



A3868 **Wisconsin Winter Wheat
Performance Trials
2023**



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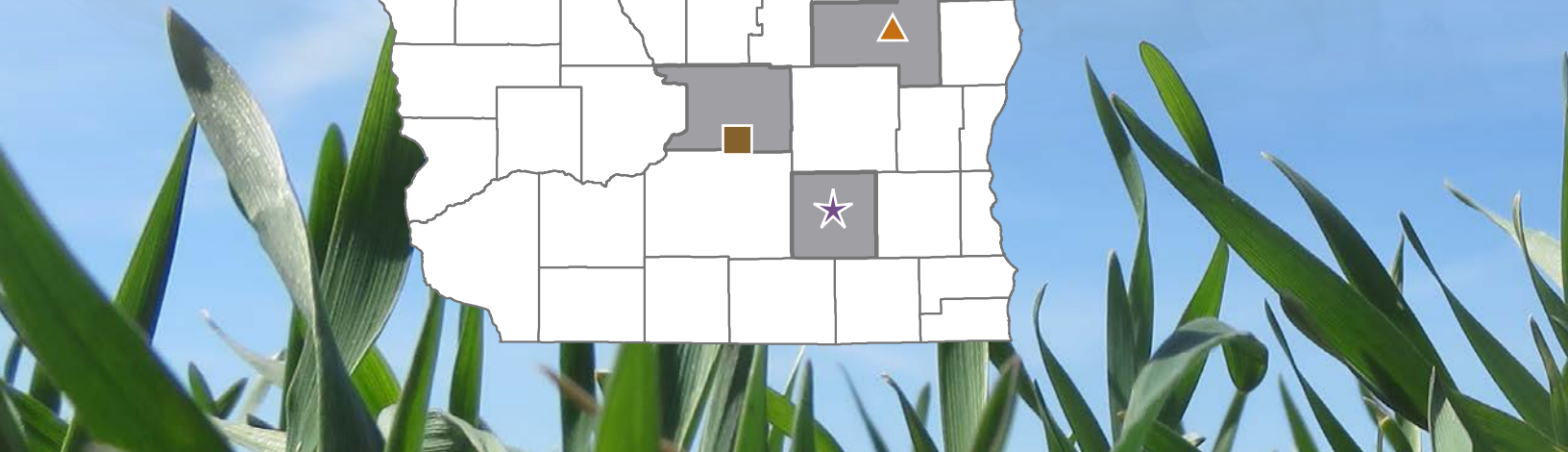
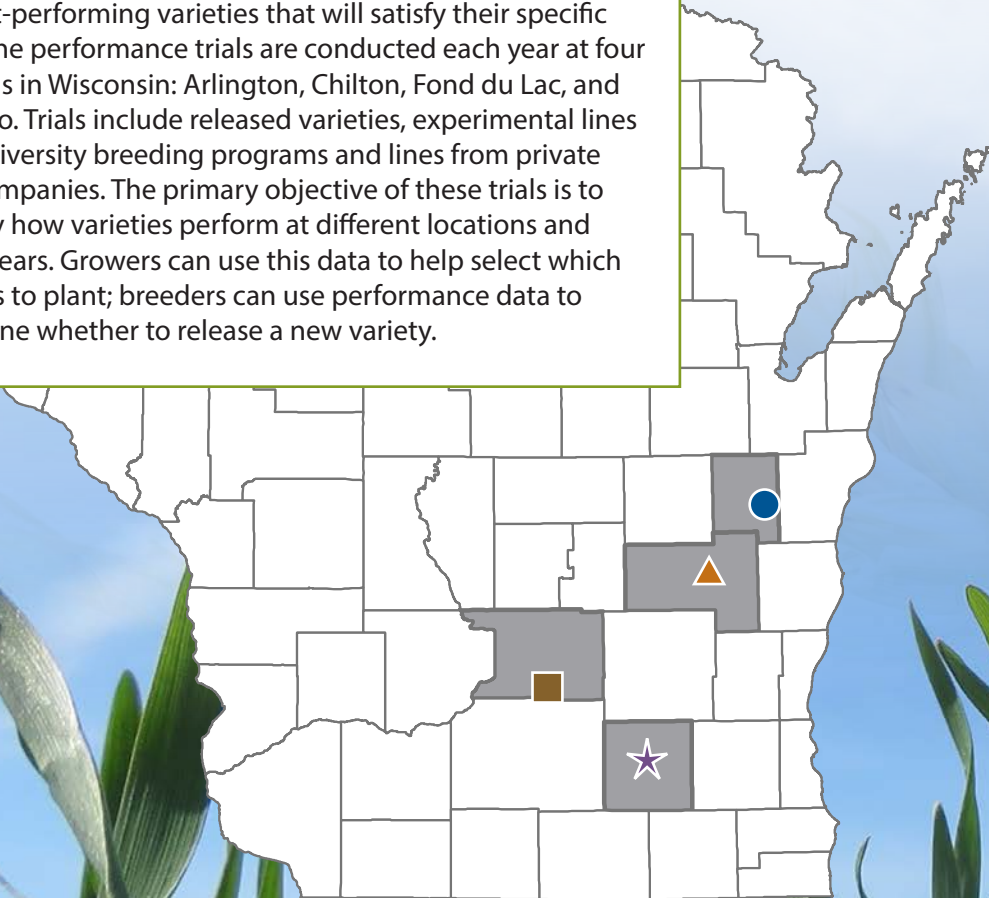


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The Wisconsin Winter Wheat Performance Trials are conducted each year to give growers information to select the best-performing varieties that will satisfy their specific goals. The performance trials are conducted each year at four locations in Wisconsin: 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 30, 2022
 Harvested: July 24, 2023
- 
Fond du Lac
 Cooperator: Ed Montsma
 Lomira silt loam
 7.5 inch row spacing
 Applied 55 lb N/a
 Planted: September 27, 2022
 Harvested: July 21, 2023
- 
Arlington
 Cooperator: Mike Bertram
 Plano silt loam
 7.5 inch row spacing
 Applied 55 lb N/a
 Planted: September 28, 2022
 Harvested: July 20, 2023
- 
Waterloo
 Cooperator: Larry Holzhueter
 McHenry silt loam
 7.5 inch row spacing
 Applied 55 lb N/a
 Planted: October 3, 2022
 Harvested: July 19, 2023



2023 Year in Review

Acres and Growing Conditions

Wisconsin saw a 3.3% decrease in winter wheat acres planted (290,000) in the 2022-2023 growing season compared to the previous year; 245,000 acres are forecasted to be harvested for grain, compared to 240,000 in 2022. The forecasted yield for the 2023 crop is 66 bu/a, down 12 bu/a from 2022. Wheat acres were generally planted on time with corn and soybean harvest progressing on average. Mild winter conditions and adequate snowfall resulted in good winter survival. Wheat broke dormancy in early April and crop development was normal even with below normal precipitation and normal GDU accumulation. In general, the crop was relatively short in stature.

Overall, winter wheat yield and test weights were average in 2023. Wheat yields at the Arlington, Chilton, Fond du Lac and Waterloo locations averaged 107, 107, 113, 93 bu/a, respectively.

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

Diseases

Statewide, winter wheat disease pressure was even lower than in 2021 when we had record low levels. The very hot and dry weather during much of the stem elongation and flag leaf emergence stages, meant that foliar and head disease pressure was the lowest that has been observed in many years in Wisconsin. One small exception in 2023 was the occurrence of powdery mildew that could be found on some susceptible varieties. The powdery mildew pathogen (*Blumeria graminis* f. sp. *tritici*) thrives in cool, dry, but humid conditions. For the most part the powdery mildew pathogen was slowed, once daytime temperatures were consistently above 81°F. No other diseases were observed with any consistency in 2023. Due to virtually non-existent disease pressure and no impact on yield, no formal disease ratings were conducted in 2023.

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.



Experimental Procedures

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. Due to virtually non-existent disease pressure and no impact on yield, no formal disease ratings were conducted in 2023.

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 2022 and 2023 are provided if the variety was entered in the 2022 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.

Testing Agencies

The Wisconsin Winter Wheat Performance Trials were conducted by the Departments of Plant & Agroecosystem Sciences and Plant Pathology, College of Agricultural and Life Sciences and the University of Madison-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](#)

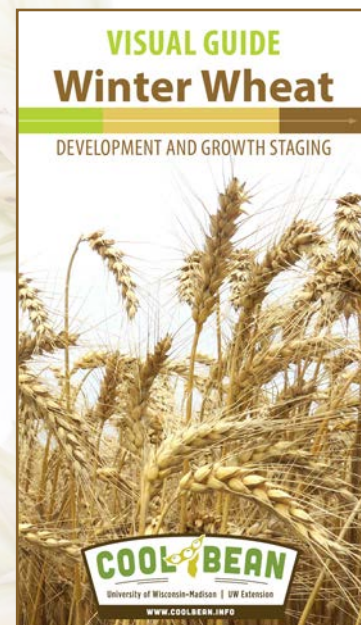


Table 1. 2023 Company Information

| Brand (Entrant) | Company Name | Phone | Website |
|-----------------------|-----------------------------------|----------------|--|
| AgriMAXX | AgriMAXX Wheat Company | (855) 629-9432 | www.agrimaxxwheat.com |
| AgriPro | Grow Pro Genetics | (618) 633-2017 | www.growprogenetics.com |
| CROPLAN | WinField United | | www.CROPLAN.com |
| Diener | BioTown Seeds Inc. | (219) 984-6038 | www.biotownseeds.com |
| Dyna-Gro | Nutrien Ag Solutions | (217) 993-1557 | nutrienagsolutions.com |
| FS InSPIRE Wheat | GROWMARK, Inc. | (309) 242-3439 | www.fsseeds.com |
| 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 | |
| Legacy | Legacy Seeds Inc. | (866) 791-6390 | www.legacyseeds.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) 846-3761 | www.wisconsinfoundationseeds.wisc.edu |
| VA Tech | Virginia Tech | | |
| Van Treck's | Van Treck's Seed Farm | (920) 467-2422 | |
| Viking | Albert Lea Seed | (800) 352-5247 | www.alseed.com |
| Williamsfield Seed Co | Williamsfield Seed Company | (309) 569-0008 | |

Table 2. 2023 Entered Varieties and Seed Treatments

| Brand (Entrant) | Variety | Head Type | Seed Treatment(s) | Brand (Entrant) | Variety | Head Type | Seed Treatment(s) |
|-----------------|----------|-----------|-------------------------------|------------------|---------|-----------|------------------------------------|
| AgriMAXX | 498 | Awnless | PRIME ST | Dyna-Gro | 9120 | Awned | Awaken, Foothold Virock |
| | 503 | Awnless | PRIME ST | | 9151 | Awned | Awaken, Foothold Virock |
| | 505 | Awned | PRIME ST | | 9172 | Awned | Awaken, Foothold Virock |
| | 513 | Awned | PRIME ST | | 9182 | Awnless | Awaken, Foothold Virock |
| | 516 | Awned | PRIME ST | | 9290 | Awned | Awaken, Foothold Virock |
| | 525 | Awned | PRIME ST | | 9481 | Awnless | Awaken, Foothold Virock |
| | 531 | Awnless | PRIME ST | | 9862 | Awnless | Awaken, Foothold Virock |
| | Exp 2302 | Awnless | PRIME ST | | WX23444 | Awnless | Cruiser, Vibrance Extreme |
| AgriPro | GP 463 | Awnless | Cruiser 5FS, Vibrance Extreme | FS InSPIRE Wheat | FS 597 | Awned | Vibrance Extreme, plus insecticide |
| | SY Viper | Awnless | Cruiser 5FS, Vibrance Extreme | | FS 600 | Awned | Vibrance Extreme, plus insecticide |
| CROPLAN | CP8007 | Awnless | Resonate, Warden Cereals II | | FS 603 | Awned | Vibrance Extreme, plus insecticide |
| | CP8045 | Awned | Resonate, Warden Cereals II | | FS 606 | Awnless | Vibrance Extreme, plus insecticide |
| | CP8224 | Awnless | Resonate, Warden Cereals II | | FS 617 | Awned | Vibrance Extreme, plus insecticide |
| | CP9203 | Awnless | Resonate, Warden Cereals II | | FS 623 | Awnless | Vibrance Extreme, plus insecticide |
| Diener | D491W | Awned | Resonate, Warden Cereals II | | FS 624 | Awnless | Vibrance Extreme, plus insecticide |
| | D504W | Awned | Resonate, Warden Cereals II | | FS 745 | Awned | Vibrance Extreme, plus insecticide |
| | DXW2022 | Awned | Resonate, Warden Cereals II | | | | |
| | DXW2023 | Awned | Resonate, Warden Cereals II | | | | |
| | DXW2024 | Awned | Resonate, Warden Cereals II | | | | |
| | DXW2025 | Awnless | Resonate, Warden Cereals II | | | | |

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Table 2. 2023 Entered Varieties and Seed Treatments

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| Brand (Entrant) | Variety | Head Type | Seed Treatment(s) | Brand (Entrant) | Variety | Head Type | Seed Treatment(s) |
|------------------|-----------|-----------|-----------------------|-----------------------|-----------------|-----------------------|-------------------------|
| KF Brand | KF 667 | Awnless | Vibrance Extreme | PiP | 701 | Awnless | Charter, Imidacloprid |
| | KF 809 | Awnless | Vibrance Extreme | | 702 | Awnless | Charter, Imidacloprid |
| | KF 819 | Awnless | Vibrance Extreme | | 705 | Awnless | Charter, Imidacloprid |
| | KF 839 | Awned | Vibrance Extreme | | 708 | Awnless | Charter, Imidacloprid |
| | KF 849 | Awnless | Vibrance Extreme | | 712 | Awnless | Charter, Imidacloprid |
| | KF 869 | Awnless | Vibrance Extreme | | 713 | Awned | Charter, Imidacloprid |
| | KF 898 | Awnless | Warden Cereals II | | 715 | Awned | Charter, Imidacloprid |
| | EX KF 848 | Awnless | Vibrance Extreme | | 753 | Awned | Charter, Imidacloprid |
| | EX KF 861 | Awnless | Vibrance Extreme | | 762 | Awned | Charter, Imidacloprid |
| | EX KF 908 | Awnless | Vibrance Extreme | | 763 | Awned | Charter, Imidacloprid |
| | EX KF 952 | Awnless | Vibrance Extreme | | 775 | Awned | Charter, Imidacloprid |
| KWS Cereals | KWS472 | Awned | CruiserMaxx, Vibrance | 776 | Awned | Charter, Imidacloprid | |
| | KWS490 | Awned | CruiserMaxx, Vibrance | 777 | Awned | Charter, Imidacloprid | |
| | KWS495 | Awned | CruiserMaxx, Vibrance | 778 | Awned | Charter, Imidacloprid | |
| L-Brand (Ag Pro) | L-410 | Awnletted | SabrEx, Tebustar | 779 | Awned | Charter, Imidacloprid | |
| | L-425 | Awnless | SabrEx, Tebustar | 781 | Awned | Charter, Imidacloprid | |
| | L-435 | Awnless | SabrEx, Tebustar | 785 | Awned | Charter, Imidacloprid | |
| | L-440 | Awnless | SabrEx, Tebustar | 790 | Awned | Charter, Imidacloprid | |
| | L-444 | Awnless | SabrEx, Tebustar | 791 | Awned | Charter, Imidacloprid | |
| | L-447 | Awned | SabrEx, Tebustar | 796 | Awned | Charter, Imidacloprid | |
| | L-450 | Awnless | SabrEx, Tebustar | 798 | Awned | Charter, Imidacloprid | |
| | L-452 | Awnless | SabrEx, Tebustar | 799 | Awned | Charter, Imidacloprid | |
| | L-Star | Awnletted | SabrEx, Tebustar | | | | |
| Legacy | LW 2021 | Awnless | SabrEx, Tebustar | Pro Seed Genetics | PRO 330A | Awned | Charter, Imidacloprid |
| | LW 2023 | Awned | SabrEx, Tebustar | | PRO 410 | Awnless | Sativa 309, Sebring 480 |
| | LW 2024 | Awned | SabrEx, Tebustar | | PRO 490A | Awned | Sativa 309, Sebring 480 |
| | LW 2026 | Awned | SabrEx, Tebustar | Public | Sunburst | Awnless | Athena |
| | LWS-P38 | Awnless | CruiserMaxx, Vibrance | VA Tech | 16VDH-SRW03-023 | Awnletted | fungicide |
| | LWXB-1012 | Awned | CruiserMaxx, Vibrance | | VA19FHB-36 | Awned | fungicide |
| | LWXB-305 | Awned | CruiserMaxx, Vibrance | Van Treeck's | L 024 | Awnless | CruiserMaxx, Vibrance |
| | LWXS-815 | Awnless | CruiserMaxx, Vibrance | | L 920 | Awnless | CruiserMaxx, Vibrance |
| | LWXS-P24 | Awnless | CruiserMaxx, Vibrance | | Sittin' Pretty | Awnless | CruiserMaxx, Vibrance |
| OSIA | Starburst | Awnless | Athena | Viking | 801 | Awned | Cruiser |
| Pioneer | 25R28 | Awned | LumiGEN | Williamsfield Seed Co | WSC 3804 | Awnless | CereUS |
| | 25R64 | Awned | LumiGEN | | WSC 3906 | Awned | CereUS |
| | 25R76 | Awned | LumiGEN | | | | |

Table 3. 2023 Combined Winter Wheat Performance Trial Results

| Brand (Entrant) | Entry | 2023 4-test average ¹ | | ■ Arlington | | ● Chilton | | ▲ Fond du Lac | | ★ Waterloo | | 2022 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) | Test wt. (lb/bu) |
| AgriMAXX | 498 | 108 | 56.5 | 109 | 55.8 | 106 | 58.8 | * 119 | 57.3 | 91 | 55.6 | 108 | 57.7 |
| | 503 | 107 | 57.7 | 109 | 56.5 | 103 | 59.9 | 113 | 59.4 | 86 | 55.9 | 106 | 58.6 |
| | 505 | 105 | 60.7 | 104 | 59.9 | 108 | 62.4 | 108 | 62.0 | 95 | 58.6 | 105 | 60.8 |
| | 513 | 102 | 59.4 | 99 | 58.6 | 103 | 61.1 | 106 | 60.9 | 90 | 57.8 | 109 | 59.6 |
| | 516 | 107 | 58.5 | 101 | 57.8 | 107 | 60.1 | * 126 | 60.3 | 89 | 56.9 | 108 | 58.7 |
| | 525 | 106 | 58.4 | 109 | 57.7 | 109 | 60.4 | 112 | 59.6 | 91 | 56.9 | *118 | 59.4 |
| | 531 | 99 | 58.9 | 105 | 58.1 | 104 | 61.4 | 97 | 59.6 | 87 | 57.7 | -- | -- |
| | Exp 2302 | 108 | 58.0 | 108 | 57.0 | 108 | 59.9 | 109 | 59.2 | * 102 | 57.5 | -- | -- |
| AgriPro | GP 463 | 100 | 57.5 | 97 | 56.3 | 105 | 59.3 | 105 | 58.9 | 89 | 56.6 | 101 | 58.0 |
| | SY Viper | 109 | 59.1 | 111 | 57.8 | * 111 | 61.6 | 110 | 60.3 | 93 | 57.8 | 102 | 60.1 |
| CROPLAN | CP8007 | * 112 | 57.6 | 109 | 56.9 | * 114 | 59.4 | * 120 | 59.2 | * 105 | 56.4 | *114 | 58.5 |
| | CP8045 | 104 | 58.6 | 106 | 57.8 | 104 | 60.5 | 112 | 59.9 | 88 | 57.1 | 108 | 58.6 |
| | CP8224 | 109 | 59.2 | 108 | 58.3 | * 111 | 61.6 | 117 | 60.4 | 97 | 57.2 | *116 | 59.9 |
| | CP9203 | 107 | 57.9 | * 113 | 57.0 | 102 | 59.9 | 112 | 59.2 | 95 | 56.7 | -- | -- |
| Diener | D491W | 111 | 57.9 | * 115 | 57.1 | 107 | 59.3 | * 123 | 59.5 | * 98 | 56.8 | 109 | 58.0 |
| | D504W | 107 | 58.5 | 111 | 58.0 | * 112 | 60.4 | 116 | 59.8 | 92 | 57.1 | 109 | 58.9 |
| | DXW2022 | * 112 | 58.3 | * 113 | 57.5 | 109 | 60.1 | * 125 | 60.0 | 94 | 56.4 | *116 | 58.0 |
| | DXW2023 | 111 | 57.1 | 104 | 56.7 | 109 | 59.5 | * 125 | 57.6 | * 98 | 56.6 | -- | -- |
| | DXW2024 | 107 | 58.4 | 108 | 58.0 | 106 | 60.3 | 117 | 59.3 | 95 | 56.7 | -- | -- |
| | DXW2025 | 96 | 57.7 | 97 | 57.0 | 95 | 60.5 | 98 | 58.4 | 80 | 55.2 | -- | -- |
| Dyna-Gro | 9120 | 106 | 60.1 | 108 | 59.4 | 108 | 61.9 | 108 | 60.9 | 91 | 59.2 | 108 | 60.0 |
| | 9151 | 107 | 60.5 | 107 | 59.6 | * 112 | 62.3 | 113 | 62.0 | 90 | 58.3 | 104 | 60.9 |
| | 9172 | 107 | 58.2 | 109 | 57.6 | 107 | 60.2 | 115 | 59.5 | 93 | 56.8 | 110 | 58.7 |
| | 9182 | 107 | 57.8 | 107 | 56.8 | 105 | 60.1 | * 122 | 59.6 | 87 | 56.1 | 107 | 58.6 |
| | 9290 | 105 | 58.8 | 109 | 58.0 | 106 | 60.8 | 110 | 59.8 | 91 | 57.7 | -- | -- |
| | 9481 | 106 | 58.1 | 107 | 57.5 | 109 | 59.8 | 108 | 59.2 | * 99 | 57.0 | -- | -- |
| | 9862 | 104 | 57.6 | 104 | 56.2 | 104 | 59.7 | 115 | 59.3 | 94 | 56.5 | 100 | 58.8 |
| | WX23444 | 109 | 56.0 | 106 | 55.4 | * 114 | 58.1 | 115 | 56.5 | * 104 | 56.3 | -- | -- |
| FS InSPIRE Wheat | FS 597 | 106 | 58.8 | 107 | 58.1 | 107 | 60.9 | 114 | 59.8 | 91 | 57.5 | -- | -- |
| | FS 600 | 106 | 60.8 | 107 | 60.0 | 103 | 62.3 | 114 | 62.4 | 92 | 58.6 | 105 | 61.0 |
| | FS 603 | 105 | 59.4 | 110 | 58.8 | 100 | 61.3 | 116 | 60.5 | 96 | 58.5 | 103 | 58.9 |
| | FS 606 | 106 | 59.9 | 110 | 58.7 | * 114 | 62.2 | 115 | 61.5 | 86 | 58.1 | -- | -- |
| | FS 617 | 107 | 58.8 | 108 | 58.0 | 109 | 60.5 | 110 | 60.3 | * 98 | 57.3 | -- | -- |
| | FS 623 | 107 | 57.4 | 111 | 56.3 | 108 | 60.1 | 112 | 58.4 | 90 | 56.0 | 110 | 58.9 |
| | FS 624 | 108 | 58.9 | 109 | 57.8 | 106 | 61.6 | * 122 | 60.7 | * 98 | 56.9 | 106 | 59.7 |
| | FS 745 | 109 | 58.4 | 112 | 57.8 | * 113 | 60.5 | * 119 | 59.9 | 95 | 56.9 | 109 | 58.7 |

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

¹ 4-test sites were Arlington, Chilton, Fond du Lac, and Waterloo

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

continued on next page

Table 3. 2023 Combined Winter Wheat Performance Trial Results

continued from previous page

| Brand (Entrant) | Entry | 2023 4-test average ¹ | | ■ Arlington | | ● Chilton | | ▲ Fond du Lac | | ★ Waterloo | | 2022 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) | Test wt. (lb/bu) |
| KF Brand | KF 667 | 110 | 59.0 | 110 | 58.0 | * 118 | 61.4 | 109 | 59.4 | 97 | 58.4 | 106 | 59.3 |
| | KF 809 | * 115 | 58.2 | * 114 | 57.2 | * 119 | 61.1 | * 124 | 59.1 | * 100 | 57.1 | 111 | 58.7 |
| | KF 819 | 108 | 56.4 | 104 | 55.4 | * 115 | 58.5 | 111 | 57.3 | * 99 | 55.5 | -- | -- |
| | KF 839 | 102 | 60.4 | 103 | 59.5 | 110 | 62.5 | 113 | 61.8 | 89 | 58.9 | 105 | 60.8 |
| | KF 849 | 108 | 59.0 | 105 | 58.1 | * 112 | 61.9 | 113 | 60.1 | 96 | 56.6 | 102 | 58.2 |
| | KF 869 | 104 | 59.7 | 108 | 58.5 | 110 | 62.2 | 113 | 61.1 | 86 | 58.2 | -- | -- |
| | KF 898 | 105 | 58.7 | 105 | 58.3 | 98 | 59.8 | 111 | 59.8 | * 99 | 57.4 | -- | -- |
| | EX KF 848 | 103 | 59.2 | 106 | 58.4 | 106 | 61.4 | 101 | 59.9 | 85 | 58.1 | -- | -- |
| | EX KF 861 | 103 | 58.8 | 104 | 58.2 | * 112 | 61.1 | 103 | 59.1 | 86 | 57.2 | -- | -- |
| | EX KF 908 | 103 | 58.2 | 101 | 57.3 | 105 | 60.4 | 112 | 59.6 | 88 | 56.5 | -- | -- |
| EX KF 952 | 102 | 57.9 | 103 | 57.0 | 107 | 60.4 | 103 | 58.7 | 91 | 57.6 | -- | -- | |
| KWS Cereals | KWS472 | 100 | 58.3 | 92 | 57.8 | 102 | 59.7 | 113 | 59.8 | 96 | 57.5 | -- | -- |
| | KWS490 | * 114 | 58.5 | * 115 | 57.8 | * 115 | 60.2 | * 123 | 59.7 | 97 | 56.8 | -- | -- |
| | KWS495 | 104 | 58.2 | 99 | 57.3 | 106 | 60.3 | 108 | 59.2 | * 102 | 57.6 | -- | -- |
| L-Brand (Ag Pro) | L-410 | 102 | 59.7 | 106 | 58.8 | * 111 | 61.7 | 109 | 61.2 | 87 | 58.1 | -- | -- |
| | L-425 | 102 | 59.7 | 102 | 58.7 | 108 | 61.9 | 106 | 61.0 | 91 | 58.3 | -- | -- |
| | L-435 | 101 | 59.1 | 105 | 58.2 | 106 | 61.4 | 105 | 60.5 | 84 | 57.6 | -- | -- |
| | L-440 | 95 | 58.8 | 101 | 57.7 | 97 | 61.3 | 109 | 60.0 | 74 | 58.0 | -- | -- |
| | L-444 | 111 | 58.4 | 108 | 57.3 | * 113 | 60.8 | * 127 | 59.9 | 93 | 57.9 | -- | -- |
| | L-447 | 103 | 60.5 | 102 | 59.9 | 108 | 62.2 | 111 | 61.8 | 94 | 59.1 | 103 | 60.6 |
| | L-450 | 103 | 57.9 | 106 | 57.3 | 102 | 59.9 | 106 | 58.4 | 85 | 56.3 | -- | -- |
| | L-452 | 109 | 58.1 | 108 | 57.9 | 110 | 60.0 | * 120 | 59.0 | * 99 | 56.6 | 112 | 58.6 |
| | L-Star | 95 | 58.7 | 99 | 57.8 | 101 | 61.2 | 100 | 59.5 | 81 | 58.1 | 110 | 58.7 |
| Legacy | LW 2021 | 106 | 57.7 | * 114 | 56.8 | 108 | 60.0 | 110 | 59.0 | 92 | 56.6 | 107 | 58.7 |
| | LW 2023 | 106 | 58.5 | 107 | 57.9 | 107 | 60.4 | 113 | 59.7 | 89 | 56.8 | 107 | 58.6 |
| | LW 2024 | 105 | 58.8 | 105 | 58.2 | 107 | 60.5 | 111 | 60.0 | 90 | 57.1 | 110 | 59.3 |
| | LW 2026 | 111 | 58.1 | 110 | 57.4 | 110 | 59.7 | 116 | 59.1 | * 100 | 56.6 | 113 | 58.1 |
| | LWS-P38 | 109 | 55.9 | 106 | 55.4 | 110 | 57.7 | 118 | 56.4 | * 102 | 55.9 | -- | -- |
| | LWXB-1012 | 105 | 58.0 | 107 | 57.3 | 100 | 59.0 | * 120 | 59.5 | 91 | 56.8 | -- | -- |
| | LWXB-305 | 111 | 57.1 | 109 | 56.6 | 103 | 58.8 | * 122 | 58.2 | * 103 | 56.6 | -- | -- |
| | LWXS-815 | 105 | 58.2 | 107 | 57.6 | 106 | 60.4 | 110 | 59.4 | 90 | 56.7 | -- | -- |
| LWXS-P24 | 99 | 57.4 | 96 | 55.9 | 102 | 59.8 | 104 | 59.1 | 84 | 56.6 | -- | -- | |
| OSIA | Starburst | 99 | 59.6 | 98 | 59.1 | 106 | 61.8 | 109 | 60.9 | 84 | 57.0 | 103 | 61.4 |
| Pioneer | 25R28 | 92 | 59.8 | 94 | 59.5 | 80 | 62.0 | 102 | 61.0 | 90 | 58.1 | 107 | 59.4 |
| | 25R64 | 111 | 57.6 | 107 | 57.1 | 105 | 59.5 | 118 | 58.7 | * 100 | 55.6 | -- | -- |
| | 25R76 | 105 | 58.3 | 104 | 58.0 | 108 | 60.5 | 118 | 59.4 | 92 | 56.2 | 107 | 58.7 |

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

¹ 4-test sites were Arlington, Chilton, Fond du Lac, and Waterloo

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

continued on next page

Table 3. 2023 Combined Winter Wheat Performance Trial Results

continued from previous page

| Brand (Entrant) | Entry | 2023 4-test average ¹ | | ■ Arlington | | ● Chilton | | ▲ Fond du Lac | | ★ Waterloo | | 2022 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) | Test wt. (lb/bu) |
| PiP | 701 | 104 | 58.2 | 105 | 57.7 | 107 | 60.2 | 112 | 59.4 | 90 | 56.4 | -- | -- |
| | 702 | * 112 | 57.3 | * 114 | 56.6 | 104 | 59.2 | * 121 | 58.6 | * 101 | 56.2 | 113 | 56.8 |
| | 705 | 105 | 57.6 | 109 | 56.7 | 106 | 59.8 | 115 | 58.7 | 89 | 55.9 | 110 | 58.7 |
| | 708 | 111 | 58.1 | 108 | 57.7 | 109 | 60.0 | 118 | 59.3 | * 98 | 56.4 | 112 | 58.6 |
| | 712 | * 113 | 56.9 | * 114 | 55.6 | * 111 | 59.0 | * 122 | 58.4 | * 101 | 56.4 | -- | -- |
| | 713 | 103 | 57.8 | 101 | 57.3 | 107 | 59.8 | 109 | 59.1 | 93 | 56.4 | -- | -- |
| | 715 | 103 | 57.9 | 102 | 57.4 | 109 | 60.2 | 117 | 59.1 | 83 | 55.9 | 108 | 58.8 |
| | 753 | 109 | 57.9 | 111 | 57.4 | 107 | 59.7 | 113 | 58.7 | 94 | 56.2 | -- | -- |
| | 762 | 103 | 58.9 | 107 | 57.9 | 103 | 60.6 | 107 | 60.5 | 89 | 57.1 | 109 | 59.4 |
| | 763 | 108 | 58.2 | 108 | 57.8 | 97 | 60.1 | * 119 | 59.2 | * 99 | 57.0 | -- | -- |
| | 775 | 110 | 58.7 | 112 | 57.9 | 110 | 60.7 | 111 | 59.8 | * 99 | 56.4 | *114 | 58.9 |
| | 776 | 105 | 58.2 | 109 | 57.7 | 108 | 60.5 | 105 | 59.1 | 88 | 56.3 | -- | -- |
| | 777 | 99 | 59.2 | 99 | 58.4 | 103 | 61.2 | 110 | 61.0 | 84 | 56.8 | -- | -- |
| | 778 | 107 | 58.0 | 104 | 57.4 | 108 | 59.5 | * 119 | 59.5 | * 103 | 57.2 | -- | -- |
| | 779 | 107 | 58.8 | 108 | 58.3 | 107 | 60.3 | 117 | 60.1 | 97 | 57.8 | -- | -- |
| | 781 | * 117 | 56.7 | * 119 | 55.8 | * 118 | 58.3 | * 126 | 57.9 | * 107 | 56.3 | *115 | 56.6 |
| | 785 | 108 | 58.7 | 110 | 58.0 | 105 | 60.5 | 112 | 60.2 | 95 | 57.2 | 109 | 59.2 |
| | 790 | 108 | 58.5 | 110 | 57.9 | 106 | 60.5 | 113 | 59.9 | * 101 | 57.2 | 110 | 58.8 |
| | 791 | 105 | 60.2 | 107 | 59.5 | 103 | 61.9 | 110 | 61.1 | 97 | 59.4 | 110 | 59.7 |
| | 796 | * 113 | 58.3 | * 114 | 57.8 | 109 | 59.8 | * 123 | 59.4 | * 98 | 56.5 | 113 | 58.3 |
| 798 | 107 | 58.0 | 107 | 57.2 | 107 | 60.2 | 113 | 58.9 | 91 | 55.9 | -- | -- | |
| 799 | * 113 | 57.4 | * 114 | 57.1 | * 115 | 59.3 | * 123 | 58.1 | * 100 | 56.6 | -- | -- | |
| Pro Seed Genetics | PRO 330A | 100 | 59.3 | 99 | 58.3 | 101 | 61.2 | 106 | 60.4 | 81 | 57.7 | -- | -- |
| | PRO 410 | 106 | 59.2 | 110 | 58.5 | 105 | 61.1 | 113 | 60.6 | * 99 | 56.8 | 104 | 59.6 |
| | PRO 490A | 108 | 58.5 | 108 | 57.8 | 109 | 60.2 | 114 | 59.7 | 95 | 57.2 | 107 | 58.0 |
| Public | Sunburst | 99 | 59.2 | 97 | 58.3 | 108 | 62.2 | 102 | 60.5 | 82 | 56.1 | 100 | 61.3 |
| VA Tech | 16VDH-SRW03-023 | 108 | 57.8 | 107 | 56.6 | 109 | 59.9 | 115 | 59.2 | 90 | 56.4 | -- | -- |
| | VA19FHB-36 | 107 | 59.8 | 105 | 58.9 | 110 | 61.8 | 115 | 61.0 | 91 | 58.1 | -- | -- |
| Van Treec's | L 024 | 107 | 59.0 | 108 | 58.0 | 108 | 61.9 | 111 | 60.0 | 90 | 56.7 | *117 | 59.9 |
| | L 920 | 103 | 58.6 | 98 | 57.4 | * 111 | 61.2 | 105 | 59.2 | 91 | 58.3 | 105 | 59.3 |
| | Sittin' Pretty | * 114 | 58.3 | * 118 | 56.8 | * 113 | 61.0 | 118 | 59.3 | 96 | 57.5 | 107 | 58.8 |
| Viking | 801 | 106 | 59.2 | 109 | 58.2 | 107 | 60.9 | 114 | 60.7 | 90 | 58.1 | 105 | 59.7 |
| Williamsfield Seed Company | WSC 3804 | 96 | 60.1 | 102 | 59.1 | 103 | 62.9 | 99 | 61.0 | 78 | 57.3 | -- | -- |
| | WSC 3906 | 102 | 58.9 | 102 | 58.1 | 109 | 61.0 | 110 | 59.8 | 87 | 58.0 | -- | -- |
| | Mean | 106 | 58.5 | 107 | 57.7 | 107 | 60.5 | 113 | 59.7 | 93 | 57.1 | 107 | 58.8 |
| | LSD(.10) | 5 | 0.5 | 6 | 0.6 | 8 | 0.6 | 8 | 0.7 | 9 | 0.6 | 4 | 0.4 |

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

¹ 4-test sites were Arlington, Chilton, Fond du Lac, and Waterloo

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

Table 4. 2023 Arlington Winter Wheat Performance Trial Results

For the 2022 and 2023 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 was intended to provide data on how different varieties respond to an anthesis timed fungicide application. A fungicide column is not shown for 2023 because no significant differences were found.

| Brand (Entrant) | Entry | Head Type | 2023 means | | | | 2022 means | | | |
|-------------------------|----------|-----------|--------------|------------------|--------------|---------------|---------------------------|--------------|------------------|------------------|
| | | | Yield (bu/a) | Test wt. (lb/bu) | Height (in.) | Lodging (1-5) | Fungicide | | No-fungicide | |
| | | | | | | | Yield ¹ (bu/a) | Yield (bu/a) | Test wt. (lb/bu) | Test wt. (lb/bu) |
| AgriMAXX | 498 | Awnless | 109 | 55.8 | 34 | 1.0 | ^ 109 | 99 | 55.7 | |
| | 503 | Awnless | 109 | 56.5 | 32 | 1.0 | 105 | 102 | 56.2 | |
| | 505 | Awned | 104 | 59.9 | 32 | 1.0 | 100 | 102 | 57.5 | |
| | 513 | Awned | 99 | 58.6 | 31 | 1.0 | 105 | 98 | 56.2 | |
| | 516 | Awned | 101 | 57.8 | 29 | 1.0 | 102 | 102 | 54.9 | |
| | 525 | Awned | 109 | 57.7 | 31 | 1.0 | 115 | *112 | 55.9 | |
| | 531 | Awnless | 105 | 58.1 | 34 | 1.0 | -- | -- | -- | |
| | Exp 2302 | Awnless | 108 | 57.0 | 31 | 1.0 | -- | -- | -- | |
| AgriPro | GP 463 | Awnless | 97 | 56.3 | 30 | 1.0 | 100 | 97 | 55.5 | |
| | SY Viper | Awnless | 111 | 57.8 | 35 | 1.0 | 103 | 96 | 58.1 | |
| CROPLAN | CP8007 | Awnless | 109 | 56.9 | 28 | 1.0 | ^ 118 | *104 | 55.2 | |
| | CP8045 | Awned | 106 | 57.8 | 29 | 1.0 | 106 | 103 | 55.4 | |
| | CP8224 | Awnless | 108 | 58.3 | 29 | 1.0 | ^ 114 | *105 | 56.8 | |
| | CP9203 | Awnless | *113 | 57.0 | 32 | 1.0 | -- | -- | -- | |
| Diener | D491W | Awned | *115 | 57.1 | 30 | 1.0 | ^ 107 | 99 | 54.9 | |
| | D504W | Awned | 111 | 58.0 | 30 | 1.0 | 105 | 100 | 55.6 | |
| | DXW2022 | Awned | *113 | 57.5 | 30 | 1.0 | 113 | *109 | 54.8 | |
| | DXW2023 | Awned | 104 | 56.7 | 31 | 1.0 | -- | -- | -- | |
| | DXW2024 | Awned | 108 | 58.0 | 31 | 1.0 | -- | -- | -- | |
| | DXW2025 | Awnless | 97 | 57.0 | 33 | 1.0 | -- | -- | -- | |
| Dyna-Gro | 9120 | Awned | 108 | 59.4 | 30 | 1.0 | 104 | 100 | 57.2 | |
| | 9151 | Awned | 107 | 59.6 | 30 | 1.0 | 100 | 100 | 57.7 | |
| | 9172 | Awned | 109 | 57.6 | 30 | 1.0 | 106 | 101 | 55.1 | |
| | 9182 | Awnless | 107 | 56.8 | 32 | 1.0 | 108 | *106 | 56.6 | |
| | 9290 | Awned | 109 | 58.0 | 32 | 1.0 | -- | -- | -- | |
| | 9481 | Awnless | 107 | 57.5 | 32 | 1.0 | -- | -- | -- | |
| | 9862 | Awnless | 104 | 56.2 | 29 | 1.0 | 90 | 94 | 55.8 | |
| | WX23444 | Awnless | 106 | 55.4 | 32 | 1.0 | -- | -- | -- | |
| FS InSPIRE Wheat | FS 597 | Awned | 107 | 58.1 | 32 | 1.0 | -- | -- | -- | |
| | FS 600 | Awned | 107 | 60.0 | 32 | 1.0 | 95 | 97 | 57.7 | |
| | FS 603 | Awned | 110 | 58.8 | 32 | 1.0 | 98 | 93 | 56.3 | |
| | FS 606 | Awnless | 110 | 58.7 | 35 | 1.0 | -- | -- | -- | |
| | FS 617 | Awned | 108 | 58.0 | 30 | 1.0 | -- | -- | -- | |
| | FS 623 | Awnless | 111 | 56.3 | 33 | 1.0 | 102 | *106 | 56.5 | |
| | FS 624 | Awnless | 109 | 57.8 | 34 | 1.0 | ^ 109 | 102 | 56.2 | |

1 Only yield showed a possible significant difference with fungicide
 ^ Significant yield increase with Feekes 10.5.1 fungicide application (0.10 level)
 * Yield not significantly different than that of the highest yielding cultivar (0.10 level)

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Table 4. 2023 Arlington Winter Wheat Performance Trial Results

continued from previous page

| Brand (Entrant) | Entry | Head Type | 2023 means | | | | 2022 means | | |
|------------------|-----------|-----------|--------------|------------------|--------------|---------------|---------------------------|--------------|------------------|
| | | | Yield (bu/a) | Test wt. (lb/bu) | Height (in.) | Lodging (1-5) | Fungicide | No-fungicide | |
| | | | | | | | Yield ¹ (bu/a) | Yield (bu/a) | Test wt. (lb/bu) |
| KF Brand | FS 745 | Awned | 112 | 57.8 | 32 | 1.0 | 103 | 103 | 55.5 |
| | KF 667 | Awnless | 110 | 58.0 | 33 | 1.0 | ^ 107 | 99 | 57.2 |
| | KF 809 | Awnless | *114 | 57.2 | 32 | 1.0 | 105 | 101 | 55.6 |
| | KF 819 | Awnless | 104 | 55.4 | 28 | 1.0 | -- | -- | -- |
| | KF 839 | Awned | 103 | 59.5 | 32 | 1.0 | 103 | *104 | 56.6 |
| | KF 849 | Awnless | 105 | 58.1 | 30 | 1.0 | 100 | 102 | 55.8 |
| | KF 869 | Awnless | 108 | 58.5 | 35 | 1.0 | -- | -- | -- |
| | KF 898 | Awnless | 105 | 58.3 | 32 | 1.0 | -- | -- | -- |
| | EX KF 848 | Awnless | 106 | 58.4 | 33 | 1.0 | -- | -- | -- |
| | EX KF 861 | Awnless | 104 | 58.2 | 33 | 1.0 | -- | -- | -- |
| | EX KF 908 | Awnless | 101 | 57.3 | 30 | 1.0 | -- | -- | -- |
| | EX KF 952 | Awnless | 103 | 57.0 | 34 | 1.0 | -- | -- | -- |
| KWS Cereals | KWS472 | Awned | 92 | 57.8 | 26 | 1.0 | -- | -- | -- |
| | KWS490 | Awned | *115 | 57.8 | 30 | 1.0 | -- | -- | -- |
| | KWS495 | Awned | 99 | 57.3 | 29 | 1.0 | -- | -- | -- |
| L-Brand (Ag Pro) | L-410 | Awnletted | 106 | 58.8 | 34 | 1.0 | -- | -- | -- |
| | L-425 | Awnless | 102 | 58.7 | 37 | 1.0 | -- | -- | -- |
| | L-435 | Awnless | 105 | 58.2 | 34 | 1.0 | -- | -- | -- |
| | L-440 | Awnless | 101 | 57.7 | 33 | 1.0 | -- | -- | -- |
| | L-444 | Awnless | 108 | 57.3 | 33 | 1.0 | -- | -- | -- |
| | L-447 | Awned | 102 | 59.9 | 31 | 1.0 | ^ 106 | 95 | 56.7 |
| | L-450 | Awnless | 106 | 57.3 | 32 | 1.0 | -- | -- | -- |
| | L-452 | Awnless | 108 | 57.9 | 34 | 1.0 | ^ 113 | 101 | 56.0 |
| | L-Star | Awnletted | 99 | 57.8 | 35 | 1.0 | 101 | *106 | 56.5 |
| Legacy | LW 2021 | Awnless | *114 | 56.8 | 32 | 1.0 | 105 | 102 | 56.4 |
| | LW 2023 | Awned | 107 | 57.9 | 31 | 1.0 | 103 | 102 | 55.3 |
| | LW 2024 | Awned | 105 | 58.2 | 29 | 1.0 | 110 | *109 | 56.7 |
| | LW 2026 | Awned | 110 | 57.4 | 31 | 1.0 | 110 | *106 | 54.6 |
| | LWS-P38 | Awnless | 106 | 55.4 | 33 | 1.0 | -- | -- | -- |
| | LWXB-1012 | Awned | 107 | 57.3 | 30 | 1.0 | -- | -- | -- |
| | LWXB-305 | Awned | 109 | 56.6 | 33 | 1.0 | -- | -- | -- |
| | LWXS-815 | Awnless | 107 | 57.6 | 31 | 1.0 | -- | -- | -- |
| | LWXS-P24 | Awnless | 96 | 55.9 | 31 | 1.0 | -- | -- | -- |
| | OSIA | Starburst | Awnless | 98 | 59.1 | 28 | 1.0 | ^ 108 | 97 |
| Pioneer | 25R28 | Awned | 94 | 59.5 | 29 | 1.0 | 99 | *104 | 56.2 |
| | 25R64 | Awned | 107 | 57.1 | 29 | 1.0 | -- | -- | -- |
| | 25R76 | Awned | 104 | 58.0 | 31 | 1.0 | 101 | 101 | 56.6 |

1 Only yield showed a possible significant difference with fungicide
 ^ Significant yield increase with Feekes 10.5.1 fungicide application (0.10 level)
 * Yield not significantly different than that of the highest yielding cultivar (0.10 level)

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Table 4. 2023 Arlington Winter Wheat Performance Trial Results

continued from previous page

| Brand (Entrant) | Entry | Head Type | 2023 means | | | | 2022 means | | |
|----------------------------|-----------------|------------------|--------------|------------------|--------------|---------------|---------------------------|--------------|------------------|
| | | | Yield (bu/a) | Test wt. (lb/bu) | Height (in.) | Lodging (1-5) | Fungicide | No-fungicide | |
| | | | | | | | Yield ¹ (bu/a) | Yield (bu/a) | Test wt. (lb/bu) |
| PiP | 701 | Awnless | 105 | 57.7 | 31 | 1.0 | -- | -- | -- |
| | 702 | Awnless | *114 | 56.6 | 33 | 1.0 | 116 | *109 | 54.6 |
| | 705 | Awnless | 109 | 56.7 | 30 | 1.0 | 108 | *108 | 56.4 |
| | 708 | Awnless | 108 | 57.7 | 33 | 1.0 | 113 | *106 | 56.3 |
| | 712 | Awnless | *114 | 55.6 | 33 | 1.0 | -- | -- | -- |
| | 713 | Awned | 101 | 57.3 | 32 | 1.0 | -- | -- | -- |
| | 715 | Awned | 102 | 57.4 | 34 | 1.0 | 101 | 103 | 56.1 |
| | 753 | Awned | 111 | 57.4 | 31 | 1.0 | -- | -- | -- |
| | 762 | Awned | 107 | 57.9 | 32 | 1.0 | 106 | 99 | 56.1 |
| | 763 | Awned | 108 | 57.8 | 31 | 1.0 | -- | -- | -- |
| | 775 | Awned | 112 | 57.9 | 30 | 1.0 | 105 | *106 | 55.4 |
| | 776 | Awned | 109 | 57.7 | 32 | 1.0 | -- | -- | -- |
| | 777 | Awned | 99 | 58.4 | 33 | 1.0 | -- | -- | -- |
| | 778 | Awned | 104 | 57.4 | 30 | 1.0 | -- | -- | -- |
| | 779 | Awned | 108 | 58.3 | 30 | 1.0 | -- | -- | -- |
| | 781 | Awned | *119 | 55.8 | 34 | 1.0 | 111 | *107 | 54.6 |
| | 785 | Awned | 110 | 58.0 | 30 | 1.0 | 104 | 102 | 56.5 |
| | 790 | Awned | 110 | 57.9 | 30 | 1.0 | ^ 113 | *105 | 55.3 |
| | 791 | Awned | 107 | 59.5 | 31 | 1.0 | ^ 105 | 97 | 57.0 |
| 796 | Awned | *114 | 57.8 | 30 | 1.0 | ^ 113 | *104 | 54.8 | |
| 798 | Awned | 107 | 57.2 | 32 | 1.0 | -- | -- | -- | |
| 799 | Awned | *114 | 57.1 | 32 | 1.0 | -- | -- | -- | |
| Pro Seed Genetics | PRO 330A | Awned | 99 | 58.3 | 35 | 1.0 | -- | -- | -- |
| | PRO 410 | Awnless | 110 | 58.5 | 34 | 1.0 | 101 | 96 | 55.9 |
| | PRO 490A | Awned | 108 | 57.8 | 31 | 1.0 | 102 | 101 | 55.1 |
| Public | Sunburst | Awnless | 97 | 58.3 | 30 | 1.0 | 96 | 93 | 58.2 |
| VA Tech | 16VDH-SRW03-023 | Awnletted | 107 | 56.6 | 31 | 1.0 | -- | -- | -- |
| | VA19FHB-36 | Awned | 105 | 58.9 | 33 | 1.0 | -- | -- | -- |
| Van Treeck's | L 024 | Awnless | 108 | 58.0 | 31 | 1.0 | ^ 116 | *109 | 56.7 |
| | L 920 | Awnless | 98 | 57.4 | 32 | 1.0 | 96 | 98 | 57.2 |
| | Sittin' Pretty | Awnless | *118 | 56.8 | 31 | 1.0 | ^ 106 | 99 | 55.8 |
| Viking | 801 | Awned | 109 | 58.2 | 32 | 1.0 | 102 | 98 | 56.6 |
| Williamsfield Seed Company | WSC 3804 | Awnless | 102 | 59.1 | 36 | 1.0 | -- | -- | -- |
| | WSC 3906 | Awned | 102 | 58.1 | 31 | 1.0 | -- | -- | -- |
| | | Mean | 107 | 57.7 | 32 | 1.0 | 105 | 100 | 55.9 |
| | | LSD (.10) | 6 | 0.6 | 2 | -- | 8 | 8 | 0.6 |

1 Only yield showed a possible significant difference with fungicide
 ^ Significant yield increase with Feekes 10.5.1 fungicide application (0.10 level)
 * Yield not significantly different than that of the highest yielding cultivar (0.10 level)

Table 5. 2023 Chilton Winter Wheat Performance Trial Results

| Brand (Entrant) | Entry | Head Type | 2023 means | | | | 2022 means | |
|------------------|----------|-----------|--------------|------------------|--------------|---------------|--------------|------------------|
| | | | Yield (bu/a) | Test wt. (lb/bu) | Height (in.) | Lodging (1-5) | Yield (bu/a) | Test wt. (lb/bu) |
| AgriMAXX | 498 | Awnless | 106 | 58.8 | 31 | 1.0 | 119 | 58.7 |
| | 503 | Awnless | 103 | 59.9 | 31 | 1.0 | 109 | 59.1 |
| | 505 | Awned | 108 | 62.4 | 32 | 1.0 | 115 | 62.1 |
| | 513 | Awned | 103 | 61.1 | 31 | 1.0 | 115 | 60.4 |
| | 516 | Awned | 107 | 60.1 | 29 | 1.0 | 117 | 59.7 |
| | 525 | Awned | 109 | 60.4 | 30 | 1.0 | 123 | 60.0 |
| | 531 | Awnless | 104 | 61.4 | 33 | 1.0 | -- | -- |
| | Exp 2302 | Awnless | 108 | 59.9 | 31 | 1.0 | -- | -- |
| AgriPro | GP 463 | Awnless | 105 | 59.3 | 32 | 1.0 | 105 | 59.0 |
| | SY Viper | Awnless | * 111 | 61.6 | 34 | 1.0 | 110 | 60.6 |
| CROPLAN | CP8007 | Awnless | * 114 | 59.4 | 29 | 1.0 | 123 | 59.7 |
| | CP8045 | Awned | 104 | 60.5 | 29 | 1.0 | 116 | 59.9 |
| | CP8224 | Awnless | * 111 | 61.6 | 29 | 1.0 | * 126 | 61.1 |
| | CP9203 | Awnless | 102 | 59.9 | 30 | 1.0 | -- | -- |
| Diener | D491W | Awned | 107 | 59.3 | 30 | 1.0 | 116 | 59.1 |
| | D504W | Awned | * 112 | 60.4 | 31 | 1.0 | 117 | 60.2 |
| | DXW2022 | Awned | 109 | 60.1 | 30 | 1.0 | * 126 | 58.9 |
| | DXW2023 | Awned | 109 | 59.5 | 32 | 1.0 | -- | -- |
| | DXW2024 | Awned | 106 | 60.3 | 31 | 1.0 | -- | -- |
| | DXW2025 | Awnless | 95 | 60.5 | 33 | 1.0 | -- | -- |
| Dyna-Gro | 9120 | Awned | 108 | 61.9 | 30 | 1.0 | 119 | 60.8 |
| | 9151 | Awned | * 112 | 62.3 | 32 | 1.0 | 117 | 62.4 |
| | 9172 | Awned | 107 | 60.2 | 30 | 1.0 | 116 | 59.5 |
| | 9182 | Awnless | 105 | 60.1 | 32 | 1.0 | 115 | 59.0 |
| | 9290 | Awned | 106 | 60.8 | 31 | 1.0 | -- | -- |
| | 9481 | Awnless | 109 | 59.8 | 31 | 1.0 | -- | -- |
| | 9862 | Awnless | 104 | 59.7 | 29 | 1.0 | 108 | 59.7 |
| | WX23444 | Awnless | * 114 | 58.1 | 32 | 1.0 | -- | -- |
| FS InSPIRE Wheat | FS 597 | Awned | 107 | 60.9 | 30 | 1.0 | -- | -- |
| | FS 600 | Awned | 103 | 62.3 | 32 | 1.0 | 109 | 61.8 |
| | FS 603 | Awned | 100 | 61.3 | 31 | 1.0 | 113 | 59.5 |
| | FS 606 | Awnless | * 114 | 62.2 | 35 | 1.0 | -- | -- |
| | FS 617 | Awned | 109 | 60.5 | 29 | 1.0 | -- | -- |
| | FS 623 | Awnless | 108 | 60.1 | 31 | 1.0 | 116 | 59.6 |
| | FS 624 | Awnless | 106 | 61.6 | 32 | 1.0 | 115 | 60.9 |
| | FS 745 | Awned | * 113 | 60.5 | 31 | 1.0 | 116 | 59.6 |

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

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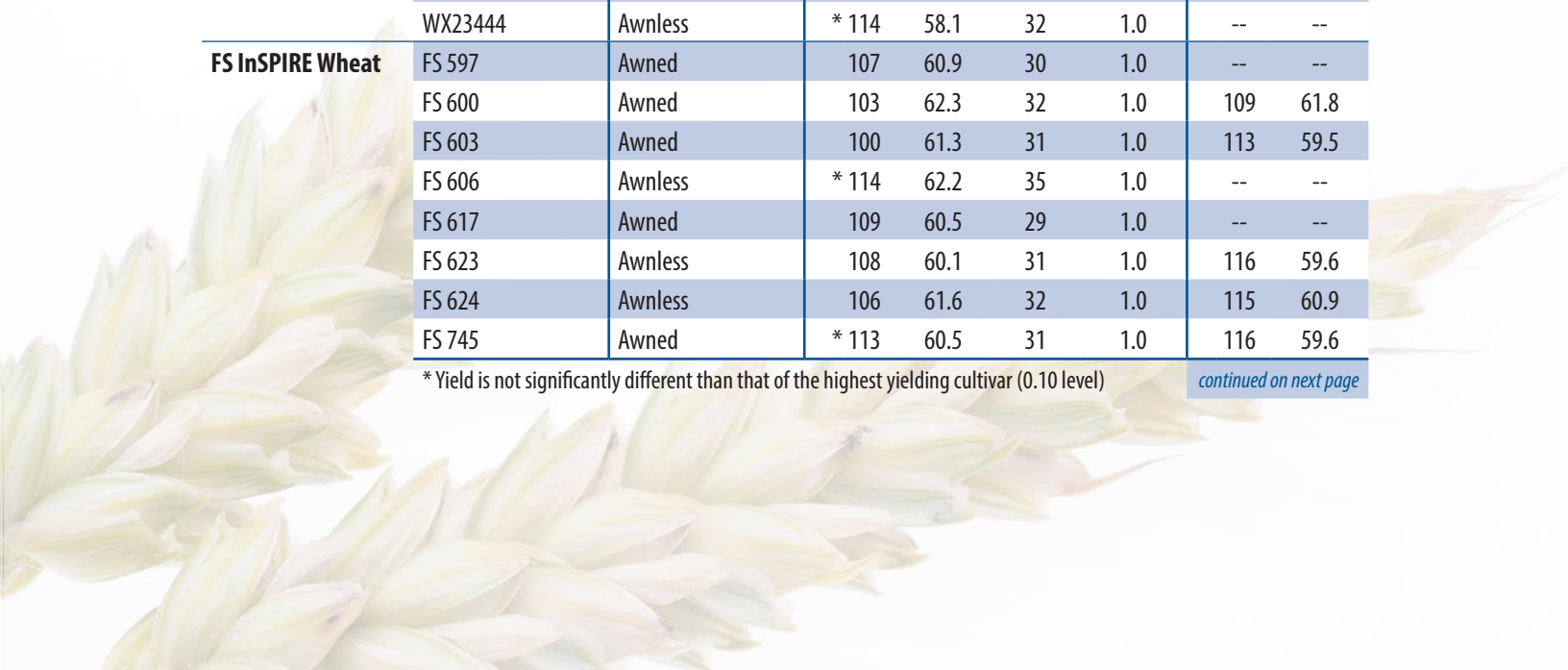


Table 5. 2023 Chilton Winter Wheat Performance Trial Results

continued from previous page

| Brand (Entrant) | Entry | Head Type | 2023 means | | | | 2022 means | |
|-------------------------|---------------|-----------|--------------|------------------|--------------|---------------|--------------|------------------|
| | | | Yield (bu/a) | Test wt. (lb/bu) | Height (in.) | Lodging (1-5) | Yield (bu/a) | Test wt. (lb/bu) |
| KF Brand | KF 667 | Awnless | * 118 | 61.4 | 33 | 1.0 | 115 | 60.2 |
| | KF 809 | Awnless | * 119 | 61.1 | 32 | 1.0 | * 125 | 59.9 |
| | KF 819 | Awnless | * 115 | 58.5 | 30 | 1.0 | -- | -- |
| | KF 839 | Awned | 110 | 62.5 | 32 | 1.0 | 108 | 61.8 |
| | KF 849 | Awnless | * 112 | 61.9 | 30 | 1.0 | 106 | 59.3 |
| | KF 869 | Awnless | 110 | 62.2 | 35 | 1.0 | -- | -- |
| | KF 898 | Awnless | 98 | 59.8 | 29 | 1.0 | -- | -- |
| | EX KF 848 | Awnless | 106 | 61.4 | 34 | 1.0 | -- | -- |
| | EX KF 861 | Awnless | * 112 | 61.1 | 34 | 1.0 | -- | -- |
| | EX KF 908 | Awnless | 105 | 60.4 | 30 | 1.0 | -- | -- |
| | EX KF 952 | Awnless | 107 | 60.4 | 33 | 1.0 | -- | -- |
| KWS Cereals | KWS472 | Awned | 102 | 59.7 | 27 | 1.0 | -- | -- |
| | KWS490 | Awned | * 115 | 60.2 | 30 | 1.0 | -- | -- |
| | KWS495 | Awned | 106 | 60.3 | 30 | 1.0 | -- | -- |
| L-Brand (Ag Pro) | L-410 | Awnletted | * 111 | 61.7 | 36 | 1.0 | -- | -- |
| | L-425 | Awnless | 108 | 61.9 | 35 | 1.0 | -- | -- |
| | L-435 | Awnless | 106 | 61.4 | 33 | 1.0 | -- | -- |
| | L-440 | Awnless | 97 | 61.3 | 34 | 1.0 | -- | -- |
| | L-444 | Awnless | * 113 | 60.8 | 31 | 1.0 | -- | -- |
| | L-447 | Awned | 108 | 62.2 | 32 | 1.0 | 112 | 61.7 |
| | L-450 | Awnless | 102 | 59.9 | 30 | 1.0 | -- | -- |
| | L-452 | Awnless | 110 | 60.0 | 33 | 1.0 | * 125 | 59.7 |
| | L-Star | Awnletted | 101 | 61.2 | 34 | 1.0 | 117 | 59.9 |
| | Legacy | LW 2021 | Awnless | 108 | 60.0 | 32 | 1.0 | 119 |
| LW 2023 | | Awned | 107 | 60.4 | 30 | 1.0 | 113 | 59.7 |
| LW 2024 | | Awned | 107 | 60.5 | 29 | 1.0 | 117 | 60.2 |
| LW 2026 | | Awned | 110 | 59.7 | 30 | 1.0 | * 128 | 59.0 |
| LWS-P38 | | Awnless | 110 | 57.7 | 32 | 1.0 | -- | -- |
| LWXB-1012 | | Awned | 100 | 59.0 | 29 | 1.0 | -- | -- |
| LWXB-305 | | Awned | 103 | 58.8 | 31 | 1.0 | -- | -- |
| LWXS-815 | | Awnless | 106 | 60.4 | 31 | 1.0 | -- | -- |
| LWXS-P24 | | Awnless | 102 | 59.8 | 31 | 1.0 | -- | -- |
| OSIA | | Starburst | Awnless | 106 | 61.8 | 27 | 1.0 | 110 |
| Pioneer | 25R28 | Awned | 80 | 62.0 | 30 | 1.0 | 117 | 60.1 |
| | 25R64 | Awned | 105 | 59.5 | 28 | 1.0 | -- | -- |
| | 25R76 | Awned | 108 | 60.5 | 30 | 1.0 | 110 | 59.3 |

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

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Table 5. 2023 Chilton Winter Wheat Performance Trial Results

continued from previous page

| Brand (Entrant) | Entry | Head Type | 2023 means | | | | 2022 means | | |
|----------------------------|-----------------|-----------|------------------|------------------|--------------|---------------|--------------|------------------|-------------|
| | | | Yield (bu/a) | Test wt. (lb/bu) | Height (in.) | Lodging (1-5) | Yield (bu/a) | Test wt. (lb/bu) | |
| PiP | 701 | Awnless | 107 | 60.2 | 33 | 1.0 | -- | -- | |
| | 702 | Awnless | 104 | 59.2 | 31 | 1.0 | 120 | 57.9 | |
| | 705 | Awnless | 106 | 59.8 | 32 | 1.0 | 114 | 59.2 | |
| | 708 | Awnless | 109 | 60.0 | 34 | 1.0 | 121 | 59.2 | |
| | 712 | Awnless | * 111 | 59.0 | 33 | 1.0 | -- | -- | |
| | 713 | Awned | 107 | 59.8 | 32 | 1.0 | -- | -- | |
| | 715 | Awned | 109 | 60.2 | 33 | 1.0 | 116 | 59.2 | |
| | 753 | Awned | 107 | 59.7 | 31 | 1.0 | -- | -- | |
| | 762 | Awned | 103 | 60.6 | 30 | 1.0 | 115 | 60.4 | |
| | 763 | Awned | 97 | 60.1 | 29 | 1.0 | -- | -- | |
| | 775 | Awned | 110 | 60.7 | 30 | 1.0 | 120 | 59.8 | |
| | 776 | Awned | 108 | 60.5 | 32 | 1.0 | -- | -- | |
| | 777 | Awned | 103 | 61.2 | 33 | 1.0 | -- | -- | |
| | 778 | Awned | 108 | 59.5 | 30 | 1.0 | -- | -- | |
| | 779 | Awned | 107 | 60.3 | 28 | 1.0 | -- | -- | |
| | 781 | Awned | * 118 | 58.3 | 32 | 1.0 | * 124 | 57.1 | |
| | 785 | Awned | 105 | 60.5 | 29 | 1.0 | 118 | 60.1 | |
| | 790 | Awned | 106 | 60.5 | 28 | 1.0 | 116 | 59.9 | |
| | 791 | Awned | 103 | 61.9 | 29 | 1.0 | 117 | 60.5 | |
| | 796 | Awned | 109 | 59.8 | 29 | 1.0 | 122 | 59.0 | |
| 798 | Awned | 107 | 60.2 | 32 | 1.0 | -- | -- | | |
| 799 | Awned | * 115 | 59.3 | 33 | 1.0 | -- | -- | | |
| Pro Seed Genetics | PRO 330A | Awned | 101 | 61.2 | 32 | 1.0 | -- | -- | |
| | PRO 410 | Awnless | 105 | 61.1 | 32 | 1.0 | 111 | 60.7 | |
| | PRO 490A | Awned | 109 | 60.2 | 30 | 1.0 | 117 | 59.0 | |
| Public | Sunburst | Awnless | 108 | 62.2 | 29 | 1.0 | 110 | 62.4 | |
| VA Tech | 16VDH-SRW03-023 | Awnletted | 109 | 59.9 | 29 | 1.0 | -- | -- | |
| | VA19FHB-36 | Awned | 110 | 61.8 | 35 | 1.0 | -- | -- | |
| Van Treeck's | L 024 | Awnless | 108 | 61.9 | 30 | 1.0 | * 129 | 61.4 | |
| | L 920 | Awnless | * 111 | 61.2 | 32 | 1.0 | 111 | 60.3 | |
| | Sittin' Pretty | Awnless | * 113 | 61.0 | 31 | 1.0 | 120 | 59.7 | |
| Viking | 801 | Awned | 107 | 60.9 | 32 | 1.0 | 113 | 60.6 | |
| Williamsfield Seed Company | WSC 3804 | Awnless | 103 | 62.9 | 35 | 1.0 | -- | -- | |
| | WSC 3906 | Awned | 109 | 61.0 | 32 | 1.0 | -- | -- | |
| | | | Mean | 107 | 60.5 | 31 | 1.0 | 115 | 59.7 |
| | | | LSD (.10) | 8 | 0.6 | 2 | -- | 5 | 0.5 |

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

Table 6. 2023 Fond du Lac Winter Wheat Performance Trial Results



| Brand (Entrant) | Entry | Head Type | 2023 means | | | | 2022 means | |
|------------------|----------|-----------|--------------|------------------|--------------|---------------|--------------|------------------|
| | | | Yield (bu/a) | Test wt. (lb/bu) | Height (in.) | Lodging (1-5) | Yield (bu/a) | Test wt. (lb/bu) |
| AgriMAXX | 498 | Awnless | * 119 | 57.3 | 35 | 1.0 | 112 | 58.4 |
| | 503 | Awnless | 113 | 59.4 | 33 | 1.0 | 107 | 59.2 |
| | 505 | Awned | 108 | 62.0 | 34 | 1.0 | 105 | 61.4 |
| | 513 | Awned | 106 | 60.9 | 34 | 1.0 | 116 | 60.7 |
| | 516 | Awned | * 126 | 60.3 | 32 | 1.0 | 113 | 59.5 |
| | 525 | Awned | 112 | 59.6 | 33 | 1.0 | * 126 | 60.6 |
| | 531 | Awnless | 97 | 59.6 | 34 | 1.0 | -- | -- |
| | Exp 2302 | Awnless | 109 | 59.2 | 33 | 1.0 | -- | -- |
| AgriPro | GP 463 | Awnless | 105 | 58.9 | 32 | 1.0 | 102 | 58.7 |
| | SY Viper | Awnless | 110 | 60.3 | 37 | 1.0 | 101 | 60.6 |
| CROPLAN | CP8007 | Awnless | * 120 | 59.2 | 30 | 1.0 | * 121 | 59.3 |
| | CP8045 | Awned | 112 | 59.9 | 32 | 1.0 | 110 | 59.2 |
| | CP8224 | Awnless | 117 | 60.4 | 32 | 1.0 | 117 | 60.6 |
| | CP9203 | Awnless | 112 | 59.2 | 35 | 1.0 | -- | -- |
| Diener | D491W | Awned | * 123 | 59.5 | 34 | 1.0 | 115 | 58.9 |
| | D504W | Awned | 116 | 59.8 | 34 | 1.0 | 114 | 59.7 |
| | DXW2022 | Awned | * 125 | 60.0 | 33 | 1.0 | * 121 | 59.0 |
| | DXW2023 | Awned | * 125 | 57.6 | 34 | 1.0 | -- | -- |
| | DXW2024 | Awned | 117 | 59.3 | 35 | 1.0 | -- | -- |
| | DXW2025 | Awnless | 98 | 58.4 | 35 | 1.0 | -- | -- |
| Dyna-Gro | 9120 | Awned | 108 | 60.9 | 32 | 1.0 | 109 | 60.5 |
| | 9151 | Awned | 113 | 62.0 | 33 | 1.0 | 107 | 61.6 |
| | 9172 | Awned | 115 | 59.5 | 34 | 1.0 | 117 | 59.6 |
| | 9182 | Awnless | * 122 | 59.6 | 36 | 1.0 | 107 | 59.6 |
| | 9290 | Awned | 110 | 59.8 | 35 | 1.0 | -- | -- |
| | 9481 | Awnless | 108 | 59.2 | 34 | 1.0 | -- | -- |
| | 9862 | Awnless | 115 | 59.3 | 33 | 1.0 | 102 | 59.6 |
| | WX23444 | Awnless | 115 | 56.5 | 36 | 1.0 | -- | -- |
| FS InSPIRE Wheat | FS 597 | Awned | 114 | 59.8 | 33 | 1.0 | -- | -- |
| | FS 600 | Awned | 114 | 62.4 | 34 | 1.0 | 115 | 62.1 |
| | FS 603 | Awned | 116 | 60.5 | 33 | 1.0 | 105 | 59.6 |
| | FS 606 | Awnless | 115 | 61.5 | 37 | 1.0 | -- | -- |
| | FS 617 | Awned | 110 | 60.3 | 32 | 1.0 | -- | -- |
| | FS 623 | Awnless | 112 | 58.4 | 35 | 1.0 | 113 | 59.7 |
| | FS 624 | Awnless | * 122 | 60.7 | 37 | 1.0 | 107 | 60.2 |
| | FS 745 | Awned | * 119 | 59.9 | 33 | 1.0 | 111 | 59.3 |

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

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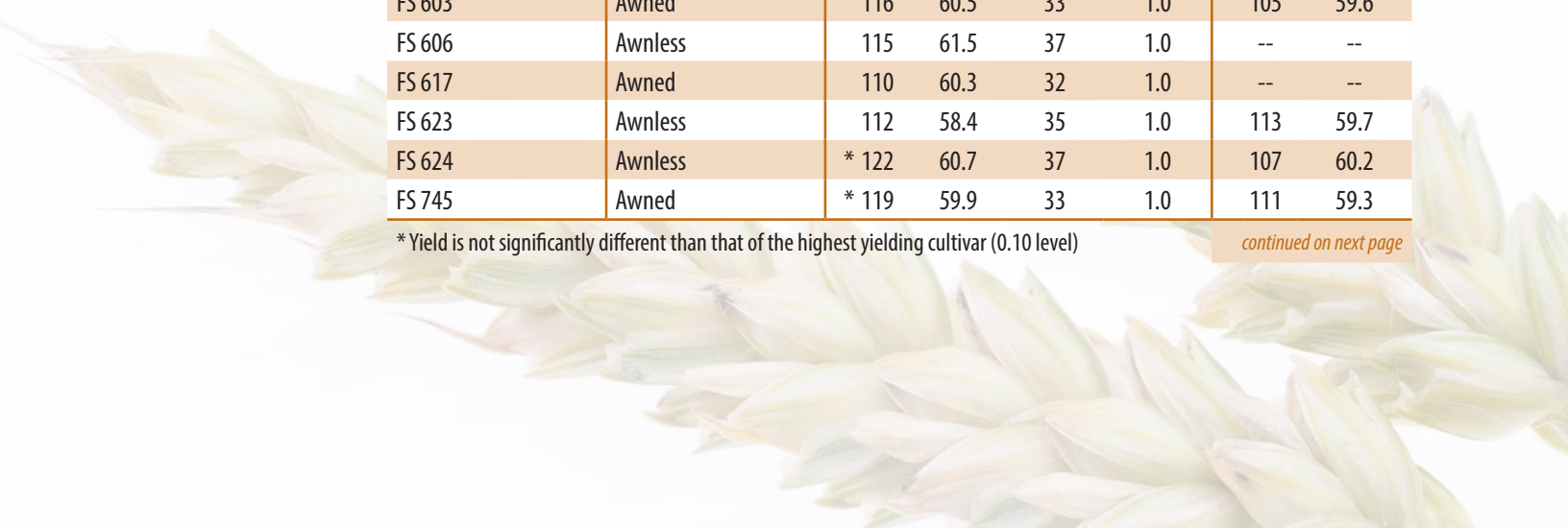


Table 6. 2023 Fond du Lac Winter Wheat Performance Trial Results

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| Brand (Entrant) | Entry | Head Type | 2023 means | | | | 2022 means | |
|-------------------------|--------------------|-----------|--------------|------------------|--------------|---------------|--------------|------------------|
| | | | Yield (bu/a) | Test wt. (lb/bu) | Height (in.) | Lodging (1-5) | Yield (bu/a) | Test wt. (lb/bu) |
| KF Brand | KF 667 | Awnless | 109 | 59.4 | 33 | 1.0 | 106 | 59.9 |
| | KF 809 | Awnless | * 124 | 59.1 | 33 | 1.0 | 108 | 59.3 |
| | KF 819 | Awnless | 111 | 57.3 | 31 | 1.0 | -- | -- |
| | KF 839 | Awned | 113 | 61.8 | 35 | 1.0 | 110 | 61.8 |
| | KF 849 | Awnless | 113 | 60.1 | 32 | 1.0 | 102 | 58.9 |
| | KF 869 | Awnless | 113 | 61.1 | 38 | 1.0 | -- | -- |
| | KF 898 | Awnless | 111 | 59.8 | 34 | 1.0 | -- | -- |
| | EX KF 848 | Awnless | 101 | 59.9 | 36 | 1.0 | -- | -- |
| | EX KF 861 | Awnless | 103 | 59.1 | 35 | 1.0 | -- | -- |
| | EX KF 908 | Awnless | 112 | 59.6 | 33 | 1.0 | -- | -- |
| | EX KF 952 | Awnless | 103 | 58.7 | 35 | 1.0 | -- | -- |
| | KWS Cereals | KWS472 | Awned | 113 | 59.8 | 30 | 1.0 | -- |
| KWS490 | | Awned | * 123 | 59.7 | 33 | 1.0 | -- | -- |
| KWS495 | | Awned | 108 | 59.2 | 31 | 1.0 | -- | -- |
| L-Brand (Ag Pro) | L-410 | Awnletted | 109 | 61.2 | 37 | 1.0 | -- | -- |
| | L-425 | Awnless | 106 | 61.0 | 37 | 1.0 | -- | -- |
| | L-435 | Awnless | 105 | 60.5 | 36 | 1.0 | -- | -- |
| | L-440 | Awnless | 109 | 60.0 | 36 | 1.0 | -- | -- |
| | L-444 | Awnless | * 127 | 59.9 | 35 | 1.0 | -- | -- |
| | L-447 | Awned | 111 | 61.8 | 35 | 1.0 | 108 | 61.5 |
| | L-450 | Awnless | 106 | 58.4 | 33 | 1.0 | -- | -- |
| | L-452 | Awnless | * 120 | 59.0 | 37 | 1.0 | * 119 | 59.4 |
| | L-Star | Awnletted | 100 | 59.5 | 35 | 1.0 | 106 | 59.0 |
| Legacy | LW 2021 | Awnless | 110 | 59.0 | 34 | 1.0 | 108 | 59.3 |
| | LW 2023 | Awned | 113 | 59.7 | 33 | 1.0 | 108 | 59.4 |
| | LW 2024 | Awned | 111 | 60.0 | 32 | 1.0 | 115 | 60.1 |
| | LW 2026 | Awned | 116 | 59.1 | 33 | 1.0 | 111 | 58.7 |
| | LWS-P38 | Awnless | 118 | 56.4 | 35 | 1.0 | -- | -- |
| | LWXB-1012 | Awned | * 120 | 59.5 | 33 | 1.0 | -- | -- |
| | LWXB-305 | Awned | * 122 | 58.2 | 34 | 1.0 | -- | -- |
| | LWXS-815 | Awnless | 110 | 59.4 | 34 | 1.0 | -- | -- |
| | LWXS-P24 | Awnless | 104 | 59.1 | 34 | 1.0 | -- | -- |
| OSIA | Starburst | Awnless | 109 | 60.9 | 30 | 1.0 | 105 | 62.0 |
| Pioneer | 25R28 | Awned | 102 | 61.0 | 33 | 1.0 | 109 | 60.2 |
| | 25R64 | Awned | 118 | 58.7 | 32 | 1.0 | -- | -- |
| | 25R76 | Awned | 118 | 59.4 | 34 | 1.0 | 113 | 59.9 |

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

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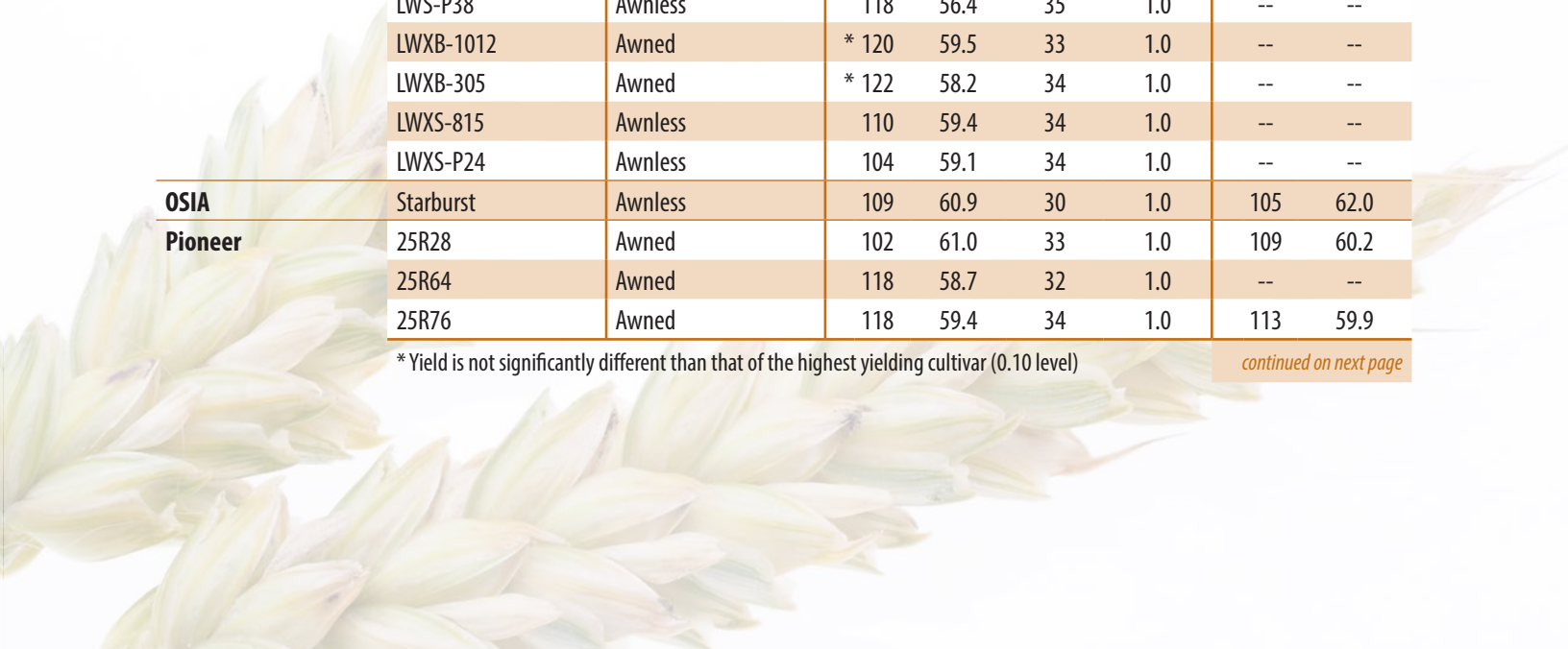


Table 6. 2023 Fond du Lac Winter Wheat Performance Trial Results

continued from previous page



| Brand (Entrant) | Entry | Head Type | 2023 means | | | | 2022 means | | |
|----------------------------|-----------------|-----------|------------------|------------------|--------------|---------------|--------------|------------------|-------------|
| | | | Yield (bu/a) | Test wt. (lb/bu) | Height (in.) | Lodging (1-5) | Yield (bu/a) | Test wt. (lb/bu) | |
| PiP | 701 | Awnless | 112 | 59.4 | 35 | 1.0 | -- | -- | |
| | 702 | Awnless | * 121 | 58.6 | 34 | 1.0 | 108 | 57.2 | |
| | 705 | Awnless | 115 | 58.7 | 34 | 1.0 | 109 | 59.3 | |
| | 708 | Awnless | 118 | 59.3 | 35 | 1.0 | 112 | 59.3 | |
| | 712 | Awnless | * 122 | 58.4 | 37 | 1.0 | -- | -- | |
| | 713 | Awned | 109 | 59.1 | 35 | 1.0 | -- | -- | |
| | 715 | Awned | 117 | 59.1 | 36 | 1.0 | 115 | 60.0 | |
| | 753 | Awned | 113 | 58.7 | 32 | 1.0 | -- | -- | |
| | 762 | Awned | 107 | 60.5 | 33 | 1.0 | 115 | 60.1 | |
| | 763 | Awned | * 119 | 59.2 | 34 | 1.0 | -- | -- | |
| | 775 | Awned | 111 | 59.8 | 32 | 1.0 | * 120 | 59.9 | |
| | 776 | Awned | 105 | 59.1 | 35 | 1.0 | -- | -- | |
| | 777 | Awned | 110 | 61.0 | 37 | 1.0 | -- | -- | |
| | 778 | Awned | * 119 | 59.5 | 33 | 1.0 | -- | -- | |
| | 779 | Awned | 117 | 60.1 | 32 | 1.0 | -- | -- | |
| | 781 | Awned | * 126 | 57.9 | 36 | 1.0 | * 121 | 57.6 | |
| | 785 | Awned | 112 | 60.2 | 32 | 1.0 | 117 | 60.3 | |
| | 790 | Awned | 113 | 59.9 | 32 | 1.0 | 117 | 59.8 | |
| | 791 | Awned | 110 | 61.1 | 32 | 1.0 | 114 | 60.5 | |
| 796 | Awned | * 123 | 59.4 | 33 | 1.0 | * 122 | 59.3 | | |
| 798 | Awned | 113 | 58.9 | 35 | 1.0 | -- | -- | | |
| 799 | Awned | * 123 | 58.1 | 34 | 1.0 | -- | -- | | |
| Pro Seed Genetics | PRO 330A | Awned | 106 | 60.4 | 36 | 1.0 | -- | -- | |
| | PRO 410 | Awnless | 113 | 60.6 | 35 | 1.0 | 107 | 60.4 | |
| | PRO 490A | Awned | 114 | 59.7 | 34 | 1.0 | 110 | 58.8 | |
| Public | Sunburst | Awnless | 102 | 60.5 | 32 | 1.0 | 103 | 61.8 | |
| VA Tech | 16VDH-SRW03-023 | Awnletted | 115 | 59.2 | 33 | 1.0 | -- | -- | |
| | VA19FHB-36 | Awned | 115 | 61.0 | 37 | 1.0 | -- | -- | |
| Van Treck's | L 024 | Awnless | 111 | 60.0 | 33 | 1.0 | 116 | 60.3 | |
| | L 920 | Awnless | 105 | 59.2 | 32 | 1.0 | 108 | 60.0 | |
| | Sittin' Pretty | Awnless | 118 | 59.3 | 32 | 1.0 | 106 | 59.4 | |
| Viking | 801 | Awned | 114 | 60.7 | 35 | 1.0 | 104 | 60.6 | |
| Williamsfield Seed Company | WSC 3804 | Awnless | 99 | 61.0 | 37 | 1.0 | -- | -- | |
| | WSC 3906 | Awned | 110 | 59.8 | 33 | 1.0 | -- | -- | |
| | | | Mean | 113 | 59.7 | 34 | 1.0 | 110 | 59.6 |
| | | | LSD (.10) | 8 | 0.7 | 1 | -- | 7 | 0.7 |

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

Table 7. 2023 Waterloo Winter Wheat Performance Trial Results



| Brand (Entrant) | Entry | Head Type | 2023 means | | | | 2022 means | |
|-------------------------|----------|-----------|--------------|------------------|--------------|---------------|--------------|------------------|
| | | | Yield (bu/a) | Test wt. (lb/bu) | Height (in.) | Lodging (1-5) | Yield (bu/a) | Test wt. (lb/bu) |
| AgriMAXX | 498 | Awnless | 91 | 55.6 | 33 | 1.0 | 106 | 57.4 |
| | 503 | Awnless | 86 | 55.9 | 34 | 1.0 | 104 | 58.6 |
| | 505 | Awned | 95 | 58.6 | 33 | 1.0 | 91 | 59.9 |
| | 513 | Awned | 90 | 57.8 | 33 | 1.0 | 108 | 58.6 |
| | 516 | Awned | 89 | 56.9 | 30 | 1.0 | 98 | 57.7 |
| | 525 | Awned | 91 | 56.9 | 31 | 1.0 | * 112 | 59.1 |
| | 531 | Awnless | 87 | 57.7 | 35 | 1.0 | -- | -- |
| | Exp 2302 | Awnless | * 102 | 57.5 | 32 | 1.0 | -- | -- |
| AgriPro | GP 463 | Awnless | 89 | 56.6 | 33 | 1.0 | 95 | 57.5 |
| | SY Viper | Awnless | 93 | 57.8 | 36 | 1.0 | 95 | 59.5 |
| CROPLAN | CP8007 | Awnless | * 105 | 56.4 | 30 | 1.0 | 104 | 58.7 |
| | CP8045 | Awned | 88 | 57.1 | 31 | 1.0 | 103 | 58.0 |
| | CP8224 | Awnless | 97 | 57.2 | 31 | 1.0 | 104 | 59.0 |
| | CP9203 | Awnless | 95 | 56.7 | 34 | 1.0 | -- | -- |
| Diener | D491W | Awned | * 98 | 56.8 | 33 | 1.0 | 103 | 57.1 |
| | D504W | Awned | 92 | 57.1 | 32 | 1.0 | 100 | 57.8 |
| | DXW2022 | Awned | 94 | 56.4 | 31 | 1.0 | * 111 | 58.2 |
| | DXW2023 | Awned | * 98 | 56.6 | 32 | 1.0 | -- | -- |
| | DXW2024 | Awned | 95 | 56.7 | 34 | 1.0 | -- | -- |
| Dyna-Gro | DXW2025 | Awnless | 80 | 55.2 | 33 | 1.0 | -- | -- |
| | 9120 | Awned | 91 | 59.2 | 31 | 1.0 | 105 | 60.2 |
| | 9151 | Awned | 90 | 58.3 | 33 | 1.0 | 96 | 60.3 |
| | 9172 | Awned | 93 | 56.8 | 32 | 1.0 | 100 | 57.7 |
| | 9182 | Awnless | 87 | 56.1 | 33 | 1.0 | 96 | 58.7 |
| | 9290 | Awned | 91 | 57.7 | 33 | 1.0 | -- | -- |
| | 9481 | Awnless | * 99 | 57.0 | 33 | 1.0 | -- | -- |
| | 9862 | Awnless | 94 | 56.5 | 31 | 1.0 | 100 | 58.8 |
| FS InSPIRE Wheat | WX23444 | Awnless | * 104 | 56.3 | 34 | 1.0 | -- | -- |
| | FS 597 | Awned | 91 | 57.5 | 33 | 1.0 | -- | -- |
| | FS 600 | Awned | 92 | 58.6 | 33 | 1.0 | 92 | 59.8 |
| | FS 603 | Awned | 96 | 58.5 | 32 | 1.0 | 99 | 58.6 |
| | FS 606 | Awnless | 86 | 58.1 | 35 | 1.0 | -- | -- |
| | FS 617 | Awned | * 98 | 57.3 | 30 | 1.0 | -- | -- |
| | FS 623 | Awnless | 90 | 56.0 | 34 | 1.0 | 100 | 58.8 |
| | FS 624 | Awnless | * 98 | 56.9 | 34 | 1.0 | 101 | 59.8 |
| FS 745 | Awned | 95 | 56.9 | 32 | 1.0 | 102 | 57.8 | |

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

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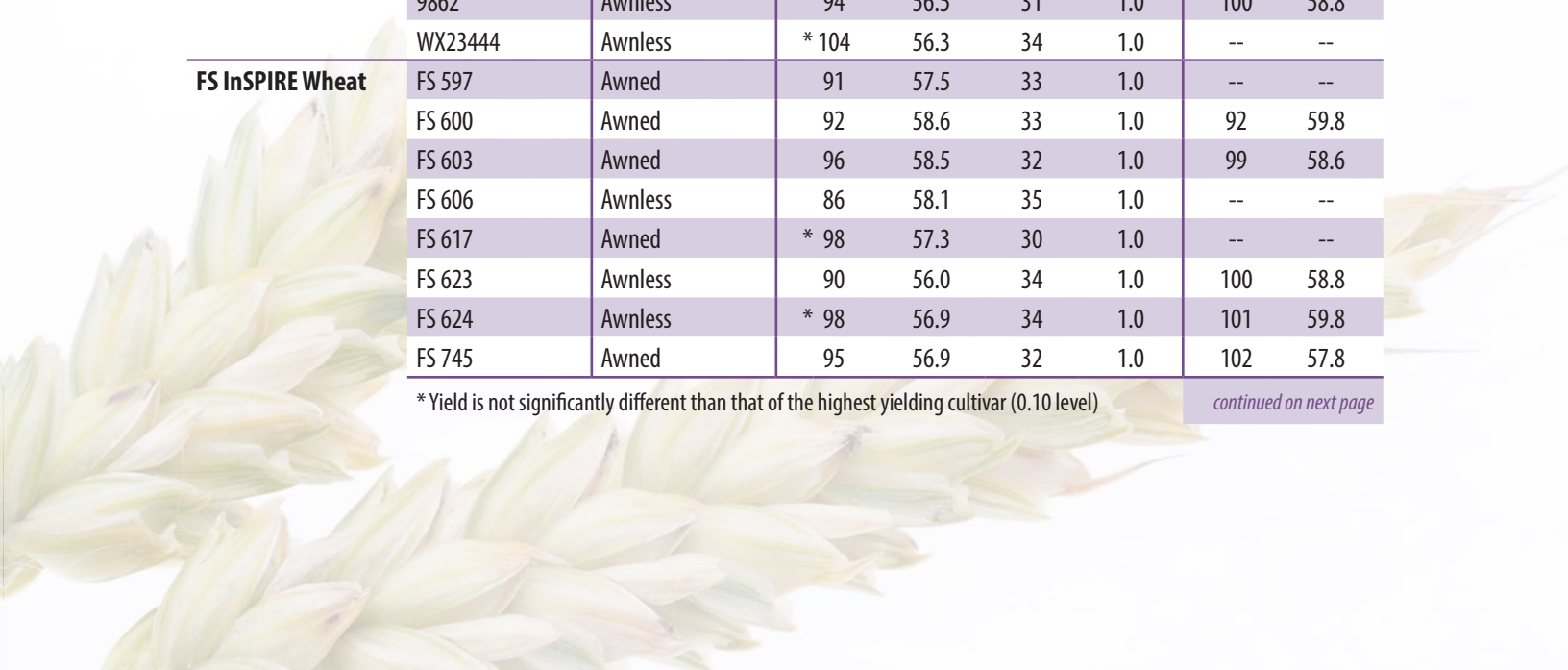


Table 7. 2023 Waterloo Winter Wheat Performance Trial Results

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| Brand (Entrant) | Entry | Head Type | 2023 means | | | | 2022 means | |
|-------------------------|-----------|-----------|--------------|------------------|--------------|---------------|--------------|------------------|
| | | | Yield (bu/a) | Test wt. (lb/bu) | Height (in.) | Lodging (1-5) | Yield (bu/a) | Test wt. (lb/bu) |
| KF Brand | KF 667 | Awnless | 97 | 58.4 | 34 | 1.0 | * 110 | 59.4 |
| | KF 809 | Awnless | * 100 | 57.1 | 32 | 1.0 | 103 | 58.1 |
| | KF 819 | Awnless | * 99 | 55.5 | 30 | 1.0 | -- | -- |
| | KF 839 | Awned | 89 | 58.9 | 33 | 1.0 | 93 | 59.6 |
| | KF 849 | Awnless | 96 | 56.6 | 32 | 1.0 | 99 | 57.8 |
| | KF 869 | Awnless | 86 | 58.2 | 35 | 1.0 | -- | -- |
| | KF 898 | Awnless | * 99 | 57.4 | 32 | 1.0 | -- | -- |
| | EX KF 848 | Awnless | 85 | 58.1 | 34 | 1.0 | -- | -- |
| | EX KF 861 | Awnless | 86 | 57.2 | 35 | 1.0 | -- | -- |
| | EX KF 908 | Awnless | 88 | 56.5 | 32 | 1.0 | -- | -- |
| | EX KF 952 | Awnless | 91 | 57.6 | 34 | 1.0 | -- | -- |
| KWS Cereals | KWS472 | Awned | 96 | 57.5 | 30 | 1.0 | -- | -- |
| | KWS490 | Awned | 97 | 56.8 | 31 | 1.0 | -- | -- |
| | KWS495 | Awned | * 102 | 57.6 | 31 | 1.0 | -- | -- |
| L-Brand (Ag Pro) | L-410 | Awnletted | 87 | 58.1 | 36 | 1.0 | -- | -- |
| | L-425 | Awnless | 91 | 58.3 | 36 | 1.0 | -- | -- |
| | L-435 | Awnless | 84 | 57.6 | 33 | 1.0 | -- | -- |
| | L-440 | Awnless | 74 | 58.0 | 34 | 1.0 | -- | -- |
| | L-444 | Awnless | 93 | 57.9 | 33 | 1.0 | -- | -- |
| | L-447 | Awned | 94 | 59.1 | 33 | 1.0 | 95 | 59.5 |
| | L-450 | Awnless | 85 | 56.3 | 33 | 1.0 | -- | -- |
| | L-452 | Awnless | * 99 | 56.6 | 35 | 1.0 | 104 | 58.5 |
| | L-Star | Awnletted | 81 | 58.1 | 32 | 1.0 | * 110 | 59.8 |
| Legacy | LW 2021 | Awnless | 92 | 56.6 | 34 | 1.0 | 100 | 58.7 |
| | LW 2023 | Awned | 89 | 56.8 | 31 | 1.0 | 102 | 58.0 |
| | LW 2024 | Awned | 90 | 57.1 | 31 | 1.0 | 102 | 58.8 |
| | LW 2026 | Awned | * 100 | 56.6 | 31 | 1.0 | 106 | 58.2 |
| | LWS-P38 | Awnless | * 102 | 55.9 | 35 | 1.0 | -- | -- |
| | LWXB-1012 | Awned | 91 | 56.8 | 32 | 1.0 | -- | -- |
| | LWXB-305 | Awned | * 103 | 56.6 | 33 | 1.0 | -- | -- |
| | LWXS-815 | Awnless | 90 | 56.7 | 33 | 1.0 | -- | -- |
| | LWXS-P24 | Awnless | 84 | 56.6 | 32 | 1.0 | -- | -- |
| OSIA | Starburst | Awnless | 84 | 57.0 | 30 | 1.0 | 94 | 61.0 |

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

continued on next page

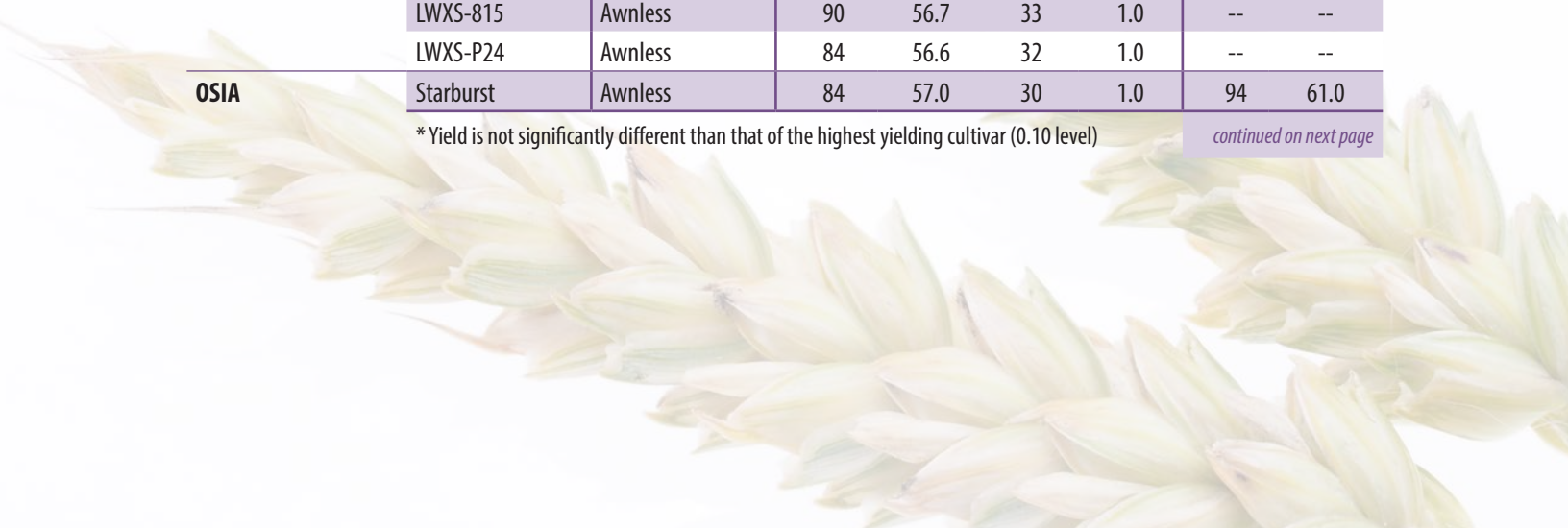


Table 7. 2023 Waterloo Winter Wheat Performance Trial Results

continued from previous page



| Brand (Entrant) | Entry | Head Type | 2023 means | | | | 2022 means | | |
|-----------------------------------|-----------------|-----------|------------------|------------------|--------------|---------------|--------------|------------------|-------------|
| | | | Yield (bu/a) | Test wt. (lb/bu) | Height (in.) | Lodging (1-5) | Yield (bu/a) | Test wt. (lb/bu) | |
| Pioneer | 25R28 | Awned | 90 | 58.1 | 31 | 1.0 | 100 | 59.3 | |
| | 25R64 | Awned | * 100 | 55.6 | 30 | 1.0 | -- | -- | |
| | 25R76 | Awned | 92 | 56.2 | 33 | 1.0 | 106 | 58.4 | |
| PiP | 701 | Awnless | 90 | 56.4 | 33 | 1.0 | -- | -- | |
| | 702 | Awnless | * 101 | 56.2 | 33 | 1.0 | 106 | 56.1 | |
| | 705 | Awnless | 89 | 55.9 | 33 | 1.0 | 101 | 58.7 | |
| | 708 | Awnless | * 98 | 56.4 | 35 | 1.0 | 100 | 58.3 | |
| | 712 | Awnless | * 101 | 56.4 | 34 | 1.0 | -- | -- | |
| | 713 | Awned | 93 | 56.4 | 33 | 1.0 | -- | -- | |
| | 715 | Awned | 83 | 55.9 | 34 | 1.0 | 98 | 58.3 | |
| | 753 | Awned | 94 | 56.2 | 32 | 1.0 | -- | -- | |
| | 762 | Awned | 89 | 57.1 | 32 | 1.0 | * 109 | 58.8 | |
| | 763 | Awned | * 99 | 57.0 | 33 | 1.0 | -- | -- | |
| | 775 | Awned | * 99 | 56.4 | 32 | 1.0 | * 116 | 59.1 | |
| | 776 | Awned | 88 | 56.3 | 33 | 1.0 | -- | -- | |
| | 777 | Awned | 84 | 56.8 | 34 | 1.0 | -- | -- | |
| | 778 | Awned | * 103 | 57.2 | 33 | 1.0 | -- | -- | |
| | 779 | Awned | 97 | 57.8 | 31 | 1.0 | -- | -- | |
| | 781 | Awned | * 107 | 56.3 | 34 | 1.0 | * 113 | 55.7 | |
| | 785 | Awned | 95 | 57.2 | 31 | 1.0 | 104 | 59.0 | |
| | 790 | Awned | * 101 | 57.2 | 32 | 1.0 | 104 | 58.1 | |
| | 791 | Awned | 97 | 59.4 | 32 | 1.0 | 105 | 60.0 | |
| | 796 | Awned | * 98 | 56.5 | 31 | 1.0 | 107 | 58.4 | |
| 798 | Awned | 91 | 55.9 | 33 | 1.0 | -- | -- | | |
| 799 | Awned | * 100 | 56.6 | 33 | 1.0 | -- | -- | | |
| Pro Seed Genetics | PRO 330A | Awned | 81 | 57.7 | 34 | 1.0 | -- | -- | |
| | PRO 410 | Awnless | * 99 | 56.8 | 34 | 1.0 | 97 | 59.6 | |
| | PRO 490A | Awned | 95 | 57.2 | 33 | 1.0 | 103 | 57.8 | |
| Public | Sunburst | Awnless | 82 | 56.1 | 31 | 1.0 | 95 | 61.7 | |
| VA Tech | 16VDH-SRW03-023 | Awnletted | 90 | 56.4 | 32 | 1.0 | -- | -- | |
| | VA19FHB-36 | Awned | 91 | 58.1 | 34 | 1.0 | -- | -- | |
| Van Treeck's | L 024 | Awnless | 90 | 56.7 | 31 | 1.0 | * 111 | 60.0 | |
| | L 920 | Awnless | 91 | 58.3 | 33 | 1.0 | 106 | 58.8 | |
| | Sittin' Pretty | Awnless | 96 | 57.5 | 33 | 1.0 | 103 | 58.3 | |
| Viking | 801 | Awned | 90 | 58.1 | 34 | 1.0 | 105 | 59.5 | |
| Williamsfield Seed Company | WSC 3804 | Awnless | 78 | 57.3 | 35 | 1.0 | -- | -- | |
| | WSC 3906 | Awned | 87 | 58.0 | 32 | 1.0 | -- | -- | |
| | | | Mean | 93 | 57.1 | 33 | 1.0 | 102 | 58.5 |
| | | | LSD (.10) | 9 | 0.6 | 1 | -- | 7 | 0.6 |

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

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