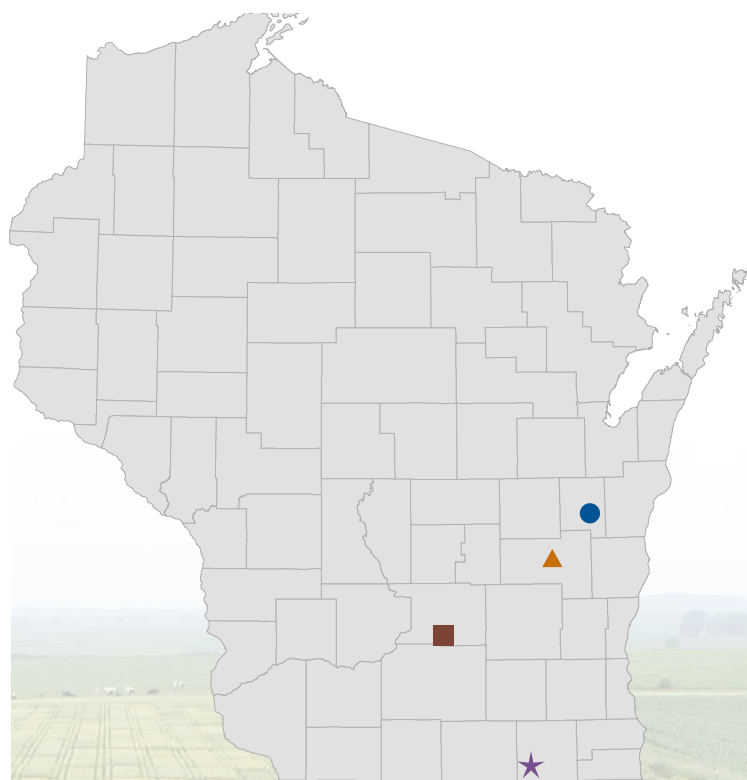


Wisconsin Winter Wheat Performance Trials 2016



Shawn Conley, Adam Roth, John Gaska and Damon Smith

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 Sharon. 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 75 lb N/a
Post-emergent herbicide: Huskie
Planted: September 25, 2015
Harvested: July 26, 2016

▲ Fond du Lac

Cooperator: Ed Montsma
Lomira silt loam
7.5 inch row spacing
Applied 55 lb N/a (nitrogen credited from previous legume)
Post-emergent herbicide: Huskie
Planted: October 5, 2015
Harvested: July 19, 2016

■ Arlington

Cooperator: Mike Bertram
Plano silt loam
7.5 inch row spacing
Applied 55 lb N/a (nitrogen credited from previous legume)
Post-emergent herbicide: Huskie
Planted: September 23, 2015
Harvested: July 18, 2016

★ Sharon

Cooperator: Mike Cerny
Plano silt loam
7.5 inch row spacing
Applied 55 lb N/a (nitrogen credited from previous legume)
Post-emergent herbicide: Huskie
Planted: October 13, 2015
Harvested: July 20, 2016

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2016 Year in Review

Acreage and Growing Conditions

Wisconsin saw a 26% increase in winter wheat acres planted (290,000) in the 2015-2016 growing season compared to the previous year; 265,000 acres are forecasted to be harvested, compared to 210,000 in 2015*. Despite poor establishment due to late planting and poor snow cover, winterkill was relatively isolated. The forecasted yield for the 2016 crop is 78 bu/a, up 4 bu/a from 2015. Wheat germinated late and had poor tiller development prior to winter dormancy. This led to some thin spring stands and weed control problems. Wheat broke dormancy in April and continued to progress one to two weeks ahead of 2015 through heading. Frequent rainfall events delayed or prohibited many operations to the wheat crop including spring nitrogen, herbicide and fungicide applications.

Overall, winter wheat yield and test weights were average in 2016. Wheat yields at the Arlington, Chilton, Fond du Lac and Sharon locations averaged 116, 120, 92, 106 bu/a, respectively. * Source: USDA National Agricultural Statistics Service (www.nass.usda.gov)

Diseases

Statewide, the major disease of winter wheat in 2016 was stripe rust caused by *Puccinia striiformis*. Stripe rust could be found in every field that was rated for disease. In the variety trials throughout the state, stripe rust hit some varieties very hard, causing significant damage and early defoliation. Varieties with genetic resistance to the disease performed well.

Unlike 2015, Fusarium head blight (FHB or scab) caused by *Fusarium graminearum* was relatively minimal in Wisconsin. In the southern and eastern wheat production areas of the state, low levels of FHB were identified, however, severity was minimal (less than 20%). This is likely due to the fact that the weather was very hot and mostly dry during the anthesis period in this part of the state. Further to the north and closer to Lake Michigan, somewhat higher levels of FHB were identified. Higher levels of FHB in this part of the state likely resulted from more favorable weather conditions for the FHB fungus during anthesis.

Septoria leaf blotch was present in low levels in some fields throughout the state. However, this disease was not yield-limiting in 2016. Powdery mildew was nearly non-existent in the state for the fourth season straight.

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 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 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 1.

Seedbed preparation: Conventional and no-till methods.

Seeding rate: 1.5 million 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.

Midseason

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

Harvest

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

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

Data Presentation

Yield: Listed in Tables 3-7. Data for both 2015 and 2016 are provided if the variety was entered in the 2015 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 either submitted by the listed company or by the testing program.

Testing Agencies

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

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. 2016 Company Information

Brand (Entrant)	Company Name	Phone	Website
AgriMAXX	AgriMAXX Wheat Company	(855) 629-9432	www.agrimaxxwheat.com
Beck's Hybrids	Beck's Hybrids	(800) 937-2325	www.beckshybrids.com
Diener	BioTown Seeds Inc.	(219) 984-6038	www.biotownseeds.com
DuPont Pioneer	DuPont Pioneer	(507) 625-3045	www.pioneer.com
Dyna-Gro	Dyna-Gro Seed	(608) 822-5000	www.dynagroseed.com
Equity Seed	Direct Enterprises	(317) 867-2238	www.go2dei.com
FS Seed	Growmark, Inc.	(309) 557-6399	www.fsseed.com/midwest
Jung	Jung Seed Genetics	(608) 330-2511	www.jungseedgenetics.com
Kratz Farms	Kratz Farms, LLP	(414) 507-4632	www.kratzfarms.com
L&M Brand	Ag Pro Enterprises, LLC	(920) 904-1758	
L-Brand (Ag Pro)	Ag Pro Enterprises, LLC	(920) 904-1758	www.limagraincereal-seeds.com
L-Brand (Van Treeck's)	Van Treeck's Seed Farm	(920) 467-2422	www.limagraincereal-seeds.com
L-Brand (Welter)	Welter Seed and Honey Company	(563) 485-2762	www.welterseed.com
Legacy	Legacy Seeds Inc.	(715) 467-2555	www.legacyseeds.com
PiP	Partners in Production	(608) 335-2112	www.pipseeds.com
Pro Seed Genetics	Pro Seed Genetics Cooperative	(920) 388-2824	
Public	WI Foundation Seeds	(608) 262-9954	www.wisconsinfoundationseeds.wisc.edu
Steyer	Steyer Seeds	(800) 231-4274	www.steyerseeds.com
Syngenta	Syngenta AgriPro	(765) 412-5420	www.agriprowheat.com
Van Treeck's	Van Treeck's Seed Farm	(920) 467-2422	
VCIA / VA Tech	Virginia Crop Improvement Association / VA Tech	(804) 746-4884	www.virginiacrop.org

Table 2. 2016 Entered Varieties and Seed Treatments

Brand (Entrant)	Variety	Seed Treatment(s)
AgriMAXX	413	Cruiser 5FS, Maxim, Vibrance Extreme
	438	Cruiser 5FS, Maxim, Vibrance Extreme
	444	Cruiser 5FS, Maxim, Vibrance Extreme
	454	Cruiser 5FS, Maxim, Vibrance Extreme
	463	Cruiser 5FS, Maxim, Vibrance Extreme
	464	Cruiser 5FS, Maxim, Vibrance Extreme
Beck's Hybrids	Beck 125	Escalate
	Beck 128	Escalate
Diener	D491W	Warden Cereals II, Nitroshield
	D496W	Warden Cereals II, Nitroshield
	D509W	Cruiser 5FS, Vibrance Extreme
	DXW1601	Cruiser 5FS, Vibrance Extreme
DuPont Pioneer	25R25	Gauche, Vibrance Extreme
	25R34	Gauche, Vibrance Extreme
	25R40	Gauche, Vibrance Extreme
	25R46	Gauche, Vibrance Extreme
	25R50	Gauche, Vibrance Extreme
Dyna-Gro	9522	Awaken ST, Foothold Extra
	9692	Awaken ST, Foothold Extra
	9772	Awaken ST, Foothold Extra
Equity Seed	Butler	Vibrance Extreme
	EXP DEI 16098	Vibrance Extreme
FS Seed	FS 602	CruiserMaxx Vibrance
	FS 615	CruiserMaxx Vibrance
	FS 622	CruiserMaxx Vibrance
	FS 624	CruiserMaxx Vibrance
	FS 625	CruiserMaxx Vibrance
	WX16A	CruiserMaxx Vibrance, thiabendazole
Jung	5850	CruiserMaxx Vibrance
	5855	CruiserMaxx Vibrance
	5888	CruiserMaxx Vibrance
	5930	CruiserMaxx Vibrance
Kratz Farms	KF 15144	Cruiser 5FS, Release, Vibrance Extreme
	KF 15188	Cruiser 5FS, Release, Vibrance Extreme
	KF 15241	Cruiser 5FS, Release, Vibrance Extreme
	KF 15314	Cruiser 5FS, Release, Vibrance Extreme
	KF 15334	Cruiser 5FS, Warden Cereals
	KF 15421	Cruiser 5FS, Release, Vibrance Extreme

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Table 2. 2016 Entered Varieties and Seed Treatments *continued from previous page*

Brand (Entrant)	Variety	Seed Treatment(s)
L&M Brand	2123	Cruiser 5FS, Vibrance Extreme, Sativa IM RTU, SabrEx
	4364	Vibrance Extreme, Nitroshield
	7511	Sativa IM RTU, SabrEx
L-Brand (Ag Pro)	L-203	Cruiser 5FS, Vibrance Extreme
	L-241	Sativa IM RTU, SabrEx
	L-304	CruiserMaxx, Warden Cereals HR
	L-401	Cruiser 5FS, Vibrance Extreme
	LCS News	CruiserMaxx, Warden Cereals HR
L-Brand (Van Treeck's)	L-203	Cruiser 5FS, Vibrance Extreme
	L-241	Gaucho, imidacloprid, SabrEx, Vibrance Extreme
L-Brand (Welter)	L-334	CruiserMaxx Vibrance, thiabendazole
Legacy	LW 1155	SabrEx, Sativa IM
	LW 1335	SabrEx, Sativa IM
	LW 1485	SabrEx, Sativa IM
	LW 1695	Cruiser 5FS, LSP, Vibrance Extreme
	LWX 1677	CruiserMaxx Vibrance
PiP	708	Charter, imidacloprid
	709	Charter, imidacloprid
	715	Charter, imidacloprid
	718	Charter, imidacloprid
	719	Charter, imidacloprid
	720	Charter, imidacloprid
	721	Charter, imidacloprid
	733	Charter, imidacloprid
	734	Charter, imidacloprid
	735	Charter, imidacloprid
	736	Charter, imidacloprid
	737	Charter, imidacloprid
	741	Charter, imidacloprid
	742	Charter, imidacloprid
	744	Charter, imidacloprid
	745	Charter, imidacloprid
	746	Charter, imidacloprid
	747	Charter, imidacloprid
	776	Charter, imidacloprid
	792	Charter, imidacloprid

Brand (Entrant)	Variety	Seed Treatment(s)
Pro Seed Genetics	PRO 200	Bio-Forge, imidacloprid, metalaxyl, tebuconazole
	PRO 240	Bio-Forge, imidacloprid, metalaxyl, tebuconazole
	PRO 260	Bio-Forge, imidacloprid, metalaxyl, tebuconazole
	PRO 320A	Cruiser 5FS, Release, Vibrance Extreme
	PRO 410	Bio-Forge, imidacloprid, metalaxyl, tebuconazole
	PRO 420	Bio-Forge, imidacloprid, metalaxyl, tebuconazole
	PRO Ex 380	Cruiser 5FS, Vibrance Extreme
Public	Erie	Vibrance Extreme
	Hopewell	Bio-Forge, imidacloprid, metalaxyl, tebuconazole
	Kaskaskia	Bio-Forge, imidacloprid, metalaxyl, tebuconazole
	Otsego	Vibrance Extreme, Raxil MD
	Red Devil Brand	Bio-Forge, imidacloprid, metalaxyl, tebuconazole
	Red Dragon Brand	Warden Cereals, LSP
	Sunburst	Bio-Forge, imidacloprid, metalaxyl, tebuconazole
Steyer	Whale	Warden Cereals, LSP
	Celina	Surestand
	Haubert	Surestand
	Heilman	Surestand
	Morrin	Surestand
Syngenta	SY 007	CruiserMaxx, Vibrance Extreme, Maxim
	SY 100	CruiserMaxx, Vibrance Extreme, Maxim
	SY 483	CruiserMaxx, Vibrance Extreme, Maxim
	SY 547	CruiserMaxx, Vibrance Extreme, Maxim
Van Treeck's	XL 007	CruiserMaxx Vibrance, SabrEx
VCIA / VA Tech	Hilliard	Foothold, Provoke ST, Storicide II
	VA 11W-106	Foothold, Provoke ST, Storicide II

Table 3. Combined 2016 Winter Wheat Performance Trial Results

Brand (Entrant)	Entry	2016 4-test average		■ Arlington		● Chilton		▲ Fond du Lac		★ Sharon		2015 4-test average
		Yield (bu/a)	Test wt. (lb/bu)	Yield (bu/a)	Test wt. (lb/bu)	Yield (bu/a)	Test wt. (lb/bu)	Yield (bu/a)	Test wt. (lb/bu)	Yield (bu/a)	Test wt. (lb/bu)	Yield (bu/a)
AgriMAXX	413	117	56.7	* 135	55.7	127	56.6	94	57.8	114	56.5	* 104
	438	115	55.6	* 130	54.8	126	55.7	95	57.3	110	54.9	102
	444	* 118	56.9	127	55.5	123	56.6	* 104	58.1	116	57.4	* 104
	454	100	55.3	99	53.3	113	54.9	* 97	57.9	90	55.2	--
	463	115	56.5	118	55.5	127	55.8	92	57.0	* 124	57.7	--
	464	111	56.4	116	54.8	130	57.1	93	57.2	105	56.4	--
Beck's Hybrids	Beck 125	112	58.9	114	57.1	133	58.8	90	60.1	112	59.5	--
	Beck 128	98	55.0	99	52.9	113	54.9	91	57.4	90	54.9	--
Diener	D491W	114	57.0	123	55.8	* 136	57.7	95	58.4	100	56.3	* 110
	D496W	114	56.3	115	54.8	130	56.7	89	56.5	* 120	57.0	99
	D509W	100	55.2	107	54.0	111	54.4	94	57.2	89	55.2	--
	DXW1601	* 119	58.2	122	56.6	132	58.4	* 97	58.5	* 125	59.1	--
DuPont Pioneer	25R25	* 118	56.2	124	54.6	* 136	57.1	* 99	57.8	112	55.5	102
	25R34	* 120	57.0	125	55.9	130	56.7	* 103	57.6	* 123	58.1	* 105
	25R40	* 126	58.8	* 136	57.8	* 144	59.2	* 99	59.2	* 122	59.1	* 104
	25R46	93	57.2	99	56.6	112	56.8	80	58.9	80	56.4	100
	25R50	* 119	57.2	124	56.2	* 138	58.1	* 100	58.5	111	56.0	102
Dyna-Gro	9522	* 118	56.9	126	55.6	127	56.2	* 100	58.1	* 119	57.8	* 110
	9692	98	55.0	100	53.4	111	54.2	90	57.2	91	55.1	--
	9772	109	56.1	115	55.1	124	55.3	93	57.6	104	56.5	--
Equity Seed	Butler	116	58.4	125	57.6	128	58.6	91	58.7	* 120	58.8	* 107
	EXP DEI 16098	109	57.0	124	57.0	121	57.8	85	56.8	106	56.4	--
FS Seed	FS 602	* 122	57.4	* 129	56.1	* 139	57.5	* 96	58.0	* 123	57.9	* 106
	FS 615	117	57.0	126	56.3	131	57.1	* 100	58.1	110	56.6	103
	FS 622	112	59.7	121	59.1	125	59.1	85	59.9	117	60.8	97
	FS 624	* 122	58.5	* 133	58.1	* 134	58.9	* 97	58.7	* 122	58.5	103
	FS 625	114	55.1	125	54.8	130	55.5	95	55.5	109	54.7	97
	WX16A	111	57.6	122	56.5	117	57.7	93	59.2	113	57.2	--
Jung	5850	106	56.4	121	57.1	107	56.0	93	56.8	104	55.7	101
	5855	* 120	58.4	* 131	57.1	* 135	59.2	91	58.9	* 122	58.4	96
	5888	* 120	58.5	127	56.6	132	59.4	95	58.8	* 126	59.3	* 110
	5930	89	55.7	102	56.6	89	55.3	90	57.6	76	53.4	* 105
Kratz Farms	KF 15144	105	57.1	112	56.2	116	56.6	91	58.7	100	57.1	103
	KF 15188	95	57.0	100	56.9	92	56.0	94	57.6	96	57.5	96
	KF 15241	95	57.4	101	56.2	103	57.2	87	58.6	91	57.7	* 107
	KF 15314	111	57.1	118	56.8	126	57.9	* 98	57.3	104	56.2	99
	KF 15334	108	58.5	118	57.5	116	58.8	92	59.2	106	58.4	--
	KF 15421	86	58.6	89	57.3	92	59.1	78	58.6	87	59.4	--

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

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Table 3. Combined 2016 Winter Wheat Performance Trial Results

continued from previous page

Brand (Entrant)	Entry	2016 4-test average		Arlington		Chilton		Fond du Lac		Sharon		2015 4-test average	
		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)	
L&M Brand	2123	111	57.4	122	56.6	123	57.3	* 99	58.9	101	56.7	* 106	
	4364	107	58.8	113	57.3	117	59.5	88	58.5	111	59.9	--	
	7511	* 121	57.0	* 134	55.3	* 138	57.6	94	57.5	* 119	57.4	102	
L-Brand (Ag Pro)	L-203	99	58.4	100	57.8	116	58.9	84	58.6	96	58.5	* 106	
	L-241	95	57.0	102	56.7	98	55.6	84	57.9	95	58.0	--	
	L-304	103	59.4	112	58.5	104	59.5	87	59.1	108	60.7	100	
	L-401	106	58.3	113	56.8	99	57.0	93	59.3	117	60.0	--	
	LCS News	110	56.9	116	57.5	124	57.0	90	57.4	109	55.9	--	
L-Brand	L-203	98	57.9	101	57.4	108	58.1	88	57.9	94	58.3	--	
(Van Treeck's)	L-241	96	57.3	106	56.2	101	57.1	85	58.4	94	57.7	101	
L-Brand (Welter)	L-334	109	58.5	115	57.5	120	59.1	93	58.9	108	58.7	102	
Legacy	LW 1155	* 120	57.4	* 130	55.8	* 135	57.9	93	58.1	* 122	57.7	* 104	
	LW 1335	92	57.2	93	56.2	103	57.5	93	58.4	81	56.7	96	
	LW 1485	104	56.9	113	56.2	124	56.5	90	58.7	87	56.3	* 109	
	LW 1695	114	57.6	124	56.5	129	58.2	94	59.5	110	56.3	--	
	LWX 1677	106	58.5	111	57.7	114	58.9	94	58.4	105	59.0	--	
PiP	708	* 118	58.5	122	56.9	* 134	59.3	93	58.8	* 123	59.1	--	
	709	105	57.4	116	56.9	110	57.5	93	57.9	102	57.4	--	
	715	* 118	57.7	127	55.7	125	58.6	93	58.2	* 126	58.2	* 106	
	718	109	58.3	121	57.3	111	57.3	94	60.0	109	58.5	* 107	
	719	111	57.2	126	56.4	119	56.9	* 96	59.6	104	55.9	* 106	
	720	117	57.8	120	56.6	* 137	58.2	94	58.0	117	58.3	* 104	
	721	116	56.0	124	55.1	124	56.3	* 102	57.3	113	55.4	103	
	733	113	56.1	120	54.6	125	55.9	* 98	57.9	110	55.9	101	
	734	111	58.7	124	57.4	131	58.5	90	60.0	98	59.0	* 105	
	735	112	57.2	125	55.5	126	57.3	94	59.2	102	56.9	* 110	
	736	116	57.1	120	55.9	133	57.8	* 98	58.0	113	56.9	* 104	
	737	109	58.7	119	58.6	113	57.6	86	59.1	116	59.4	* 104	
	741	113	58.0	118	56.5	* 134	58.7	94	58.4	107	58.4	* 107	
	742	101	57.2	110	56.0	107	57.2	86	58.5	101	57.2	--	
	744	115	56.1	121	54.3	125	57.0	* 96	56.5	* 118	56.6	--	
	745	115	58.3	124	56.8	133	58.3	90	59.0	115	59.0	--	
	746	109	56.4	117	55.8	121	57.6	95	57.3	103	55.1	--	
	747	109	56.1	115	54.7	123	55.0	91	57.5	106	57.2	--	
	776	101	55.0	101	53.5	112	54.9	* 102	56.5	87	55.0	--	
	792	111	57.3	120	57.2	117	55.9	92	59.7	115	56.4	103	

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

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Table 3. Combined 2016 Winter Wheat Performance Trial Results

continued from previous page

Brand (Entrant)	Entry	2016 4-test average		Arlington		Chilton		Fond du Lac		Sharon		2015 4-test average
		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)
Pro Seed Genetics	PRO 200	85	57.9	87	56.5	94	58.1	83	58.2	78	58.7	93
	PRO 240	93	57.0	100	56.9	100	56.0	82	57.5	91	57.7	95
	PRO 260	111	57.2	120	57.0	125	57.7	85	57.2	115	56.7	101
	PRO 320A	105	57.0	115	55.4	109	56.7	86	58.2	112	57.9	* 104
	PRO 410	117	58.1	126	57.9	126	58.6	93	57.7	* 121	58.3	100
	PRO 420	88	57.7	94	56.9	97	58.6	86	58.3	76	57.1	94
	PRO Ex 380	109	60.3	117	60.2	116	60.3	87	59.2	117	61.5	102
Public	Erie	98	57.5	107	58.0	110	59.2	83	57.0	92	55.9	92
	Hopewell	98	57.4	105	57.2	107	56.8	87	58.4	95	57.1	89
	Kaskaskia	93	58.4	100	58.7	102	57.9	84	59.5	87	57.4	93
	Otsego	80	56.6	85	56.6	80	56.9	80	57.0	73	55.7	86
	Red Devil Brand	106	57.3	117	56.9	113	57.1	85	59.5	111	55.9	* 104
	Red Dragon Brand	106	56.9	115	56.1	114	56.6	88	57.4	106	57.4	95
	Sunburst	108	59.9	118	58.8	114	60.2	91	60.8	107	60.0	99
Whale	* 121	58.3	128	56.9	131	59.0	* 100	57.9	* 126	59.4	--	
Steyer	Celina	98	57.0	102	56.6	107	56.9	* 96	57.4	88	57.0	--
	Haubert	97	54.7	99	52.4	110	54.5	92	57.1	86	54.7	--
	Heilman	103	56.8	108	55.7	114	56.9	87	57.2	104	57.4	--
	Morrin	* 118	58.4	127	56.8	128	59.0	93	58.8	* 125	59.2	--
Syngenta	SY 007	112	57.2	118	56.5	119	57.2	* 97	57.7	112	57.5	* 105
	SY 100	* 120	55.2	127	54.6	* 134	55.4	* 102	56.1	115	54.7	--
	SY 483	116	57.8	122	56.7	128	58.1	* 97	57.9	117	58.8	* 104
	SY 547	112	58.3	120	57.8	126	58.4	* 96	58.9	108	58.3	* 109
Van Treeck's	XL 007	* 118	57.2	124	55.5	129	57.6	* 99	58.2	* 120	57.6	--
VCIA / VA Tech	Hilliard	116	58.4	127	57.9	130	57.7	91	59.1	117	59.1	103
	VA 11W-106	117	58.6	128	57.4	124	58.5	95	59.2	* 120	59.3	* 104
Mean		109	57.3	116	56.4	120	57.4	92	58.2	106	57.4	101
LSD (.10)		8	0.9	7	0.9	10	1.3	8	1.0	8	0.7	6

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

Table 4. Arlington 2016 Winter Wheat Performance Trial Results

Brand (Entrant)	Entry	2016 means								2015 means	
		Yield (bu/a)	Test wt. (lb/bu)	Height (in.)	Lodging (1-5)	Stripe rust I% ¹	S% ²	FHB ³ I% ¹	S% ²	Yield (bu/a)	Test wt. (lb/bu)
AgriMAXX	413	* 135	55.7	37	1.0	2	8	1	22	110	59.7
	438	* 130	54.8	41	1.0	50	4	2	26	104	57.7
	444	127	55.5	38	1.0	1	11	1	13	* 115	61.1
	454	99	53.3	37	1.0	100	66	1	5	--	--
	463	118	55.5	38	1.0	15	10	1	1	--	--
	464	116	54.8	39	1.0	100	26	1	4	--	--
Beck's Hybrids	Beck 125	114	57.1	38	1.0	100	25	1	1	--	--
	Beck 128	99	52.9	40	1.0	100	75	1	2	--	--
Diener	D491W	123	55.8	37	1.0	100	39	2	30	* 118	61.1
	D496W	115	54.8	36	1.0	11	8	1	1	108	59.5
	D509W	107	54.0	38	1.0	100	53	1	1	--	--
	DXW1601	122	56.6	37	1.0	1	5	1	2	--	--
DuPont Pioneer	25R25	124	54.6	36	1.0	14	12	1	1	102	58.9
	25R34	125	55.9	39	1.0	8	8	1	16	106	59.3
	25R40	* 136	57.8	35	1.0	31	4	2	44	107	60.2
	25R46	99	56.6	38	1.0	100	60	1	3	107	61.3
	25R50	124	56.2	36	1.0	7	11	1	22	108	60.3
Dyna-Gro	9522	126	55.6	38	1.0	3	13	1	20	* 113	60.0
	9692	100	53.4	38	1.0	100	69	1	1	--	--
	9772	115	55.1	39	1.0	78	20	1	20	--	--
Equity Seed	Butler	125	57.6	40	1.0	5	30	1	7	* 117	61.5
	EXP DEI 16098	124	57.0	42	1.3	61	16	2	24	--	--
FS Seed	FS 602	* 129	56.1	37	1.0	1	8	1	37	110	60.5
	FS 615	126	56.3	38	1.0	6	6	1	7	102	59.5
	FS 622	121	59.1	36	1.0	3	20	1	17	106	62.5
	FS 624	* 133	58.1	37	1.0	1	6	2	22	104	61.1
	FS 625	125	54.8	39	1.0	9	13	1	31	102	56.8
	WX16A	122	56.5	40	1.0	73	15	1	1	--	--
Jung	5850	121	57.1	42	1.5	36	9	2	21	103	59.2
	5855	* 131	57.1	40	1.0	3	11	1	6	101	58.1
	5888	127	56.6	39	1.0	7	16	1	8	* 116	59.9
	5930	102	56.6	42	1.0	100	64	1	1	107	60.6
Kratz Farms	KF 15144	112	56.2	39	1.0	100	50	3	27	* 112	60.5
	KF 15188	100	56.9	42	2.0	100	53	1	34	101	59.8
	KF 15241	101	56.2	41	1.5	100	55	1	5	* 115	61.3
	KF 15314	118	56.8	41	1.0	100	29	1	27	108	60.8
	KF 15334	118	57.5	42	2.3	34	18	1	1	--	--
	KF 15421	89	57.3	44	1.8	100	39	5	16	--	--

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

¹ % incidence ² % severity ³ Fusarium head blight

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Table 4. Arlington 2016 Winter Wheat Performance Trial Results

continued from previous page

		2016 means								2015 means	
Brand (Entrant)	Entry	Yield (bu/a)	Test wt. (lb/bu)	Height (in.)	Lodging (1-5)	Stripe rust I% ¹ S% ²		FHB ³ I% ¹ S% ²		Yield (bu/a)	Test wt. (lb/bu)
L&M Brand	2123	122	56.6	37	1.0	100	45	1	16	108	61.1
	4364	113	57.3	39	1.0	65	19	2	2	--	--
	7511	* 134	55.3	36	1.0	1	1	1	17	107	60.3
L-Brand (Ag Pro)	L-203	100	57.8	39	1.0	100	34	5	13	109	62.1
	L-241	102	56.7	42	2.0	100	53	3	6	--	--
	L-304	112	58.5	45	1.8	13	13	1	9	104	62.4
	L-401	113	56.8	45	1.3	1	5	1	1	--	--
	LCS News	116	57.5	39	2.0	61	38	1	32	--	--
L-Brand (Van Treeck's)	L-203	101	57.4	39	1.0	100	36	16	11	--	--
	L-241	106	56.2	41	1.3	100	43	2	4	105	60.8
L-Brand (Welter)	L-334	115	57.5	41	2.0	59	9	1	1	* 113	61.4
Legacy	LW 1155	* 130	55.8	36	1.0	25	2	1	16	107	60.0
	LW 1335	93	56.2	41	1.5	100	58	2	45	101	61.1
	LW 1485	113	56.2	36	1.0	100	58	1	24	* 116	60.8
	LW 1695	124	56.5	41	1.0	58	11	1	23	--	--
	LWX 1677	111	57.7	42	1.5	85	33	3	41	--	--
PiP	708	122	56.9	39	1.0	4	23	1	8	--	--
	709	116	56.9	41	1.3	100	24	1	11	--	--
	715	127	55.7	39	1.0	1	3	1	1	111	62.0
	718	121	57.3	40	1.0	100	9	0	0	* 116	61.7
	719	126	56.4	41	1.0	65	9	1	1	* 112	61.0
	720	120	56.6	38	1.0	19	19	3	41	* 115	60.7
	721	124	55.1	39	1.0	32	5	1	9	105	58.6
	733	120	54.6	37	1.3	7	15	3	33	106	59.3
	734	124	57.4	39	1.0	73	24	1	9	* 115	62.7
	735	125	55.5	38	1.0	100	58	1	36	* 119	60.6
	736	120	55.9	37	1.0	27	9	1	18	103	58.7
	737	119	58.6	40	1.0	74	18	1	1	* 119	62.6
	741	118	56.5	36	1.0	88	29	1	3	110	60.4
	742	110	56.0	37	1.0	100	28	1	7	--	--
	744	121	54.3	37	1.0	0	0	8	1	--	--
	745	124	56.8	37	1.0	1	4	1	1	--	--
	746	117	55.8	35	1.0	89	19	1	1	--	--
	747	115	54.7	39	1.0	88	18	1	1	--	--
	776	101	53.5	38	1.0	100	56	1	1	--	--
	792	120	57.2	39	1.0	20	26	2	45	111	61.2

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

¹ % incidence ² % severity ³ Fusarium head blight

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Table 4. Arlington 2016 Winter Wheat Performance Trial Results

continued from previous page

		2016 means								2015 means	
Brand (Entrant)	Entry	Yield (bu/a)	Test wt. (lb/bu)	Height (in.)	Lodging (1-5)	Stripe rust I% ¹ S% ²	FHB ³ I% ¹ S% ²	Yield (bu/a)	Test wt. (lb/bu)		
Pro Seed Genetics	PRO 200	87	56.5	44	2.8	100 53	1 1	97	61.2		
	PRO 240	100	56.9	46	1.5	100 44	7 29	92	58.7		
	PRO 260	120	57.0	41	1.0	88 13	2 41	* 118	60.0		
	PRO 320A	115	55.4	43	1.0	54 11	1 3	* 116	60.7		
	PRO 410	126	57.9	39	1.0	2 9	2 25	* 112	61.8		
	PRO 420	94	56.9	46	1.5	100 54	1 24	88	60.2		
	PRO Ex 380	117	60.2	40	1.0	28 23	2 7	* 112	62.6		
Public	Erie	107	58.0	39	1.0	88 9	1 1	96	60.4		
	Hopewell	105	57.2	41	1.0	85 19	1 9	94	59.6		
	Kaskaskia	100	58.7	45	1.0	100 59	3 49	100	61.9		
	Otsego	85	56.6	43	1.5	100 34	24 7	83	56.8		
	Red Devil Brand	117	56.9	39	1.0	29 18	1 29	110	61.0		
	Red Dragon Brand	115	56.1	44	1.0	100 25	2 34	98	58.8		
	Sunburst	118	58.8	36	1.0	55 23	1 22	109	63.2		
	Whale	128	56.9	39	1.0	13 19	1 10	--	--		
Steyer	Celina	102	56.6	43	1.0	100 36	1 28	--	--		
	Haubert	99	52.4	38	1.3	100 66	1 1	--	--		
	Heilman	108	55.7	43	1.0	100 33	1 48	--	--		
	Morrin	127	56.8	39	1.0	18 19	1 16	--	--		
Syngenta	SY 007	118	56.5	40	1.0	3 5	1 11	111	61.3		
	SY 100	127	54.6	37	1.0	0 0	1 12	--	--		
	SY 483	122	56.7	38	1.0	3 4	1 1	106	58.2		
	SY 547	120	57.8	41	1.3	49 15	1 18	* 116	62.1		
Van Treeck's	XL 007	124	55.5	37	1.0	26 7	1 3	--	--		
VCIA / VA Tech	Hilliard	127	57.9	39	1.0	25 3	1 14	* 113	59.9		
	VA 11W-106	128	57.4	37	1.8	3 2	1 6	111	62.1		
Mean		116	56.4	39	1.1	55 24	2 15	107	60.4		
LSD (.10)		7	0.9	2	0.4	25 14	6 23	8	1.2		

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

¹ % incidence ² % severity ³ Fusarium head blight

Table 5. Chilton 2016 Winter Wheat Performance Trial Results

Brand (Entrant)	Entry	2016 means								2015 means	
		Yield (bu/a)	Test wt. (lb/bu)	Height (in.)	Lodging (1-5)	Stripe rust I% ¹	S% ²	FHB ³ I% ¹	S% ²	Yield (bu/a)	Test wt. (lb/bu)
AgriMAXX	413	127	56.6	37	3.3	1	1	1	1	* 119	61.1
	438	126	55.7	38	3.8	2	3	1	22	111	56.4
	444	123	56.6	38	3.3	2	3	1	8	115	59.9
	454	113	54.9	39	3.0	100	45	1	21	--	--
	463	127	55.8	38	3.5	2	1	1	1	--	--
	464	130	57.1	40	2.8	89	21	1	8	--	--
Beck's Hybrids	Beck 125	133	58.8	39	2.8	41	10	1	1	--	--
	Beck 128	113	54.9	39	3.0	100	39	1	1	--	--
Diener	D491W	* 136	57.7	37	2.5	100	28	0	0	* 124	62.1
	D496W	130	56.7	36	3.0	3	4	0	0	107	59.7
	D509W	111	54.4	39	3.0	100	43	0	0	--	--
	DXW1601	132	58.4	36	3.5	1	1	1	1	--	--
DuPont Pioneer	25R25	* 136	57.1	37	2.8	25	8	1	1	109	57.6
	25R34	130	56.7	38	3.8	2	2	1	1	* 120	61.0
	25R40	* 144	59.2	34	2.8	1	2	1	1	* 119	61.5
	25R46	112	56.8	37	2.8	100	59	1	1	113	61.5
	25R50	* 138	58.1	35	2.0	9	5	1	1	116	61.2
Dyna-Gro	9522	127	56.2	38	3.0	3	1	1	1	117	59.6
	9692	111	54.2	39	3.0	100	33	1	2	--	--
	9772	124	55.3	39	3.0	95	24	1	1	--	--
Equity Seed	Butler	128	58.6	40	1.5	2	2	2	22	* 124	60.7
	EXP DEI 16098	121	57.8	41	3.0	95	20	1	16	--	--
FS Seed	FS 602	* 139	57.5	36	3.5	1	3	1	1	113	60.7
	FS 615	131	57.1	37	3.0	3	6	1	1	114	60.1
	FS 622	125	59.1	38	3.0	3	4	1	16	104	60.9
	FS 624	* 134	58.9	37	2.0	1	1	1	22	111	60.9
	FS 625	130	55.5	38	3.4	4	7	1	1	106	55.9
	WX16A	117	57.7	39	3.8	36	16	1	1	--	--
Jung	5850	107	56.0	41	3.5	100	21	1	1	* 121	59.5
	5855	* 135	59.2	40	1.8	9	12	1	23	104	57.9
	5888	132	59.4	40	2.0	2	4	1	10	* 125	62.0
	5930	89	55.3	41	3.3	100	49	10	21	* 123	60.0
Kratz Farms	KF 15144	116	56.6	41	3.0	90	40	1	7	111	59.9
	KF 15188	92	56.0	42	3.8	100	53	2	21	104	59.1
	KF 15241	103	57.2	40	4.5	100	34	1	11	112	61.4
	KF 15314	126	57.9	41	3.0	100	25	1	8	103	58.7
	KF 15334	116	58.8	41	4.5	10	3	1	1	--	--
	KF 15421	92	59.1	39	3.3	100	46	1	7	--	--

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

¹ % incidence ² % severity ³ Fusarium head blight

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Table 5. Chilton 2016 Winter Wheat Performance Trial Results

continued from previous page

Brand (Entrant)	Entry	2016 means								2015 means	
		Yield (bu/a)	Test wt. (lb/bu)	Height (in.)	Lodging (1-5)	Stripe rust I% ¹	S% ²	FHB ³ I% ¹	S% ²	Yield (bu/a)	Test wt. (lb/bu)
L&M Brand	2123	123	57.3	37	2.8	100	44	1	1	* 120	61.2
	4364	117	59.5	40	2.8	76	25	1	1	--	--
	7511	* 138	57.6	36	2.0	2	4	1	8	112	59.7
L-Brand (Ag Pro)	L-203	116	58.9	39	4.5	95	19	7	7	116	61.9
	L-241	98	55.6	40	4.0	100	61	1	6	--	--
	L-304	104	59.5	43	4.5	60	23	1	1	112	62.1
	L-401	99	57.0	42	3.8	1	1	1	1	--	--
	LCS News	124	57.0	38	4.3	88	22	1	4	--	--
L-Brand (Van Treeck's)	L-203	108	58.1	37	4.3	98	28	2	6	--	--
	L-241	101	57.1	41	4.3	100	26	1	1	108	60.4
L-Brand (Welter)	L-334	120	59.1	39	3.8	13	10	1	1	110	59.4
Legacy	LW 1155	* 135	57.9	36	2.5	0	0	1	1	114	59.7
	LW 1335	103	57.5	41	4.0	100	44	1	1	102	59.8
	LW 1485	124	56.5	35	2.3	100	35	1	1	* 120	60.7
	LW 1695	129	58.2	39	3.0	38	11	1	1	--	--
	LWX 1677	114	58.9	39	3.3	100	34	1	16	--	--
PiP	708	* 134	59.3	40	1.3	5	8	1	16	--	--
	709	110	57.5	41	3.5	100	36	1	1	--	--
	715	125	58.6	39	4.5	0	0	1	2	* 119	61.4
	718	111	57.3	39	4.0	44	8	1	1	117	63.0
	719	119	56.9	40	4.0	8	7	1	1	112	60.8
	720	* 137	58.2	38	3.0	7	11	2	36	* 122	59.7
	721	124	56.3	39	4.1	1	1	1	21	112	56.1
	733	125	55.9	37	5.0	4	5	1	1	106	57.6
	734	131	58.5	37	2.3	85	16	1	1	117	60.7
	735	126	57.3	36	2.3	100	43	2	40	* 125	61.0
	736	133	57.8	37	2.5	3	8	2	12	* 118	59.7
	737	113	57.6	39	4.3	31	9	1	1	104	60.6
	741	* 134	58.7	35	1.8	79	12	1	3	* 118	61.2
	742	107	57.2	37	4.0	98	29	1	1	--	--
	744	125	57.0	38	3.5	0	0	1	1	--	--
	745	133	58.3	35	3.3	3	1	2	21	--	--
	746	121	57.6	36	3.8	35	15	1	21	--	--
	747	123	55.0	40	3.5	69	15	1	8	--	--
	776	112	54.9	38	2.5	100	30	2	14	--	--
	792	117	55.9	39	2.8	9	8	1	6	112	61.1

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

¹ % incidence ² % severity ³ Fusarium head blight

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**Table 5. Chilton 2016 Winter Wheat Performance Trial Results***continued from previous page*

Brand (Entrant)	Entry	2016 means								2015 means	
		Yield (bu/a)	Test wt. (lb/bu)	Height (in.)	Lodging (1-5)	Stripe rust I% ¹	S% ²	FHB ³ I% ¹	S% ²	Yield (bu/a)	Test wt. (lb/bu)
Pro Seed Genetics	PRO 200	94	58.1	43	4.3	100	35	2	19	102	60.9
	PRO 240	100	56.0	46	4.0	100	35	3	16	109	61.1
	PRO 260	125	57.7	39	4.0	7	3	2	15	105	56.2
	PRO 320A	109	56.7	43	3.8	40	11	1	1	112	60.4
	PRO 410	126	58.6	39	3.8	0	0	1	7	106	60.3
	PRO 420	97	58.6	42	2.5	98	33	1	4	105	61.0
	PRO Ex 380	116	60.3	39	5.0	7	9	1	7	* 122	62.8
Public	Erie	110	59.2	39	2.5	91	19	1	7	109	57.9
	Hopewell	107	56.8	41	4.5	56	13	3	14	95	59.1
	Kaskaskia	102	57.9	45	4.0	100	53	1	5	101	60.9
	Otsego	80	56.9	42	3.8	100	69	1	16	84	55.0
	Red Devil Brand	113	57.1	40	3.0	25	16	2	28	110	60.1
	Red Dragon Brand	114	56.6	43	3.8	95	23	1	11	105	58.5
	Sunburst	114	60.2	35	3.8	53	20	0	0	110	62.6
	Whale	131	59.0	39	2.3	4	4	1	7	--	--
Steyer	Celina	107	56.9	39	3.8	100	31	1	7	--	--
	Haubert	110	54.5	38	2.8	98	41	1	1	--	--
	Heilman	114	56.9	43	3.3	100	23	2	56	--	--
	Morrin	128	59.0	40	1.8	8	9	1	8	--	--
Syngenta	SY 007	119	57.2	38	3.0	1	1	1	16	110	60.1
	SY 100	* 134	55.4	37	3.8	1	1	1	29	--	--
	SY 483	128	58.1	40	3.5	1	1	1	8	* 120	59.4
	SY 547	126	58.4	40	3.0	83	14	2	21	* 124	60.5
Van Treeck's	XL 007	129	57.6	37	2.8	2	5	1	7	--	--
VCIA / VA Tech	Hilliard	130	57.7	38	2.3	1	1	1	6	115	60.0
	VA 11W-106	124	58.5	37	4.0	0	0	1	1	117	62.5
Mean		120	57.4	39	3.3	48	18	1	8	112	59.9
LSD (.10)		10	1.3	2	0.9	22	15	9	18	7	1.6

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

¹ % incidence ² % severity ³ Fusarium head blight



Table 6. Fond du Lac 2016 Winter Wheat Performance Trial Results

Brand (Entrant)	Entry	2016 means								2015 means	
		Yield (bu/a)	Test wt. (lb/bu)	Height (in.)	Lodging (1-5)	Stripe rust I% ¹	S% ²	FHB ³ I% ¹	S% ²	Yield (bu/a)	Test wt. (lb/bu)
AgriMAXX	413	94	57.8	31	1.0	1	1	1	1	98	58.9
	438	95	57.3	34	1.0	0	0	1	15	98	57.2
	444	* 104	58.1	32	1.0	0	0	2	9	103	59.2
	454	* 97	57.9	32	1.0	36	7	1	1	--	--
	463	92	57.0	30	1.0	0	0	1	1	--	--
	464	93	57.2	34	1.0	2	2	1	1	--	--
Beck's Hybrids	Beck 125	90	60.1	34	1.0	16	3	2	8	--	--
	Beck 128	91	57.4	32	1.0	25	5	1	2	--	--
Diener	D491W	95	58.4	30	1.0	55	7	1	4	* 104	59.3
	D496W	89	56.5	30	1.0	1	1	1	2	86	57.9
	D509W	94	57.2	32	1.0	66	9	1	1	--	--
	DXW1601	* 97	58.5	31	1.0	36	6	1	1	--	--
DuPont Pioneer	25R25	* 99	57.8	33	1.0	13	1	2	3	* 106	57.5
	25R34	* 103	57.6	34	1.0	1	1	2	7	102	57.3
	25R40	* 99	59.2	30	1.0	3	3	3	8	98	60.3
	25R46	80	58.9	32	1.0	75	16	1	1	91	59.3
	25R50	* 100	58.5	32	1.0	2	2	1	1	100	60.2
Dyna-Gro	9522	* 100	58.1	32	1.0	2	2	2	13	* 112	59.7
	9692	90	57.2	33	1.0	43	6	1	1	--	--
	9772	93	57.6	33	1.0	6	4	1	1	--	--
Equity Seed	Butler	91	58.7	33	1.0	2	2	1	37	* 106	59.9
	EXP DEI 16098	85	56.8	35	1.0	13	7	3	21	--	--
FS Seed	FS 602	* 96	58.0	31	1.0	2	2	1	4	* 104	60.5
	FS 615	* 100	58.1	32	1.0	3	2	1	9	* 105	58.9
	FS 622	85	59.9	31	1.0	4	4	1	11	90	61.6
	FS 624	* 97	58.7	34	1.0	0	0	2	25	* 104	60.9
	FS 625	95	55.5	33	1.0	17	2	5	8	94	56.2
	WX16A	93	59.2	33	1.0	1	1	1	1	--	--
Jung	5850	93	56.8	35	1.0	30	4	8	20	94	58.0
	5855	91	58.9	34	1.0	0	0	3	9	92	59.0
	5888	95	58.8	34	1.0	1	3	3	23	* 107	60.6
	5930	90	57.6	37	1.0	78	13	1	3	102	60.9
Kratz Farms	KF 15144	91	58.7	35	1.0	53	11	6	11	94	57.9
	KF 15188	94	57.6	37	1.0	70	22	2	28	91	58.9
	KF 15241	87	58.6	35	1.0	69	7	1	3	* 105	61.0
	KF 15314	* 98	57.3	36	1.0	11	5	4	43	101	58.5
	KF 15334	92	59.2	35	1.0	7	4	1	8	--	--
	KF 15421	78	58.6	36	1.0	43	11	1	8	--	--

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

¹ % incidence ² % severity ³ Fusarium head blight

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Table 6. Fond du Lac 2016 Winter Wheat Performance Trial Results

continued from previous page

Brand (Entrant)	Entry	2016 means								2015 means	
		Yield (bu/a)	Test wt. (lb/bu)	Height (in.)	Lodging (1-5)	Stripe rust I% ¹	S% ²	FHB ³ I% ¹	S% ²	Yield (bu/a)	Test wt. (lb/bu)
L&M Brand	2123	* 99	58.9	31	1.0	85	8	1	13	* 105	58.8
	4364	88	58.5	35	1.0	29	3	1	3	--	--
	7511	94	57.5	32	1.0	1	1	1	1	102	59.6
L-Brand (Ag Pro)	L-203	84	58.6	33	1.0	39	6	2	25	101	61.4
	L-241	84	57.9	34	1.0	48	7	1	1	--	--
	L-304	87	59.1	35	1.0	17	1	1	1	93	61.7
	L-401	93	59.3	37	1.0	3	1	2	24	--	--
	LCS News	90	57.4	30	1.0	10	6	2	36	--	--
L-Brand (Van Treeck's)	L-203	88	57.9	32	1.0	31	9	2	11	--	--
	L-241	85	58.4	35	1.0	74	6	1	13	99	59.1
L-Brand (Welter)	L-334	93	58.9	34	1.0	4	3	1	1	101	61.0
Legacy	LW 1155	93	58.1	30	1.0	3	3	1	5	* 104	60.0
	LW 1335	93	58.4	34	1.0	46	9	1	19	93	61.2
	LW 1485	90	58.7	31	1.0	83	5	1	28	* 108	60.2
	LW 1695	94	59.5	33	1.0	45	2	1	1	--	--
	LWX 1677	94	58.4	33	1.0	40	14	2	18	--	--
PiP	708	93	58.8	34	1.0	2	3	2	24	--	--
	709	93	57.9	36	1.0	53	7	1	2	--	--
	715	93	58.2	35	1.0	26	2	2	10	* 104	60.4
	718	94	60.0	33	1.0	5	3	1	1	* 106	62.6
	719	* 96	59.6	35	1.0	26	2	0	0	* 105	60.8
	720	94	58.0	32	1.0	1	5	4	28	91	59.2
	721	* 102	57.3	34	1.0	1	1	2	20	103	58.0
	733	* 98	57.9	32	1.0	1	1	1	23	94	59.5
	734	90	60.0	34	1.0	5	5	1	14	97	60.2
	735	94	59.2	31	1.0	36	4	1	1	101	58.9
	736	* 98	58.0	33	1.0	1	1	1	8	* 106	58.6
	737	86	59.1	32	1.0	30	2	1	2	101	61.1
	741	94	58.4	30	1.0	6	2	1	3	102	60.2
	742	86	58.5	31	1.0	6	3	1	3	--	--
	744	* 96	56.5	32	1.0	1	1	1	5	--	--
	745	90	59.0	31	1.0	8	3	1	1	--	--
	746	95	57.3	31	1.0	63	5	1	1	--	--
	747	91	57.5	33	1.0	5	2	1	8	--	--
	776	* 102	56.5	34	1.0	51	14	1	6	--	--
	792	92	59.7	36	1.0	1	1	3	24	98	59.6

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

¹ % incidence ² % severity ³ Fusarium head blight

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Table 6. Fond du Lac 2016 Winter Wheat Performance Trial Results

continued from previous page

Brand (Entrant)	Entry	2016 means								2015 means	
		Yield (bu/a)	Test wt. (lb/bu)	Height (in.)	Lodging (1-5)	Stripe rust		FHB ³		Yield (bu/a)	Test wt. (lb/bu)
Pro Seed Genetics	PRO 200	83	58.2	37	1.0	58	9	1	16	91	61.1
	PRO 240	82	57.5	39	1.0	30	10	3	14	91	60.1
	PRO 260	85	57.2	31	1.0	5	3	2	15	90	57.3
	PRO 320A	86	58.2	38	1.0	14	8	1	19	96	59.3
	PRO 410	93	57.7	33	1.0	0	0	1	12	97	59.3
	PRO 420	86	58.3	37	1.0	80	9	2	4	95	62.6
	PRO Ex 380	87	59.2	32	1.0	2	2	2	25	85	60.7
Public	Erie	83	57.0	35	1.0	21	6	2	7	88	59.0
	Hopewell	87	58.4	34	1.0	3	3	5	21	86	59.2
	Kaskaskia	84	59.5	38	1.0	58	7	10	18	89	59.6
	Otsego	80	57.0	37	1.0	98	23	4	9	91	57.9
	Red Devil Brand	85	59.5	33	1.0	3	3	2	25	99	60.8
	Red Dragon Brand	88	57.4	37	1.0	28	7	3	28	92	59.3
	Sunburst	91	60.8	30	1.0	14	7	1	5	93	62.0
	Whale	* 100	57.9	35	1.0	1	3	3	13	--	--
Steyer	Celina	* 96	57.4	37	1.0	65	7	2	26	--	--
	Haubert	92	57.1	34	1.0	51	11	1	2	--	--
	Heilman	87	57.2	36	1.0	36	6	2	35	--	--
	Morrin	93	58.8	35	1.0	1	2	2	24	--	--
Syngenta	SY 007	* 97	57.7	35	1.0	1	1	1	13	103	60.1
	SY 100	* 102	56.1	32	1.0	20	1	2	9	--	--
	SY 483	* 97	57.9	34	1.0	1	1	2	13	* 104	58.5
	SY 547	* 96	58.9	35	1.0	3	3	1	11	* 105	60.6
Van Treeck's	XL 007	* 99	58.2	33	1.0	3	1	2	14	--	--
VCIA / VA Tech	Hilliard	91	59.1	32	1.0	27	2	1	25	99	59.8
	VA 11W-106	95	59.2	33	1.0	26	1	3	13	99	59.9
Mean		92	58.2	33	1.0	23	5	2	11	98	59.6
LSD (.10)		8	1.0	2	NS	26	6	1	13	8	1.8

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

¹ % incidence ² % severity ³ Fusarium head blight

**Table 7. Sharon 2016 Winter Wheat Performance Trial Results**

Brand (Entrant)	Entry	2016 means								2015 means	
		Yield (bu/a)	Test wt. (lb/bu)	Height (in.)	Lodging (1-5)	Stripe rust I% ¹	S% ²	FHB ³ I% ¹	S% ²	Yield (bu/a)	Test wt. (lb/bu)
AgriMAXX	413	114	56.5	34	1.0	1	1	1	1	87	57.0
	438	110	54.9	37	1.0	1	1	2	11	* 93	55.4
	444	116	57.4	36	1.0	2	9	1	5	84	57.0
	454	90	55.2	38	1.0	100	60	1	19	--	--
	463	* 124	57.7	35	1.0	1	9	1	1	--	--
	464	105	56.4	36	1.0	63	20	4	9	--	--
Beck's Hybrids	Beck 125	112	59.5	35	1.0	55	14	1	4	--	--
	Beck 128	90	54.9	38	1.0	100	48	5	5	--	--
Diener	D491W	100	56.3	35	1.0	100	43	2	17	* 91	56.9
	D496W	* 120	57.0	34	1.0	1	5	1	3	* 91	57.7
	D509W	89	55.2	37	1.0	81	51	5	8	--	--
	DXW1601	* 125	59.1	35	1.0	1	3	1	3	--	--
DuPont Pioneer	25R25	112	55.5	35	1.0	11	8	2	3	* 93	55.3
	25R34	* 123	58.1	38	1.0	16	7	1	1	90	57.0
	25R40	* 122	59.1	31	1.0	1	2	3	16	* 91	57.4
	25R46	80	56.4	34	1.0	100	69	1	3	88	58.3
	25R50	111	56.0	34	1.0	30	14	1	1	82	55.8
Dyna-Gro	9522	* 119	57.8	36	1.0	1	8	6	18	* 96	57.1
	9692	91	55.1	37	1.0	100	50	4	6	--	--
	9772	104	56.5	38	1.0	71	29	5	6	--	--
Equity Seed	Butler	* 120	58.8	37	1.0	6	26	1	17	81	55.0
	EXP DEI 16098	106	56.4	40	1.0	86	39	2	36	--	--
FS Seed	FS 602	* 123	57.9	34	1.0	1	1	2	2	* 94	57.6
	FS 615	110	56.6	35	1.0	1	14	1	3	89	57.4
	FS 622	117	60.8	35	1.0	3	30	1	8	85	58.1
	FS 624	* 122	58.5	37	1.0	1	6	2	49	* 92	59.1
	FS 625	109	54.7	35	1.0	11	16	6	29	84	55.8
	WX16A	113	57.2	38	1.0	20	5	1	15	--	--
Jung	5850	104	55.7	39	1.0	78	24	1	18	85	55.0
	5855	* 122	58.4	38	1.0	7	21	1	8	86	57.0
	5888	* 126	59.3	37	1.0	13	16	1	3	90	56.4
	5930	76	53.4	37	1.0	99	65	1	6	88	57.6
Kratz Farms	KF 15144	100	57.1	37	1.0	88	59	3	20	* 92	58.2
	KF 15188	96	57.5	42	1.0	100	71	1	12	87	57.6
	KF 15241	91	57.7	40	1.0	100	45	2	15	* 95	59.5
	KF 15314	104	56.2	39	1.0	71	29	2	66	86	57.0
	KF 15334	106	58.4	40	1.0	23	20	1	16	--	--
	KF 15421	87	59.4	41	1.0	48	16	16	5	--	--

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

¹ % incidence ² % severity ³ Fusarium head blight

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**Table 7. Sharon 2016 Winter Wheat Performance Trial Results***continued from previous page*

Brand (Entrant)	Entry	2016 means								2015 means	
		Yield (bu/a)	Test wt. (lb/bu)	Height (in.)	Lodging (1-5)	Stripe rust I% ¹	S% ²	FHB ³ I% ¹	S% ²	Yield (bu/a)	Test wt. (lb/bu)
L&M Brand	2123	101	56.7	36	1.0	95	38	1	41	90	57.4
	4364	111	59.9	37	1.0	65	29	17	10	--	--
	7511	* 119	57.4	35	1.0	1	4	2	8	88	56.9
L-Brand (Ag Pro)	L-203	96	58.5	38	1.0	79	35	27	23	* 98	59.4
	L-241	95	58.0	39	1.0	94	38	2	26	--	--
	L-304	108	60.7	43	1.0	18	9	1	6	89	58.8
	L-401	117	60.0	42	1.0	1	2	2	12	--	--
	LCS News	109	55.9	37	1.0	78	33	3	30	--	--
L-Brand (Van Treeck's)	L-203	94	58.3	37	1.0	91	39	9	8	--	--
	L-241	94	57.7	39	1.0	95	34	1	7	* 92	58.6
L-Brand (Welter)	L-334	108	58.7	39	1.0	28	26	2	5	84	58.9
Legacy	LW 1155	* 122	57.7	35	1.0	1	6	2	21	90	56.6
	LW 1335	81	56.7	40	1.0	100	65	2	7	87	59.2
	LW 1485	87	56.3	34	1.0	99	63	1	11	* 91	58.3
	LW 1695	110	56.3	39	1.0	23	9	4	2	--	--
	LWX 1677	105	59.0	38	1.0	88	30	2	25	--	--
PiP	708	* 123	59.1	37	1.0	10	17	1	2	--	--
	709	102	57.4	38	1.0	80	31	1	3	--	--
	715	* 126	58.2	37	1.0	1	2	1	1	* 91	58.8
	718	109	58.5	36	1.0	66	12	1	1	88	59.7
	719	104	55.9	38	1.0	38	9	2	6	* 95	58.7
	720	117	58.3	35	1.0	11	33	3	29	87	57.1
	721	113	55.4	39	1.0	1	1	2	13	* 93	55.9
	733	110	55.9	34	1.0	18	21	8	26	* 97	57.8
	734	98	59.0	36	1.0	85	30	3	4	89	59.5
	735	102	56.9	34	1.0	99	51	2	34	* 93	58.1
	736	113	56.9	36	1.0	1	6	2	4	89	57.0
	737	116	59.4	37	1.0	39	20	6	5	* 92	59.4
	741	107	58.4	34	1.0	88	25	1	10	* 95	57.9
	742	101	57.2	35	1.0	100	43	1	8	--	--
	744	* 118	56.6	35	1.0	1	1	1	22	--	--
	745	115	59.0	32	1.0	1	6	4	2	--	--
	746	103	55.1	34	1.0	85	23	1	1	--	--
	747	106	57.2	37	1.0	51	16	13	2	--	--
	776	87	55.0	37	1.0	100	63	6	2	--	--
	792	115	56.4	38	1.0	18	39	4	38	90	59.3

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

¹ % incidence ² % severity ³ Fusarium head blight*continued on next page*



Table 7. Sharon 2016 Winter Wheat Performance Trial Results

continued from previous page

Brand (Entrant)	Entry	2016 means								2015 means	
		Yield (bu/a)	Test wt. (lb/bu)	Height (in.)	Lodging (1-5)	Stripe rust I% ¹	S% ²	FHB ³ I% ¹	S% ²	Yield (bu/a)	Test wt. (lb/bu)
Pro Seed Genetics	PRO 200	78	58.7	42	1.0	75	54	2	8	81	59.3
	PRO 240	91	57.7	44	1.0	84	34	22	17	87	57.2
	PRO 260	115	56.7	35	1.0	50	10	6	19	87	56.3
	PRO 320A	112	57.9	42	1.0	5	8	1	1	* 91	57.0
	PRO 410	* 121	58.3	36	1.0	2	33	2	39	85	57.4
	PRO 420	76	57.1	43	1.0	95	33	2	26	86	58.5
	PRO Ex 380	117	61.5	38	1.0	20	28	2	4	88	59.5
Public	Erie	92	55.9	36	1.0	20	23	2	18	77	56.9
	Hopewell	95	57.1	37	1.0	24	23	4	25	79	56.3
	Kaskaskia	87	57.4	43	1.0	100	76	9	29	81	59.4
	Otsego	73	55.7	40	1.0	98	61	20	12	84	56.1
	Red Devil Brand	111	55.9	37	1.0	13	34	1	9	* 97	58.4
	Red Dragon Brand	106	57.4	40	1.0	69	15	2	43	84	56.3
	Sunburst	107	60.0	32	1.0	25	25	1	15	85	59.8
Steyer	Whale	* 126	59.4	39	1.0	17	18	1	3	--	--
	Celina	88	57.0	39	1.0	99	48	2	15	--	--
	Haubert	86	54.7	36	1.0	100	39	1	8	--	--
	Heilman	104	57.4	42	1.0	81	19	2	35	--	--
	Morrin	* 125	59.2	39	1.0	9	11	1	17	--	--
Syngenta	SY 007	112	57.5	37	1.0	1	5	2	6	* 95	57.9
	SY 100	115	54.7	35	1.0	1	5	4	10	--	--
	SY 483	117	58.8	37	1.0	21	13	1	13	88	55.7
	SY 547	108	58.3	40	1.0	30	18	1	1	90	58.3
Van Treeck's	XL 007	* 120	57.6	36	1.0	1	3	1	6	--	--
VCIA / VA Tech	Hilliard	117	59.1	35	1.0	26	18	2	10	84	59.0
	VA 11W-106	* 120	59.3	34	1.0	1	8	1	18	87	57.2
Mean		106	57.4	37	1.0	45	25	3	13	88	57.5
LSD (.10)		8	0.7	2	NS	16	12	3	20	7	1.1

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

¹ % incidence ² % severity ³ Fusarium head blight