMaxx, Vibrance		WX22793	CruiserMaxx, Vibrance
	SY 576	CruiserMaxx, Vibrance			
	SY Viper	CruiserMaxx, Vibrance			
CROPLAN	CP8007	Resonate, Warden Cereals II			
	CP8045	Resonate, Warden Cereals II			
	CPX91221	Resonate, Warden Cereals II			

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Table 2. 2022 Entered Varieties and Seed Treatments*continued from previous page*

Brand (Entrant)	Variety	Seed Treatment(s)	Brand (Entrant)	Variety	Seed Treatment(s)
FS InSPIRE Wheat	FS 600	Vibrance Extreme, plus insecticide	OSIA	Starburst	Ceres US
	FS 603	Vibrance Extreme, plus insecticide	Pioneer	25R28	LumiGEN
	FS 616	Vibrance Extreme, plus insecticide		25R74	LumiGEN
	FS 623	Vibrance Extreme, plus insecticide		25R76	LumiGEN
	FS 624	Vibrance Extreme, plus insecticide	PiP	702	Charter, imidacloprid
	FS 745	Vibrance Extreme, plus insecticide		703	Charter, imidacloprid
	FS WX22C	Vibrance Extreme, plus insecticide		704	Charter, imidacloprid
	FS WX22D	Vibrance Extreme, plus insecticide		705	Charter, imidacloprid
	FS WX22E	Vibrance Extreme, plus insecticide		706	Charter, imidacloprid
Kennell Seed Farms	KS 1618	Ceres US IM		707	Charter, imidacloprid
	KS 9229	Dividend Extreme		708	Charter, imidacloprid
KF Brand	KF 15241	Vibrance Extreme		710	Charter, imidacloprid
	KF 15639	Vibrance Extreme		711	Charter, imidacloprid
	KF 667	Vibrance Extreme		715	Charter, imidacloprid
	KF 727	Vibrance Extreme		735	Charter, imidacloprid
	KF 809	Vibrance Extreme		750	Charter, imidacloprid
	KF 839	Vibrance Extreme		762	Charter, imidacloprid
	KF 841	Warden Cereals II		775	Charter, imidacloprid
	KF 920	Vibrance Extreme		781	Charter, imidacloprid
	KF EX813	Warden Cereals II		782	Charter, imidacloprid
KWS Cereals	KWS394	CruiserMaxx, Vibrance Extreme		783	Charter, imidacloprid
	KWS398	CruiserMaxx, Vibrance Extreme		784	Charter, imidacloprid
	KWS403	CruiserMaxx, Vibrance Extreme		785	Charter, imidacloprid
	KWS414	CruiserMaxx, Vibrance Extreme		790	Charter, imidacloprid
L-Brand (Ag Pro)	L-422	Ceres US		791	Charter, imidacloprid
	L-430	Ceres US		796	Charter, imidacloprid
	L-447	Ceres US	Pro Seed Genetics	PRO 410	metalaxyl, tebuconazole
	L-448	Ceres US		PRO 490A	metalaxyl, tebuconazole
	L-452	Ceres US		PRO Ex 230A	Charter, imidacloprid
	L-458	Ceres US	Public	Sunburst	Athena
	L-Star	SabrEx, Tebustar		L 024	Warden Cereals II
Legacy	LW 2021	CruiserMaxx, Vibrance	Van Treeck's	L 920	CruiserMaxx
	LW 2023	SabrEx, Tebustar		Sittin' Pretty	CruiserMaxx
	LW 2024	CruiserMaxx, Vibrance		801	CruiserMaxx, Vibrance
	LWX 1922	CruiserMaxx, Vibrance	Viking		
	LWX 2026	CruiserMaxx, Vibrance			
	LWX 2122	CruiserMaxx, Vibrance			
MCIA	Flipper	Vibrance Extreme			
	Harpoon	Athena			
	Marlin	Vibrance Extreme			

Table 3. 2022 Combined Winter Wheat Performance Trial Results

Brand (Entrant)	Entry	2022 4-test average ¹		■ Arlington		● Chilton		▲ Fond du Lac		★ Waterloo		2021 4-test average ²
		Yield (bu/a)	Test wt. (lb/bu)	Yield (bu/a)	Test wt. (lb/bu)	Yield (bu/a)	Test wt. (lb/bu)	Yield (bu/a)	Test wt. (lb/bu)	Yield (bu/a)	Test wt. (lb/bu)	Yield (bu/a)
AgriMAXX	498	108	57.7	99	55.7	119	58.7	112	58.4	106	57.4	109
	503	106	58.6	102	56.2	109	59.1	107	59.2	104	58.6	111
	505	105	60.8	102	57.5	115	62.1	105	61.4	91	59.9	111
	513	109	59.6	98	56.2	115	60.4	116	60.7	108	58.6	110
	516	108	58.7	102	54.9	117	59.7	113	59.5	98	57.7	112
	525	* 118	59.4	* 112	55.9	123	60.0	* 126	60.6	* 112	59.1	--
AgriPro	GP 348	102	61.1	99	58.1	109	61.8	101	61.7	98	61.4	--
	GP 381	102	58.2	94	55.9	110	58.8	104	59.0	102	58.6	--
	GP 463	101	58.0	97	55.5	105	59.0	102	58.7	95	57.5	--
	GP 747	110	56.4	103	54.1	115	57.1	115	57.3	98	55.0	--
	SY 100	111	57.3	* 105	54.2	114	58.0	115	58.2	105	55.9	*114
	SY 547	100	58.7	94	56.1	104	59.3	103	59.5	101	58.7	113
	SY 576	102	58.8	94	54.6	110	60.3	109	59.7	95	57.8	106
	SY Viper	102	60.1	96	58.1	110	60.6	101	60.6	95	59.5	109
CROPLAN	CP8007	* 114	58.5	* 104	55.2	123	59.7	* 121	59.3	104	58.7	*119
	CP8045	108	58.6	103	55.4	116	59.9	110	59.2	103	58.0	--
	CPX91221	* 116	59.9	* 105	56.8	* 126	61.1	117	60.6	104	59.0	--
Diener	D480W	107	58.4	102	56.5	111	59.0	111	59.2	102	58.7	107
	D491W	109	58.0	99	54.9	116	59.1	115	58.9	103	57.1	112
	D499W	102	59.1	91	56.3	107	60.0	108	60.0	104	59.5	108
	D504W	109	58.9	100	55.6	117	60.2	114	59.7	100	57.8	*115
	XW2022	* 116	58.0	* 109	54.8	* 126	58.9	* 121	59.0	* 111	58.2	--
Dyna-Gro	9120	108	60.0	100	57.2	119	60.8	109	60.5	105	60.2	111
	9151	104	60.9	100	57.7	117	62.4	107	61.6	96	60.3	--
	9172	110	58.7	101	55.1	116	59.5	117	59.6	100	57.7	113
	9182	107	58.6	* 106	56.6	115	59.0	107	59.6	96	58.7	110
	9352	* 115	57.2	* 108	54.8	123	57.9	* 120	58.1	* 109	56.6	--
	9862	100	58.8	94	55.8	108	59.7	102	59.6	100	58.8	108
	WX22793	* 115	58.8	* 108	55.4	122	59.7	* 123	59.9	* 110	59.1	--
FS InSPIRE Wheat	FS 600	105	61.0	97	57.7	109	61.8	115	62.1	92	59.8	*114
	FS 603	103	58.9	93	56.3	113	59.5	105	59.6	99	58.6	108
	FS 616	102	59.2	96	56.4	106	60.1	107	59.9	100	59.0	109
	FS 623	110	58.9	* 106	56.5	116	59.6	113	59.7	100	58.8	*115
	FS 624	106	59.7	102	56.2	115	60.9	107	60.2	101	59.8	111
	FS 745	109	58.7	103	55.5	116	59.6	111	59.3	102	57.8	*115
	FS WX22C	104	57.4	93	53.9	109	58.2	109	58.2	97	56.5	--
	FS WX22D	100	59.0	98	55.0	110	59.7	99	59.9	90	58.7	--
	FS WX22E	111	57.5	* 107	54.4	120	58.6	116	58.3	106	57.4	--

* Yield is not significantly different than that of the highest yielding cultivar (0.10 level)

¹ 4-test sites were Arlington (non-fungicide only), Chilton, Fond du Lac, and Waterloo

² 4-test sites were Arlington, Chilton, Fond du Lac, and Janesville

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Table 3. 2022 Combined Winter Wheat Performance Trial Results

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Brand (Entrant)	Entry	2022 4-test average ¹		■ Arlington		● Chilton		▲ Fond du Lac		★ Waterloo		2021 4-test average ²
		Yield (bu/a)	Test wt. (lb/bu)	Yield (bu/a)	Test wt. (lb/bu)	Yield (bu/a)	Test wt. (lb/bu)	Yield (bu/a)	Test wt. (lb/bu)	Yield (bu/a)	Test wt. (lb/bu)	Yield (bu/a)
Kennell Seed Farms	KS 1618	107	58.8	97	56.5	113	59.7	109	59.4	* 111	59.3	112
	KS 9229	99	60.4	96	58.1	100	61.1	103	61.1	97	60.1	--
KF Brand	KF 15241	100	59.3	92	57.2	109	60.4	100	59.7	95	59.1	103
	KF 15639	104	59.4	94	56.2	113	60.0	114	60.5	98	58.8	107
	KF 667	106	59.3	99	57.2	115	60.2	106	59.9	* 110	59.4	*115
	KF 727	100	58.4	95	56.3	105	59.0	99	59.1	102	58.7	109
	KF 809	111	58.7	101	55.6	* 125	59.9	108	59.3	103	58.1	*118
	KF 839	105	60.8	* 104	56.6	108	61.8	110	61.8	93	59.6	--
	KF 841	102	58.2	102	55.8	106	59.3	102	58.9	99	57.8	--
	KF 920	105	59.4	101	57.5	107	59.9	111	60.4	* 111	59.0	111
	KF EX813	109	58.1	101	56.1	116	58.8	112	58.8	99	57.1	--
KWS Cereals	KWS394	111	57.5	101	55.0	119	58.3	117	58.3	* 109	57.7	--
	KWS398	110	59.3	100	56.2	116	60.0	109	59.8	* 112	59.5	--
	KWS403	109	57.1	102	54.6	110	57.8	110	57.4	104	57.4	--
	KWS414	109	56.4	102	52.8	117	57.5	111	57.0	105	56.5	--
L-Brand (Ag Pro)	L-422	98	58.0	91	54.9	108	59.1	105	58.9	93	58.0	--
	L-430	95	59.9	88	56.9	105	60.8	93	60.3	84	59.7	109
	L-447	103	60.6	95	56.7	112	61.7	108	61.5	95	59.5	--
	L-448	100	57.9	97	55.0	107	59.2	102	58.2	92	58.0	106
	L-452	112	58.6	101	56.0	* 125	59.7	* 119	59.4	104	58.5	--
	L-458	101	58.9	96	56.1	108	59.8	109	59.9	96	58.6	--
	L-Star	110	58.7	* 106	56.5	117	59.9	106	59.0	* 110	59.8	107
Legacy	LW 2021	107	58.7	102	56.4	119	59.7	108	59.3	100	58.7	113
	LW 2023	107	58.6	102	55.3	113	59.7	108	59.4	102	58.0	*114
	LW 2024	110	59.3	* 109	56.7	117	60.2	115	60.1	102	58.8	113
	LWX 1922	113	58.8	* 105	55.2	116	59.4	* 121	60.0	* 113	58.9	--
	LWX 2026	113	58.1	* 106	54.6	* 128	59.0	111	58.7	106	58.2	--
	LWX 2122	* 114	56.9	* 104	54.6	123	58.0	116	57.7	* 113	56.4	--
MCIA	Flipper	106	58.0	101	55.5	112	58.5	103	58.7	102	57.9	--
	Harpoon	99	57.0	92	55.1	106	57.5	105	57.8	101	57.5	108
	Marlin	107	58.4	98	56.3	122	59.7	109	59.2	106	57.9	--
OSIA	Starburst	103	61.4	97	58.0	110	62.6	105	62.0	94	61.0	--
Pioneer	25R28	107	59.4	* 104	56.2	117	60.1	109	60.2	100	59.3	--
	25R74	105	58.5	96	55.6	109	59.1	110	59.3	102	58.4	109
	25R76	107	58.7	101	56.6	110	59.3	113	59.9	106	58.4	--

* Yield is not significantly different than that of the highest yielding cultivar (0.10 level)

¹ 4-test sites were Arlington (non-fungicide only), Chilton, Fond du Lac, and Waterloo

² 4-test sites were Arlington, Chilton, Fond du Lac, and Janesville

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Table 3. 2022 Combined Winter Wheat Performance Trial Results

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Brand (Entrant)	Entry	2022 4-test average ¹		■ Arlington		● Chilton		▲ Fond du Lac		★ Waterloo		2021 4-test average ²
		Yield (bu/a)	Test wt. (lb/bu)	Yield (bu/a)	Test wt. (lb/bu)	Yield (bu/a)	Test wt. (lb/bu)	Yield (bu/a)	Test wt. (lb/bu)	Yield (bu/a)	Test wt. (lb/bu)	Yield (bu/a)
PiP	702	113	56.8	* 109	54.6	120	57.9	108	57.2	106	56.1	--
	703	111	59.0	* 106	56.1	123	60.0	115	59.9	104	58.9	--
	704	103	58.2	99	55.3	104	59.2	103	58.5	99	57.7	112
	705	110	58.7	* 108	56.4	114	59.2	109	59.3	101	58.7	111
	706	105	58.9	100	56.2	111	59.6	110	59.7	100	58.6	107
	707	* 115	59.6	* 108	56.1	* 124	60.5	116	60.3	* 112	60.0	--
	708	112	58.6	* 106	56.3	121	59.2	112	59.3	100	58.3	--
	710	* 114	58.3	* 109	55.1	121	59.3	118	59.1	108	59.1	--
	711	102	58.2	93	55.6	114	59.3	104	59.1	101	58.5	--
	715	108	58.8	103	56.1	116	59.2	115	60.0	98	58.3	106
	735	108	58.0	98	54.7	118	59.0	111	58.6	107	57.4	109
	750	104	59.7	93	56.5	111	60.3	114	60.6	103	59.3	108
	762	109	59.4	99	56.1	115	60.4	115	60.1	* 109	58.8	111
	775	* 114	58.9	* 106	55.4	120	59.8	* 120	59.9	* 116	59.1	--
	781	* 115	56.6	* 107	54.6	* 124	57.1	* 121	57.6	* 113	55.7	--
	782	101	58.3	95	54.8	112	59.6	100	59.0	97	57.6	--
	783	107	58.0	102	55.6	112	58.7	111	59.1	102	58.0	--
	784	112	58.0	* 105	55.3	120	59.1	113	58.7	107	57.5	--
	785	109	59.2	102	56.5	118	60.1	117	60.3	104	59.0	--
	790	110	58.8	* 105	55.3	116	59.9	117	59.8	104	58.1	*115
	791	110	59.7	97	57.0	117	60.5	114	60.5	105	60.0	113
	796	113	58.3	* 104	54.8	122	59.0	* 122	59.3	107	58.4	*116
Pro Seed Genetics	PRO 410	104	59.6	96	55.9	111	60.7	107	60.4	97	59.6	111
	PRO 490A	107	58.0	101	55.1	117	59.0	110	58.8	103	57.8	--
	PRO Ex 230A	105	61.0	99	56.9	112	62.0	111	61.8	98	60.1	--
Public	Sunburst	100	61.3	93	58.2	110	62.4	103	61.8	95	61.7	108
Van Treeck's	L 024	* 117	59.9	* 109	56.7	* 129	61.4	116	60.3	* 111	60.0	--
	L 920	105	59.3	98	57.2	111	60.3	108	60.0	106	58.8	107
	Sittin' Pretty	107	58.8	99	55.8	120	59.7	106	59.4	103	58.3	--
Viking	801	105	59.7	98	56.6	113	60.6	104	60.6	105	59.5	--
	Mean	107	58.8	100	55.9	115	59.7	110	59.6	102	58.5	110
	LSD(.10)	4	0.4	8	0.7	5	0.5	7	0.7	7	0.6	5

* Yield is not significantly different than that of the highest yielding cultivar (0.10 level)

¹ 4-test sites were Arlington (non-fungicide only), Chilton, Fond du Lac, and Waterloo

² 4-test sites were Arlington, Chilton, Fond du Lac, and Janesville

Table 4. 2022 Arlington Winter Wheat Performance Trial Results

Brand (Entrant)	Entry	2022 means							2021 means	
		Fungicide	No-fungicide						Yield (bu/a)	Test wt. (lb/bu)
		Yield (bu/a)	Yield (bu/a)	Test wt. (lb/bu)	Height (in.)	Lodging (1-5)	FHB ¹ I% ²	FHB ¹ S% ³		
AgriMAXX	498	^ 109	99	55.7	37	1.0	6	37	115	55.1
	503	105	102	56.2	34	1.0	0	0	112	54.9
	505	100	102	57.5	34	1.0	1	15	116	56.8
	513	105	98	56.2	35	1.0	1	4	114	56.1
	516	102	102	54.9	34	1.0	1	9	119	54.5
	525	115	*112	55.9	33	1.0	3	13	--	--
AgriPro	GP 348	97	99	58.1	33	1.0	20	35	--	--
	GP 381	^ 102	94	55.9	32	1.0	3	33	--	--
	GP 463	100	97	55.5	33	1.0	0	3	--	--
	GP 747	109	103	54.1	35	1.0	3	38	--	--
	SY 100	^ 112	*105	54.2	33	1.0	4	27	116	52.6
	SY 547	101	94	56.1	38	1.0	4	43	111	55.7
	SY 576	97	94	54.6	35	1.0	1	4	112	53.9
	SY Viper	103	96	58.1	37	1.0	13	33	118	57.1
CROPLAN	CP8007	^ 118	*104	55.2	31	1.0	3	18	*128	54.8
	CP8045	106	103	55.4	34	1.0	1	1	--	--
	CPX91221	^ 114	*105	56.8	35	1.0	3	37	--	--
Diener	D480W	103	102	56.5	37	1.0	0	0	110	54.7
	D491W	^ 107	99	54.9	35	1.0	3	22	114	54.1
	D499W	96	91	56.3	36	1.0	5	27	109	56.0
	D504W	105	100	55.6	34	1.0	1	4	118	54.7
	XW2022	113	*109	54.8	34	1.0	2	10	--	--
Dyna-Gro	9120	104	100	57.2	33	1.0	4	40	111	57.1
	9151	100	100	57.7	35	1.0	2	12	--	--
	9172	106	101	55.1	33	1.0	1	9	112	54.3
	9182	108	*106	56.6	36	1.0	1	4	114	54.8
	9352	112	*108	54.8	35	1.0	1	14	--	--
	9862	90	94	55.8	32	1.0	2	15	112	55.5
	WX22793	110	*108	55.4	36	1.0	2	14	--	--
FS InSPIRE Wheat	FS 600	95	97	57.7	34	1.0	1	27	116	56.9
	FS 603	98	93	56.3	35	1.0	1	11	118	56.1
	FS 616	95	96	56.4	37	1.0	5	27	118	56.2

* Yield is not significantly different than that of the highest yielding cultivar (0.10 level)

^ Significant yield increase with Feekes 10.5.1 fungicide application (0.10 level)

¹ Fusarium head blight ² % incidence ³ % severity

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New for the 2022 season, additional replications were added only at the Arlington location to allow for a fungicide application during anthesis (Feekes 10.5.1) on half of the replications. This provides data on how different varieties respond to an anthesis timed fungicide application.

Table 4. 2022 Arlington Winter Wheat Performance Trial Results

continued from previous page

Brand (Entrant)	Entry	2022 means							2021 means	
		Fungicide	No-fungicide						Yield (bu/a)	Test wt. (lb/bu)
		Yield (bu/a)	Yield (bu/a)	Test wt. (lb/bu)	Height (in.)	Lodging (1-5)	FHB ¹ I% ²	FHB ¹ S% ³		
FS InSPIRE Wheat	FS 623	102	*106	56.5	35	1.0	1	8	119	54.9
	FS 624	^ 109	102	56.2	36	1.0	7	53	*122	55.8
	FS 745	103	103	55.5	34	1.0	2	18	*120	54.7
	FS WX22C	99	93	53.9	32	1.0	1	10	--	--
	FS WX22D	98	98	55.0	37	1.0	1	1	--	--
	FS WX22E	110	*107	54.4	33	1.0	2	12	--	--
Kennell Seed Farms	KS 1618	^ 110	97	56.5	35	1.0	7	32	112	56.0
	KS 9229	98	96	58.1	38	1.0	1	1	--	--
KF Brand	KF 15241	98	92	57.2	36	1.0	3	38	111	56.7
	KF 15639	^ 103	94	56.2	37	1.0	7	37	107	56.0
	KF 667	^ 107	99	57.2	35	1.0	5	42	*122	57.1
	KF 727	95	95	56.3	36	1.0	10	42	114	55.4
	KF 809	105	101	55.6	36	1.0	7	30	*121	54.8
	KF 839	103	*104	56.6	37	1.0	8	32	--	--
	KF 841	100	102	55.8	33	1.0	3	12	--	--
	KF 920	96	101	57.5	34	1.0	7	32	118	57.2
	KF EX813	^ 109	101	56.1	31	1.0	4	43	--	--
KWS Cereals	KWS394	103	101	55.0	33	1.0	0	0	--	--
	KWS398	^ 114	100	56.2	35	1.0	0	0	--	--
	KWS403	105	102	54.6	32	1.0	0	0	--	--
	KWS414	^ 115	102	52.8	34	1.0	3	27	--	--
L-Brand (Ag Pro)	L-422	^ 100	91	54.9	34	1.0	6	38	--	--
	L-430	94	88	56.9	34	1.0	13	32	*120	56.6
	L-447	^ 106	95	56.7	35	1.0	2	37	--	--
	L-448	100	97	55.0	33	1.0	13	42	112	54.5
	L-452	^ 113	101	56.0	35	1.0	3	25	--	--
	L-458	^ 103	96	56.1	35	1.0	9	33	--	--
	L-Star	101	*106	56.5	36	1.0	8	35	104	55.6
Legacy	LW 2021	105	102	56.4	36	1.0	0	3	113	54.9
	LW 2023	103	102	55.3	35	1.0	1	8	*126	55.0
	LW 2024	110	*109	56.7	34	1.0	2	13	115	55.9
	LWX 1922	^ 114	*105	55.2	36	1.0	6	13	--	--
	LWX 2026	110	*106	54.6	33	1.0	4	12	--	--
	LWX 2122	^ 116	*104	54.6	35	1.0	1	1	--	--
MCIA	Flipper	102	101	55.5	33	1.0	7	47	--	--
	Harpoon	97	92	55.1	33	1.0	0	0	112	54.4
	Marlin	100	98	56.3	35	1.0	7	30	--	--
OSIA	Starburst	^ 108	97	58.0	30	1.0	3	37	--	--

* Yield is not significantly different than that of the highest yielding cultivar (0.10 level)

^ Significant yield increase with Feekes 10.5.1 fungicide application (0.10 level)

¹ Fusarium head blight ² % incidence ³ % severity

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Table 4. 2022 Arlington Winter Wheat Performance Trial Results

continued from previous page

Brand (Entrant)	Entry	2022 means							2021 means	
		Fungicide	No-fungicide						Yield (bu/a)	Test wt. (lb/bu)
		Yield (bu/a)	Yield (bu/a)	Test wt. (lb/bu)	Height (in.)	Lodging (1-5)	FHB ¹ I% ²	FHB ¹ S% ³		
Pioneer	25R28	99	*104	56.2	34	1.0	1	4	--	--
	25R74	^ 105	96	55.6	33	1.0	2	20	113	55.3
	25R76	101	101	56.6	36	1.0	1	7	--	--
PiP	702	116	*109	54.6	33	1.0	1	11	--	--
	703	110	*106	56.1	36	1.0	8	32	--	--
	704	99	99	55.3	34	1.0	13	32	*121	54.1
	705	108	*108	56.4	37	1.0	0	0	116	54.7
	706	^ 108	100	56.2	36	1.0	2	10	110	54.9
	707	115	*108	56.1	33	1.0	1	19	--	--
	708	113	*106	56.3	36	1.0	4	30	--	--
	710	^ 118	*109	55.1	30	1.0	3	23	--	--
	711	97	93	55.6	35	1.0	6	32	--	--
	715	101	103	56.1	39	1.0	1	24	107	54.7
	735	^ 112	98	54.7	33	1.0	3	30	110	54.4
	750	97	93	56.5	35	1.0	4	42	114	54.9
	762	106	99	56.1	35	1.0	2	30	115	55.7
	775	105	*106	55.4	37	1.0	2	7	--	--
	781	111	*107	54.6	37	1.0	2	5	--	--
	782	100	95	54.8	33	1.0	1	11	--	--
	783	103	102	55.6	34	1.0	1	6	--	--
	784	110	*105	55.3	35	1.0	2	7	--	--
	785	104	102	56.5	33	1.0	6	17	--	--
	790	^ 113	*105	55.3	35	1.0	2	4	118	54.9
	791	^ 105	97	57.0	33	1.0	3	25	118	57.1
	796	^ 113	*104	54.8	32	1.0	3	18	*122	54.7
Pro Seed Genetics	PRO 410	101	96	55.9	35	1.0	7	38	118	56.2
	PRO 490A	102	101	55.1	36	1.0	3	28	--	--
	PRO Ex 230A	104	99	56.9	37	1.0	6	28	--	--
Public	Sunburst	96	93	58.2	32	1.0	2	45	112	57.5
Van Treeck's	L 024	^ 116	*109	56.7	32	1.0	2	33	--	--
	L 920	96	98	57.2	34	1.0	7	23	106	57.2
	Sittin' Pretty	^ 106	99	55.8	35	1.0	4	22	--	--
Viking	801	102	98	56.6	37	1.0	1	4	--	--
	Mean	105	100	55.9	35	1.0	4	21	114	55.5
	LSD (.10)	8	8	0.6	2	--	3	14	8	0.6

* Yield is not significantly different than that of the highest yielding cultivar (0.10 level)

^ Significant yield increase with Feekes 10.5.1 fungicide application (0.10 level)

¹ Fusarium head blight ² % incidence ³ % severity

Table 5. 2022 Chilton Winter Wheat Performance Trial Results

Brand (Entrant)	Entry	2022 means						2021 means	
		Yield (bu/a)	Test wt. (lb/bu)	Height (in.)	Lodging (1-5)	FHB ¹ I% ²	FHB ¹ S% ³	Yield (bu/a)	Test wt. (lb/bu)
AgriMAXX	498	119	58.7	40	1.0	1	1	108	54.0
	503	109	59.1	38	1.0	0	1	114	55.7
	505	115	62.1	38	1.0	1	1	117	57.2
	513	115	60.4	37	1.0	0	1	108	55.6
	516	117	59.7	36	1.0	1	1	105	55.4
	525	123	60.0	36	1.0	0	0	--	--
AgriPro	GP 348	109	61.8	34	1.0	3	0	--	--
	GP 381	110	58.8	33	1.0	1	0	--	--
	GP 463	105	59.0	36	1.0	0	0	--	--
	GP 747	115	57.1	38	1.0	1	0	--	--
	SY 100	114	58.0	36	1.0	1	23	115	52.6
	SY 547	104	59.3	41	1.0	1	25	* 122	57.1
	SY 576	110	60.3	40	1.0	0	8	106	53.9
	SY Viper	110	60.6	41	1.0	1	9	113	56.4
CROPLAN	CP8007	123	59.7	33	1.0	1	1	118	55.8
	CP8045	116	59.9	37	1.0	0	0	--	--
	CPX91221	* 126	61.1	36	1.0	0	0	--	--
Diener	D480W	111	59.0	38	1.0	0	1	113	55.8
	D491W	116	59.1	37	1.0	0	34	110	55.1
	D499W	107	60.0	38	1.0	1	1	114	56.8
	D504W	117	60.2	37	1.0	1	1	* 119	55.5
	XW2022	* 126	58.9	36	1.0	1	0	--	--
Dyna-Gro	9120	119	60.8	36	1.0	0	1	117	57.5
	9151	117	62.4	38	1.0	1	1	--	--
	9172	116	59.5	37	1.0	0	1	115	55.6
	9182	115	59.0	39	1.0	0	1	115	55.7
	9352	123	57.9	38	1.0	0	0	--	--
	9862	108	59.7	36	1.0	0	13	106	55.6
	WX22793	122	59.7	38	1.0	0	0	--	--
FS InSPIRE Wheat	FS 600	109	61.8	37	1.0	0	1	117	57.2
	FS 603	113	59.5	36	1.0	1	19	106	56.0
	FS 616	106	60.1	37	1.0	1	9	110	56.6
	FS 623	116	59.6	39	1.0	0	4	117	55.8
	FS 624	115	60.9	40	1.0	1	29	109	56.6
	FS 745	116	59.6	38	1.0	1	1	* 120	56.0
	FS WX22C	109	58.2	36	1.0	0	0	--	--
	FS WX22D	110	59.7	40	1.0	0	0	--	--
	FS WX22E	120	58.6	37	1.0	1	0	--	--

* Yield is not significantly different than that of the highest yielding cultivar (0.10 level)

¹ Fusarium head blight ² % incidence ³ % severity

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Table 5. 2022 Chilton Winter Wheat Performance Trial Results

continued from previous page

Brand (Entrant)	Entry	2022 means						2021 means	
		Yield (bu/a)	Test wt. (lb/bu)	Height (in.)	Lodging (1-5)	FHB ¹ I% ²	FHB ¹ S% ³	Yield (bu/a)	Test wt. (lb/bu)
Kennell Seed Farms	KS 1618	113	59.7	38	1.0	2	7	117	56.1
	KS 9229	100	61.1	43	1.0	0	0	--	--
KF Brand	KF 15241	109	60.4	41	1.0	1	34	102	56.1
	KF 15639	113	60.0	41	1.0	1	13	114	56.9
	KF 667	115	60.2	36	1.0	1	8	* 123	56.3
	KF 727	105	59.0	40	1.0	3	13	110	55.3
	KF 809	* 125	59.9	38	1.0	1	1	* 126	54.6
	KF 839	108	61.8	40	1.0	1	0	--	--
	KF 841	106	59.3	36	1.0	0	0	--	--
	KF 920	107	59.9	36	1.0	2	1	112	55.3
	KF EX813	116	58.8	34	1.0	1	0	--	--
KWS Cereals	KWS394	119	58.3	35	1.0	0	0	--	--
	KWS398	116	60.0	36	1.0	0	0	--	--
	KWS403	110	57.8	34	1.0	0	0	--	--
	KWS414	117	57.5	35	1.0	1	0	--	--
L-Brand (Ag Pro)	L-422	108	59.1	39	1.0	1	0	--	--
	L-430	105	60.8	38	1.0	1	1	109	55.9
	L-447	112	61.7	40	1.0	1	0	--	--
	L-448	107	59.2	38	1.0	2	1	110	55.0
	L-452	* 125	59.7	40	1.0	1	0	--	--
	L-458	108	59.8	41	1.0	1	0	--	--
	L-Star	117	59.9	39	1.0	1	13	108	56.0
Legacy	LW 2021	119	59.7	39	1.0	0	1	113	55.8
	LW 2023	113	59.7	36	1.0	0	1	108	55.0
	LW 2024	117	60.2	36	1.0	1	1	111	55.9
	LWX 1922	116	59.4	37	1.0	1	9	--	--
	LWX 2026	* 128	59.0	37	1.0	0	0	--	--
	LWX 2122	123	58.0	38	1.0	1	0	--	--
MCIA	Flipper	112	58.5	35	1.0	1	0	--	--
	Harpoon	106	57.5	35	1.0	0	13	107	54.4
	Marlin	122	59.7	37	1.0	1	0	--	--
OSIA	Starburst	110	62.6	34	1.0	1	19	--	--
Pioneer	25R28	117	60.1	37	1.0	0	0	--	--
	25R74	109	59.1	35	1.0	1	9	109	55.9
	25R76	110	59.3	37	1.0	1	1	--	--

* Yield is not significantly different than that of the highest yielding cultivar (0.10 level)

¹ Fusarium head blight ² % incidence ³ % severity

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Table 5. 2022 Chilton Winter Wheat Performance Trial Results

continued from previous page

Brand (Entrant)	Entry	2022 means						2021 means	
		Yield (bu/a)	Test wt. (lb/bu)	Height (in.)	Lodging (1-5)	FHB ¹ I% ²	FHB ¹ S% ³	Yield (bu/a)	Test wt. (lb/bu)
PiP	702	120	57.9	37	1.0	0	48	--	--
	703	123	60.0	39	1.0	1	41	--	--
	704	104	59.2	37	1.0	2	31	110	55.6
	705	114	59.2	38	1.0	0	1	113	55.9
	706	111	59.6	37	1.0	1	13	109	55.7
	707	* 124	60.5	36	1.0	1	13	--	--
	708	121	59.2	40	1.0	1	23	--	--
	710	121	59.3	33	1.0	1	13	--	--
	711	114	59.3	38	1.0	1	45	--	--
	715	116	59.2	41	1.0	0	29	104	55.1
	735	118	59.0	37	1.0	1	40	109	55.6
	750	111	60.3	38	1.0	1	45	106	56.1
	762	115	60.4	38	1.0	0	27	113	56.0
	775	120	59.8	37	1.0	1	43	--	--
	781	* 124	57.1	40	1.0	0	40	--	--
	782	112	59.6	36	1.0	0	35	--	--
	783	112	58.7	34	1.0	0	31	--	--
	784	120	59.1	40	1.0	1	0	--	--
	785	118	60.1	37	1.0	1	0	--	--
	790	116	59.9	37	1.0	1	1	116	55.8
	791	117	60.5	34	1.0	1	1	118	57.4
	796	122	59.0	36	1.0	1	1	115	54.2
Pro Seed Genetics	PRO 410	111	60.7	38	1.0	1	31	112	56.7
	PRO 490A	117	59.0	38	1.0	1	0	--	--
	PRO Ex 230A	112	62.0	40	1.0	1	0	--	--
Public	Sunburst	110	62.4	34	1.0	1	50	111	58.4
Van Treeck's	L 024	* 129	61.4	36	1.0	1	0	--	--
	L 920	111	60.3	35	1.0	2	1	111	55.2
	Sittin' Pretty	120	59.7	39	1.0	2	0	--	--
Viking	801	113	60.6	40	1.0	0	0	--	--
Mean		115	59.7	37	1.0	1	9	112	55.7
LSD (.10)		5	0.5	1	--	1	16	7	0.6

* Yield is not significantly different than that of the highest yielding cultivar (0.10 level)

¹ Fusarium head blight ² % incidence ³ % severity

Table 6. 2022 Fond du Lac Winter Wheat Performance Trial Results


Brand (Entrant)	Entry	2022 means						2021 means	
		Yield (bu/a)	Test wt. (lb/bu)	Height (in.)	Lodging (1-5)	FHB ¹ I% ²	FHB ¹ S% ³	Yield (bu/a)	Test wt. (lb/bu)
AgriMAXX	498	112	58.4	40	1.0	9	45	113	55.0
	503	107	59.2	38	1.0	0	0	118	54.7
	505	105	61.4	36	1.0	1	3	115	56.9
	513	116	60.7	39	1.0	1	24	120	55.6
	516	113	59.5	37	1.0	1	3	123	55.1
	525	* 126	60.6	37	1.0	3	24	--	--
AgriPro	GP 348	101	61.7	35	1.0	20	50	--	--
	GP 381	104	59.0	33	1.0	2	38	--	--
	GP 463	102	58.7	36	1.0	1	1	--	--
	GP 747	115	57.3	37	1.0	5	28	--	--
	SY 100	115	58.2	37	1.0	2	43	118	53.4
	SY 547	103	59.5	42	1.0	4	48	123	56.5
	SY 576	109	59.7	39	1.0	1	1	110	55.0
	SY Viper	101	60.6	39	1.0	11	41	112	56.6
CROPLAN	CP8007	* 121	59.3	33	1.0	2	48	* 127	55.8
	CP8045	110	59.2	36	1.0	1	13	--	--
	CPX91221	117	60.6	36	1.0	3	38	--	--
Diener	D480W	111	59.2	39	1.0	1	1	112	54.2
	D491W	115	58.9	37	1.0	3	34	118	54.2
	D499W	108	60.0	40	1.0	3	33	115	56.6
	D504W	114	59.7	38	1.0	1	1	* 127	54.6
	XW2022	* 121	59.0	38	1.0	1	21	--	--
Dyna-Gro	9120	109	60.5	36	1.0	6	53	* 131	57.7
	9151	107	61.6	38	1.0	1	1	--	--
	9172	117	59.6	38	1.0	1	15	* 124	55.3
	9182	107	59.6	38	1.0	0	0	114	54.7
	9352	* 120	58.1	38	1.0	1	9	--	--
	9862	102	59.6	36	1.0	1	18	115	56.0
	WX22793	* 123	59.9	39	1.0	1	8	--	--
FS InSPIRE Wheat	FS 600	115	62.1	38	1.0	1	5	121	56.7
	FS 603	105	59.6	37	1.0	1	8	111	56.3
	FS 616	107	59.9	39	1.0	1	21	116	56.7
	FS 623	113	59.7	40	1.0	1	1	118	54.6
	FS 624	107	60.2	38	1.0	6	50	115	56.7
	FS 745	111	59.3	37	1.0	1	7	122	55.2
	FS WX22C	109	58.2	37	1.0	1	1	--	--
	FS WX22D	99	59.9	40	1.0	1	9	--	--
	FS WX22E	116	58.3	36	1.0	1	3	--	--

* Yield is not significantly different than that of the highest yielding cultivar (0.10 level)

¹ Fusarium head blight ² % incidence ³ % severity

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Table 6. 2022 Fond du Lac Winter Wheat Performance Trial Results

continued from previous page



Brand (Entrant)	Entry	2022 means						2021 means	
		Yield (bu/a)	Test wt. (lb/bu)	Height (in.)	Lodging (1-5)	FHB ¹ I% ²	FHB ¹ S% ³	Yield (bu/a)	Test wt. (lb/bu)
Kennell Seed Farms	KS 1618	109	59.4	39	1.0	10	43	122	55.8
	KS 9229	103	61.1	43	1.0	1	7	--	--
KF Brand	KF 15241	100	59.7	39	1.0	4	44	103	56.3
	KF 15639	114	60.5	42	1.0	7	38	107	56.1
	KF 667	106	59.9	35	1.0	9	41	118	56.7
	KF 727	99	59.1	37	1.0	12	45	119	55.0
	KF 809	108	59.3	38	1.0	4	41	120	55.3
	KF 839	110	61.8	41	1.0	3	31	--	--
	KF 841	102	58.9	36	1.0	0	0	--	--
	KF 920	111	60.4	36	1.0	11	34	117	56.7
	KF EX813	112	58.8	36	1.0	5	40	--	--
KWS Cereals	KWS394	117	58.3	36	1.0	0	0	--	--
	KWS398	109	59.8	38	1.0	1	5	--	--
	KWS403	110	57.4	33	1.0	1	1	--	--
	KWS414	111	57.0	37	1.0	4	28	--	--
L-Brand (Ag Pro)	L-422	105	58.9	39	1.0	3	44	--	--
	L-430	93	60.3	38	1.0	13	43	115	55.9
	L-447	108	61.5	40	1.0	3	39	--	--
	L-448	102	58.2	37	1.0	9	41	111	53.5
	L-452	* 119	59.4	41	1.0	4	35	--	--
	L-458	109	59.9	41	1.0	6	45	--	--
	L-Star	106	59.0	37	1.0	9	44	114	55.5
Legacy	LW 2021	108	59.3	39	1.0	1	1	* 124	54.7
	LW 2023	108	59.4	36	1.0	1	8	122	54.7
	LW 2024	115	60.1	37	1.0	2	24	122	55.4
	LWX 1922	* 121	60.0	38	1.0	3	18	--	--
	LWX 2026	111	58.7	37	1.0	2	24	--	--
	LWX 2122	116	57.7	38	1.0	1	9	--	--
MCIA	Flipper	103	58.7	35	1.0	7	56	--	--
	Harpoon	105	57.8	36	1.0	0	0	119	54.0
	Marlin	109	59.2	38	1.0	6	40	--	--
OSIA	Starburst	105	62.0	33	1.0	2	38	--	--
Pioneer	25R28	109	60.2	38	1.0	1	6	--	--
	25R74	110	59.3	35	1.0	8	33	123	55.4
	25R76	113	59.9	39	1.0	1	4	--	--

* Yield is not significantly different than that of the highest yielding cultivar (0.10 level)

¹ Fusarium head blight ² % incidence ³ % severity

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Table 6. 2022 Fond du Lac Winter Wheat Performance Trial Results

continued from previous page



Brand (Entrant)	Entry	2022 means						2021 means	
		Yield (bu/a)	Test wt. (lb/bu)	Height (in.)	Lodging (1-5)	FHB ¹ % ²	FHB ¹ S% ³	Yield (bu/a)	Test wt. (lb/bu)
PiP	702	108	57.2	37	1.0	1	22	--	--
	703	115	59.9	38	1.0	7	26	--	--
	704	103	58.5	36	1.0	9	48	* 124	53.3
	705	109	59.3	39	1.0	1	1	118	54.6
	706	110	59.7	38	1.0	1	9	119	55.9
	707	116	60.3	35	1.0	2	35	--	--
	708	112	59.3	39	1.0	2	38	--	--
	710	118	59.1	33	1.0	1	34	--	--
	711	104	59.1	40	1.0	3	38	--	--
	715	115	60.0	41	1.0	1	1	118	55.0
	735	111	58.6	36	1.0	2	43	117	54.4
	750	114	60.6	40	1.0	2	23	118	56.3
	762	115	60.1	38	1.0	1	24	122	56.1
	775	* 120	59.9	39	1.0	1	14	--	--
	781	* 121	57.6	41	1.0	1	26	--	--
	782	100	59.0	36	1.0	1	17	--	--
	783	111	59.1	35	1.0	1	3	--	--
	784	113	58.7	40	1.0	1	15	--	--
	785	117	60.3	38	1.0	3	13	--	--
	790	117	59.8	38	1.0	1	8	120	55.2
	791	114	60.5	36	1.0	4	46	123	57.2
	796	* 122	59.3	38	1.0	1	18	118	55.0
Pro Seed Genetics	PRO 410	107	60.4	40	1.0	6	55	117	57.2
	PRO 490A	110	58.8	37	1.0	4	28	--	--
	PRO Ex 230A	111	61.8	41	1.0	1	35	--	--
Public	Sunburst	103	61.8	37	1.0	2	33	115	58.3
Van Treeck's	L 024	116	60.3	35	1.0	2	43	--	--
	L 920	108	60.0	36	1.0	9	36	123	56.8
	Sittin' Pretty	106	59.4	37	1.0	6	36	--	--
Viking	801	104	60.6	39	1.0	1	18	--	--
Mean		110	59.6	38	1.0	3	24	117	55.6
LSD (.10)		7	0.7	2	--	2	14	7	0.7

* Yield is not significantly different than that of the highest yielding cultivar (0.10 level)

¹ Fusarium head blight ² % incidence ³ % severity

Table 7. 2022 Waterloo Winter Wheat Performance Trial Results



Brand (Entrant)	Entry	2022 means						2021 means	
		Yield (bu/a)	Test wt. (lb/bu)	Height (in.)	Lodging (1-5)	FHB ¹ % ²	FHB ¹ S% ³	Yield (bu/a)	Test wt. (lb/bu)
AgriMAXX	498	106	57.4	40	1.7	1	11	* 101	55.5
	503	104	58.6	38	1.0	0	0	* 103	55.7
	505	91	59.9	37	1.0	1	4	98	57.1
	513	108	58.6	38	1.0	1	5	99	56.3
	516	98	57.7	36	1.0	0	0	* 103	55.1
	525	* 112	59.1	35	1.3	1	3	--	--
AgriPro	GP 348	98	61.4	35	1.0	2	16	--	--
	GP 381	102	58.6	34	1.0	1	1	--	--
	GP 463	95	57.5	37	2.3	0	0	--	--
	GP 747	98	55.0	36	1.8	1	13	--	--
	SY 100	105	55.9	36	1.0	0	0	* 108	54.2
	SY 547	101	58.7	41	1.0	1	24	98	55.8
	SY 576	95	57.8	39	1.0	1	7	96	55.0
	SY Viper	95	59.5	39	1.0	2	9	92	56.5
CROPLAN	CP8007	104	58.7	32	1.0	1	9	* 106	55.1
	CP8045	103	58.0	36	1.0	1	3	--	--
	CPX91221	104	59.0	36	1.5	1	5	--	--
Diener	D480W	102	58.7	38	1.0	0	0	95	55.8
	D491W	103	57.1	35	1.0	0	0	* 105	55.4
	D499W	104	59.5	40	1.0	1	1	93	56.9
	D504W	100	57.8	37	1.3	1	8	99	54.9
	XW2022	* 111	58.2	36	1.0	1	3	--	--
Dyna-Gro	9120	105	60.2	37	1.0	1	13	91	57.1
	9151	96	60.3	37	1.0	1	10	--	--
	9172	100	57.7	36	1.0	1	5	* 103	55.4
	9182	96	58.7	37	1.0	0	0	96	55.7
	9352	* 109	56.6	37	1.0	0	0	--	--
	9862	100	58.8	37	1.0	1	6	* 101	56.1
	WX22793	* 110	59.1	38	1.0	1	6	--	--
FS InSPIRE Wheat	FS 600	92	59.8	37	1.0	1	1	* 105	57.3
	FS 603	99	58.6	37	1.0	1	4	98	56.3
	FS 616	100	59.0	39	1.0	1	1	95	56.8
	FS 623	100	58.8	38	1.3	0	3	* 106	56.0
	FS 624	101	59.8	38	1.0	2	31	* 101	56.2
	FS 745	102	57.8	38	1.0	1	1	* 100	55.2
	FS WX22C	97	56.5	36	1.0	0	0	--	--
	FS WX22D	90	58.7	41	1.0	1	3	--	--
	FS WX22E	106	57.4	36	1.0	1	8	--	--

* Yield is not significantly different than that of the highest yielding cultivar (0.10 level)

¹ Fusarium head blight ² % incidence ³ % severity

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Table 7. 2022 Waterloo Winter Wheat Performance Trial Results

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Brand (Entrant)	Entry	2022 means						2021 means	
		Yield (bu/a)	Test wt. (lb/bu)	Height (in.)	Lodging (1-5)	FHB ¹ % ²	FHB ¹ S% ³	Yield (bu/a)	Test wt. (lb/bu)
Kennell Seed Farms	KS 1618	* 111	59.3	39	2.0	1	18	99	56.5
	KS 9229	97	60.1	42	1.0	0	0	--	--
KF Brand	KF 15241	95	59.1	39	1.0	0	5	97	56.9
	KF 15639	98	58.8	42	1.0	1	17	* 100	56.5
	KF 667	* 110	59.4	37	1.5	1	1	97	57.3
	KF 727	102	58.7	38	1.0	2	5	95	55.5
	KF 809	103	58.1	36	1.8	1	9	* 108	55.8
	KF 839	93	59.6	38	1.0	2	25	--	--
	KF 841	99	57.8	36	2.5	1	7	--	--
	KF 920	* 111	59.0	37	1.5	1	4	97	57.6
	KF EX813	99	57.1	35	1.5	1	13	--	--
KWS Cereals	KWS394	* 109	57.7	34	1.0	0	0	--	--
	KWS398	* 112	59.5	39	1.0	0	0	--	--
	KWS403	104	57.4	33	1.0	0	0	--	--
	KWS414	105	56.5	38	1.0	2	9	--	--
L-Brand (Ag Pro)	L-422	93	58.0	38	1.0	1	15	--	--
	L-430	84	59.7	36	1.0	1	5	93	57.6
	L-447	95	59.5	40	1.0	3	18	--	--
	L-448	92	58.0	35	1.0	1	1	93	56.9
	L-452	104	58.5	41	1.0	1	14	--	--
	L-458	96	58.6	40	1.0	3	19	--	--
	L-Star	* 110	59.8	39	1.5	2	15	* 101	55.3
Legacy	LW 2021	100	58.7	38	1.0	0	0	* 104	55.8
	LW 2023	102	58.0	36	1.0	1	1	* 103	55.1
	LW 2024	102	58.8	36	1.0	2	9	* 107	56.6
	LWX 1922	* 113	58.9	37	1.0	1	6	--	--
	LWX 2026	106	58.2	35	1.0	1	1	--	--
	LWX 2122	* 113	56.4	37	1.0	1	4	--	--
MCIA	Flipper	102	57.9	36	1.0	1	24	--	--
	Harpoon	101	57.5	36	1.0	0	0	96	54.8
	Marlin	106	57.9	37	1.8	1	6	--	--
OSIA	Starburst	94	61.0	33	1.0	1	4	--	--
Pioneer	25R28	100	59.3	36	1.0	1	5	--	--
	25R74	102	58.4	36	1.3	1	13	95	55.5
	25R76	106	58.4	39	1.8	1	9	--	--

* Yield is not significantly different than that of the highest yielding cultivar (0.10 level)

¹ Fusarium head blight ² % incidence ³ % severity

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Table 7. 2022 Waterloo Winter Wheat Performance Trial Results

continued from previous page



Brand (Entrant)	Entry	2022 means						2021 means	
		Yield (bu/a)	Test wt. (lb/bu)	Height (in.)	Lodging (1-5)	FHB ¹ l% ²	FHB ¹ S% ³	Yield (bu/a)	Test wt. (lb/bu)
PiP	702	106	56.1	36	1.0	0	0	--	--
	703	104	58.9	37	1.3	1	13	--	--
	704	99	57.7	37	1.0	1	5	97	56.8
	705	101	58.7	38	1.3	0	0	98	55.6
	706	100	58.6	36	1.0	0	0	94	55.6
	707	* 112	60.0	35	1.0	1	13	--	--
	708	100	58.3	39	1.0	1	13	--	--
	710	108	59.1	34	1.0	1	16	--	--
	711	101	58.5	40	1.0	1	16	--	--
	715	98	58.3	39	1.0	1	5	98	55.5
	735	107	57.4	36	1.0	1	3	* 102	55.4
	750	103	59.3	38	1.0	1	4	96	57.0
	762	* 109	58.8	38	1.0	1	19	97	56.4
	775	* 116	59.1	37	1.0	0	3	--	--
	781	* 113	55.7	40	1.5	1	6	--	--
	782	97	57.6	36	1.0	1	16	--	--
	783	102	58.0	35	1.0	0	3	--	--
	784	107	57.5	39	1.0	0	0	--	--
	785	104	59.0	34	1.0	2	6	--	--
	790	104	58.1	38	1.0	2	10	* 107	55.2
	791	105	60.0	36	1.0	1	20	94	57.2
	796	107	58.4	36	1.0	1	3	* 108	55.3
Pro Seed Genetics	PRO 410	97	59.6	38	1.3	1	30	99	56.3
	PRO 490A	103	57.8	38	1.0	1	11	--	--
	PRO Ex 230A	98	60.1	41	1.0	4	18	--	--
Public	Sunburst	95	61.7	36	1.0	1	14	95	57.7
Van Treeck's	L 024	* 111	60.0	36	1.0	1	13	--	--
	L 920	106	58.8	35	1.0	1	6	92	57.1
	Sittin' Pretty	103	58.3	37	1.0	1	3	--	--
Viking	801	105	59.5	37	1.0	1	5	--	--
	Mean	102	58.5	37	1.1	1	7	98	56.1
	LSD (.10)	7	0.6	2	0.5	1	11	8	0.5

* Yield is not significantly different than that of the highest yielding cultivar (0.10 level)

¹ Fusarium head blight ² % incidence ³ % severity

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Wisconsin Winter Wheat Performance Trials (A3868)

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