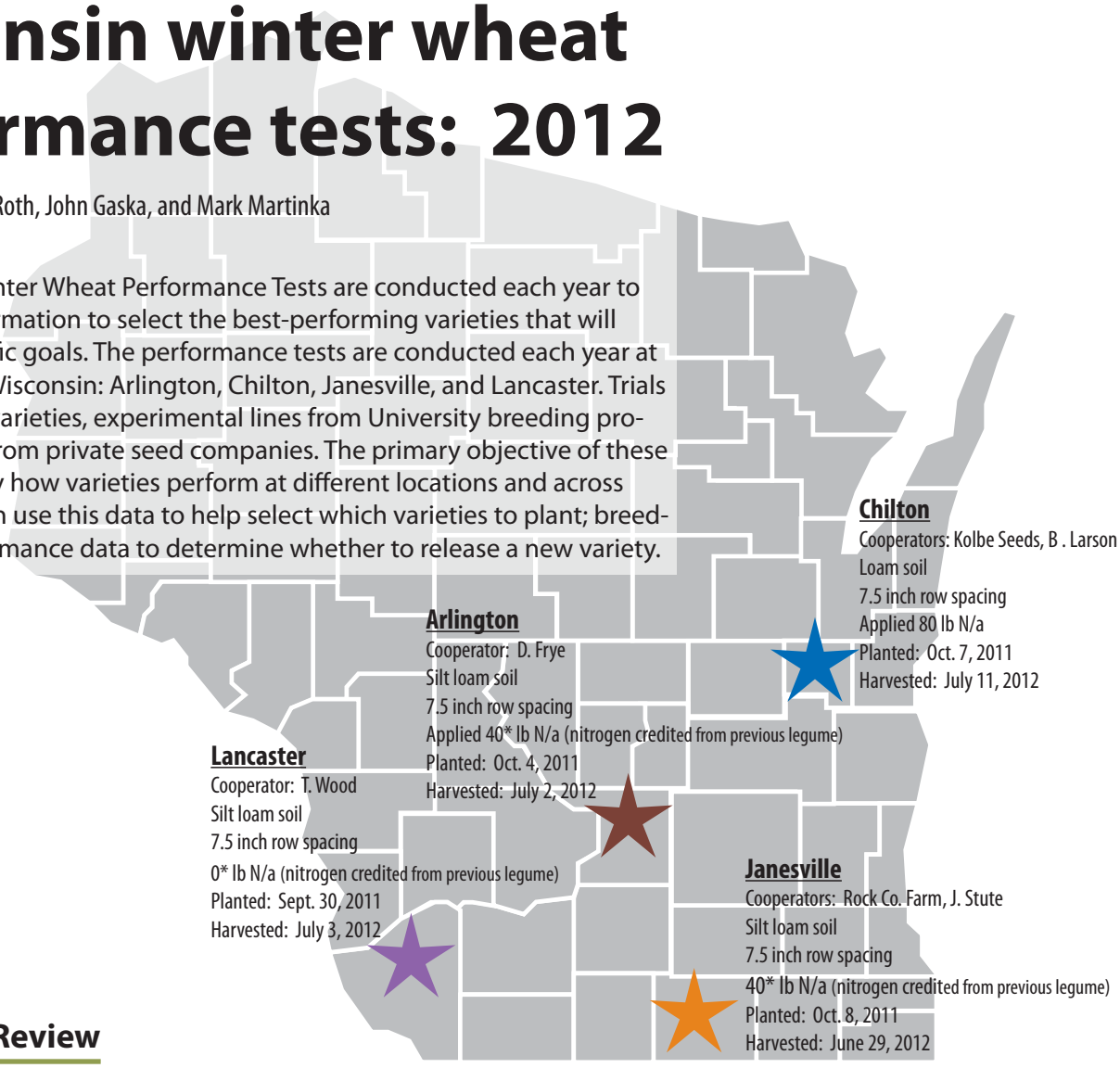
A3868

# Wisconsin winter wheat performance tests: 2012

Shawn Conley, Adam Roth, John Gaska, and Mark Martinka

The Wisconsin Winter Wheat Performance Tests are conducted each year to give growers information to select the best-performing varieties that will satisfy their specific goals. The performance tests are conducted each year at four locations in Wisconsin: Arlington, Chilton, Janesville, and Lancaster. 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.




## 2012 Year in Review

### Acreage and Growing Conditions

Wisconsin saw a 25% decrease in winter wheat acres harvested (250,000) in the 2011-2012 growing season compared to the previous year. The forecasted yield for the 2012 crop is 69 bu/a, up 4 bu/a from last year. The decrease in winter wheat acres was largely due to high corn and soybean commodity prices. Wheat that was established in a timely manner last fall looked very good to excellent going into winter dormancy; however some areas had delayed emergence and poor fall growth due to late planting. Late planted wheat suffered from poor tiller development that led to thin stands and weed control problems. Wheat broke dormancy in March and continued to progress three weeks ahead of normal all season. A warm March followed by a cool wet April increased powdery mildew incidence and severity across the state. Early fungicide applications at the Feekes 3.0 growth stage lost effectiveness during stem elongation and required a second application to those varieties that did not possess genetic resistance to powdery mildew. Record low precipitation in June seemingly did not impact wheat yield or test weight. (Source: USDA National Agricultural Statistics Service)

Overall, winter wheat yield and test weights were excellent in 2012. Wheat yields at the Arlington, Chilton, Janesville, and Lancaster locations averaged 113, 107, 87 and 101 bu/a, respectively. No winterkill was noted at any location in 2012.

### Diseases

Powdery mildew was the predominant disease noted in 2012 statewide. Barley yellow dwarf virus visual symptoms were also observed at all variety trial locations. Stripe rust appeared in mid-May at the Arlington site and significantly impacted those varieties that lacked resistance. The timing of flowering coincided with weather conditions that were not favorable for Fusarium head blight in 2012.

## Using This Data to Select Top-Yielding Varieties

As with any crop, variety selection is the most important factor to consider in maximizing 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 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 2. 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 **insect and disease resistance** characteristics that fits your needs. By selecting varieties with the appropriate level of resistance, crop yield loss may be either reduced or avoided without the need of pesticides. Careful management of resistant cultivars through crop and variety rotation are required to ensure that these characteristics are not lost.

▶ **Crop 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 in front page graphic.

**Seedbed preparation:** Conventional and conservation tillage methods.

**Seeding rate:** 1.5 million viable seeds per acre.

**Seed treatments:** Identified in Table 1.

**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.

#### 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% 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 2–6. Data for both 2011 and 2012 are provided if the variety was entered in the 2011 trials.

**Least significant difference (LSD):** 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 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.

#### Testing Agencies

The Wisconsin Winter Wheat Performance Tests were conducted by the Departments of Agronomy and Plant Pathology, College of Agricultural and Life Sciences and the University of Wisconsin-Extension in cooperation and with support from the Wisconsin Crop Improvement Association.

### 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:

Wisconsin Crop Improvement Association
554 Moore Hall, 1575 Linden Drive, Madison, WI 53706
(608) 262-1341, wcia.wisc.edu

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

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Table 1. Brand and company information of 2012 entered varieties and seed treatments.

| Brand & Company Information | 2012 Varieties | Seed Treatments |
|---|---|---|
| **Public**<br>WI Foundation Seeds (608-846-9761)<br>www.wisconsinfoundationseeds.wisc.edu | Hopewell, Kaskaskia, Red Devil Brand, Sunburst | Dividend Extreme, Bio-Forge, Macho 600ST |
| **Public-exp**<br>WI Crop Improvement Assn. (608-262-0167)<br>wcia.wisc.edu | IL 07-20743 | Dividend Extreme, Gaucho |
| | VA 06W-412, VA 08W-176, VA 08W-294 | Raxil MD, Storicide II |
| **AgriMAXX**<br>AgriMAXX Wheat Company (855-629-9432)<br>www.agrimaxxwheat.com | 413, Exp 1215 | Dividend Extreme, Cruiser |
| **Croplan Genetics**<br>Winfield Solutions (608-516-4636)<br>www.answerplot.com | 8309, 8614, 8925, 9012, 9101 | Dividend Extreme |
| **Diener**<br>BioTown Seeds (219-984-6038)<br>www.biotownseeds.com | D 492, XW 13 | Dividend Extreme |
| | D 498, D 501 | Dividend Extreme, SabrEx, Ascend |
| **Direct**<br>Direct Enterprises (317-910-2140)<br>www.go2dei.com | Edge | Dividend Extreme |
| | Quest, Sienna | Tebustar 250 ST, Metalaxyl |
| **Dyna-Gro**<br>Dyna-Gro Seed (614-761-4110)<br>www.dynagroseed.com | 9042, 9053, WX 12603 | Tebuconazole/Metalaxyl/Imidacloprid |
| **Excel / VanTreek**<br>VanTreek Seed Farms (920-467-2422) | EXCEL 234 | Dividend Extreme, Maxim 4FS, Storicide II, Micro King |
| **Excel / Welter**<br>Welter Seed & Honey Co. (800-728-8450)<br>www.welterseed.com | EXCEL 442 | Dividend Extreme, Storicide II, Micro King |
| **FS Seed**<br>Growmark, Inc. (309-557-6399)<br>www.fsseed.com/midwest | FS 602, FS 622, FS 625, FS 630 | Dividend Extreme, Cruiser |
| **Jung**<br>Jung Seed Genetics (920-326-5891)<br>www.jungseedgenetics.com | 5820, 5844, 5855 | Dividend Extreme, Cruiser |
| **Legacy**<br>Legacy Seeds Inc. (715-467-2555)<br>www.legacyseeds.com | LW 870, LW 1065, LW 1072, LW 1155, LW 1210, LW 1230, LW 1245, LW 1250, LXW 242 | Sativa IM, SabrEx |
| **Pioneer**<br>DuPont Pioneer (507-625-3045)<br>www.pioneer.com | 25R30, 25R34, 25R39, 25R40, 25R47 | Dividend Extreme, Gaucho |
| **PIP**<br>Partners in Production (877-GRO-SEED)<br>www.pipseeds.com | 702, 711, 717, 721, 722, 728, 729, 731, 732, 740, 752, 753, 756, 760, 761, 772, 774, 775, 778, 779 | Charter |
| **Pro Seed Genetics**<br>Pro Seed Genetics Cooperative<br>(920-388-2824) | PRO 200, PRO 240, PRO 260, PRO 320A | Dividend Extreme, Bio-Forge, Macho 600ST |
| | PRO Ex 310 | Menenoxam/Difenoconazole/Imidacloprid |
| | PRO Ex 330, PRO Ex 350, PRO Ex 360A | Dividend Extreme, Cruiser |
| **Pro Seed/Kratz**<br>Kratz Farms LLP (262-644-9426)<br>www.kratzfarms.com | PRO 320A | Charter F2, SabrEx |
| **Syngenta**<br>Syngenta Seeds (765-563-3111)<br>www.agriprowheat.com | OAKES , W1104, MH07-7483, W1062 (soft white winter wheat) | Dividend Extreme, Cruiser |
| **WestBred** (765-572-2905)<br>www.westbred.com | WBX 700 | Dividend Extreme, Storicide II |

# Table 2. Combined 2012 winter wheat performance test results (continued on next page).

| | | 2012 means | | Arlington | | Chilton | | Janesville | | Lancaster | | 2011 mean |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brand | Entry | 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) |
| Public | Hopewell | 99 | 61.9 | 110 | 62.6 | 101 | 61.2 | 86 | 62.3 | 100 | 61.5 | 88 |
| | Kaskaskia | 97 | 63.2 | 103 | 64.0 | 101 | 62.4 | 81 | 63.8 | 104 | 62.5 | 85 |
| | Red Devil Brand | 106 | 61.8 | 115 | 62.5 | 111 | 61.0 | 89 | 62.7 | 107 | 60.9 | *94 |
| | Sunburst | 107 | 64.7 | 123 | 64.9 | *113 | 63.9 | 89 | 65.3 | 101 | 64.6 | 87 |
| Public-exp | IL 07-20743 | 94 | 64.2 | 102 | 66.0 | 92 | 62.8 | 85 | 64.2 | 98 | 63.7 | 80 |
| | VA 06W-412 | 94 | 62.7 | 96 | 63.3 | 111 | 62.7 | 81 | 63.5 | 88 | 61.0 | |
| | VA 08W-176 | 98 | 63.9 | 113 | 64.8 | 105 | 62.6 | 83 | 64.5 | 90 | 63.8 | |
| | VA 08W-294 | 99 | 63.0 | 115 | 64.6 | 104 | 61.7 | 77 | 63.3 | 99 | 62.3 | |
| AgriMAXX | 413 | 109 | 61.3 | 120 | 62.5 | 107 | 59.1 | *94 | 62.6 | 117 | 60.9 | |
| | Exp 1215 | 111 | 60.0 | 128 | 60.8 | *114 | 60.1 | *102 | 60.0 | 96 | 59.0 | |
| Croplan Genetics | 8309 | 90 | 60.7 | 95 | 61.4 | 103 | 60.2 | 78 | 60.6 | 85 | 60.7 | |
| | 8614 | 101 | 61.1 | 108 | 62.3 | 102 | 58.6 | *93 | 62.2 | 101 | 61.3 | |
| | 8925 | 100 | 62.0 | 113 | 62.5 | 108 | 61.9 | 83 | 62.4 | 98 | 61.1 | |
| | 9012 | 96 | 61.9 | 113 | 63.5 | 101 | 59.9 | 82 | 62.9 | 87 | 61.3 | |
| | 9101 | 111 | 61.8 | 121 | 63.1 | 110 | 60.4 | *94 | 61.7 | 120 | 62.1 | |
| Diener | D 492 | 109 | 61.2 | 121 | 62.4 | *113 | 58.7 | 87 | 62.2 | 118 | 61.5 | 89 |
| | D 498 | 107 | 62.8 | 123 | 64.2 | 108 | 60.9 | 87 | 63.8 | 111 | 62.1 | *93 |
| | D 501 | 92 | 61.9 | 106 | 63.3 | 90 | 59.3 | 81 | 62.5 | 90 | 62.4 | |
| | XW 13 | 104 | 60.4 | 121 | 60.6 | 107 | 59.4 | 86 | 61.9 | 104 | 59.4 | |
| Direct | Edge | 100 | 62.1 | 116 | 63.3 | 94 | 59.6 | 88 | 62.8 | 101 | 62.8 | |
| | Quest | 105 | 60.4 | 120 | 61.0 | 109 | 59.4 | 86 | 61.0 | 104 | 60.2 | 86 |
| | Sienna | 104 | 60.1 | 116 | 60.8 | 104 | 58.7 | *93 | 61.3 | 102 | 59.6 | *93 |
| Dyna-Gro | 9042 | 113 | 61.3 | 129 | 61.9 | *113 | 59.7 | *95 | 62.2 | 112 | 61.3 | *98 |
| | 9053 | 110 | 59.8 | 116 | 59.8 | 102 | 59.8 | *100 | 60.0 | *125 | 59.7 | |
| | WX 12603 | 113 | 60.5 | 121 | 60.5 | 112 | 60.0 | *102 | 60.7 | 117 | 61.0 | |
| Excel / VanTreek | EXCEL 234 | 83 | 61.2 | 81 | 61.5 | 98 | 60.4 | 79 | 62.6 | 73 | 60.0 | 87 |
| Excel / Welter | EXCEL 442 | 102 | 61.9 | 112 | 63.3 | 98 | 60.4 | 86 | 61.8 | 114 | 62.0 | *93 |
| FS Seed | FS 602 | 109 | 61.3 | 115 | 62.5 | 108 | 59.6 | *98 | 62.2 | 115 | 60.9 | |
| | FS 622 | 107 | 63.4 | 126 | 64.2 | 103 | 62.2 | 91 | 63.9 | 109 | 63.4 | 91 |
| | FS 625 | 112 | 60.5 | 126 | 61.9 | *115 | 59.6 | *102 | 60.1 | 105 | 60.4 | |
| | FS 630 | 103 | 61.9 | 104 | 62.9 | *113 | 61.1 | 86 | 62.1 | 107 | 61.3 | 83 |
| Jung | 5820 | 101 | 61.9 | 117 | 63.6 | 97 | 59.3 | 89 | 63.2 | 100 | 61.5 | |
| | 5844 | 106 | 61.2 | 114 | 62.1 | 109 | 59.0 | 89 | 61.7 | 115 | 61.9 | 92 |
| | 5855 | 103 | 60.3 | 114 | 60.5 | 108 | 58.2 | 87 | 61.5 | 104 | 61.1 | *94 |
| Legacy | LW 870 | 84 | 60.0 | 85 | 59.0 | 105 | 60.4 | 70 | 60.0 | 76 | 60.6 | |
| | LW 1065 | 99 | 61.9 | 107 | 62.4 | *114 | 61.8 | 80 | 62.3 | 94 | 60.8 | 88 |
| | LW 1072 | 79 | 60.6 | 84 | 61.7 | 97 | 60.4 | 71 | 62.3 | 61 | 57.7 | 86 |
| | LW 1155 | 105 | 61.0 | 117 | 62.3 | *117 | 59.4 | 89 | 61.8 | 96 | 60.6 | 90 |
| | LW 1210 | 100 | 62.1 | 117 | 63.7 | 99 | 59.9 | 81 | 62.8 | 102 | 62.0 | |
| | LW 1230 | 99 | 62.2 | 99 | 62.6 | 105 | 61.4 | 89 | 63.1 | 101 | 61.9 | |
| | LW 1245 | 83 | 61.8 | 90 | 63.3 | 90 | 60.6 | 74 | 62.0 | 77 | 61.2 | |
| | LW 1250 | 92 | 62.2 | 99 | 63.3 | 101 | 61.3 | 81 | 62.6 | 87 | 61.1 | |
| | LXW 242 | 99 | 61.8 | 109 | 62.5 | 104 | 61.6 | 87 | 62.7 | 95 | 60.4 | |

## Table 2. Combined 2012 winter wheat performance test results (continued from previous page).

| Brand | Entry | 2012 means | | Arlington | | Chilton | | Janesville | | Lancaster | | 2011 mean |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 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) |
| Pioneer | 25R30 | 112 | 62.2 | 130 | 63.2 | *114 | 61.0 | 87 | 62.6 | 117 | 61.8 | *94 |
| | 25R34 | *117 | 61.3 | *139 | 61.9 | *119 | 60.5 | *102 | 61.5 | 103 | 61.0 | *99 |
| | 25R39 | *116 | 62.4 | 131 | 63.1 | *113 | 62.2 | *102 | 62.3 | 120 | 61.9 | *96 |
| | 25R40 | *122 | 62.6 | *143 | 64.3 | 111 | 60.8 | *101 | 62.7 | *135 | 62.7 | *93 |
| | 25R47 | *117 | 60.8 | *138 | 61.6 | *119 | 59.7 | *101 | 61.3 | 109 | 60.7 | *94 |
| PIP | 702 | 104 | 60.2 | 120 | 61.0 | 102 | 58.4 | 79 | 60.6 | 114 | 60.7 | *94 |
| | 711 | 98 | 61.0 | 102 | 61.5 | 104 | 60.9 | *94 | 61.0 | 92 | 60.4 | |
| | 717 | 82 | 60.6 | 83 | 62.0 | 99 | 59.7 | 79 | 62.5 | 65 | 57.9 | 92 |
| | 721 | 113 | 60.6 | 128 | 60.9 | *119 | 59.7 | 90 | 61.3 | 116 | 60.5 | |
| | 722 | *114 | 60.4 | 131 | 61.2 | *115 | 59.4 | *101 | 60.4 | 109 | 60.7 | |
| | 728 | 98 | 61.4 | 111 | 63.1 | 101 | 60.2 | 78 | 62.0 | 100 | 60.1 | 92 |
| | 729 | 109 | 62.1 | 122 | 62.5 | *113 | 61.6 | 89 | 63.0 | 113 | 61.2 | *96 |
| | 731 | 101 | 61.8 | 108 | 62.1 | 111 | 61.4 | 84 | 62.4 | 101 | 61.2 | 91 |
| | 732 | 111 | 61.3 | 128 | 62.7 | *122 | 59.7 | 87 | 61.8 | 108 | 60.9 | |
| | 740 | 105 | 61.3 | 123 | 63.2 | 111 | 59.3 | 87 | 62.1 | 99 | 60.6 | 91 |
| | 752 | 106 | 60.8 | 128 | 61.2 | 110 | 60.2 | 82 | 60.7 | 104 | 61.1 | *93 |
| | 753 | 95 | 62.5 | 106 | 63.8 | 99 | 61.2 | 78 | 62.3 | 98 | 62.8 | |
| | 756 | 89 | 61.0 | 94 | 61.6 | 97 | 61.2 | 79 | 60.8 | 87 | 60.3 | *94 |
| | 760 | 91 | 61.2 | 91 | 61.3 | 105 | 61.7 | 76 | 60.5 | 94 | 61.2 | *95 |
| | 761 | 92 | 61.4 | 95 | 61.6 | 105 | 61.9 | 81 | 60.7 | 86 | 61.3 | 92 |
| | 772 | 103 | 61.9 | 111 | 62.0 | 111 | 61.4 | *93 | 63.2 | 94 | 61.1 | |
| | 774 | 98 | 61.8 | 112 | 62.3 | 106 | 61.8 | 87 | 62.7 | 88 | 60.2 | |
| | 775 | 101 | 61.7 | 111 | 62.2 | 111 | 61.3 | 87 | 62.7 | 95 | 60.5 | |
| | 778 | 108 | 62.0 | 116 | 62.5 | 112 | 61.4 | 90 | 62.9 | 112 | 61.3 | |
| | 779 | 90 | 61.1 | 90 | 61.9 | 102 | 60.8 | 81 | 60.6 | 89 | 61.0 | |
| Pro Seed Genetics | PRO 200 | 93 | 61.0 | 95 | 61.8 | 104 | 59.7 | 87 | 62.9 | 83 | 59.5 | 84 |
| | PRO 240 | 107 | 61.2 | 113 | 62.3 | 109 | 59.1 | *96 | 62.1 | 110 | 61.1 | 92 |
| | PRO 260 | 104 | 61.4 | 124 | 63.1 | *114 | 60.1 | 79 | 61.7 | 97 | 60.6 | *97 |
| | PRO 320A | 105 | 61.7 | 117 | 63.1 | 96 | 60.3 | 88 | 62.3 | 120 | 61.0 | 91 |
| | PRO Ex 310 | 104 | 60.5 | 118 | 60.8 | *115 | 59.2 | 79 | 61.0 | 105 | 60.8 | |
| | PRO Ex 330 | 106 | 60.4 | 121 | 61.9 | 106 | 58.8 | 89 | 61.1 | 110 | 59.9 | |
| | PRO Ex 350 | 106 | 60.3 | 123 | 60.9 | *113 | 59.9 | 84 | 60.1 | 104 | 60.5 | |
| | PRO Ex 360A | 96 | 61.7 | 102 | 62.3 | 111 | 61.6 | 84 | 62.6 | 88 | 60.0 | *93 |
| Pro Seed/Kratz | PRO 320A | 98 | 61.9 | 111 | 63.2 | 99 | 60.7 | 82 | 62.2 | 101 | 61.3 | |
| Syngenta | OAKES | 105 | 62.1 | 119 | 63.3 | 106 | 61.0 | 82 | 62.2 | 113 | 61.7 | *95 |
| soft white winter wheat--> | W1062 | 106 | 60.8 | 112 | 61.2 | 109 | 59.6 | 91 | 60.9 | 111 | 61.7 | 87 |
| | W1104 | 109 | 60.6 | 123 | 61.3 | 108 | 59.6 | 86 | 60.4 | 119 | 61.2 | *93 |
| | MH07-7483 | 108 | 61.3 | 115 | 61.7 | *114 | 61.1 | 88 | 60.8 | 114 | 61.5 | |
| WestBred | WBX 700 | 87 | 60.6 | 94 | 61.3 | 105 | 60.9 | 74 | 60.5 | 76 | 59.2 | |
| | Mean | 102 | 61.5 | 113 | 62.3 | 107 | 60.5 | 87 | 62.0 | 101 | 61.1 | 89 |
| | LSD(.10) | 8 | 0.9 | 6 | 0.7 | 9 | 0.9 | 10 | 0.9 | 14 | 1.4 | 6 |

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

## Table 3. Arlington site 2012 winter wheat performance test results (continued on next page).

| | | 2012 means | | | | 2011 means | |
|---|---|---|---|---|---|---|---|
| Brand | Entry | Yield (bu/a) | Test wt. (lb/bu) | Height (in.) | Lodging (1-5) | Yield (bu/a) | Test wt. (lb/bu) |
| Public | Hopewell | 110 | 62.6 | 43 | 1 | 97 | 60.3 |
| | Kaskaskia | 103 | 64.0 | 45 | 1 | 93 | 62.4 |
| | Red Devil Brand | 115 | 62.5 | 42 | 1 | 102 | 61.7 |
| | Sunburst | 123 | 64.9 | 36 | 1 | 95 | 61.8 |
| Public-exp | IL 07-20743 | 102 | 66.0 | 45 | 1 | 88 | 64.3 |
| | VA 06W-412 | 96 | 63.3 | 37 | 1 | | |
| | VA 08W-176 | 113 | 64.8 | 37 | 1 | | |
| | VA 08W-294 | 115 | 64.6 | 37 | 1 | | |
| AgriMAXX | 413 | 120 | 62.5 | 36 | 1 | | |
| | Exp 1215 | 128 | 60.8 | 39 | 1 | | |
| Croplan Genetics | 8309 | 95 | 61.4 | 40 | 1 | | |
| | 8614 | 108 | 62.3 | 45 | 1 | | |
| | 8925 | 113 | 62.5 | 42 | 1 | | |
| | 9012 | 113 | 63.5 | 42 | 1 | | |
| | 9101 | 121 | 63.1 | 40 | 1 | | |
| Diener | D 492 | 121 | 62.4 | 37 | 1 | 95 | 58.7 |
| | D 498 | 123 | 64.2 | 40 | 1 | 98 | 61.4 |
| | D 501 | 106 | 63.3 | 42 | 1 | | |
| | XW 13 | 121 | 60.6 | 39 | 1 | | |
| Direct | Edge | 116 | 63.3 | 42 | 1 | | |
| | Quest | 120 | 61.0 | 42 | 1 | 88 | 58.0 |
| | Sienna | 116 | 60.8 | 45 | 1 | *107 | 60.6 |
| Dyna-Gro | 9042 | 129 | 61.9 | 39 | 1 | *103 | 61.1 |
| | 9053 | 116 | 59.8 | 39 | 1 | | |
| | WX 12603 | 121 | 60.5 | 40 | 1 | | |
| Excel / VanTreek | EXCEL 234 | 81 | 61.5 | 41 | 1 | 97 | 62.1 |
| Excel / Welter | EXCEL 442 | 112 | 63.3 | 43 | 1 | *104 | 60.1 |
| FS Seed | FS 602 | 115 | 62.5 | 37 | 1 | | |
| | FS 622 | 126 | 64.2 | 38 | 1 | 93 | 61.5 |
| | FS 625 | 126 | 61.9 | 39 | 1 | | |
| | FS 630 | 104 | 62.9 | 44 | 1 | 88 | 60.6 |
| Jung | 5820 | 117 | 63.6 | 43 | 1 | | |
| | 5844 | 114 | 62.1 | 45 | 1 | 100 | 60.8 |
| | 5855 | 114 | 60.5 | 45 | 1 | 100 | 60.5 |
| Legacy | LW 870 | 85 | 59.0 | 41 | 1 | | |
| | LW 1065 | 107 | 62.4 | 40 | 1 | 96 | 61.8 |
| | LW 1072 | 84 | 61.7 | 41 | 1 | 85 | 61.5 |
| | LW 1155 | 117 | 62.3 | 37 | 1 | 93 | 58.7 |
| | LW 1210 | 117 | 63.7 | 41 | 1 | | |
| | LW 1230 | 99 | 62.6 | 41 | 1 | | |
| | LW 1245 | 90 | 63.3 | 42 | 1 | | |
| | LW 1250 | 99 | 63.3 | 41 | 1 | | |
| | LXW 242 | 109 | 62.5 | 40 | 1 | | |

## Table 3. Arlington site 2012 winter wheat performance test results (continued from previous page).

| | | 2012 means | | | | 2011 means | |
|---|---|---|---|---|---|---|---|
| Brand | Entry | Yield (bu/a) | Test wt. (lb/bu) | Height (in.) | Lodging (1-5) | Yield (bu/a) | Test wt. (lb/bu) |
| Pioneer | 25R30 | 130 | 63.2 | 38 | 1 | *107 | 61.7 |
| | 25R34 | *139 | 61.9 | 39 | 1 | *111 | 60.3 |
| | 25R39 | 131 | 63.1 | 39 | 1 | *111 | 61.7 |
| | 25R40 | *143 | 64.3 | 36 | 1 | *106 | 59.8 |
| | 25R47 | *138 | 61.6 | 37 | 1 | *104 | 60.1 |
| PIP | 702 | 120 | 61.0 | 44 | 1 | *105 | 60.4 |
| | 711 | 102 | 61.5 | 40 | 1 | | |
| | 717 | 83 | 62.0 | 40 | 1 | 96 | 61.9 |
| | 721 | 128 | 60.9 | 40 | 1 | | |
| | 722 | 131 | 61.2 | 40 | 1 | | |
| | 728 | 111 | 63.1 | 44 | 1 | 97 | 60.0 |
| | 729 | 122 | 62.5 | 42 | 1 | *107 | 62.3 |
| | 731 | 108 | 62.1 | 42 | 1 | 98 | 61.2 |
| | 732 | 128 | 62.7 | 36 | 1 | | |
| | 740 | 123 | 63.2 | 40 | 1 | 101 | 60.6 |
| | 752 | 128 | 61.2 | 40 | 1 | 102 | 61.2 |
| | 753 | 106 | 63.8 | 42 | 1 | | |
| | 756 | 94 | 61.6 | 45 | 1 | 99 | 61.3 |
| | 760 | 91 | 61.3 | 45 | 1 | *104 | 61.3 |
| | 761 | 95 | 61.6 | 44 | 1 | 101 | 61.0 |
| | 772 | 111 | 62.0 | 42 | 1 | | |
| | 774 | 112 | 62.3 | 41 | 1 | | |
| | 775 | 111 | 62.2 | 38 | 1 | | |
| | 778 | 116 | 62.5 | 41 | 1 | | |
| | 779 | 90 | 61.9 | 44 | 1 | | |
| Pro Seed Genetics | PRO 200 | 95 | 61.8 | 47 | 1 | 88 | 62.4 |
| | PRO 240 | 113 | 62.3 | 46 | 1 | 95 | 60.9 |
| | PRO 260 | 124 | 63.1 | 39 | 1 | 102 | 61.1 |
| | PRO 320A | 117 | 63.1 | 44 | 1 | *105 | 60.4 |
| | PRO Ex 310 | 118 | 60.8 | 45 | 1 | | |
| | PRO Ex 330 | 121 | 61.9 | 42 | 1 | | |
| | PRO Ex 350 | 123 | 60.9 | 39 | 1 | | |
| | PRO Ex 360A | 102 | 62.3 | 41 | 1 | 102 | 60.9 |
| Pro Seed/Kratz | PRO 320A | 111 | 63.2 | 44 | 1 | | |
| Syngenta | OAKES | 119 | 63.3 | 40 | 1 | 100 | 62.4 |
| | W1062 (soft white winter wheat) | 112 | 61.2 | 43 | 1 | 99 | 60.0 |
| | W1104 | 123 | 61.3 | 41 | 1 | *108 | 60.1 |
| | MH07-7483 | 115 | 61.7 | 43 | 1 | | |
| WestBred | WBX 700 | 94 | 61.3 | 41 | 1 | | |
| | Mean | 113 | 62.3 | 41 | 1 | 97 | 61.1 |
| | LSD(.10) | 6 | 0.7 | 1.8 | NS | 8 | 0.6 |

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

# Table 4. Chilton 2012 winter wheat performance test results (continued on next page).

| | | 2012 means | | | | 2011 means | |
|---|---|---|---|---|---|---|---|
| Brand | Entry | Yield (bu/a) | Test wt. (lb/bu) | Height (in.) | Lodging (1-5) | Yield (bu/a) | Test wt. (lb/bu) |
| Public | Hopewell | 101 | 61.2 | 35 | 1 | 71 | 55.7 |
| | Kaskaskia | 101 | 62.4 | 37 | 1 | 65 | 58.8 |
| | Red Devil Brand | 111 | 61.0 | 33 | 1 | *84 | 58.6 |
| | Sunburst | *113 | 63.9 | 29 | 1 | *75 | 57.9 |
| Public-exp | IL 07-20743 | 92 | 62.8 | 35 | 1 | 63 | 58.8 |
| | VA 06W-412 | 111 | 62.7 | 30 | 1 | | |
| | VA 08W-176 | 105 | 62.6 | 32 | 1 | | |
| | VA 08W-294 | 104 | 61.7 | 31 | 1 | | |
| AgriMAXX | 413 | 107 | 59.1 | 30 | 1 | | |
| | Exp 1215 | *114 | 60.1 | 30 | 1 | | |
| Croplan Genetics | 8309 | 103 | 60.2 | 32 | 1 | | |
| | 8614 | 102 | 58.6 | 36 | 1 | | |
| | 8925 | 108 | 61.9 | 33 | 1 | | |
| | 9012 | 101 | 59.9 | 33 | 1 | | |
| | 9101 | 110 | 60.4 | 33 | 1 | | |
| Diener | D 492 | *113 | 58.7 | 29 | 1 | 67 | 55.2 |
| | D 498 | 108 | 60.9 | 33 | 1 | *77 | 57.6 |
| | D 501 | 90 | 59.3 | 34 | 1 | | |
| | XW 13 | 107 | 59.4 | 30 | 1 | | |
| Direct | Edge | 94 | 59.6 | 35 | 1 | | |
| | Quest | 109 | 59.4 | 35 | 1 | *77 | 54.2 |
| | Sienna | 104 | 58.7 | 38 | 1 | 69 | 55.6 |
| Dyna-Gro | 9042 | *113 | 59.7 | 34 | 1 | *86 | 56.7 |
| | 9053 | 102 | 59.8 | 31 | 1 | | |
| | WX 12603 | 112 | 60.0 | 34 | 1 | | |
| Excel / VanTreek | EXCEL 234 | 98 | 60.4 | 33 | 1 | 68 | 57.5 |
| Excel / Welter | EXCEL 442 | 98 | 60.4 | 36 | 1 | 71 | 56.0 |
| FS Seed | FS 602 | 108 | 59.6 | 29 | 1 | | |
| | FS 622 | 103 | 62.2 | 29 | 1 | *78 | 57.9 |
| | FS 625 | *115 | 59.6 | 31 | 1 | | |
| | FS 630 | *113 | 61.1 | 37 | 1 | 62 | 56.1 |
| Jung | 5820 | 97 | 59.3 | 34 | 1 | | |
| | 5844 | 109 | 59.0 | 37 | 1 | *76 | 56.0 |
| | 5855 | 108 | 58.2 | 38 | 1 | *79 | 55.7 |
| Legacy | LW 870 | 105 | 60.4 | 34 | 1 | | |
| | LW 1065 | *114 | 61.8 | 33 | 1 | *74 | 57.4 |
| | LW 1072 | 97 | 60.4 | 33 | 1 | 63 | 57.7 |
| | LW 1155 | *117 | 59.4 | 29 | 1 | 66 | 55.6 |
| | LW 1210 | 99 | 59.9 | 34 | 1 | | |
| | LW 1230 | 105 | 61.4 | 33 | 1 | | |
| | LW 1245 | 90 | 60.6 | 35 | 1 | | |
| | LW 1250 | 101 | 61.3 | 33 | 1 | | |
| | LXW 242 | 104 | 61.6 | 33 | 1 | | |

# Table 4. Chilton 2012 winter wheat performance test results (continued from previous page).

| Brand | Entry | 2012 means Yield (bu/a) | Test wt. (lb/bu) | Height (in.) | Lodging (1-5) | 2011 means Yield (bu/a) | Test wt. (lb/bu) |
|---|---|---|---|---|---|---|---|
| Pioneer | 25R30 | *114 | 61.0 | 31 | 1 | 68 | 57.2 |
| | 25R34 | *119 | 60.5 | 31 | 1 | *78 | 57.2 |
| | 25R39 | *113 | 62.2 | 32 | 1 | 71 | 56.0 |
| | 25R40 | 111 | 60.8 | 28 | 1 | 62 | 56.2 |
| | 25R47 | *119 | 59.7 | 30 | 1 | 71 | 55.7 |
| PIP | 702 | 102 | 58.4 | 38 | 1 | *74 | 55.4 |
| | 711 | 104 | 60.9 | 34 | 1 | | |
| | 717 | 99 | 59.7 | 33 | 1 | *82 | 58.3 |
| | 721 | *119 | 59.7 | 34 | 1 | | |
| | 722 | *115 | 59.4 | 31 | 1 | | |
| | 728 | 101 | 60.2 | 36 | 1 | *74 | 56.4 |
| | 729 | *113 | 61.6 | 33 | 1 | *76 | 58.6 |
| | 731 | 111 | 61.4 | 32 | 1 | *74 | 57.1 |
| | 732 | *122 | 59.7 | 29 | 1 | | |
| | 740 | 111 | 59.3 | 34 | 1 | *77 | 56.8 |
| | 752 | 110 | 60.2 | 34 | 1 | 71 | 56.5 |
| | 753 | 99 | 61.2 | 33 | 1 | | |
| | 756 | 97 | 61.2 | 38 | 1 | *79 | 56.4 |
| | 760 | 105 | 61.7 | 38 | 1 | *82 | 56.7 |
| | 761 | 105 | 61.9 | 38 | 1 | *77 | 56.5 |
| | 772 | 111 | 61.4 | 33 | 1 | | |
| | 774 | 106 | 61.8 | 33 | 1 | | |
| | 775 | 111 | 61.3 | 33 | 1 | | |
| | 778 | 112 | 61.4 | 32 | 1 | | |
| | 779 | 102 | 60.8 | 39 | 1 | | |
| Pro Seed Genetics | PRO 200 | 104 | 59.7 | 37 | 1 | 64 | 57.3 |
| | PRO 240 | 109 | 59.1 | 37 | 1 | 72 | 56.0 |
| | PRO 260 | *114 | 60.1 | 34 | 1 | *85 | 57.0 |
| | PRO 320A | 96 | 60.3 | 37 | 1 | 64 | 56.2 |
| | PRO Ex 310 | *115 | 59.2 | 36 | 1 | | |
| | PRO Ex 330 | 106 | 58.8 | 35 | 1 | | |
| | PRO Ex 350 | *113 | 59.9 | 33 | 1 | | |
| | PRO Ex 360A | 111 | 61.6 | 33 | 1 | 66 | 56.5 |
| Pro Seed/Kratz | PRO 320A | 99 | 60.7 | 36 | 1 | | |
| Syngenta | OAKES | 106 | 61.0 | 33 | 1 | *78 | 59.1 |
| | W1062 (soft white winter wheat) | 109 | 59.6 | 35 | 1 | 65 | 55.8 |
| | W1104 | 108 | 59.6 | 32 | 1 | 71 | 56.6 |
| | MH07-7483 | *114 | 61.1 | 35 | 1 | | |
| WestBred | WBX 700 | 105 | 60.9 | 34 | 1 | | |
| | Mean | 107 | 60.5 | 33 | 1 | 71 | 56.9 |
| | LSD(.10) | 9 | 0.9 | 2 | NS | 12 | 0.7 |

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

## Table 5. Janesville 2012 winter wheat performance test results (continued on next page).

| | | 2012 means | | | | 2011 means | |
|---|---|---|---|---|---|---|---|
| Brand | Entry | Yield (bu/a) | Test wt. (lb/bu) | Height (in.) | Lodging (1-5) | Yield (bu/a) | Test wt. (lb/bu) |
| Public | Hopewell | 86 | 62.3 | 34 | 1 | 82 | 60.4 |
| | Kaskaskia | 81 | 63.8 | 37 | 1 | 90 | 60.6 |
| | Red Devil Brand | 89 | 62.7 | 32 | 1 | 84 | 59.1 |
| | Sunburst | 89 | 65.3 | 29 | 1 | 83 | 61.5 |
| Public-exp | IL 07-20743 | 85 | 64.2 | 36 | 1 | 77 | 61.0 |
| | VA 06W-412 | 81 | 63.5 | 30 | 1 | | |
| | VA 08W-176 | 83 | 64.5 | 32 | 1 | | |
| | VA 08W-294 | 77 | 63.3 | 31 | 1 | | |
| AgriMAXX | 413 | *94 | 62.6 | 32 | 1 | | |
| | Exp 1215 | *102 | 60.0 | 32 | 1 | | |
| Croplan Genetics | 8309 | 78 | 60.6 | 31 | 1 | | |
| | 8614 | *93 | 62.2 | 36 | 1 | | |
| | 8925 | 83 | 62.4 | 32 | 1 | | |
| | 9012 | 82 | 62.9 | 34 | 1 | | |
| | 9101 | *94 | 61.7 | 33 | 1 | | |
| Diener | D 492 | 87 | 62.2 | 31 | 1 | 88 | 57.9 |
| | D 498 | 87 | 63.8 | 33 | 1 | 89 | 59.6 |
| | D 501 | 81 | 62.5 | 34 | 1 | | |
| | XW 13 | 86 | 61.9 | 32 | 1 | | |
| Direct | Edge | 88 | 62.8 | 34 | 1 | | |
| | Quest | 86 | 61.0 | 32 | 1 | 81 | 56.9 |
| | Sienna | *93 | 61.3 | 36 | 1 | 93 | 58.5 |
| Dyna-Gro | 9042 | *95 | 62.2 | 32 | 1 | 93 | 58.7 |
| | 9053 | *100 | 60.0 | 31 | 1 | | |
| | WX 12603 | *102 | 60.7 | 34 | 1 | | |
| Excel / VanTreek | EXCEL 234 | 79 | 62.6 | 33 | 1 | 83 | 59.0 |
| Excel / Welter | EXCEL 442 | 86 | 61.8 | 36 | 1 | 90 | 58.5 |
| FS Seed | FS 602 | *98 | 62.2 | 32 | 1 | | |
| | FS 622 | 91 | 63.9 | 31 | 1 | 88 | 59.8 |
| | FS 625 | *102 | 60.1 | 33 | 1 | | |
| | FS 630 | 86 | 62.1 | 34 | 1 | 82 | 58.8 |
| Jung | 5820 | 89 | 63.2 | 35 | 1 | | |
| | 5844 | 89 | 61.7 | 36 | 1 | 82 | 58.2 |
| | 5855 | 87 | 61.5 | 36 | 1 | 88 | 58.3 |
| Legacy | LW 870 | 70 | 60.0 | 32 | 1 | | |
| | LW 1065 | 80 | 62.3 | 33 | 1 | 85 | 59.2 |
| | LW 1072 | 71 | 62.3 | 31 | 1 | 86 | 59.6 |
| | LW 1155 | 89 | 61.8 | 31 | 1 | 87 | 58.8 |
| | LW 1210 | 81 | 62.8 | 34 | 1 | | |
| | LW 1230 | 89 | 63.1 | 34 | 1 | | |
| | LW 1245 | 74 | 62.0 | 32 | 1 | | |
| | LW 1250 | 81 | 62.6 | 31 | 1 | | |
| | LXW 242 | 87 | 62.7 | 33 | 1 | | |

## Table 5. Janesville 2012 winter wheat performance test results (continued from previous page).

| | | 2012 means | | | | 2011 means | |
|---|---|---|---|---|---|---|---|
| Brand | Entry | Yield (bu/a) | Test wt. (lb/bu) | Height (in.) | Lodging (1-5) | Yield (bu/a) | Test wt. (lb/bu) |
| Pioneer | 25R30 | 87 | 62.6 | 32 | 1 | 89 | 59.5 |
| | 25R34 | *102 | 61.5 | 33 | 1 | 88 | 58.5 |
| | 25R39 | *102 | 62.3 | 31 | 1 | 91 | 59.4 |
| | 25R40 | *101 | 62.7 | 30 | 1 | 91 | 58.2 |
| | 25R47 | *101 | 61.3 | 33 | 1 | 92 | 58.0 |
| PIP | 702 | 79 | 60.6 | 35 | 1 | 92 | 58.7 |
| | 711 | *94 | 61.0 | 35 | 1 | | |
| | 717 | 79 | 62.5 | 33 | 1 | 89 | 59.9 |
| | 721 | 90 | 61.3 | 34 | 1 | | |
| | 722 | *101 | 60.4 | 33 | 1 | | |
| | 728 | 78 | 62.0 | 36 | 1 | 89 | 58.9 |
| | 729 | 89 | 63.0 | 32 | 1 | 88 | 59.7 |
| | 731 | 84 | 62.4 | 32 | 1 | 87 | 59.9 |
| | 732 | 87 | 61.8 | 31 | 1 | | |
| | 740 | 87 | 62.1 | 35 | 1 | *101 | 58.5 |
| | 752 | 82 | 60.7 | 31 | 1 | 93 | 59.0 |
| | 753 | 78 | 62.3 | 32 | 1 | | |
| | 756 | 79 | 60.8 | 35 | 1 | 91 | 59.5 |
| | 760 | 76 | 60.5 | 33 | 1 | 85 | 59.5 |
| | 761 | 81 | 60.7 | 36 | 1 | 86 | 59.1 |
| | 772 | *93 | 63.2 | 34 | 1 | | |
| | 774 | 87 | 62.7 | 34 | 1 | | |
| | 775 | 87 | 62.7 | 33 | 1 | | |
| | 778 | 90 | 62.9 | 33 | 1 | | |
| | 779 | 81 | 60.6 | 36 | 1 | | |
| Pro Seed Genetics | PRO 200 | 87 | 62.9 | 37 | 1 | 85 | 60.2 |
| | PRO 240 | *96 | 62.1 | 36 | 1 | 89 | 58.4 |
| | PRO 260 | 79 | 61.7 | 33 | 1 | *94 | 58.4 |
| | PRO 320A | 88 | 62.3 | 37 | 1 | 91 | 59.5 |
| | PRO Ex 310 | 79 | 61.0 | 36 | 1 | | |
| | PRO Ex 330 | 89 | 61.1 | 33 | 1 | | |
| | PRO Ex 350 | 84 | 60.1 | 31 | 1 | | |
| | PRO Ex 360A | 84 | 62.6 | 32 | 1 | *94 | 59.7 |
| Pro Seed/Kratz | PRO 320A | 82 | 62.2 | 37 | 1 | | |
| Syngenta | OAKES | 82 | 62.2 | 31 | 1 | *94 | 60.2 |
| | W1062 (soft white winter wheat) | 91 | 60.9 | 34 | 1 | 80 | 58.7 |
| | W1104 | 86 | 60.4 | 32 | 1 | 92 | 59.0 |
| | MH07-7483 | 88 | 60.8 | 33 | 1 | | |
| WestBred | WBX 700 | 74 | 60.5 | 32 | 1 | | |
| | Mean | 87 | 62.0 | 33 | 1 | 86 | 59.2 |
| | LSD(.10) | 10 | 0.9 | 2 | NS | 7 | 1.0 |

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

## Table 6. Lancaster 2012 winter wheat performance test results (continued on next page).

| | | 2012 means | | | | 2011 means | |
|---|---|---|---|---|---|---|---|
| Brand | Entry | Yield (bu/a) | Test wt. (lb/bu) | Height (in.) | Lodging (1-5) | Yield (bu/a) | Test wt. (lb/bu) |
| Public | Hopewell | 100 | 61.5 | 40 | 1 | 100 | 57.7 |
| | Kaskaskia | 104 | 62.5 | 43 | 1 | 91 | 59.2 |
| | Red Devil Brand | 107 | 60.9 | 38 | 1 | 105 | 57.9 |
| | Sunburst | 101 | 64.6 | 34 | 1 | 96 | 60.1 |
| Public-exp | IL 07-20743 | 98 | 63.7 | 41 | 1 | 93 | 59.2 |
| | VA 06W-412 | 88 | 61.0 | 35 | 1 | | |
| | VA 08W-176 | 90 | 63.8 | 35 | 1 | | |
| | VA 08W-294 | 99 | 62.3 | 33 | 1 | | |
| AgriMAXX | 413 | 117 | 60.9 | 36 | 1 | | |
| | Exp 1215 | 96 | 59.0 | 36 | 1 | | |
| Croplan Genetics | 8309 | 85 | 60.7 | 38 | 1 | | |
| | 8614 | 101 | 61.3 | 42 | 1 | | |
| | 8925 | 98 | 61.1 | 39 | 1 | | |
| | 9012 | 87 | 61.3 | 40 | 1 | | |
| | 9101 | 120 | 62.1 | 39 | 1 | | |
| Diener | D 492 | 118 | 61.5 | 36 | 1 | 105 | 55.8 |
| | D 498 | 111 | 62.1 | 39 | 1 | *109 | 58.8 |
| | D 501 | 90 | 62.4 | 39 | 1 | | |
| | XW 13 | 104 | 59.4 | 37 | 1 | | |
| Direct | Edge | 101 | 62.8 | 40 | 1 | | |
| | Quest | 104 | 60.2 | 38 | 1 | 97 | 56.2 |
| | Sienna | 102 | 59.6 | 42 | 1 | 101 | 56.5 |
| Dyna-Gro | 9042 | 112 | 61.3 | 38 | 1 | *109 | 57.0 |
| | 9053 | *125 | 59.7 | 36 | 1 | | |
| | WX 12603 | 117 | 61.0 | 40 | 1 | | |
| Excel / VanTreek | EXCEL 234 | 73 | 60.0 | 39 | 1 | 101 | 57.4 |
| Excel / Welter | EXCEL 442 | 114 | 62.0 | 42 | 1 | 105 | 56.9 |
| FS Seed | FS 602 | 115 | 60.9 | 35 | 1 | | |
| | FS 622 | 109 | 63.4 | 38 | 1 | 105 | 57.6 |
| | FS 625 | 105 | 60.4 | 37 | 1 | | |
| | FS 630 | 107 | 61.3 | 41 | 1 | 100 | 59.4 |
| Jung | 5820 | 100 | 61.5 | 39 | 1 | | |
| | 5844 | 115 | 61.9 | 42 | 1 | *110 | 56.6 |
| | 5855 | 104 | 61.1 | 42 | 1 | 108 | 56.9 |
| Legacy | LW 870 | 76 | 60.6 | 37 | 1 | | |
| | LW 1065 | 94 | 60.8 | 40 | 1 | 95 | 58.1 |
| | LW 1072 | 61 | 57.7 | 37 | 1 | *109 | 57.8 |
| | LW 1155 | 96 | 60.6 | 34 | 1 | *113 | 55.8 |
| | LW 1210 | 102 | 62.0 | 41 | 1 | | |
| | LW 1230 | 101 | 61.9 | 39 | 1 | | |
| | LW 1245 | 77 | 61.2 | 38 | 1 | | |
| | LW 1250 | 87 | 61.1 | 38 | 1 | | |
| | LXW 242 | 95 | 60.4 | 36 | 1 | | |

## Table 6. Lancaster winter wheat performance test results (continued from previous page).

| | | 2012 means | | | | 2011 means | |
|---|---|---|---|---|---|---|---|
| Brand | Entry | Yield (bu/a) | Test wt. (lb/bu) | Height (in.) | Lodging (1-5) | Yield (bu/a) | Test wt. (lb/bu) |
| Pioneer | 25R30 | 117 | 61.8 | 38 | 1 | *110 | 57.8 |
| | 25R34 | 103 | 61.0 | 36 | 1 | *117 | 58.5 |
| | 25R39 | 120 | 61.9 | 37 | 1 | *112 | 57.3 |
| | 25R40 | *135 | 62.7 | 36 | 1 | *113 | 55.8 |
| | 25R47 | 109 | 60.7 | 36 | 1 | *110 | 56.0 |
| PIP | 702 | 114 | 60.7 | 43 | 1 | 104 | 56.7 |
| | 711 | 92 | 60.4 | 39 | 1 | | |
| | 717 | 65 | 57.9 | 37 | 1 | 101 | 58.0 |
| | 721 | 116 | 60.5 | 40 | 1 | | |
| | 722 | 109 | 60.7 | 36 | 1 | | |
| | 728 | 100 | 60.1 | 42 | 1 | 107 | 56.7 |
| | 729 | 113 | 61.2 | 39 | 1 | *113 | 58.3 |
| | 731 | 101 | 61.2 | 36 | 1 | 106 | 57.2 |
| | 732 | 108 | 60.9 | 34 | 1 | | |
| | 740 | 99 | 60.6 | 39 | 1 | 84 | 55.8 |
| | 752 | 104 | 61.1 | 37 | 1 | 107 | 57.1 |
| | 753 | 98 | 62.8 | 37 | 1 | | |
| | 756 | 87 | 60.3 | 41 | 1 | 105 | 58.6 |
| | 760 | 94 | 61.2 | 41 | 1 | 107 | 58.0 |
| | 761 | 86 | 61.3 | 40 | 1 | 102 | 57.9 |
| | 772 | 94 | 61.1 | 37 | 1 | | |
| | 774 | 88 | 60.2 | 37 | 1 | | |
| | 775 | 95 | 60.5 | 38 | 1 | | |
| | 778 | 112 | 61.3 | 39 | 1 | | |
| | 779 | 89 | 61.0 | 41 | 1 | | |
| Pro Seed Genetics | PRO 200 | 83 | 59.5 | 42 | 1 | 99 | 59.1 |
| | PRO 240 | 110 | 61.1 | 41 | 1 | *110 | 57.9 |
| | PRO 260 | 97 | 60.6 | 38 | 1 | 105 | 56.1 |
| | PRO 320A | 120 | 61.0 | 43 | 1 | 105 | 57.3 |
| | PRO Ex 310 | 105 | 60.8 | 43 | 1 | | |
| | PRO Ex 330 | 110 | 59.9 | 39 | 1 | | |
| | PRO Ex 350 | 104 | 60.5 | 37 | 1 | | |
| | PRO Ex 360A | 88 | 60.0 | 37 | 1 | 108 | 58.4 |
| Pro Seed/Kratz | PRO 320A | 101 | 61.3 | 42 | 1 | | |
| Syngenta | OAKES | 113 | 61.7 | 38 | 1 | 106 | 58.2 |
| | W1062 (soft white winter wheat) | 111 | 61.7 | 41 | 1 | 105 | 57.0 |
| | W1104 | 119 | 61.2 | 37 | 1 | 102 | 56.4 |
| | MH07-7483 | 114 | 61.5 | 42 | 1 | | |
| WestBred | WBX 700 | 76 | 59.2 | 37 | 1 | | |
| | | 101 | 61.1 | 39 | 1 | 102 | 57.6 |
| | | 14 | 1.4 | 2 | NS | 8 | 1.4 |

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