

# 2014 OHIO WHEAT PERFORMANCE TEST



**THE OHIO STATE UNIVERSITY**

COLLEGE OF FOOD, AGRICULTURAL,  
AND ENVIRONMENTAL SCIENCES

OHIO WHEAT PERFORMANCE TEST, 2014  
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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 *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.

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. 2	Oct. 14	Oct. 1	Oct. 15	Oct. 4
Soil pH	6.4	6.6	6.5	6.8	5.7
Soil Test P (ppm)	40	95	58	34	44
Soil Test K (ppm)	183	300	235	103	153
Fertilizer (N, P, K)	117-69-93	134-0-120	128-69-90	136-0-120	114-66-62
Herbicides	Curtail	Husky	Harmony Extra Buctril	None	None
Fungicide		Prosaro	Prosaro	Prosaro	Caramba
Insecticide		Warrior	Warrior	Tombstone	Tombstone Helios
Harvest Date	July 15	July 14 & 16	July 17 & 18	July 11	July 10

### GROWING CONDITIONS

In fall 2013, wet field conditions and later than usual soybean harvest delayed wheat planting. Above average temperatures in October allowed for excellent emergence and early growth. The extended warm temperatures promoted tillering and most fields entered winter dormancy in good to excellent condition. In January and February, many areas of Ohio experienced negative air temperatures. Many areas experience above average snowfall. Wheat survival the following spring was good. Cool spring temperatures slowed wheat growth and delayed green-up. May and June temperatures were fairly cool which resulted in an extended grain fill period. Harvest was later than normal due to delayed maturation and rainfall. Lodging was greater than usual; however, grain yield was fairly high averaging between 92 and 115 bu/ac for the five locations. High grain yield is partly due to the gradual maturation of the crop resulting in an extended grain fill period.

## RESULTS

Results of the 2014 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 87 soft red winter wheat varieties evaluated in 2014 are presented in Table 1. Tables 2 and 3 contain multi-year variety performance data. Depending on variety and test site, yields varied between 76.8 and 129.9 bushels per acre and test weight ranged from 56.9 to 61.1 pounds per bushel. Yield differences between test sites were due primarily to the soil drainage, weather during the grain fill period, 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. 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 2014 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, 2014.**

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	210	24	85.9	118.4	107.8	89.0	101.9	100.6	60.0	13.5	25	36	145	2.0	20.5	87.0	13.5	66.8	54.0
AGI	214	24	91.3	107.8	101.3	93.8	94.4	97.7	59.4	16.7	39	36	147	7.0	15.4	87.0	22.0	70.4	62.1
AGI	304	24	93.2	112.9	109.9	94.4	100.8	102.2	56.9	13.5	27	35	146	8.0	32.3	87.0	23.5	69.5	63.8
AGI	306	24	89.4	114.4	107.8	93.1	104.3	101.8	57.7	13.7	20	36	147	8.5	19.9	87.0	13.5	71.9	65.9
AGI	307	24	88.4	115.9	100.6	98.8	101.0	100.9	59.5	14.4	10	36	147	8.0	15.0	33.0	32.0	70.3	62.6
AGI	308	24	86.1	104.7	105.9	82.4	89.4	93.7	59.2	14.9	24	34	146	4.0	19.1	74.5	23.5	68.8	61.2
AGI	309	24	95.3	108.7	106.2	91.0	105.8	101.4	59.4	13.7	13	36	147	8.0	22.3	87.0	23.5	67.5	61.4
AGI	109B	24	98.4	121.0	111.6	102.8	105.6	107.9	57.9	16.0	10	33	145	7.0	29.8	74.5	13.5	71.1	61.7
AGI	206B	24	76.8	125.2	99.6	99.0	96.2	99.4	59.9	15.0	12	35	146	8.0	19.6	74.5	23.5	68.0	62.5
AgriMAXX	413	25	95.0	122.1	114.9	100.9	105.4	107.7	58.1	15.4	3	34	146	8.0	25.9	74.5	32.0	71.0	60.4
AgriMAXX	427	25	91.6	112.9	105.9	88.8	107.9	101.4	57.1	12.9	16	36	146	8.5	28.0	87.0	32.0	69.1	63.3
AgriMAXX	434	25	84.7	116.3	116.1	92.4	113.4	104.6	57.8	13.9	16	33	146	9.0	22.4	74.5	23.5	69.5	63.4
AgriMAXX	438	25	93.9	112.9	106.6	92.4	109.6	103.1	57.9	13.2	30	35	148	9.0	24.7	47.5	23.5	71.4	65.3
AgriMAXX	444	25	97.0	121.4	109.5	97.1	109.4	106.9	58.0	13.1	15	36	148	8.0	13.4	87.0	32.0	71.4	65.1
AgriMAXX	447	25	97.0	116.7	113.2	98.3	108.5	106.7	58.8	13.2	6	36	149	9.0	17.1	33.0	32.0	69.0	62.0
AgriMAXX	Exp 1465	25	94.3	125.9	113.1	96.2	111.9	108.3	59.0	13.1	12	33	148	8.0	42.3	87.0	32.0	70.5	63.8
Beck	113	26	98.2	115.5	107.2	93.6	105.7	104.0	59.4	11.5	16	34	146	8.0	26.3	87.0	53.5	66.9	64.4
Beck	120	23	94.1	118.2	114.1	98.5	106.9	106.4	58.3	15.0	4	33	145	8.0	30.3	74.5	32.0	72.1	60.7
Beck	125	23	95.5	113.9	112.0	99.6	108.2	105.8	59.5	13.8	1	36	147	7.0	15.0	74.5	22.0	69.3	64.3
Beck	129	23	94.6	117.1	107.9	94.5	108.2	104.5	57.5	13.8	29	35	148	8.5	28.9	62.0	22.0	71.8	64.8
Buckeye	Granville	25	93.5	110.8	111.4	88.9	101.8	101.3	59.4	14.3	1	35	148	8.0	21.1	62.0	22.0	69.7	63.7
DOW AgroSciences	DANW1003	24	94.4	112.3	98.5	101.9	94.4	100.3	59.7	14.6	18	40	148	2.0	30.4	87.0	23.5	69.8	62.6
DOW AgroSciences	DANW1071	23	86.7	108.1	104.7	85.6	96.8	96.4	59.2	12.1	7	36	147	8.0	22.6	62.0	32.0	70.3	62.0
Dyna-Gro	9171	25	96.2	121.3	114.5	102.5	104.0	107.7	58.3	14.9	4	34	146	8.0	25.9	74.5	22.0	71.4	61.5
Dyna-Gro	9223	25	94.5	113.1	104.7	90.8	111.9	103.0	58.2	13.5	35	36	148	8.5	22.8	60.0	32.0	71.8	64.2
Dyna-Gro	9343	25	89.1	110.5	105.0	94.5	103.7	100.5	59.6	14.9	11	37	147	8.0	12.3	33.0	32.0	70.0	62.1
Dyna-Gro	9522	25	96.9	123.9	99.9	95.2	106.6	104.5	57.9	13.8	14	35	147	8.0	19.5	74.5	22.0	71.1	63.1
Dyna-Gro	9552	25	97.5	120.3	113.3	112.8	114.5	111.7	59.2	14.5	13	34	147	9.0	26.4	87.0	32.0	70.1	64.6
Dyna-Gro	WX 13631	25	93.5	125.7	110.8	106.2	106.5	108.6	60.1	12.0	15	34	146	9.0	18.3	87.0	32.0	70.0	60.5
Equity	Exp 13W34	24	94.0	109.3	113.8	91.6	110.0	103.8	58.3	13.2	2	36	149	9.5	29.9	47.5	42.0	70.1	60.2
Equity	Guardian	22	85.9	116.8	103.7	98.2	95.7	100.1	59.6	14.5	22	37	146	8.0	14.3	33.0	32.0	70.1	61.8
Limagrain LCS	L-Brand 321	24	88.2	116.2	96.1	97.3	104.2	100.4	58.8	13.8	32	34	145	8.0	21.8	87.0	32.0	71.3	63.7
Limagrain LCS	L-Brand 448	24	91.1	100.3	98.0	79.4	101.5	94.0	58.3	15.3	28	35	149	8.0	27.9	33.0	32.0	70.8	62.5
Limagrain LCS	LCS NEWS	24	94.5	113.4	104.2	98.6	99.9	102.1	59.0	14.5	32	34	145	6.5	40.9	87.0	32.0	71.5	63.6
OFS	Lion	24	91.8	114.5	110.7	95.8	105.8	103.7	58.2	13.1	27	40	146	8.0	19.8	33.0	32.0	70.6	63.7
Pioneer Brand	25R34	25	91.0	119.5	102.4	96.5	104.5	102.8	58.3	13.1	26	36	146	9.0	33.0	47.5	23.5	70.4	61.5

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	25R39	25	96.8	110.9	103.6	88.6	103.0	100.6	58.2	13.0	30	35	147	8.5	28.0	33.0	32.0	69.7	60.4
Pioneer Brand	25R40	25	101.3	111.8	118.6	95.6	109.9	107.5	58.2	11.1	8	32	147	8.0	19.7	62.0	32.0	68.8	64.0
Pioneer Brand	25R46	25	91.3	129.9	109.2	99.4	114.9	108.9	59.8	13.4	12	35	147	8.5	14.3	87.0	23.5	68.8	61.7
Pro. Certified	Bravo	25	91.4	111.4	103.0	97.3	95.4	99.7	60.1	12.0	14	37	145	9.0	22.2	74.5	42.0	69.4	58.3
Pro. Certified	Sunburst	25	91.2	110.0	102.2	94.5	107.0	101.0	61.1	14.1	3	31	148	5.5	25.1	62.0	32.0	65.9	57.6
Pub. Certified	Bromfield	25	85.6	105.1	95.5	87.6	88.1	92.4	59.4	14.8	14	36	148	4.0	14.0	33.0	32.0	69.4	57.8
Pub. Certified	Freedom	25	79.9	104.2	96.8	85.0	93.3	91.9	57.0	14.7	12	38	149	8.0	43.6	47.5	32.0	69.1	57.8
Pub. Certified	Hopewell	25	87.6	115.0	101.5	84.1	95.4	96.7	58.2	13.6	10	36	149	8.0	50.7	74.5	43.5	67.4	62.9
Pub. Certified	Malabar	25	86.7	111.9	101.2	93.2	93.5	97.3	59.1	14.5	12	40	148	8.0	19.3	74.5	43.5	68.9	60.1
Pub. Certified	Roane	25	80.9	110.2	93.1	85.7	85.1	91.0	60.9	16.2	27	33	147	9.0	23.1	62.0	43.5	66.5	61.1
Rupp	RS 907	24	98.5	116.2	107.0	97.4	99.0	103.6	59.5	13.4	12	34	146	8.0	16.1	74.5	32.0	68.8	61.7
Rupp	RS 967	24	80.8	119.5	101.6	96.8	102.4	100.2	59.8	14.9	17	35	146	6.0	13.2	33.0	32.0	67.7	63.4
Rupp	RS 972	24	93.5	123.1	108.2	97.9	107.3	106.0	57.9	13.2	30	36	148	8.0	27.8	47.5	32.0	71.9	63.8
Rupp	RS 9xp10	24	95.1	119.6	112.8	92.3	104.8	104.9	59.7	14.5	2	35	147	8.0	12.7	47.5	32.0	69.8	64.6
Seed Consultants	SC 1321™	27	94.5	118.5	111.7	100.9	104.8	106.1	57.9	15.3	8	33	146	8.0	21.6	74.5	32.0	71.5	60.9
Seed Consultants	SC 1324™	27	93.9	123.8	100.6	105.6	108.8	106.5	57.5	12.1	26	34	146	8.0	17.4	74.5	32.0	72.3	61.0
Seed Consultants	SC 1342™	27	96.6	121.1	107.2	102.1	108.7	107.1	58.1	13.6	34	37	147	8.0	20.0	62.0	32.0	71.3	65.5
Seed Consultants	SC EXP131™	27	95.6	120.1	112.6	94.1	107.4	106.0	59.7	14.1	2	35	147	8.0	11.4	33.0	32.0	69.7	63.3
Seed Consultants	SC EXP132™	27	97.0	123.7	125.4	106.4	114.2	113.4	58.7	13.1	0	34	146	8.5	20.2	87.0	43.5	67.9	64.8
Shur Grow	SG-1542	25	87.9	103.9	105.5	94.4	99.1	98.2	60.5	13.5	23	35	145	2.0	20.5	47.5	32.0	68.4	55.3
Shur Grow	SG-1544	25	98.1	110.8	108.0	82.4	111.7	102.2	58.1	12.8	18	40	146	8.0	20.2	47.5	32.0	70.8	64.3
Shur Grow	SG-1552	25	94.5	112.2	105.5	100.5	107.1	104.0	57.7	13.8	30	36	148	8.5	36.2	62.0	32.0	72.1	63.8
Shur Grow	SG-1554	25	94.2	118.2	112.6	98.7	110.3	106.8	58.7	13.4	8	36	149	9.5	26.0	33.0	32.0	69.7	60.0
Shur Grow	SG-1563	25	97.2	118.1	103.5	94.0	99.4	102.5	59.6	12.8	22	35	146	9.0	15.8	47.5	22.0	69.4	61.2
Stewart	SW485	21.5	98.4	111.1	112.6	90.5	109.9	104.5	58.5	13.0	26	40	146	7.5	18.7	47.5	22.0	70.9	64.3
Stewart	SW490	21.5	96.3	109.4	114.0	98.3	107.0	105.0	58.8	13.1	4	36	149	9.5	30.3	47.5	43.5	69.6	61.9
Stewart	SW500	21.5	89.6	111.5	103.6	91.9	101.3	99.6	59.4	14.6	18	36	147	8.5	16.7	33.0	42.0	70.6	60.3
Steyer	Dowell	25	97.8	111.9	103.7	89.5	102.0	101.0	57.4	14.2	29	36	145	8.0	19.8	47.5	32.0	69.4	63.0
Steyer	Heilman	25	95.9	113.8	108.8	99.8	108.7	105.4	58.5	13.3	19	39	146	8.0	23.4	33.0	32.0	70.4	63.4
Steyer	Hunker	25	92.6	111.0	100.9	101.7	102.9	101.8	57.6	13.6	29	36	147	8.5	30.1	62.0	32.0	72.1	64.7
Steyer	NEWS	25	93.3	123.0	100.0	98.8	96.6	102.3	59.1	13.8	40	35	145	7.0	28.5	60.0	32.0	71.8	63.0
Steyer	Pierson	25	89.9	116.5	103.4	85.0	103.8	99.7	59.5	14.9	12	37	147	8.5	9.5	33.0	32.0	70.4	61.0
Strike	215	25	94.8	109.7	107.3	98.1	107.4	103.5	57.6	12.3	25	35	146	6.5	16.5	47.5	32.0	68.6	63.9
Strike	220	25	94.3	122.1	109.6	97.9	108.4	106.5	58.0	13.2	30	36	148	8.0	19.0	47.5	22.0	72.1	63.2
Strike	403	25	94.8	123.2	126.2	103.2	106.6	110.8	59.0	14.7	0	34	146	8.5	17.8	87.0	32.0	67.8	64.3
Sunstar	S-1200	21.5	92.3	119.7	110.9	96.7	105.9	105.1	57.9	15.3	10	33	145	7.0	18.7	74.5	32.0	71.6	61.3

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.	%	%	%	%	%	%	
Sunstar	S-2000	21.5	94.6	121.2	121.5	96.3	108.3	108.4	58.7	13.9	0	34	145	8.5	14.4	62.0	32.0	68.7	65.3
Syngenta	SY 007	24.2	87.8	110.5	108.4	97.8	95.3	100.0	59.2	12.7	10	37	145	4.0	16.7	47.5	22.0	68.0	63.0
Syngenta	SY 474	24.5	84.1	107.4	105.1	78.9	102.9	95.7	59.5	12.8	15	38	148	6.0	39.0	62.0	32.0	69.1	57.6
Syngenta	SY 483	22.5	95.9	122.9	107.4	95.0	116.9	107.6	58.2	13.7	18	36	149	8.0	37.5	62.0	32.0	70.0	62.8
Syngenta	SY 547	24.2	87.6	117.1	112.0	99.5	106.1	104.5	59.7	13.0	14	36	146	6.5	20.7	47.5	23.5	68.7	57.4
Va. Tech	VA10W-21	25	92.9	115.0	112.3	98.6	101.9	104.1	60.6	13.1	14	34	146	5.0	25.9	62.0	22.0	71.4	54.9
Wellman	W 123	27	88.6	109.4	100.8	95.1	100.6	98.9	58.7	13.6	24	39	145	8.0	26.6	62.0	43.5	70.8	61.9
Wellman	W 125	27	95.2	122.5	113.3	86.7	108.3	105.2	58.4	13.1	21	39	146	8.0	19.1	47.5	32.0	71.1	62.1
Wellman	W 204	27	98.1	126.4	121.0	98.1	111.0	110.9	58.9	13.5	0	34	145	9.0	15.9	47.5	32.0	67.5	65.4
Wellman	W 205	27	93.2	119.8	113.9	98.2	110.6	107.2	58.6	13.5	6	36	149	8.5	24.9	47.5	42.0	68.9	61.6
Wellman	W 206	27	95.6	124.4	111.0	93.4	106.3	106.1	59.5	14.5	12	36	147	8.0	12.8	62.0	32.0	69.7	63.8
Wellman	W 207	27	96.3	114.2	104.6	104.3	109.3	105.7	58.0	14.8	32	37	147	8.5	22.5	62.0	42.0	71.2	64.1
Wellman	W 208	27	92.6	113.7	103.5	100.2	97.4	101.5	59.4	14.2	14	37	147	8.5	15.6	33.0	32.0	70.4	61.0
Yerks	Y2220	23	93.9	119.1	108.2	92.2	101.4	103.0	59.7	14.0	0	35	147	8.0	24.4	47.5	32.0	69.4	63.0
Yerks	Y2313	24	93.0	117.3	108.3	93.2	106.0	103.6	57.6	13.4	35	37	147	8.5	21.6	60.0	42.0	71.9	65.9
	<b>High</b>	27.0	101.3	129.9	126.2	112.8	116.9	113.4	61.1	16.7	40	40	149	9.5	50.7	87.0	53.5	72.3	65.9
	<b>Average</b>	24.7	92.5	115.8	107.6	95.2	104.2	103.1	58.8	13.8	17	36	147	7.7	22.8	60.8	30.9	69.9	62.2
	<b>Low</b>	21.5	76.8	100.3	93.1	78.9	85.1	91.0	56.9	11.1	0	31	145	2.0	9.5	33.0	13.5	65.9	54.0
	<b>LSD (P=0.1)</b>		4.1	6.6	5.0	7.1	6.1	4.7	0.7		16.9	1.5	1.1						
	<b>CV</b>		3.9	4.9	4.0	6.4	5.0	4.4	1.2		94.7	2.6	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, 2013 and 2014.**

Brand	Variety	Yield						Characteristics				
		Wood	Craw	Wayn	Dark	Pick	Avg.	Test Wt.	Lodg.	Ht.	Head Date	FHB
		-----bu/ac-----						lb/bu	%	in.	%	
AGI	210	81.8	104.7	97.0	90.0	95.7	93.8	59.2	16	34	143	19
AGI	304	80.0	99.4	101.8	94.5	97.6	94.6	56.7	17	34	144	39
AGI	306	78.2	102.1	102.5	95.5	96.6	95.0	57.6	12	34	145	37
AGI	307	79.6	100.8	96.8	94.0	97.4	93.7	58.5	5	35	144	16
AGI	308	71.0	91.5	97.7	84.8	86.5	86.3	59.0	12	33	144	25
AGI	109B	80.7	103.5	104.6	98.2	99.7	97.4	57.0	5	32	143	29
AGI	206B	60.4	103.2	96.7	97.6	92.7	90.1	58.7	6	34	144	19
AgriMAXX	413	80.5	105.7	105.4	100.3	100.9	98.6	57.4	2	32	143	27
AgriMAXX	427	78.8	97.2	98.8	91.4	97.5	92.7	56.9	9	34	144	30
AgriMAXX	438	80.6	102.4	103.2	95.0	101.5	96.6	57.7	20	34	146	36
AgriMAXX	447	84.4	101.4	103.9	98.9	101.3	98.0	58.2	4	35	146	28
Beck	113	80.8	99.1	100.6	93.3	102.4	95.2	58.7	9	32	144	25
Beck	120	78.9	103.7	104.8	94.0	103.6	97.0	57.2	2	31	143	24
Beck	129	82.1	102.4	102.2	96.6	107.3	98.1	57.6	15	34	146	30
Dyna-Gro	9171	81.2	104.7	105.3	100.6	100.7	98.5	57.4	2	32	143	24
Dyna-Gro	9223	81.4	99.9	102.5	95.4	101.2	96.1	58.0	17	35	146	31
Dyna-Gro	9343	82.0	95.6	99.0	91.1	97.9	93.1	58.6	6	35	144	14
Equity	Guardian	78.9	102.4	98.5	95.8	94.5	94.0	58.7	12	35	144	17
OFS	Lion	82.0	101.2	104.0	96.6	98.4	96.4	57.9	16	38	144	29
Pioneer Brand	25R34	77.9	103.5	102.0	98.7	101.2	96.7	58.0	15	34	145	50
Pioneer Brand	25R39	83.0	100.4	98.9	91.3	96.6	94.0	57.6	15	33	146	32
Pioneer Brand	25R40	82.5	101.5	106.0	97.6	103.6	98.2	57.6	4	31	145	31
Pro. Certified	Bravo	74.4	97.4	94.9	89.7	91.6	89.6	59.1	7	36	142	26
Pro. Certified	Sunburst	81.0	102.6	97.8	93.8	97.7	94.6	60.2	1	30	145	41
Pub. Certified	Bromfield	72.1	93.3	90.5	86.0	88.1	86.0	58.5	8	36	146	22
Pub. Certified	Freedom	71.8	93.3	89.1	84.7	88.9	85.6	56.7	7	36	146	44
Pub. Certified	Hopewell	75.4	96.6	92.7	84.7	92.5	88.4	57.1	6	35	146	45
Pub. Certified	Malabar	62.8	91.0	85.7	87.8	86.9	82.8	58.0	6	38	146	27
Pub. Certified	Roane	71.1	94.2	89.2	83.8	83.5	84.4	60.1	18	32	145	38
Rupp	RS 907	81.3	101.6	100.3	96.0	95.1	94.9	59.2	6	33	144	19
Rupp	RS 972	80.5	106.6	100.5	97.0	105.1	97.9	57.8	15	34	146	37
Seed Consultants	SC 1321™	79.6	100.3	104.9	99.4	104.2	97.7	57.2	4	32	143	22
Seed Consultants	SC 1342™	81.4	106.0	101.6	98.6	105.8	98.7	57.8	17	36	146	31



**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.		%
Shur Grow	SG-1542	80.8	94.4	96.7	93.7	96.1	92.3	59.5	13	33	143	19
Shur Grow	SG-1552	81.8	101.8	102.8	99.8	105.5	98.4	57.7	16	35	146	34
Shur Grow	SG-1563	80.3	99.9	98.7	96.0	100.8	95.1	59.2	11	34	144	18
Stewart	SW485	88.0	102.7	106.5	95.2	99.2	98.3	58.1	14	38	144	26
Stewart	SW490	84.2	100.2	104.3	98.5	99.6	97.4	58.1	2	34	146	30
Stewart	SW500	80.6	98.2	100.3	92.3	98.9	94.1	58.5	10	35	145	18
Steyer	Heilman	85.7	102.2	103.7	95.5	98.7	97.1	58.0	10	38	144	26
Steyer	Hunker	81.9	100.5	97.1	98.1	99.0	95.3	57.6	16	34	146	33
Steyer	NEWS	85.7	103.2	96.6	99.3	93.6	95.7	58.7	21	33	143	28
Steyer	Pierson	82.5	101.3	97.8	87.6	97.1	93.3	58.6	6	35	145	13
Strike	215	81.0	97.0	101.2	95.1	104.4	95.7	57.2	13	34	143	20
Strike	220	80.7	106.4	102.2	97.4	104.5	98.2	57.7	18	35	146	34
Sunstar	S-1200	78.6	100.9	103.4	96.9	100.2	96.0	57.1	6	32	143	21
Syngenta	SY 474	74.8	96.6	97.5	82.0	97.1	89.6	59.1	8	36	145	38
Syngenta	SY 483	80.7	108.3	101.0	97.1	105.8	98.6	57.3	9	34	146	46
Wellman	W 123	74.6	93.3	95.9	94.3	91.2	89.9	58.0	13	38	143	32
Wellman	W 125	82.8	104.9	106.7	91.7	100.6	97.3	57.9	11	37	144	34
Wellman	W 205	81.4	104.2	102.8	100.9	100.8	98.0	58.1	3	34	146	36
Wellman	W 206	81.6	109.3	103.4	97.1	102.9	98.9	59.0	6	34	144	16
Wellman	W 207	79.9	101.0	101.8	100.6	107.0	98.1	57.8	16	35	145	30
Wellman	W 208	83.4	99.5	98.4	95.7	95.4	94.5	58.4	7	35	145	16
Yerks	Y2313	78.2	101.0	101.4	94.9	99.3	94.9	57.6	20	35	146	32
	<b>High</b>	88.0	109.3	106.7	100.9	107.3	98.9	60.2	20	38	146	50
	<b>Average</b>	79.4	100.7	100.0	94.4	98.4	94.6	58.1	10	34	145	28
	<b>Low</b>	60.4	91.0	85.7	82.0	83.5	82.8	56.7	1	30	142	13

**Table 3. Yield and Agronomic Characteristics of Wheat Varieties Tested in Ohio, 2012 - 2014.**

Brand	Variety	Yield						Characteristics				
		Wood	Craw	Wayn	Dark	Pick	Avg.	Test Wt.	Lodg.	Ht.	Head Date	FHB
		-----bu/ac-----						lb/bu	%	in.		%
AGI	304	76.0	104.1	105.8	91.2	94.7	94.4	57.2	13	33	138	34
AGI	109B	73.6	104.4	104.7	94.3	94.7	94.3	57.4	4	31	138	22
AGI	206B	61.4	101.4	101.8	92.2	89.1	89.2	59.2	4	33	139	16
AgriMAXX	413	76.7	105.7	108.5	97.0	96.8	97.0	57.6	1	31	138	23
AgriMAXX	427	73.6	103.0	104.8	90.3	95.0	93.3	57.3	7	33	139	25
Beck	113	77.0	101.4	104.4	90.5	98.6	94.4	59.2	6	31	138	20
Beck	120	73.7	104.3	108.8	91.5	99.1	95.5	57.5	1	30	138	21
Dyna-Gro	9171	75.3	107.2	107.9	97.9	97.1	97.1	57.7	2	31	138	20
Dyna-Gro	9223	76.5	104.6	108.5	96.0	96.5	96.4	58.2	13	34	141	24
OFS	Lion	78.5	105.0	106.1	91.1	95.0	95.1	58.0	11	37	139	25
Pioneer Brand	25R34	74.0	103.7	106.0	97.3	97.1	95.6	58.3	10	33	140	41
Pioneer Brand	25R39	80.4	105.1	104.6	89.7	94.9	94.9	58.2	11	33	141	29
Pioneer Brand	25R40	78.9	105.2	109.1	93.3	96.6	96.6	58.3	4	30	140	40
Pro. Certified	Sunburst	77.1	101.2	103.0	90.0	93.3	92.9	60.7	1	29	140	36
Pub. Certified	Bromfield	71.6	97.9	94.9	84.7	85.6	86.9	58.7	6	35	141	18
Pub. Certified	Freedom	66.7	93.9	93.5	79.6	85.8	83.9	56.9	5	35	142	35
Pub. Certified	Hopewell	72.5	101.3	95.0	79.5	86.0	86.9	57.5	4	34	141	32
Pub. Certified	Malabar	62.4	98.2	90.7	84.1	84.0	83.9	58.2	6	37	141	21
Rupp	RS 972	77.8	111.4	107.5	94.7	100.8	98.4	58.1	11	34	141	34
Seed Consultants	SC 1321	74.7	105.0	106.5	94.0	99.8	96.0	57.6	3	31	138	17
Seed Consultants	SC 1342	76.8	111.7	107.6	97.2	100.7	98.8	58.2	12	34	141	25
Shur Grow	SG-1542	75.0	100.3	102.1	90.4	93.5	92.3	59.6	9	32	137	18
Shur Grow	SG-1552	78.1	106.5	109.2	94.9	99.8	97.7	58.1	12	34	141	30
Steyer	Heilman	80.2	106.8	105.3	92.8	94.4	95.9	58.1	9	36	139	26
Steyer	Hunker	79.4	108.0	104.1	94.3	94.9	96.2	57.9	11	34	141	30
Strike	215	77.2	102.8	106.3	92.5	99.9	95.7	57.5	11	32	138	22
Strike	220	77.1	109.6	107.8	95.1	97.7	97.5	58.1	12	34	141	29
Syngenta	SY 483	78.2	109.4	106.0	94.5	101.5	97.9	57.8	6	33	141	36
Wellman	W 123	71.4	97.8	99.7	89.4	90.5	89.7	58.2	9	36	138	27
Wellman	W 125	77.2	104.1	108.8	87.7	95.5	94.7	58.0	8	36	139	28
Wellman	W 206	77.3	106.7	109.7	94.0	96.7	96.9	58.8	4	33	139	19
Wellman	W 208	78.8	102.0	103.2	94.0	92.6	94.1	58.6	5	34	140	13
	<b>High</b>	80.4	111.7	109.7	97.9	101.5	98.8	60.7	13	37	142	41
	<b>Average</b>	75.2	104.1	104.4	91.7	94.9	94.1	58.2	7	33	140	26
	<b>Low</b>	61.4	93.9	90.7	79.5	84.0	83.9	56.9	1	29	137	13

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

Brand	Cultivar	Powdery Mildew		Leaf Blotch*		Glume Blotch		FHB Head Scab**	
		2013	2014	2013	2014	2013	2014	2013	2014
AGI	109B	S	MS	MR	S	MR	MS	MR	MR
	206B	S	S	R	S	MR	MS	MR	MR
	210	MR	R	R	VS	MS	MS	R	MR
	214		MS		VS		MS		MR
	304	S	S	MS	VS	MS	MS	MS	MS
	306	S	S	R	VS	R	MS	S	MS
	307	S	S	MR	MS	MR	MS	R	MR
	308	MR	MR	S	S	MS	MS	MR	MR
	309		S		VS		MS		MR
AgriMAXX	413	MS	S	MS	S	MS	MS	MR	MR
	427	S	S	MS	VS	MS	MS	MR	MR
	434		S		S		MS		MR
	438	S	S	MS	MS	R	MS	MS	MR
	444		S		VS		MS		MR
	447		S		MS		MS		MR
	Exp 1465		S		VS		MS		MS
Beck	113	S	S	MS	VS	MR	VS	MS	MS
	120	S	S	MR	S	MS	MS	MR	MR
	125		MS		S		MS		MR
	129	S	S	R	S	R	MS	MR	MR
Buckeye	Granville		S		S		MS		MR
Certified - Proprietary	Bravo	MS	S	MS	S	MS	S	MR	MR
	Sunburst	MR	MS	MR	S	MS	MS	S	MS
Certified - Public	Bromfield	MR	MR	R	MS	MS	MS	MR	MR
	Freedom	MS	S	MR	MS	MS	MS	MR	MR
	Hopewell	MR	S	MS	S	MR	S	MS	MS
	Malabar	MS	S	MR	S	MS	S	MR	MR
	Roane	S	S	MS	S	MR	S	S	MS
DOW AgroSciences	DANW1003		R		VS		MS		MR
	DANW1071		S		S		MS		MR
Dyna-Gro	9171	S	S	MS	S	MR	MS	R	MR
	9223	S	S	MR	S	MR	MS	MR	MR
	9343	S	S	R	MS	MR	MS	R	MR
	9522		S		S		MS		MR
	WX 13631		S		VS		MS		MR
	9552		S		VS		MS		MR
Equity	Exp 13W34		S		MS		S		MR
	Guardian	S	S	MR	MS	MS	MS	R	MR
Limagrain LCS	L-Brand 321		S		VS		MS		MR
	L-Brand 448		S		MS		MS		MR
	LCS NEWS	MS	MS	MS	VS	S	MS	MR	MS
OFS	Lion	S	S	MR	MS	MS	MS	MR	MR
Pioneer Brand	25R34	MS	S	MR	MS	MR	MS	S	MS
	25R39	S	S	R	MS	MR	MS	MS	MR
	25R40	MS	S	MS	S	R	MS	S	MS
	25R46		S		VS		MS		MR
Rupp	RS 907	S	S	MR	S	MR	MS	R	MR

**Table 4, continued**

Brand	Cultivar	Powdery Mildew		Leaf Blotch*		Glume Blotch		FHB Head Scab**	
		2011	2013	2013	2014	2012	2013	2012	2013
Rupp	RS 967		MS		MS		MS		MR
	RS 972	S	S	R	MS	MR	MS	MS	MS
	RS 9xp10		S		MS		MS		MR
Seed Consultants	SC EXP131™		S		MS		MS		MR
	SC EXP132™		S		VS		S		MR
	SC 1321™	S	S	MS	S	MS	MS	MR	MR
	SC 1324™		S		S		MS		MR
Shur Grow	SC 1342™	MS	S	S	S	MR	MS	MR	MR
	SG-1542	MS	R	MS	MS	S	MS	MR	MR
	SG-1544		S		MS		MS		MR
	SG-1552	S	S	MR	S	MS	MS	MS	MS
	SG-1554		S		MS		MS		MR
Stewart	SG-1563	S	S	MS	MS	MR	MS	R	MR
	SW485	MS	MS	MS	MS	MS	MS	MR	MR
	SW490	S	S	R	MS	MR	S	MR	MR
	SW500	S	S	R	MS	MR	S	R	MR
Steyer	Dowell		S		MS		MS		MR
	Heilman	S	S	MR	MS	MR	MS	MS	MR
	Hunker	S	S	MR	S	MR	MS	MS	MS
	NEWS		MS		S		MS		MR
	Pierson	MS	S	R	MS	MR	MS	R	R
Strike	215	MS	MS	S	MS	MS	MS	MR	MR
	220	S	S	MR	MS	R	MS	MS	MR
	403		S		VS		MS		MR
Sunstar	S-1200	S	MS	MS	S	R	MS	MR	MR
	S-2000		S		S		MS		MR
Syngenta	SY 007		MR		MS		MS		MR
	SY 474	MS	MS	R	S	MR	MS	MR	MS
	SY 483	MS	S	MR	S	MS	MS	S	MS
	SY 547		MS		MS		MS		MR
Va. Tech	VA10W-21		MS		S		MS		MR
Wellman	W 123	S	S	MR	S	MS	S	MR	MR
	W 125	MS	S	MR	MS	MS	MS	MS	MR
	W 204		S		MS		MS		MR
	W 205	S	S	R	MS	MS	S	MS	MR
	W 206	S	S	R	S	R	MS	MS	MR
	W 207	S	S	MR	S	R	S	MR	MR
	W 208	MS	S	R	MS	MS	MS	R	MR
	Yerks	Y2220		S		MS		MS	
	Y2313	S	S	MS	S	MR	S	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](http://www.oardc.ohio-state.edu/ohiofieldcropdisease)

**Table 5. Ohio Wheat Performance Test, 2014 - Seed Source & Seed Treatment.**

<b>Brand</b>	<b>Producer</b>	<b>Variety</b>	<b>Seed Treatment</b>
AGI	Advanced Genetics, Inc. 11491 Foundation Rd. Croton, OH 43013 740-893-2501 advancedgeneticsinc.com	109B	Nipsit Suite Athena
		206B	
		210	Rancona / Metalaxyl / Macho
		214	
		304	
		306	
		307	
		308	
AgriMAXX	AgriMAXX Wheat Company 7167 Highbanks Rd. Mascoutah, IL 62258 855-629-9432 agrimaxxwheat.com	413	Vibrance Extreme / Cruiser
		427	Vibrance Extreme / Cruiser
		434	Vibrance Extreme / Cruiser
		438	Vibrance Extreme / Cruiser
		444	Vibrance Extreme / Cruiser
		447	Vibrance Extreme / Cruiser
		Exp. 1465	Vibrance Extreme / Cruiser
		Beck	Beck's Hybrids 6767 E. 276 <sup>th</sup> St. Atlanta, IN 46031 800-937-2325 beckshybrids.com
120	Escalate		
125	Escalate		
129	Escalate		
Buckeye	Powell Seeds 6300 CR 65 Ada, OH 45810 419-634-0762 buckeyehybrids.com	Granville	Vibrance Extreme / Cruiser
Certified	Ohio Seed Improvement Assn. 6150 Avery Rd., Box 477 Dublin, OH 43017 614-889-1136 ohseed.org	Bravo	Rancona / Metastar ST
		Sunburst	Athena
DOW AgroScience	DOW AgroSciences 10640 Petty Street Ailsa Craig, Ontario 519-232-4341	DANW1003	Vibrance / Cruiser Maxx
		DANW1071	Vibrance / Cruiser Maxx
Dyna-Gro	Dyna-Gro Seed 6221 Riverside Dr., Suite 1 Dublin, OH 43017 614-761-4110, ext 2 dynagroseed.com	9171	Foothold Extra / Awaken ST
		9223	Foothold Extra / Awaken ST
		9343	Foothold Extra / Awaken ST
		9522	Vibrance Extreme / Cruiser
		9552	Vibrance Extreme / Cruiser
		WX 13631	Vibrance Extreme / Cruiser
Equity Seed	Equity Seed P.O. Box 978 Westfield, IN 46074 317-910-2140	Guardian Exp 13W34	Athena IM

**Table 5, continued**

<b><u>Brand</u></b>	<b><u>Producer</u></b>	<b><u>Variety</u></b>	<b><u>Seed Treatment</u></b>
Limagrain LCS	Limagrain Cereal Seeds 257 E. Hail Bushnell, IL 61422 309-569-0008 limagraincerealseeds.com	L-Brand 321 L-Brand 448 LCS News	Warden Cereal / Maxium Rancona / Apron / Macho Athena / Metalaxyl
OFS	Ohio Foundation Seed, Inc. 11491 Foundation Rd. Croton, OH 43013 740-893-2501	Lion	Rancona / Metalaxyl / Macho
Pioneer	Pioneer Hi-Bred Int'l 59 Greif Parkway, Ste 200 Delaware, OH 43015 740-657-6120 pioneer.com	25R34 25R39 25R40 25R46	Vibrance Extreme Vibrance Extreme Vibrance Extreme
Public	Ohio Seed Improvement Assn. 6150 Avery Rd., Box 477 Dublin, OH 43017 614-889-1136 ohseed.org	Bromfield Freedom Hopewell Malabar Roane	Athena Athena Athena Athena Athena
Public	Virginia Polytechnic Inst. & Virginia Crop Improvement 9225 Atlee Branch Lane Mechanicsville, VA 23116 804-472-3500 virginiacrop.org	VA10W-21	Raxil MD / Mertect / Storcide II
Rupp	Rupp Seeds, Inc. 17919 County Rd. B Wauseon, OH 43567 877-591-7333 ruppseeds.com	RS 907 RS 967 RS 972 RS 9xp10	Vibrance Extreme / Cruiser Vibrance Extreme / Cruiser Vibrance Extreme / Cruiser Vibrance Extreme / Cruiser
Seed Consultants	Seed Consultants 648 Miami Trace Rd. SW Washington C.H., OH 43160 800-708-2676 seedconsultants.com	SC 1321™ SC 1324™ SC 1342™ SC EXP131™ SC EXP132™	Dividend Extreme / Gaucho Dividend Extreme Dividend Extreme / Gaucho Dividend Extreme Dividend Extreme
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 SG-1563	Warden Cereals  Warden Cereals  Dividend Extreme
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

**Table 5, continued**

<b>Brand</b>	<b>Producer</b>	<b>Variety</b>	<b>Seed Treatment</b>
Steyer	Steyer Seeds P.O. Box 209 Old Fort, OH 44861 800-231-4274 steyerseeds.com	Dowell Heilman Hunker News Pierson	Dividend / Apron / Vibrance Dividend / Apron / Vibrance Dividend / Apron / Vibrance Dividend / Apron / Vibrance Dividend / Apron / Vibrance
Strike Genetics	Burtch Seed Company, Inc. 4742 Tama Rd. Celina, OH 45822 419-363-3713 burtchseed.com	215 220 403	Vibrance / Cruiser Maxx Vibrance / Cruiser Maxx Vibrance / Cruiser Maxx
Sunstar Hybrids	Sunstar Hybrids 14993 SR 17 Culver, IN 46511 574-842-2775 sunstarhybrids.com	S-1200 S-2000	Vibrance Extreme / Cruiser Vibrance Extreme / Cruiser
Syngenta	Syngenta 7934 Bears Pass Churubusco, IN 46723 260-413-2676 agriprowheat.com	SY 007 SY 474 SY 483 SY 547	Cruiser Maxx / Vibrance Cereals Cruiser Maxx / Vibrance Cereals Cruiser Maxx / Vibrance Cereals Cruiser Maxx / Vibrance Cereals
Wellman	Wellman Seeds, Inc. 23778 Delphos Jennings Rd. Delphos, OH 45833 800-717-7333 wellmanseeds.com	W 123 W 125 W 204 W 205 W 206 W 207 W 208	Encase for Wheat 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