

2013 OHIO WHEAT PERFORMANCE TEST



Ohio State University Extension
Ohio Agricultural Research and Development Center
The Ohio State University

OHIO WHEAT PERFORMANCE TEST, 2013
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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 35 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)

Fusarium Head Blight (FHB) Varieties were evaluated in an inoculated disease screening nursery at Wooster. FHB was rated as the percentage of spikelets diseased per plot (disease index).

Powdery mildew (PM) Powdery mildew (caused by *Blumeria 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.

Glume Blotch (SGB) and Leaf Blotch (SLB) 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.

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	Reduced Till	Reduced Till	Reduced Till	No-Till	Reduced Till
Plant Date	Oct. 12	Oct. 13	Oct. 17	Oct. 11	Oct. 5
Soil pH					
Soil Test P (ppm)	Soil test results will be posted on our web site when available.				
Soil Test K (ppm)					
Fertilizer (N, P, K)	120-78-78	126-72-240	128-69-90	117-0-90	107-66-93
Herbicides	Stinger	Husky	Harmony Extra Buctril	None	None
Fungicide		Prosaro	Prosaro	Prosaro	Caramba
Insecticide		Warrior	Warrior	Tombstone	Tombstone Helios
Harvest Date	July 19	July 17	July 16	July 18	July 13

GROWING CONDITIONS

In fall 2012, soybean harvest was later than usual which slightly delayed wheat planting. Fall growth was above average at all test sites due to extended warm temperatures. During late January/early February, there was a lack of snow cover and most of the state experienced single digit temperatures. However, wheat survival the following spring was good. Cool temperatures this spring delayed green-up in many areas. Above average temperatures in early May accelerated plant growth and heading dates were within 1-2 days of average. June temperatures were fairly cool which resulted in an extended grain fill period. Late-season rainfall in June and early July delayed harvest and resulted in shattering at the Northwest Branch Agricultural Research Station (NWB) trial location. Grain yield at the other trial locations were fairly high.

RESULTS

Results of the 2013 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 80 soft red winter wheat varieties evaluated in 2013 are presented in Table 1. Tables 2 and 3 contain multi-year variety performance data. Depending on variety and test site, yields varied between 37.7 and 107.2 bushels per acre and test weight ranged from 55.6 to 59.4 pounds per bushel. Yield differences between test sites were due primarily to the soil drainage, weather during the grain fill period, and disease level. Yield was lower at the Northwest Branch Agricultural Research Station compared to the other locations due to heavy

rainfall on July 11 which caused shattering in some varieties. Variety selection should be based on disease resistance, average yield across test sites and years (Tables 2 & 3), winter hardiness, test weight and standability. Particular emphasis should be placed on FHB as this is important in reducing vomitoxin in grain.

Table 4 contains susceptibility of winter wheat varieties to various diseases in Ohio. Table 5 contains the company contact information and seed treatments used for each variety entered in the 2013 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.

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Table 1. Yield and Agronomic Characteristics of Wheat Varieties Tested in Ohio, 2013.

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	FHB	SLB	SGB	Flour	Soft- ness
			-----bu/ac-----						lb/bu	(1000)	%	in.	%		%	%	%	%	%
AGI	109B	25	63.1	86.0	97.6	93.6	93.9	86.8	56.1	13.4	0	30	141	8.0	28	35	14	71.4	60.5
AGI	206B	25	43.9	81.2	93.7	96.2	89.2	80.9	57.5	13.5	0	33	142	8.0	18	12	20	68.9	64.2
AGI	210	25	77.7	91.0	86.2	90.9	89.5	87.1	58.4	12.3	7	31	141	5.0	18	15	26	67.9	51.7
AGI	212B	25	63.4	91.2	96.9	91.6	96.1	87.9	57.8	12.6	0	32	143	8.0	18	10	8	69.2	60.8
AGI	304	25	66.8	86.0	93.6	94.5	94.4	87.1	56.5	12.3	7	32	142	8.0	46	50	41	69.1	65.4
AGI	306	25	67.0	89.7	97.3	97.8	88.9	88.2	57.6	12.9	4	33	143	8.0	53	16	6	72.0	65.8
AGI	307	25	70.8	85.7	93.0	89.2	93.8	86.5	57.6	12.5	0	33	142	8.0	17	28	14	70.0	57.1
AGI	308	25	55.8	78.4	89.5	87.1	83.5	78.9	58.8	12.8	0	32	142	5.0	31	90	32	69.2	61.4
AgriMAXX	413	25	66.1	89.2	95.9	99.6	96.5	89.5	56.6	13.8	0	31	141	7.0	29	60	42	71.7	62.5
AgriMAXX	427	25	66.1	81.6	91.7	94.1	87.0	84.1	56.6	11.5	2	32	142	8.0	32	60	42	68.9	62.9
AgriMAXX	438	25	67.3	91.9	99.7	97.6	93.5	90.0	57.5	12.3	9	33	144	8.0	47	48	8	71.7	64.0
AgriMAXX	Exp 1348	25	71.7	86.0	94.7	99.4	94.2	89.2	57.6	12.2	2	34	144	9.0	39	21	10	69.6	58.7
Beck	113	25	63.4	82.8	93.9	93.0	99.2	86.5	57.9	11.2	2	31	141	8.5	23	42	12	66.7	58.8
Beck	120	23	63.7	89.2	95.6	89.4	100.2	87.6	56.2	13.3	0	30	141	8.0	17	52	46	71.6	62.7
Beck	129	23	69.6	87.7	96.5	98.7	106.3	91.8	57.6	13.0	1	32	144	8.5	31	18	6	72.1	66.5
Beck	135	23	69.4	89.2	98.3	93.7	93.4	88.8	58.1	10.8	0	32	143	6.5	28	48	8	69.4	61.3
Buckeye	Eddie	24	67.5	91.4	97.2	99.5	103.2	91.8	57.6	11.8	4	33	144	8.5	41	20	8	71.8	64.4
Dyna-Gro	9042	26	59.4	74.3	88.9	98.5	87.7	81.8	57.1	10.2	0	29	142	6.5	27	15	16	68.3	59.7
Dyna-Gro	9053	26	57.2	91.0	99.6	97.0	97.9	88.5	55.6	11.1	2	32	143	8.5	32	48	14	69.6	62.1
Dyna-Gro	9171	26	66.3	88.0	96.1	98.8	97.4	89.3	56.4	13.7	0	30	141	8.0	22	46	10	72.0	62.1
Dyna-Gro	9223	26	68.3	86.7	100.4	99.9	90.4	89.1	57.7	12.2	0	34	144	9.0	39	20	20	71.7	66.6
Dyna-Gro	9343	26	74.9	80.7	93.1	87.8	92.1	85.7	57.6	13.0	0	33	142	8.5	15	6	12	70.9	62.0
Ebberts	727	24	76.3	85.6	89.0	93.7	90.9	87.1	59.1	11.8	4	32	141	2.0	21	14	26	67.9	50.4
Ebberts	806	24	72.9	89.6	95.5	94.8	96.8	89.9	57.7	12.2	0	36	142	8.0	31	12	16	71.9	65.6
Ebberts	815	24	63.4	80.7	96.1	98.2	90.6	85.8	56.6	11.6	0	32	142	8.0	42	38	28	69.0	64.6
Equity	Edge	35	68.0	86.1	86.6	94.1	96.3	86.2	58.1	12.9	2	34	142	6.5	30	9	14	71.0	63.0
Equity	Guardian	35	71.8	88.0	93.3	93.4	93.2	88.0	57.8	13.8	2	34	142	8.5	19	25	42	71.0	60.9
Equity	Quest	35	69.8	88.2	94.5	97.4	90.2	88.0	56.8	13.2	5	33	144	8.0	29	24	12	71.2	67.9
Equity	Sienna	35	73.2	87.6	99.1	97.5	89.3	89.3	57.6	12.1	9	35	142	8.0	35	46	26	71.9	65.0
FS Wheat	FS 602	24	65.1	86.3	89.2	100.4	96.3	87.4	56.0	14.4	0	31	141	8.5	26	55	50	71.9	62.9
FS Wheat	FS 622	24	53.6	80.7	88.6	92.3	96.7	82.4	58.7	10.5	0	31	141	8.0	24	51	10	71.4	58.9
FS Wheat	FS 625	25	68.5	87.8	94.8	98.2	93.2	88.5	56.5	11.9	10	32	142	8.0	30	50	15	69.1	66.1
FS Wheat	FS 626	25	66.9	83.4	90.8	98.2	97.3	87.3	56.5	10.8	0	30	144	6.5	24	14	6	69.0	62.5
Great Lakes CG	GLCG 1229	25	77.1	80.6	89.0	94.7	95.4	87.4	56.7	11.2	1	33	140	8.0	36	12	10	67.7	58.7
Limagrain LCS	LCS 34969	25	72.7	85.2	89.5	92.3	93.6	86.7	57.9	13.9	0	35	141	7.0	26	62	8	71.9	65.0
Limagrain LCS	LCS 38686	25	78.0	83.3	93.2	99.9	90.5	89.0	58.2	11.1	1	31	140	6.5	28	60	50	72.4	61.0
OFS	Lion	25	72.1	88.0	97.3	97.3	90.9	89.1	57.6	12.8	6	35	142	8.0	38	22	25	71.7	61.0

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	FHB	SLB	SGB	Flour	Soft- ness
			-----bu/ac-----						lb/bu	(1000)	%	in.	%		%	%	%	%	%
Pioneer Brand	25R34	25	64.9	87.4	101.6	101.0	98.0	90.6	57.8	11.4	4	33	143	5.0	66	45	12	70.8	61.3
Pioneer Brand	25R39	25	69.3	89.9	94.1	94.0	90.3	87.5	57.0	12.1	0	31	144	8.0	35	12	11	67.5	55.6
Pioneer Brand	25R40	25	63.7	91.2	93.3	99.5	97.3	89.0	57.0	10.2	0	29	143	6.5	42	55	6	69.9	64.3
Pro. Certified	Bravo	25	57.5	83.4	86.8	82.2	87.9	79.5	58.0	11.2	0	34	140	7.5	29	62	34	68.9	54.8
Pro. Certified	Sunburst	25	70.7	95.1	93.4	93.2	88.3	88.1	59.3	13.0	0	28	143	5.0	57	31	30	65.4	57.4
Pub. Certified	Bromfield	25	58.6	81.5	85.5	84.4	88.0	79.6	57.5	14.1	2	35	144	4.0	29	18	29	68.8	55.7
Pub. Certified	Freedom	25	63.6	82.4	81.4	84.4	84.5	79.3	56.5	13.6	2	34	144	6.5	45	44	30	68.4	55.2
Pub. Certified	Hopewell	25	63.1	78.2	83.8	85.2	89.5	80.0	56.0	11.3	1	34	143	5.5	39	49	11	67.8	64.1
Pub. Certified	Malabar	25	39.0	70.2	70.1	82.4	80.3	68.4	57.0	12.7	0	35	144	7.0	34	38	40	70.2	59.2
Pub. Certified	Roane	25	61.3	78.2	85.3	81.9	81.9	77.7	59.4	13.4	10	30	144	8.0	52	50	15	67.1	63.1
Rupp	RS 907	25	64.1	87.1	93.6	94.5	91.3	86.1	58.8	12.3	0	31	142	8.0	21	38	14	69.5	57.9
Rupp	RS 972	25	67.5	90.2	92.8	96.0	102.9	89.9	57.6	12.8	0	33	144	8.5	47	18	15	71.9	66.5
Rupp	RS 979	25	66.2	79.7	96.2	95.5	87.3	85.0	56.6	12.2	5	32	142	8.5	36	52	26	69.1	63.6
Seed Consultants	SC 1302	27	76.2	79.6	89.1	89.9	95.6	86.1	59.2	11.7	4	31	140	5.0	18	28	30	68.4	54.3
Seed Consultants	SC 1321	27	64.7	82.1	98.2	98.0	103.6	89.3	56.6	14.2	0	30	141	8.5	22	62	48	71.8	61.7
Seed Consultants	SC 1341	27	60.8	81.4	94.4	97.6	107.2	88.3	56.9	13.4	0	30	142	9.5	32	58	11	69.4	64.0
Seed Consultants	SC 1342	27	66.3	91.0	96.0	95.1	103.0	90.3	57.6	11.9	0	34	144	7.5	43	78	18	72.0	66.5
Shur Grow	SG-1542	22.5	73.7	84.9	87.9	93.0	93.1	86.5	58.6	11.8	4	32	140	6.0	17	52	59	68.2	54.7
Shur Grow	SG-1549	21.5	74.3	77.4	89.0	90.5	84.3	83.1	58.5	11.8	6	32	141	6.5	13	22	46	68.4	54.7
Shur Grow	SG-1552	24.3	69.2	91.4	100.2	99.1	104.0	92.8	57.8	11.6	2	33	144	8.5	33	35	28	71.8	64.4
Shur Grow	SG-1563	22.5	63.3	81.7	93.8	98.0	102.1	87.8	58.7	11.8	0	32	142	8.0	20	48	12	68.7	61.0
Stewart	SW485	25	77.6	94.3	100.5	99.9	88.6	92.2	57.7	11.5	2	37	142	7.5	33	56	26	71.8	63.6
Stewart	SW490	25	72.1	91.0	94.6	98.7	92.2	89.7	57.3	12.3	0	33	143	8.5	30	18	12	69.3	61.2
Stewart	SW500	25	71.6	84.8	97.1	92.6	96.5	88.5	57.6	12.8	0	34	142	8.0	20	6	12	70.5	60.0
Steyer	Heilman	25	75.4	90.5	98.6	91.1	88.7	88.9	57.5	11.7	1	36	142	8.0	29	42	16	71.5	63.0
Steyer	Hunker	25	71.1	90.0	93.3	94.4	95.1	88.8	57.6	12.8	2	33	144	8.0	35	20	13	72.0	66.1
Steyer	Pierson	25	75.1	86.1	92.2	90.2	90.3	86.8	57.7	13.2	0	34	142	7.0	16	9	11	70.7	63.3
Strike	215	25	67.3	84.4	95.1	92.0	101.4	88.0	56.8	12.5	2	32	141	7.5	24	80	45	69.3	64.5
Strike	220	25	67.2	90.8	94.7	96.9	100.6	90.0	57.5	12.1	4	34	144	8.0	48	20	4	72.2	66.4
Sunstar	S-1100	25	68.4	86.6	93.0	98.2	89.1	87.1	56.6	12.0	7	32	141	7.0	27	62	45	69.3	65.4
Sunstar	S-1200	25	64.9	82.1	95.9	97.0	94.5	86.9	56.2	14.2	2	31	141	8.0	23	58	10	72.1	62.8
Syngenta	SY 474	24.2	65.5	85.9	89.8	85.0	91.2	83.5	58.6	12.2	0	35	142	6.5	37	18	18	69.5	60.3
Syngenta	SY 483	24.2	65.6	93.8	94.5	99.1	94.7	89.5	56.4	12.1	0	31	144	7.0	55	32	25	69.8	63.0
Syngenta	SY 1526	24.2	54.5	71.9	83.5	84.3	84.5	75.7	57.4	10.5	0	32	140	8.5	18	24	18	69.9	57.9
Syngenta	W1104	22.5	42.4	84.5	90.3	88.1	83.8	77.8	55.9	12.8	18	31	142	7.0	33	52	46	70.0	60.5
Wellman	W 123	25	60.6	77.3	91.0	93.5	81.8	80.8	57.3	11.9	2	37	140	8.0	37	41	33	71.7	64.1

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	FHB	SLB	SGB	Flour	Soft- ness
			-----bu/ac-----						lb/bu	(1000)	%	in.	%		%	%	%	%	%
Wellman	W 125	25	70.4	87.3	100.1	96.8	92.9	89.5	57.4	11.8	1	36	142	6.5	49	42	49	71.8	62.0
Wellman	W 205	25	69.7	88.6	91.7	103.5	91.0	88.9	57.7	12.2	0	33	143	8.5	48	8	25	69.6	58.9
Wellman	W 206	25	67.7	94.2	95.8	100.9	99.4	91.6	58.4	13.1	0	32	142	8.0	19	5	5	69.4	62.2
Wellman	W 207	25	63.6	87.9	99.1	97.0	104.7	90.5	57.7	12.0	0	33	144	8.5	38	44	6	71.8	63.7
Wellman	W 208	25	74.2	85.4	93.4	91.2	93.4	87.5	57.4	13.7	0	34	142	7.0	17	8	28	71.1	60.5
Yerks	Y2201	24	37.7	79.8	86.5	88.9	79.4	74.4	57.8	13.6	0	29	142	8.0	21	14	12	68.5	63.1
Yerks	Y2313	25	63.3	84.7	94.4	96.6	92.7	86.3	57.6	12.7	6	33	144	8.0	43	48	18	72.0	67.3
	High	35.0	78.0	95.1	101.6	103.5	107.2	92.8	59.4	14.4	18	37	144	9.5	66.1	90.0	59.0	72.4	67.9
	Average	25.3	66.2	85.6	93.1	94.3	93.2	86.5	57.5	12.4	2	33	142	7.5	31.5	35.6	22.1	70.1	61.7
	Low	21.5	37.7	70.2	70.1	81.9	79.4	68.4	55.6	10.2	0	28	140	2.0	12.8	5.0	4.5	65.4	50.4
	LSD (P=0.1)		4.2	4.4	4.1	4.4	7.9	4.7	0.6		NS	1.7	0.9						
	CV		5.5	3.9	3.8	4.0	7.3	5.2	1.1		305	3.1	0.4						

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

Table 2. Yield and Agronomic Characteristics of Wheat Varieties Tested in Ohio, 2012 and 2013.

Brand	Variety	Yield						Characteristics				
		Wood	Craw	Wayn	Dark	Pick	Avg.	Test Wt.	Lodg.	Ht.	Head Date	FHB
		-----bu/ac-----						lb/bu	%	in.		%
AGI	109B	61.1	96.1	101.3	90.1	89.2	87.6	57.2	1	29	135	18
AGI	206B	53.7	89.5	102.9	88.9	85.6	84.1	58.9	0	32	135	15
AGI	304	67.4	99.7	103.7	89.6	91.6	90.4	57.3	6	31	135	35
AgriMAXX	413	67.6	97.5	105.4	95.1	92.6	91.6	57.4	0	30	134	21
AgriMAXX	427	64.6	98.1	104.3	91.1	88.5	89.3	57.4	2	31	135	24
Beck	113	66.4	94.4	103.0	89.0	95.1	89.6	59.0	1	30	134	17
Beck	120	63.5	97.4	106.2	88.0	95.2	90.0	57.2	0	29	135	17
Beck	135	69.0	99.2	102.3	90.1	87.7	89.7	59.0	2	32	137	23
Dyna-Gro	9042	62.8	93.6	103.2	92.7	87.0	87.8	58.2	2	29	135	26
Dyna-Gro	9053	64.1	100.0	108.9	92.7	92.9	91.7	56.7	1	31	137	26
Dyna-Gro	9171	64.9	100.1	104.6	95.6	93.6	91.8	57.4	0	30	135	17
Dyna-Gro	9223	67.6	100.4	110.4	98.7	88.8	93.2	58.2	2	33	137	25
Ebberts	727	72.6	93.8	100.8	86.8	88.6	88.5	59.2	2	31	134	16
Equity	Edge	65.5	96.3	95.2	86.7	89.2	86.6	58.7	1	33	135	22
Equity	Quest	69.3	98.3	97.9	87.2	86.3	87.8	57.1	3	32	137	19
Equity	Sienna	70.6	99.5	106.0	89.7	86.9	90.5	57.7	4	35	135	24
OFS	Lion	71.8	100.2	103.7	88.7	89.6	90.8	57.9	3	35	136	28
Pioneer Brand	25R34	65.5	95.7	107.8	97.7	93.4	92.0	58.4	3	32	137	45
Pioneer Brand	25R39	72.1	102.2	105.1	90.2	90.9	92.1	58.3	1	31	137	30
Pioneer Brand	25R40	67.6	101.9	104.3	92.2	90.0	91.2	58.4	2	28	136	50
Pro. Certified	Sunburst	70.0	96.8	103.4	87.8	86.5	88.9	60.5	0	28	136	41
Pub. Certified	Bromfield	64.6	94.2	94.7	83.2	84.4	84.2	58.3	2	34	137	21
Pub. Certified	Freedom	60.1	88.8	91.8	76.8	82.0	79.9	56.8	2	33	138	31
Pub. Certified	Hopewell	64.9	94.4	91.8	77.2	81.3	81.9	57.1	0	33	137	23
Pub. Certified	Malabar	50.3	91.3	85.5	79.5	79.2	77.2	57.7	3	35	138	22
Rupp	RS 972	70.0	105.5	107.1	93.1	97.5	94.6	58.2	2	32	137	38
Rupp	RS 979	67.8	94.7	103.6	92.8	85.9	88.9	57.3	3	31	135	25
Seed Consultants	SC 1302	71.0	91.2	99.8	87.5	89.0	87.7	59.3	3	31	134	18
Seed Consultants	SC 1321	64.9	98.3	103.8	90.6	97.3	91.0	57.4	1	29	134	15
Seed Consultants	SC 1341	63.9	95.1	103.0	91.4	95.3	89.8	57.7	0	29	136	19
Seed Consultants	SC 1342	67.0	107.0	107.9	94.7	96.7	94.6	58.3	1	33	137	28
Shur Grow	SG-1542	68.5	98.5	100.4	88.5	90.7	89.3	59.1	2	31	134	16
Shur Grow	SG-1549	70.3	91.9	99.5	83.1	85.6	86.1	58.9	4	32	135	11
Shur Grow	SG-1552	69.9	103.6	111.0	92.1	96.1	94.6	58.3	4	33	137	27

Table 2, continued

Brand	Variety	Yield						Characteristics				
		Wood	Craw	Wayn	Dark	Pick	Avg.	Test Wt.	Lodg.	Ht.	Head Date	FHB
		-----bu/ac-----						lb/bu	%	in.		%
Steyer	Heilman	72.4	103.4	103.6	89.3	87.3	91.2	57.8	3	35	135	27
Steyer	Hunker	72.8	106.5	105.7	90.7	90.9	93.3	58.1	1	32	137	29
Strike	215	68.4	99.4	105.9	89.7	96.1	91.9	57.5	4	31	135	25
Strike	220	68.5	103.3	106.9	93.6	92.4	93.0	58.2	2	33	137	35
Syngenta	SY 483	69.3	102.7	105.3	94.2	93.8	93.1	57.7	1	31	137	36
Syngenta	SY 1526	58.2	85.1	91.9	79.0	80.9	79.0	58.5	0	33	134	14
Syngenta	W1104	55.1	98.8	104.5	88.8	85.8	86.6	57.1	14	31	137	21
Wellman	W 123	62.7	92.0	99.2	86.5	85.4	85.2	57.9	2	35	134	26
Wellman	W 125	68.3	94.8	106.6	88.3	89.1	89.4	57.8	1	35	135	32
Wellman	W 206	68.1	97.9	109.0	94.4	91.9	92.2	58.5	1	32	135	22
Wellman	W 208	72.0	96.1	103.1	90.8	90.2	90.4	58.2	0	33	136	12
Yerks	Y2201	49.0	96.0	99.7	86.3	82.4	82.7	59.1	0	30	135	15
	High	72.8	107.0	111.0	98.7	97.5	94.6	60.5	14	35	138	50
	Average	66.0	97.4	102.6	89.4	89.5	89.0	58.1	2	32	136	24
	Low	49.0	85.1	85.5	76.8	79.2	77.2	56.7	0	28	134	11

Table 3. Yield and Agronomic Characteristics of Wheat Varieties Tested in Ohio, 2011 - 2013.

Brand	Variety	Yield						Characteristics				
		Wood *	Craw	Wayn	Dark	Pick	Avg.	Test Wt.	Lodg.	Ht.	Head Date	FHB
		-----bu/ac-----						lb/bu	%	in.		%
AGI	206B		93.9	97.1	83.9	82.2	89.3	59.4	0	34	138	13
Beck	113		96.6	97.9	81.6	87.1	90.8	59.4	1	33	138	22
Beck	135		100.2	97.5	83.1	81.4	90.6	59.1	1	35	140	20
Dyna-Gro	9042		96.3	98.1	83.5	79.7	89.4	58.4	1	32	138	24
Dyna-Gro	9053		99.6	100.4	85.2	87.4	93.2	57.0	1	34	140	25
Equity	Quest		99.5	92.8	81.0	82.8	89.0	57.4	2	35	140	19
Equity	Sienna		101.6	100.7	83.0	81.4	91.7	58.2	3	38	138	24
Pioneer Brand	25R34		99.1	100.7	90.0	85.9	93.9	58.6	2	34	139	31
Pioneer Brand	25R39		102.1	99.1	82.9	85.4	92.4	58.7	1	34	140	23
Pro. Certified	Sunburst		96.4	95.1	80.3	82.1	88.5	60.8	0	30	139	29
Pub. Certified	Bromfield		94.4	89.6	74.5	77.0	83.9	58.9	1	36	140	15
Pub. Certified	Freedom		89.6	85.6	71.6	74.4	80.3	57.0	5	36	141	24
Pub. Certified	Hopewell		93.8	86.1	73.2	76.7	82.4	57.8	0	36	140	21
Pub. Certified	Malabar		92.4	77.8	77.5	74.9	80.6	58.3	2	38	141	17
Seed Consultants	SC 1321		99.2	97.5	82.4	90.5	92.4	57.5	0	31	137	12
Seed Consultants	SC 1341		94.8	96.2	82.6	88.3	90.5	57.7	0	31	139	14
Shur Grow	SG-1549		93.8	91.6	77.2	81.9	86.1	59.4	4	34	138	9
Syngenta	SY 1526		89.3	88.1	74.9	78.1	82.6	58.5	0	35	137	12
Syngenta	W1104		100.0	98.8	84.3	82.0	91.2	57.6	10	33	139	16
Wellman	W 123		95.4	94.5	81.0	81.0	88.0	57.8	2	36	137	22
Yerks	Y2201		97.4	94.9	80.7	79.7	88.2	59.6	0	33	138	11
	High		102.1	100.7	90.0	90.5	93.9	60.8	10	38	141	31.5
	Average		96.5	94.3	80.7	81.9	88.3	58.4	2	34	139	19.2
	Low		89.3	77.8	71.6	74.4	80.3	57.0	0	30	137	9.3

* Hoytville, Wood Co. results were not published in 2011.

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

Brand	Cultivar	<u>Powdery Mildew</u>		<u>Leaf Blotch*</u>	<u>Glume Blotch</u>		<u>FHB Head Scab**</u>	
		2011	2013	2013	2012	2013	2012	2013
AGI	109B		S	MR	R	MR	MR	MR
	206B	MS	S	R	R	MR	MR	MR
	210		MR	R		MS		R
	212B		S	R		R		R
	304		S	MS	R	MS	MS	MS
	306		S	R		R		S
	307		S	MR		MR		R
	308		MR	S		MS		MR
AgriMAXX	413		MS	MS		MS	MR	MR
	427		S	MS	S	MS	MR	MR
	438		S	MS		R		MS
	Exp 1348		S	MR		MR		MR
Beck	113	MS	S	MS	R	MR	MS	MS
	120		S	MR	R	MS	MR	MR
	129		S	R		R		MR
	135	MR	MS	MS	MR	R	MR	MR
Buckeye	Eddie		S	MR		R		MR
Certified - Proprietary	Bravo	MS	MS	MS		MS		MR
	Sunburst	MR	MR	MR	MR	MS	MS	S
Certified - Public	Bromfield	MR	MR	R	MR	MS	MR	MR
	Freedom	MR	MS	MR	MS	MS	MR	MR
	Hopewell	MR	MR	MS	MR	MR	MS	MS
	Malabar	MR	MS	MR	MR	MS	MR	MR
	Roane	S	S	MS		MR		S
Dyna-Gro	9042	MR	MS	R	R	MR	MS	MS
	9053	MS	S	MS	MR	MR	MS	MS
	9171		S	MS	MR	MR	MR	MR
	9223		S	MR	MS	MR	MR	MR
	9343		S	R		MR		R
Ebberts	727		R	R	MS	MS	MR	MR
	806		S	R		MR		MR
	815		S	MR		MS		MR
Equity	Edge		MS	R	R	MR	MR	MR
	Guardian		S	MR		MS		R
	Quest	S	S	MR		MR	MR	MR
	Sienna	MS	S	MS	MR	MS	MR	MR
FS Wheat	FS 602		S	MS		S		MR
	FS 622		S	MS		R		MR
	FS 625		S	MS		MR		MR
	FS 626		MS	R		R		MR
Great Lakes CG	GLCG 1229		S	R		MR		MR
Limagrain LCS	LCS 34969		MS	MS		R		MR
	LCS 38686		MS	MS		S		MR
OFS	Lion		S	MR	R	MS	MR	MR
Pioneer Brand	25R34	S	MS	MR	MS	MR	MS	S
	25R39	MS	S	R	MR	MR	MS	MS
	25R40		MS	MS	MR	MR	S	S

Table 4, continued

Brand	Cultivar	Powdery Mildew		Leaf Blotch*	Glume Blotch		FHB Head Scab**	
		2011	2013	2013	2012	2013	2012	2013
Rupp	RS 907		S	MR		MR		R
	RS 972		S	R	R	MR	MS	MS
	RS 979		S	MS	R	MS	MR	MR
Seed Consultants	SC 1302		MR		R	MS	MR	MR
	SC 1321	MS	S	MS	MR	MS	MR	MR
	SC 1341	S	S	MS	MR	MR	R	MR
	SC 1342		MS	S	MR	MR	MR	MR
Shur Grow	SG-1542		MS	MS	MR	S	MR	MR
	SG-1549	MR	MS	MR	MS	MS	MR	MR
	SG-1552		S	MR	MR	MS	MS	MS
	SG-1563		S	MS		MR		R
Stewart	SW485		MS	MS		MS		MR
	SW490		S	R		MR		MR
	SW500		S	R		MR		R
Steyer	Heilman		S	MR	MR	MR	MS	MS
	Hunker		S	MR	MS	MR	MS	MS
	Pierson		MS	R		MR		R
Strike	215		MS	S	MR	MS	MS	MR
	220		S	MR	MS	MR	MS	MS
Sunstar	S-1100		MS	MS		MS		MR
	S-1200		S	MS		R		MR
Syngenta	SY 474		MS	R		MR		MR
	SY 483		MS	MR	MR	MS	MR	S
	SY 1526	MS	S	MR	MS	MR	MR	MR
	W1104	MS	MS	MS	S	MS	MR	MR
Wellman	W 123	MR	S	MR	S	MS	MR	MR
	W 125		MS	MR	MR	MS	MR	MS
	W 205		S	R		MS		MS
	W 206		S	R	S	MS	MS	MS
	W 207		S	MR		R		MR
	W 208		MS	R	MR	MS	MR	MR
Yerks	Y2201	MS	S	R	R	MR	MR	MR
	Y2313		S	MS		MR		MR

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

Blank spaces = no data

Reactions scored during 2011-2013. 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*

** 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

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

www.oardc.ohio-state.edu/ohiofieldcropdisease

Table 5. Ohio Wheat Performance Test, 2013 - Seed Source & Seed Treatment.

<u>Brand</u>	<u>Producer</u>	<u>Variety</u>	<u>Seed Treatment</u>
AGI	Advanced Genetics, Inc. 11491 Foundation Rd. Croton, OH 43013 740-893-2501 advancedgeneticsinc.com	109B	
		206B	
		210	
		212B	
		304	
		306	
		307	
AgriMAXX	AgriMAXX Wheat Company 7167 Highbanks Rd. Mascoutah, IL 62258 855-629-9432 agrimaxxwheat.com	308	
		413	Dividend Extreme / Cruiser
		427	Dividend Extreme / Cruiser
		438	Dividend Extreme / Cruiser
		Exp. 1348	Dividend Extreme / Cruiser
Beck	Beck's Hybrids 6767 E. 276 th St. Atlanta, IN 46031 800-937-2325 beckshybrids.com	113	Escalate
		120	Escalate
		129	Escalate
		135	Escalate
Buckeye	Powell Seeds 6300 CR 65 Ada, OH 45810 419-634-0762 buckeyehybrids.com	Eddie	Dividend Extreme / Cruiser
Certified	Ohio Seed Improvement Assn. 6150 Avery Rd., Box 477 Dublin, OH 43017 614-889-1136 ohseed.org	Bravo	Athena
		Sunburst	Athena
Dyna-Gro	Dyna-Gro Seed 6221 Riverside Dr., Suite One Dublin, OH 43017 614-761-4110 dunagroseed.com	9042	Foothold Extra / Awaken ST
		9053	Foothold Extra / Awaken ST
		9171	Foothold Extra / Awaken ST
		9223	Foothold Extra / Awaken ST
		9343	Foothold Extra / Awaken ST
Ebberts	Ebberts Field Seeds, Inc. 6840 N. SR 48 Covington, OH 45318 937-473-2521 ebbertsseeds.com	727	Dividend Extreme / SabrEx
		806	Dividend Extreme / SabrEx
		815	Dividend Extreme / SabrEx
Equity Seed	Equity Seed 16545 Southpark Dr. Westfield, IN 46074 317-910-2140	Edge	Rancona / Metastar / Macho
		Guardian	
		Quest	Rancona / Metastar / Macho
FS Wheat	GROWMARK 1701 Towanda Ave. Bloomington, IL 61702 309-557-6399 fsseed.com	Sienna	Rancona / Metastar / Macho
		FS 602	Dividend Extreme / Cruiser
		FS 622	Dividend Extreme / Cruiser
		FS 625	Dividend Extreme / Cruiser
GLCG	Great Lakes Cereal Grains 6126 Kelly Beth Court Loveland, CO 80537 920-328-8955	FS 626	Dividend Extreme / Cruiser
		GLCG 1229	Dividend Extreme

Table 5, continued

<u>Brand</u>	<u>Producer</u>	<u>Variety</u>	<u>Seed Treatment</u>
Limagrain LCS	Limagrain Cereal Seeds 2040 SE Frontage Rd. Fort Collins, CO 80525 309-569-0008 limagraincerealseeds.com	LCS 34969 LCS 38686	Dividend Extreme / Cruiser Dividend Extreme / Cruiser
OFS	Ohio Foundation Seed, Inc. 11491 Foundation Rd. Croton, OH 43013 740-893-2501	Lion	Athena
Pioneer	Pioneer Hi-Bred Int'l 59 Greif Parkway, Ste 200 Delaware, OH 43015 740-657-6120 pioneer.com	25R34 25R39 25R40	Dividend Extreme / Gaucho Dividend Extreme / Gaucho Dividend Extreme / Gaucho
Public	Ohio Seed Improvement Assn. 6150 Avery Rd, Box 477 Dublin, OH 43017 614-889-1136 ohseed.org	Bromfield Freedom Hopewell Malabar Roane	Rancona / Metastar ST Raxil - Thiram Rancona / Metastar ST Rancona / Metastar ST Rancona / Metastar ST
Rupp	Rupp Seeds, Inc. 17919 County Rd. B Wauseon, OH 43567 877-591-7333 ruppseeds.com	RS 907 RS 972 RS 979	Dividend Extreme / Cruiser Dividend Extreme / Cruiser Dividend Extreme / Cruiser
Seed Consultants	Seed Consultants 648 Miami Trace Rd. SW Washington C.H., OH 43160 800-708-2676 seedconsultants.com	SC 1302 SC 1321 SC 1341 SC 1342	Dividend Extreme / Gaucho Dividend Extreme / Gaucho Dividend Extreme / Gaucho Dividend Extreme / Gaucho
Shur Grow	Heritage Cooperative, Inc. 6239 SR 187 Mechanicsburg, OH 43044 800-231-7333 heritagecooperative.com	SG-1542 SG-1549 SG-1552 SG-1563	Warden Cereals Incentive RTA Dividend Extreme Dividend Extreme / Cruiser
Stewart	Stewart Seeds 2230 East CR 300 North Greensburg, IN 47240 800-365-SEED stewartseeds.com	SW 485 SW 490 SW 500	PolyKote / SecureKote PolyKote / SecureKote PolyKote / SecureKote
Steyer	Steyer Seeds 6154 N. CR. 33 Tiffin, OH 44883 800-231-4274 steyerseeds.com	Heilman Hunker Pierson	Dividend Extreme / Macho Dividend Extreme / Macho Dividend Extreme / Macho
Strike Genetics	Burtch Seed Company, Inc. 4742 Tama Rd. Celina, OH 45822 419-363-3713 burtchseed.com	215 220	Dividend Dividend Extreme / Cruiser

Table 5, continued

<u>Brand</u>	<u>Producer</u>	<u>Variety</u>	<u>Seed Treatment</u>
Sunstar Hybrids	Sunstar Hybrids	S-1100	Dividend Extreme
	14993 SR 17 Culver, IN 46511 877-238-7333 sunstarhybrids.com	S-1200	Dividend Extreme
Syngenta	Syngenta 520 E. 1050 S. Brookston, IN 47923 260-248-1700 agriprowheat.com	SY 483	Dividend Extreme / Cruiser
		SY 474	Dividend Extreme / Cruiser
		SY 1526	Dividend Extreme / Cruiser
		W1104	Dividend Extreme / Cruiser
Wellman	Wellman Seeds, Inc. 23778 Delphos Jennings Rd. Delphos, OH 45833 800-717-7333 wellmanseeds.com	W 123	Encase for Wheat
		W 125	Encase for Wheat
		W 205	Encase for Wheat
		W 206	Encase for Wheat
		W 207	Encase for Wheat
		W 208	Encase for Wheat
Yerks	Yerks Seed, Inc. 20202 Notestine Rd. Woodburn, IN 46797 260-657-5127	Y 2201	Dividend Extreme / Cruiser
		Y 2313	Dividend Extreme / Cruiser

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