

2015 OHIO WHEAT PERFORMANCE TEST



THE OHIO STATE UNIVERSITY

COLLEGE OF FOOD, AGRICULTURAL,
AND ENVIRONMENTAL SCIENCES

OHIO WHEAT PERFORMANCE TEST, 2015
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The purpose of the Ohio Wheat Performance Test is to evaluate wheat varieties, blends, brands, and breeding lines for yield, grain quality and other important performance characteristics. This information gives wheat producers comparative information for selecting the varieties best suited for their production system and market. Varieties differ in yield potential, winter hardiness, maturity, standability, disease and insect resistance, and other agronomic characteristics. Selection should be based on performance from multiple test sites and years.

EVALUATION PROCEDURES

Each entry was evaluated at five test sites (see front cover) using four replications per site in a randomized complete block design. Plots consisted of 7 rows, 7.5 inches apart and 40 feet long. Participating companies specified the seeding rate used for each of their varieties. Tests were planted within twenty one days after the fly-safe date and approximately 30 pounds of nitrogen was applied at planting followed by the addition of 80-100 pounds in early spring. Herbicides and insecticides were applied as needed for weed and insect control, and the following data were collected:

Yield is reported in bushels per acre at 13.5 percent moisture.

Test Weight is reported in lb/bushel averaged across all locations.

Seed Size is thousands of harvested seeds per pound (Ex: 15.5 = 15,500 seeds per lb).

Percent Lodging is the percent of plants that lean more than 45 degrees from vertical.

Plant Height is the distance from the soil surface to the top of the heads.

Heading Date was the average calendar day of the year on which 50 percent of the heads were completely emerged. (Example: Day 135 = May 15)

Powdery mildew (PM) Powdery mildew (caused by *Blumaria graminis* f. sp. *tritici*) was evaluated at Wooster when most varieties were past the flowering (Feekes growth stage 10.5.1) growth stage. Each plot was rated on a 0 to 10 scale where: 0 = 0 to trace % leaf area covered; 1 = leaf 4 with trace - 50%; 2 = leaf 3 with 1-5%; 3 = leaf 3 with 5-15%; 4 = leaf 3 with > 15%; 5 = leaf 2 with 1-5%; 6 = leaf 2 with 5-15%; 7 = leaf 2 with >15%; 8 = leaf 1 with 1-5%; 9 = leaf 1 with 5-15%; and 10 = leaf 1 with >15% leaf area covered (leaf 1 = flag leaf). This scale takes into account the percentage leaf area affected and the upward progress of the disease on the plants.

Flour Yield is the percent flour yield from milled whole grain.

Flour Softness is the percent of fine-granular milled flour. Values higher than approximately 50 indicate kernel textures that are appropriate for soft wheat. Generally, high values are more desirable.

CULTURAL PRACTICES BY TEST SITE

	Test Site				
	1	2	3	4	5
County	Wood	Crawford	Wayne	Darke	Pickaway
Previous Crop	Soybean	Soybean	Soybean	Soybean	Soybean
Soil Type	Hoytville	Blount	Canfield	Crosby	Miamian
Tillage	Min-Till	Min-Till	Min-Till	No-Till	Min-Till
Plant Date	Sept. 29	Oct. 2	Oct. 12	Oct. 1	Sept. 30
Soil pH	6.2	6.8	7.0	6.9	6.0
Soil P (ppm)	51	54	49	66	42
Soil K (ppm)	227	314	224	246	135
Fertilizer(N,P,K)	120-78-78	101-52-136	120-69-90	136-0-81	117-66-90
Herbicides	Stinger	Harmony	Harmony SG Buctril	None	Buctril
Fungicide		Prosaro	Prosaro	Prosaro	Caramba
Insecticide		Warrior	Warrior	Tombstone	Tombstone
Harvest Date	July 6	July 11	July 18	July 25	June 24

GROWING CONDITIONS

In fall 2014, wheat was planted at four out of the five locations within 10-days of the fly-free-safe date. Wheat entered dormancy in good to excellent condition. Overall, air temperatures in January and February were below normal. In mid-April, several areas in Ohio experienced freezing temperatures for several hours. However, wheat survival the following spring was good. June and July were much wetter than normal in many areas which resulted in a later than normal wheat harvest. Overall, grain test weight averaged 56.3 lb/bu (compared to an average test weight of 58.8 lb/bu in 2014). Grain yield averaged between 77 and 92 bu/acre at the five locations. Lower than normal test weight and grain yield may be attributed to wet weather in June and July and delayed harvest.

RESULTS

Results of the 2015 wheat performance test are presented in Tables 1-3. Entries in the data tables are arranged by seed source. A least significant difference (LSD) value can be used to determine if the performance of two varieties was statistically different. The yields of two varieties are expected to be significantly different 90 percent of the time if their yields differ by more than the reported LSD value. Flour yield and softness tests were performed by USDA-ARS Soft Wheat Quality Laboratory, at OARDC in Wooster, OH, Dr. Byung-Kee Baik, Director.

Test results for the 78 soft red winter wheat varieties evaluated in 2015 are presented in Table 1. Tables 2 and 3 contain multi-year variety performance data. Depending on variety and test site, yields varied between 58.4 and 105.7 bushels per acre and test weight ranged from 53.9 to 58.4 pounds per bushel. Yield differences

between test sites were due primarily to the soil drainage, weather during the grain fill period & harvest, and disease level. Variety selection should be based on disease resistance, average yield across test sites and years (Tables 2 & 3), winter hardiness, test weight and standability.

Table 4 contains susceptibility of winter wheat varieties to various diseases in Ohio. Particular emphasis should be placed on FHB as this is important in reducing vomitoxin in grain. Table 5 contains the company contact information and seed treatments used for each variety entered in the 2015 wheat performance test.

This report can be found on the Internet at: <http://hostedweb.cfaes.ohio-state.edu/perf> and <http://agcrops.osu.edu>. Any column of data can be sorted by clicking at the top of the column, which makes it easy to arrange varieties in order by any characteristic for comparison purposes.

Inclusion of varieties in the Ohio Wheat Performance Test does not constitute an endorsement of any variety by The Ohio State University, Ohio Agriculture Research and Development Center, or Ohio State University Extension.

Acknowledgments: We thank our farmer cooperators for their contributions to the 2015 wheat variety testing program. We are grateful for the assistance provided by Ken Scaife, OARDC Field Operations, Wooster and Matt Davis, OARDC Northwest Branch Research Station. We thank Kelly Zachrich in CFAES Communications for her assistance in preparing the test results for publication.

Table 1. Yield and Agronomic Characteristics of Wheat Varieties Tested in Ohio, 2015.

Brand	Variety	Seeds/ ft row	Yield						Characteristics				Disease*	Grain Quality		
			Wood	Craw	Wayn	Dark	Pick	Avg.	Test Wt.	Seeds /lb	Lodg.	Ht.	Head Date	PM	Flour	Soft- ness
			-----bu/ac-----						lb/bu	(1000)	%	in.	%			
														%	%	
AGI	210	24	84.7	89.7	92.5	81.6	86.7	87.0	57.3	13.1	20	36	141	0.0	65.0	49.3
AGI	215	24	90.4	97.7	96.6	75.9	90.2	90.1	56.8	11.9	4	32	143	8.0	72.3	45.6
AGI	216	24	93.4	92.6	79.4	75.4	71.6	82.5	57.1	11.3	14	34	141	8.0	69.3	56.1
AGI	306	24	76.1	93.2	89.1	80.6	81.4	84.1	55.5	16.1	8	35	144	8.0	69.5	63.2
AGI	307	24	85.0	83.5	90.2	80.6	76.9	83.2	56.5	13.8	10	35	143	8.0	69.3	57.3
AgriMAXX	413	25	88.9	94.8	88.7	73.3	91.5	87.4	55.2	14.6	6	33	141	6.5	68.8	57.0
AgriMAXX	434	25	76.0	81.2	85.7	73.9	89.0	81.2	54.6	14.0	4	29	143	6.0	68.0	59.2
AgriMAXX	438	25	81.5	86.1	89.7	81.9	91.6	86.1	55.3	15.7	14	35	144	8.0	69.6	63.0
AgriMAXX	444	25	87.3	94.3	87.8	78.7	83.8	86.4	55.7	13.2	7	32	144	7.0	70.3	62.2
AgriMAXX	446	25	85.5	100.6	92.5	84.2	80.8	88.7	56.2	14.1	6	32	144	8.0	68.7	61.0
AgriMAXX	447	25	89.5	92.2	82.3	75.1	91.5	86.1	55.9	13.1	0	34	145	8.5	68.7	55.3
AgriMAXX	454	25	85.9	90.0	95.8	83.8	96.8	90.5	56.7	12.8	9	34	144	9.0	70.4	64.2
AgriPro	SY 007	25	85.5	95.8	89.3	76.9	86.2	86.7	57.0	12.0	6	34	140	0.0	65.9	57.9
AgriPro	SY 474	24	77.7	88.2	87.7	70.8	86.1	82.1	57.2	13.2	2	35	143	3.5	67.9	52.9
AgriPro	SY 483	21	85.3	98.3	91.7	78.6	87.6	88.3	54.5	13.0	6	34	145	5.5	68.4	58.8
AgriPro	SY 547	26	90.3	95.4	91.3	82.3	81.4	88.2	56.9	11.9	4	35	142	5.0	67.9	52.3
Beck	120	24	86.0	91.4	93.5	74.4	88.1	86.7	55.4	14.8	5	33	140	7.0	68.4	56.9
Beck	125	24	90.6	98.3	88.8	74.6	86.5	87.8	57.4	14.4	3	32	143	5.0	68.0	58.3
Beck	129	24	79.7	93.5	91.8	79.7	84.1	85.7	55.5	14.0	14	36	144	8.0	69.5	62.9
Beck	EX 5307	24	85.2	91.7	85.5	81.9	95.8	88.0	55.9	13.5	6	33	144	5.5	70.7	62.0
Beck	EX 5401	24	82.1	96.7	92.1	87.3	81.4	87.9	56.6	13.8	7	34	144	8.5	70.1	64.3
Dyna-Gro	9171	25	85.3	94.9	92.4	78.0	89.7	88.1	55.6	14.4	12	32	141	7.0	68.8	57.5
Dyna-Gro	9223	25	76.7	98.8	91.2	76.2	83.2	85.2	55.5	14.9	6	35	144	7.0	69.6	63.6
Dyna-Gro	9522	25	85.4	89.6	92.1	79.7	93.6	88.1	55.9	14.5	8	33	144	6.0	69.8	60.8
Dyna-Gro	9552	25	81.5	94.9	88.8	85.4	84.3	87.0	56.0	14.1	6	31	144	8.0	68.5	61.5
Dyna-Gro	9591	25	91.5	94.1	86.9	80.4	85.3	87.6	57.3	11.4	14	34	141	8.5	69.2	56.2
Dyna-Gro	WX 14611	25	76.8	90.8	82.7	70.8	88.1	81.8	56.1	12.8	8	34	141	1.5	67.4	54.9
Dyna-Gro	WX 15712	25	85.0	92.3	92.9	80.6	90.3	88.2	56.8	13.5	8	34	144	9.0	70.0	63.3
Equity	Butler	30	83.0	95.7	84.1	77.9	86.1	85.3	56.4	13.3	1	35	144	8.0	69.2	56.0
Equity	Guardian	30	86.8	85.3	86.4	78.2	83.8	84.1	56.4	14.2	10	35	143	8.0	69.1	57.1
Limagrain LCS	L-214	26	87.0	98.3	83.7	82.4	87.2	87.7	56.1	12.8	15	33	140	2.5	68.7	59.7
Limagrain LCS	L-264	28	89.3	91.0	89.2	82.0	85.6	87.4	58.4	12.3	9	34	139	3.0	69.2	54.6
Limagrain LCS	L-461	28	79.5	84.7	83.8	75.4	85.3	81.7	57.5	11.6	11	36	141	8.0	67.4	56.6

Table 1, continued

Brand	Variety	Seeds/ ft row	Yield						Characteristics				Disease*	Grain Quality		
			Wood	Craw	Wayn	Dark	Pick	Avg.	Test Wt.	Seeds /lb	Lodg.	Ht.	Head Date	PM	Flour	Soft- ness
			-----bu/ac-----						lb/bu	(1000)	%	in.	%			
														%	%	
OFS	Lion	24	82.2	82.0	89.2	83.2	81.6	83.7	55.8	13.8	6	38	143	0.0	69.4	61.2
Pioneer Brand	25R25	25	85.0	100.3	87.0	73.1	90.6	87.2	55.7	13.1	4	32	145	5.5	69.6	56.2
Pioneer Brand	25R40	25	91.1	95.9	89.6	72.8	85.8	87.0	56.1	11.7	2	31	143	3.0	67.6	60.0
Pioneer Brand	25R46	25	84.6	91.5	87.2	81.4	80.8	85.1	56.8	12.2	2	32	144	7.0	67.2	57.7
Pioneer Brand	25R50	25	83.9	93.6	87.3	68.3	82.1	83.0	56.1	15.8	4	31	145	5.0	65.6	57.5
Pioneer Brand	25R77	25	81.5	105.7	86.1	83.1	84.1	88.1	57.3	14.9	14	31	142	7.0	66.9	61.5
Pro. Certified	Sunburst	27	79.5	89.3	87.0	81.0	78.7	83.1	57.9	14.8	2	31	144	0.0	64.2	55.5
Pub. Certified	Freedom	25	71.8	76.4	77.8	66.8	81.5	74.9	53.9	16.0	9	36	145	1.0	66.8	56.5
Pub. Certified	Hopewell	25	66.9	78.8	78.9	64.6	80.6	74.0	54.5	14.8	4	35	144	1.0	66.7	61.2
Pub. Certified	Malabar	25	60.2	81.1	75.6	58.4	76.4	70.3	55.9	18.2	2	38	144	5.0	67.1	63.3
Rupp	RS 907	24	84.8	95.3	91.9	74.1	87.4	86.7	57.3	13.9	10	33	143	3.0	67.6	57.3
Rupp	RS 910	24	89.9	96.2	91.3	75.1	83.2	87.1	57.4	14.6	6	34	143	0.0	67.7	57.8
Rupp	RS 972	24	77.1	96.0	92.3	83.1	83.0	86.3	55.5	15.9	12	34	144	5.5	69.7	63.4
Seed Consultants	SC 1315-15™	27	94.7	94.9	82.5	80.7	82.9	87.1	57.2	10.9	14	34	141	8.5	69.1	57.5
Seed Consultants	SC 1321™	27	84.4	100.2	91.5	80.4	94.8	90.3	55.6	14.6	6	32	141	7.0	68.7	58.6
Seed Consultants	SC 1325-15™	27	86.7	97.9	89.7	75.2	88.2	87.5	56.1	13.4	5	32	142	8.0	67.0	59.5
Seed Consultants	SC 1335-15™	27	90.8	100.0	86.8	76.1	85.4	87.8	57.5	14.4	6	33	143	5.0	68.2	58.3
Seed Consultants	SC 1342™	27	80.6	91.8	91.1	76.6	88.5	85.7	55.5	14.0	15	36	144	7.0	69.7	63.2
Shur Grow	SG-1542	25	86.3	91.1	90.5	81.0	78.1	85.4	58.0	13.5	13	34	140	0.0	66.5	50.8
Shur Grow	SG-1544	25	83.9	94.3	96.0	77.7	91.3	88.6	56.1	13.6	6	39	142	2.0	69.6	61.0
Shur Grow	SG-1552	25	79.3	92.0	91.3	78.4	86.6	85.5	55.4	14.9	15	35	144	6.0	69.8	64.2
Shur Grow	SG-1554	25	85.9	91.8	84.1	76.0	91.8	85.9	56.0	12.8	1	34	144	8.5	69.1	55.9
Stewart	SW470	25	86.1	85.2	88.4	73.8	82.8	83.3	55.1	13.9	8	36	143	8.0	66.7	57.7
Stewart	SW485	25	82.3	82.1	87.4	72.8	81.8	81.3	55.8	14.1	2	37	144	3.5	69.8	61.1
Stewart	SW490	25	81.4	83.5	89.6	74.4	82.0	82.2	55.9	13.5	4	38	143	4.0	70.0	61.3
Stewart	SW500	25	85.7	93.1	84.3	76.2	81.3	84.1	56.4	14.1	6	33	144	8.0	69.8	57.8
Steyer	Celina	25	77.1	77.6	78.4	61.5	77.2	74.3	55.0	13.7	2	32	145	4.0	68.3	61.1
Steyer	Evans	25	86.6	94.6	91.4	82.8	87.7	88.6	55.8	14.0	6	33	144	4.5	69.5	61.1
Steyer	Morrin	25	85.0	95.6	84.2	79.8	87.3	86.4	56.2	12.7	1	34	145	8.5	68.8	55.9
Steyer	STex141	25	85.8	101.7	97.4	83.8	96.9	93.1	56.6	12.8	6	34	144	8.5	70.4	65.8
Strike	220	25	80.3	95.1	93.7	80.1	82.3	86.3	55.5	13.9	18	35	144	6.5	69.7	64.0
Strike	403	25	89.8	105.4	89.9	76.9	92.8	90.9	55.9	13.3	4	32	141	8.0	67.0	59.8
Strike	603	25	81.8	97.0	96.4	84.8	88.9	89.8	56.4	13.7	10	34	143	8.5	70.2	63.6

Table 1, continued

Brand	Variety	Seeds/ ft row	Yield						Characteristics				Disease*	Grain Quality		
			Wood	Craw	Wayn	Dark	Pick	Avg.	Test Wt.	Seeds /lb	Lodg.	Ht.	Head Date	PM	Flour	Soft- ness
			-----bu/ac-----						lb/bu	(1000)	%	in.	%			
Va. Tech	Hilliard	25	85.6	86.7	90.0	69.1	77.4	81.8	56.8	12.4	6	34	143	1.0	67.5	58.4
Va. Tech	VA10W-21	25	87.7	95.2	95.2	72.4	79.8	86.1	57.8	13.2	9	32	144	0.0	68.9	45.1
Va. Tech	VA11W-106	25	81.3	81.2	85.2	71.1	78.8	79.5	56.2	13.3	10	32	144	2.0	66.1	56.7
Wellman	W 125	27	79.3	86.9	91.8	78.0	90.4	85.3	55.9	13.4	8	38	143	6.0	69.3	60.6
Wellman	W 202	27	92.0	97.0	82.2	80.7	81.8	86.7	57.2	12.0	16	35	141	8.5	68.5	56.7
Wellman	W 204	27	88.4	101.5	89.7	77.7	96.1	90.7	56.1	13.7	8	32	141	8.0	66.8	59.4
Wellman	W 205	27	85.0	85.5	91.4	77.5	89.5	85.8	56.0	13.3	2	35	144	8.0	69.5	57.0
Wellman	W 206	27	88.2	97.2	87.1	78.1	90.2	88.2	57.2	14.3	2	34	143	1.0	67.4	58.7
Wellman	W 207	27	78.8	85.8	94.7	78.7	85.4	84.7	55.2	15.3	20	35	144	6.5	70.0	64.3
Yerks	Y2220	23	90.4	99.1	82.5	76.8	85.0	86.7	57.2	14.2	4	34	143	4.0	67.6	59.2
Yerks	Y2313	22.5	84.9	98.5	88.8	77.3	94.8	88.9	55.3	15.1	11	35	144	6.0	69.9	62.3
	High	30.0	94.7	105.7	97.4	87.3	96.9	93.1	58.4	18.2	32	39	145	9.0	72.3	65.8
	Average	25.2	84.0	92.2	88.4	77.3	85.6	85.5	56.3	13.7	8	34	143	5.6	68.6	58.8
	Low	21.0	60.2	76.4	75.1	58.4	70.6	70.3	53.9	10.9	0	29	139	0.0	64.2	45.1
	LSD (P=0.1)		3.7	6.5	4.4	4.9	7.6	4.6	0.9		11.0	1.5	1.0			
	CV		3.8	5.3	4.2	5.5	7.6	5.2	1.5		108.8	2.6	0.5			

* Scores are based on data from an inoculated, mist-irrigated screening nursery.

Table 2. Yield and Agronomic Characteristics of Wheat Varieties Tested in Ohio, 2014 and 2015.

Brand	Variety	Yield						Characteristics			
		Wood	Craw	Wayn	Dark	Pick	Avg.	Test Wt.	Lodg.	Ht.	Head Date
		-----bu/ac-----						lb/bu	%	in.	
AGI	210	85.3	104.1	100.2	85.3	94.3	93.8	58.7	23	36	143
AGI	306	82.8	103.8	98.5	86.9	92.9	93.0	56.6	14	35	146
AGI	307	86.7	99.7	95.4	89.7	89.0	92.1	58.0	10	36	145
AgriMAXX	413	92.0	108.4	101.8	87.1	98.4	97.6	56.6	4	33	143
AgriMAXX	434	80.4	98.7	100.9	83.1	101.2	92.9	56.2	10	31	144
AgriMAXX	438	87.7	99.5	98.2	87.1	100.6	94.6	56.6	22	35	146
AgriMAXX	444	92.2	107.8	98.7	87.9	96.6	96.6	56.9	11	34	146
AgriMAXX	446	89.9	113.3	102.8	90.2	96.4	98.5	57.6	9	32	146
AgriMAXX	447	93.3	104.5	97.7	86.7	100.0	96.4	57.3	3	35	147
AgriPro	SY 007	86.6	103.1	98.9	87.4	90.7	93.4	58.1	8	36	142
AgriPro	SY 474	80.9	97.8	96.4	74.9	94.5	88.9	58.4	8	36	145
AgriPro	SY 483	90.6	110.6	99.6	86.8	102.2	98.0	56.3	12	35	147
AgriPro	SY 547	89.0	106.3	101.7	90.9	93.7	96.3	58.3	9	36	144
Beck	120	90.1	104.8	103.8	86.5	97.5	96.5	56.8	4	33	143
Beck	125	93.1	106.1	100.4	87.1	97.3	96.8	58.5	2	34	145
Beck	129	87.1	105.3	99.9	87.1	96.2	95.1	56.5	22	36	146
Dyna-Gro	9171	90.8	108.1	103.5	90.2	96.9	97.9	57.0	8	33	143
Dyna-Gro	9223	85.6	106.0	97.9	83.5	97.6	94.1	56.9	20	36	146
Dyna-Gro	9522	91.2	106.7	96.0	87.5	100.1	96.3	56.9	11	34	146
Dyna-Gro	9552	89.5	107.6	101.0	99.1	99.4	99.3	57.6	10	32	146
Equity	Guardian	86.3	101.1	95.1	88.2	89.8	92.1	58.0	16	36	144
OFS	Lion	87.0	98.2	100.0	89.5	93.7	93.7	57.0	16	39	145
Pioneer Brand	25R40	96.2	103.9	104.1	84.2	97.9	97.3	57.1	5	32	145
Pioneer Brand	25R46	87.9	110.7	98.2	90.4	97.8	97.0	58.3	7	33	145
Pro. Certified	Sunburst	85.4	99.7	94.6	87.7	92.8	92.0	59.5	2	31	146
Pub. Certified	Freedom	75.8	90.3	87.3	75.9	87.4	83.4	55.4	10	37	147
Pub. Certified	Hopewell	77.3	96.9	90.2	74.4	88.0	85.3	56.4	8	35	146
Pub. Certified	Malabar	73.5	96.5	88.4	75.8	85.0	83.8	57.5	6	39	146
Rupp	RS 907	91.7	105.7	99.4	85.8	93.2	95.2	58.4	11	34	144
Rupp	RS 910	92.5	107.9	102.0	83.7	94.0	96.0	58.5	4	35	145
Rupp	RS 972	85.3	109.6	100.2	90.5	95.2	96.1	56.7	21	35	146

Table 2, continued

Brand	Variety	Yield						Characteristics			
		Wood	Craw	Wayn	Dark	Pick	Avg.	Test Wt.	Lodg.	Ht.	Head Date
		-----bu/ac-----						lb/bu	%	in.	
Seed Consultants	SC 1321™	89.5	109.3	101.6	90.6	99.8	98.2	56.8	7	33	143
Seed Consultants	SC 1325-15™	91.9	110.8	107.5	90.8	101.2	100.5	57.4	3	33	144
Seed Consultants	SC 1335-15™	93.2	110.1	99.7	85.1	96.4	96.9	58.6	4	34	145
Seed Consultants	SC 1342™	88.6	106.4	99.1	89.4	98.6	96.4	56.8	25	36	146
Shur Grow	SG-1542	87.1	97.5	98.0	87.7	88.6	91.8	59.2	18	34	142
Shur Grow	SG-1544	91.0	102.5	102.0	80.1	101.5	95.4	57.1	12	40	144
Shur Grow	SG-1552	86.9	102.1	98.4	89.4	96.9	94.7	56.6	22	35	146
Shur Grow	SG-1554	90.0	105.0	98.4	87.3	101.0	96.4	57.4	4	35	147
Stewart	SW485	90.3	96.6	100.0	81.6	95.8	92.9	57.1	14	38	145
Stewart	SW490	88.9	96.4	101.8	86.3	94.5	93.6	57.3	4	37	146
Stewart	SW500	87.6	102.3	93.9	84.1	91.3	91.9	57.9	12	35	145
Strike	220	87.3	108.6	101.7	89.0	95.3	96.4	56.7	24	36	146
Strike	403	92.3	114.3	108.1	90.0	99.7	100.9	57.4	2	33	143
Va. Tech	VA10W-21	90.3	105.1	103.7	85.5	90.8	95.1	59.2	12	33	145
Wellman	W 125	87.3	104.7	102.6	82.3	99.3	95.2	57.2	15	39	144
Wellman	W 204	93.3	113.9	105.4	87.9	103.5	100.8	57.5	4	33	143
Wellman	W 205	89.1	102.7	102.6	87.8	100.1	96.5	57.3	4	35	147
Wellman	W 206	91.9	110.8	99.0	85.7	98.3	97.2	58.4	7	35	145
Wellman	W 207	87.5	100.0	99.7	91.5	97.3	95.2	56.6	26	36	146
Yerks	Y2220	92.2	109.1	95.3	84.5	93.2	94.9	58.4	2	35	145
Yerks	Y2313	89.0	107.9	98.6	85.3	100.4	96.2	56.4	23	36	145
	High	96.2	114.3	108.1	99.1	103.5	100.9	59.5	26	40	147
	Average	88.2	104.6	99.4	86.4	96.0	94.9	57.4	11	35	145
	Low	73.5	90.3	87.3	74.4	85.0	83.4	55.4	2	31	142

Table 3. Yield and Agronomic Characteristics of Wheat Varieties Tested in Ohio, 2013 - 2015.

Brand	Variety	Yield						Characteristics			
		Wood	Craw	Wayn	Dark	Pick	Avg.	Test Wt.	Lodg.	Ht.	Head Date
		-----bu/ac-----						lb/bu	%	in.	
AGI	210	82.8	99.7	95.5	87.2	92.7	91.6	58.6	18	35	142
AGI	306	77.5	99.1	98.1	90.5	91.5	91.4	56.9	11	35	145
AGI	307	81.4	95.0	94.6	89.5	90.6	90.2	57.9	7	35	144
AgriMAXX	413	83.3	102.0	99.8	91.3	97.8	94.9	56.6	3	33	142
AgriMAXX	438	80.9	97.0	98.7	90.6	98.2	93.1	56.9	18	35	145
AgriMAXX	447	86.1	98.3	96.7	91.0	98.1	94.0	57.4	3	34	146
AgriPro	SY 474	75.8	93.8	94.2	78.3	93.4	87.1	58.4	6	36	144
AgriPro	SY 483	82.3	105.0	97.9	90.9	99.7	95.2	56.3	8	34	146
Beck	120	81.3	99.6	101.1	87.4	98.4	93.6	56.6	3	32	142
Beck	129	81.3	99.4	98.7	91.0	99.5	94.0	56.9	15	34	145
Dyna-Gro	9171	82.6	101.4	101.0	93.1	97.0	95.0	56.8	5	32	142
Dyna-Gro	9223	79.8	99.6	98.7	89.0	95.2	92.5	57.2	13	35	145
Equity	Guardian	81.5	96.7	94.5	89.9	90.9	90.7	57.9	11	35	144
OFS	Lion	82.0	94.8	99.1	92.1	92.8	92.2	57.2	13	38	144
Pioneer Brand	25R40	85.4	99.7	100.5	89.3	97.7	94.5	57.1	3	31	144
Pro. Certified	Sunburst	80.5	98.2	94.2	89.6	91.3	90.7	59.5	2	30	145
Pub. Certified	Freedom	71.8	87.7	85.4	78.7	86.4	82.0	55.8	8	36	146
Pub. Certified	Hopewell	72.6	90.7	88.1	78.0	88.5	83.6	56.3	5	35	145
Pub. Certified	Malabar	62.0	87.7	82.3	78.0	83.4	78.7	57.3	4	38	146
Rupp	RS 907	82.5	99.5	97.5	88.7	92.5	92.1	58.5	7	33	144
Rupp	RS 972	79.3	103.1	97.7	92.3	97.8	94.1	57.0	14	34	145
Seed Consultants	SC 1321™	81.2	100.2	100.4	93.1	101.1	95.2	56.7	5	32	142
Seed Consultants	SC 1342™	81.1	101.3	98.1	91.3	100.1	94.4	57.1	16	36	145
Shur Grow	SG-1542	82.6	93.3	94.7	89.5	90.1	90.0	59.0	13	33	142
Shur Grow	SG-1552	81.0	98.5	99.0	92.7	99.2	94.1	57.0	16	35	145
Stewart	SW485	86.1	95.8	100.2	87.7	93.4	92.7	57.3	10	38	144
Stewart	SW490	83.3	94.6	99.4	90.5	93.7	92.3	57.3	3	35	145
Stewart	SW500	82.3	96.5	95.0	86.9	93.0	90.8	57.8	8	34	144
Strike	220	80.6	102.6	99.3	91.6	97.1	94.3	57.0	18	35	145
Wellman	W 125	81.6	98.9	101.7	87.1	97.2	93.3	57.2	10	38	144
Wellman	W 205	82.6	98.0	99.0	93.1	97.0	93.9	57.4	2	35	146
Wellman	W 206	83.8	105.3	98.0	90.8	98.6	95.3	58.4	4	34	144
Wellman	W 207	79.6	95.9	99.5	93.3	99.8	93.6	57.0	17	35	145
Yerks	Y2313	80.4	100.2	97.2	89.1	97.8	92.9	56.8	17	35	145
	High	86.1	105.3	101.7	93.3	101.1	95.3	59.5	18	38	146
	Average	80.6	97.9	96.9	88.9	95.1	91.9	57.3	9	35	144
	Low	62.0	87.7	82.3	78.0	83.4	78.7	55.8	2	30	142

Table 4. Reaction of winter wheat varieties to various diseases in Ohio.

Brand	Cultivar	Powdery		Leaf Blotch*		Glume Blotch		FHB Head Scab**	
		2014	2015	2013	2014	2013	2014	2013	2014
AGI	110		MS						
AGI	210	R	R	R	VS	MS	MS	R	MR
AGI	215		S						
AGI	216		S						
AGI	306	S	S	R	VS	R	MS	S	MS
AGI	307	S	S	MR	MS	MR	MS	R	MR
AgriMAXX	413	S	MS	MS	S	MS	MS	MR	MR
AgriMAXX	434	S	MS		S		MS		MR
AgriMAXX	438	S	S	MS	MS	R	MS	MS	MR
AgriMAXX	444	S	MS		VS		MS		MR
AgriMAXX	446	S	S		VS		MS		MS
AgriMAXX	447	S	S	MR	MS	MR	MS	MR	MR
AgriMAXX	454		S						
AgriPro	SY 007	MR	R		MS		MS		MR
AgriPro	SY 474	MS	MR	R	S	MR	MS	MR	MS
AgriPro	SY 483	S	MS	MR	S	MS	MS	S	MS
AgriPro	SY 547	MS	MS		MS		MS		MR
Beck	120	S	MS	MR	S	MS	MS	MR	MR
Beck	125	MS	MS		S		MS		MR
Beck	129	S	S	R	S	R	MS	MR	MR
Beck	EX 5307		MS						
Beck	EX 5401		S						
Certified - Proprietary	Sunburst	MS	R	MR	S	MS	MS	S	MS
Certified - Public	Freedom	S	MS	MR	MS	MS	MS	MR	MR
Certified - Public	Hopewell	S	MR	MS	S	MR	S	MS	MS
Certified - Public	Malabar	S	MS	MR	S	MS	S	MR	MR
Dyna-Gro	9171	S	MS	MS	S	MR	MS	R	MR
Dyna-Gro	9223	S	MS	MR	S	MR	MS	MR	MR
Dyna-Gro	9522	S	MS		S		MS		MR
Dyna-Gro	9552	S	S		VS		MS		MR
Dyna-Gro	9591		S						
Dyna-Gro	WX 14611		R						
Dyna-Gro	WX 15712		S						
Equity	Butler		S						
Equity	Guardian	S	S	MR	MS	MS	MS	R	MR
Limagrain LCS	L-214		MR						
Limagrain LCS	L-264		MR						
Limagrain LCS	L-461		S						
OFS	Lion	S	S	MR	MS	MS	MS	MR	MR
Pioneer Brand	25R25		MS						
Pioneer Brand	25R40	S	MS	MS	S	R	MS	S	MS
Pioneer Brand	25R46	S	MS		VS		MS		MR
Pioneer Brand	25R50		MS						
Pioneer Brand	25R77		MS						
Rupp	RS 907	S	S	MR	S	MR	MS	R	MR
Rupp	RS 910	S	MS		MS		MS		MR
Rupp	RS 972	S	MS	R	MS	MR	MS	MS	MS

Table 4, continued

Brand	Cultivar	Powdery		Leaf Blotch*		Glume Blotch		FHB Head Scab**	
		2014	2015	2013	2014	2013	2014	2013	2014
Seed Consultants	SC 1315-15™		S						
Seed Consultants	SC 1321™	S	MS	MS	S	MS	MS	MR	MR
Seed Consultants	SC 1325	S	S		VS		S		MR
Seed Consultants	SC 1335-15™	S	MS		MS		MS		MR
Seed Consultants	SC 1342™	S	MS	S	S	MR	MS	MR	MR
Shur Grow	SG-1542	R	R	MS	MS	S	MS	MR	MR
Shur Grow	SG-1544	S	MS		MS		MS		MR
Shur Grow	SG-1552	S	MS	MR	S	MS	MS	MS	MS
Shur Grow	SG-1554	S	S		MS		MS		MR
Stewart	SW470		S						
Stewart	SW485	MS	MR	MS	MS	MS	MS	MR	MR
Stewart	SW490	S	S	R	MS	MR	S	MR	MR
Stewart	SW500	S	S	R	MS	MR	S	R	MR
Steyer	Celina		MR						
Steyer	Evans		MR						
Steyer	Morrin		S						
Steyer	STex141		S						
Strike	220	S	MS	MR	MS	R	MS	MS	MR
Strike	403	S	S		VS		MS		MR
Strike	603		S						
Va. Tech	Hilliard		R						
Va. Tech	VA10W-21	MS	MR		S		MS		MR
Va. Tech	VA11W-106		MR						
Wellman	W 125	S	MS	MR	MS	MS	MS	MS	MR
Wellman	W 202		S						
Wellman	W 204	S	S		MS		MS		MR
Wellman	W 205	S	S	R	MS	MS	S	MS	MR
Wellman	W 206	S	S	R	S	R	MS	MS	MR
Wellman	W 207	S	MS	MR	S	R	S	MR	MR
Yerks	Y2220	S	MS		MS		MS		MR
Yerks	Y2313	S	MS	MS	S	MR	S	MR	MR

R = resistant; MR = moderately resistant; MS = moderately susceptible; S = susceptible;

Blank spaces = no data

Reactions scored during 2013, 2014 & 2015. Obtain new information each year due to expected changes in reactions over time.

* Leaf Blotch due to *Stagonospora nodorum*, *Bipolaris sorokinianum* and/or *Pyrenophora tritici-repentis*.

Varieties were evaluated for *Stagonospora* leaf and glume blotch in an inoculated, irrigated disease screening nursery at Wooster. Both SLB and SGB severity were rated at about Feekes growth stage 11.3 as the average percent leaf and spike area diseased, respectively.

** R = As resistant as or more resistant than Truman (R does not mean that the variety will not become infected, it means that it is among the most resistant we have at this time, based on multiple years of testing); MR = As resistant or more resistant than Freedom but not as resistant as Truman; MS = moderately susceptible; S = susceptible. Varieties were evaluated in an inoculated disease screening nursery at Wooster. FHB was rated as the percentage of spikelets diseased per plot (disease index).

For additional disease information and wheat varieties, please visit our web site:

www.oardc.ohio-state.edu/ohiofieldcropdisease

Table 5. Ohio Wheat Performance Test, 2015 - Seed Source & Seed Treatment.

Brand	Producer	Variety	Seed Treatment
AGI	Advanced Genetics, Inc. 11491 Foundation Rd. Croton, OH 43013 740-893-2501 advancedgeneticsinc.com	110	Vibrance Extreme / Cruiser
		210	Nipsit Suite
		215	Vibrance Extreme / Cruiser
		216	Vibrance Extreme / Cruiser
		306	Vibrance Extreme / Cruiser
		307	Vibrance / Cruiser
AgriMAXX	AgriMAXX Wheat Company 7167 Highbanks Rd. Mascoutah, IL 62258 855-629-9432 agrimaxxwheat.com	413	Vibrance Extreme / Maxim / Cruiser
		434	Vibrance Extreme / Maxim / Cruiser
		438	Vibrance Extreme / Maxim / Cruiser
		444	Vibrance Extreme / Maxim / Cruiser
		446	Vibrance Extreme / Maxim / Cruiser
		447	Vibrance Extreme / Maxim / Cruiser
		454	Vibrance Extreme / Maxim / Cruiser
AgriPro	Syngenta Cereals 806 N. 2nd St. Berthoud, CO 80513 574-780-6445 agriprowheat.com	SY 007	Vibrance Extreme / Cruiser
		SY 474	Vibrance Extreme / Cruiser
		SY 483	Vibrance Extreme / Cruiser
		SY 547	Vibrance Extreme / Cruiser
Beck	Beck's Hybrids 6767 E. 276 th St. Atlanta, IN 46031 800-937-2325 beckshybrids.com	120	Escalate
		125	Escalate
		129	Escalate
		Ex 5307	Escalate
		Ex 5401	Escalate
Certified	Ohio Seed Improvement Assn. 6150 Avery Rd., Box 477 Dublin, OH 43017 614-889-1136 ohseed.org	Sunburst	Starburst IM / Athens
Equity Seed	Direct Enterprises Inc. P.O. Box 978 Westfield, IN 46074 888-895-73333	Butler Guardian	Tebucanazole / Imidacloprid
Dyna-Gro	Dyna-Gro Seed 8947 County Rd. 84 Findlay, OH 44820 419-788-6514 dynagroseed.com	9171	Foothold Extra / Awaken ST
		9223	Foothold Extra / Awaken ST
		9522	Foothold Extra / Awaken ST
		9552	Foothold Extra / Awaken ST
		9591	Foothold Extra / Awaken ST
		WX 14611	Foothold Extra / Awaken ST
		WX 15712	Foothold Extra / Awaken ST
			Foothold Extra / Awaken ST

Table 5, continued

Brand	Producer	Variety	Seed Treatment
Limagrain LCS	Limagrain Cereal Seeds 257 E. Hail Bushnell, IL 61422 309-569-0008 limagraincerealseeds.com	L-214 L-264 L-461	Ipconazole / Metalaxyl Warden Cereal / NitroShield Warden Cereal / NitroShield
OFS	Ohio Foundation Seed, Inc. 11491 Foundation Rd. Croton, OH 43013 740-893-2501	Lion	Ipconazole / Metalaxyl / Imidacloprid
Pioneer	Pioneer Hi-Bred Int'l 59 Greif Parkway, Ste 200 Delaware, OH 43015 740-657-6120 pioneer.com	25R25 25R40 25R40 25R50 25R77	Vibrance Extreme Vibrance Extreme Vibrance Extreme Vibrance Extreme Vibrance Extreme
Public	Ohio Seed Improvement Assn. 6150 Avery Rd., Box 477 Dublin, OH 43017 614-889-1136 ohseed.org	Freedom Hopewell Malabar	Rancona Rancona Starbust IM / Athena
Public	Virginia Polytechnic Inst. & Virginia Crop Improvement 9225 Atlee Branch Lane Mechanicsville, VA 23116 804-746-4884 viriniacrop.org	Hilliard VA10W-21 VA11W-106	Foothold / Provoke ST / Storcide II Foothold / Provoke ST / Storcide II Foothold / Provoke ST / Storcide II
Rupp	Rupp Seeds, Inc. 17919 County Rd. B Wauseon, OH 43567 877-591-7333 ruppseeds.com	RS 907 RS 910 RS 972	Vibrance Extreme Vibrance Extreme Vibrance Extreme Vibrance Extreme / Cruiser
Seed Consultants	Seed Consultants, Inc. 648 Miami Trace Rd. SW Washington C.H., OH 43160 800-708-2676 seedconsultants.com	SC 1315-15™ SC 1321™ SC 1325-15™ SC 1335-15™ SC 1342™	Vibrance Extreme / Maxim / Cruiser Dividend Extreme/Vibrance/Gaicho Dividend Extreme/Vibrance/Gaicho Dividend Extreme/Vibrance/Gaicho Dividend Extreme/Vibrance/Gaicho
Shur Grow	Heritage Cooperative, Inc. 11177 TR 133 West Mansfield, OH 43358 800-231-7333 heritagecooperative.com	SG-1542 SG-1544 SG-1552 SG-1554	Warden Cereals Warden Cereals Warden Cereals Warden Cereals
Stewart	Stewart Seeds 2230 East CR 300 North Greensburg, IN 47240 800-365-SEED stewartseeds.com	SW 470 SW 485 SW 490 SW 500	PolyKote / SecureKote PolyKote / SecureKote PolyKote / SecureKote PolyKote / SecureKote

Table 5, continued

<u>Brand</u>	<u>Producer</u>	<u>Variety</u>	<u>Seed Treatment</u>
Steyer	Steyer Seeds P.O. Box 209 Old Fort, OH 44883 800-231-4274 steyerseeds.com	Celina Evans Morrin STex141	Steyer Surestand Cereals Steyer Surestand Cereals Steyer Surestand Cereals Steyer Surestand Cereals
Strike Genetics	Burtch Seed Company, Inc. 4742 Tama Rd. Celina, OH 45822 419-363-3713 burtchseed.com	220 403 603	Vibrance / Cruiser Maxx Vibrance / Cruiser Maxx Vibrance / Cruiser Maxx
Wellman	Wellman Seeds, Inc. 23778 Delphos Jennings Rd. Delphos, OH 45833 800-717-7333 wellmanseeds.com	W 125 W 202 W 204 W 205 W 206 W 207	Encase for Wheat Encase for Wheat Encase for Wheat Encase for Wheat Encase for Wheat Encase for Wheat
Yerks	Yerks Seed, Inc. 20202 Notestine Rd. Woodburn, IN 46797 260-657-5127	Y 2220 Y 2313	Vibrance Extreme / Cruiser Vibrance Extreme / Cruiser