

OHIO WHEAT PERFORMANCE TEST, 2017

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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 25 feet long. Participating companies specified the seeding rate used for each of their varieties. Tests were planted within fourteen days after the fly-free date and approximately 30 pounds of nitrogen/acre was applied at planting followed by the addition of 80-100 pounds/acre in early spring. Herbicides, insecticides, and fungicides were applied as needed. The following data were collected:

Yield is reported in bushels/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/lb).

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. Average of Wood, Wayne, and Crawford locations. (Example: Day 135 = May 15)

Powdery mildew (PM) Powdery mildew (caused by *Blumeria graminis* f. sp. *tritici*) was evaluated on a 0 to 10 scale at Wooster at the heading (Feekes growth stage 10.5) growth stage. Varieties were then ranked as Susceptible (S: score \geq 8), Moderately Susceptible (MS: score $>$ 5 and $<$ 8), Moderately Resistant (MR: score $>$ 3 and $<$ 5) and Resistant (R: score $<$ 3).

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).

Glume Blotch (SGB) and Leaf Blotch (SLB) Varieties were evaluated for *Stagonospora* leaf and glume blotch in an inoculated, mist-irrigated disease screening nursery at Wooster. Both SLB and SGB severity were rated at about Feekes growth stage 11.3 as the average percent flag 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

County	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
Fly-Free Date	Sept. 23	Sept. 26	Sept. 26	Sept. 29	Oct. 1
Plant Date	Oct. 10	Oct. 7	Oct. 11	Oct. 6	Oct. 12
Soil pH	6.4	6.5	6.6	6.7	6.6
Soil P (ppm)	56	31	39	50	29
Soil K (ppm)	237	151	168	126	170
Fertilizer (N,P,K)	120-78-78	128-0-120	119-69-90	135-0-45	118-66-60
Herbicides	Stinger	Harmony	Harmony	Harmony	Moxy 2E
		Extra	Extra SG,	Extra SG	
			Broclean		
Fungicide	Prosaro	Prosaro	Prosaro	Caramba	Prosaro
Insecticide	None	Proaxis	Warrior II	None	Tombstone
Harvest Date	July 5	July 9	July 9	July 2	June 21

Ohio Wheat Performance Test Sites for 2017



GROWING CONDITIONS

In fall 2016, wheat was planted at three out of the five locations within two weeks of the fly-free date. Wheat was planted 17 and 15 days after the fly-free date at the Wood County and Wayne County locations, respectively, due to 1.3-1.4 inch of rainfall between September 26 and October 3. Slightly above average temperatures through December promoted early growth, and wheat entered dormancy in good to excellent condition. Wheat growth and development were a week to ten days earlier than normal due to above average temperatures in March and April. Generally, harvest conditions were favorable and earlier than normal. Overall, grain test weight averaged 56.0 lb/bu (compared to an average test weight of 58.4 lb/bu in 2016). Grain yield averaged between 87.1 and 109.1 bu/acre at the five locations.

RESULTS

Results of the 2017 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 74 soft red winter wheat varieties evaluated in 2017 are presented in Table 1. Tables 2 and 3 contain multi-year variety performance data. Depending on variety and test site, yields varied between 71.2 and 122.3 bushels per acre and test weight ranged from 54.1 to 57.5 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 2017 wheat performance test.

This report can be found on the Internet at: www.oardc.ohio-state.edu/wheattrials. 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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THE OHIO STATE UNIVERSITY

COLLEGE OF FOOD, AGRICULTURAL,
AND ENVIRONMENTAL SCIENCES

Table 1. Yield and Agronomic Characteristics of Wheat Varieties Tested in Ohio, 2017.

Brand	Variety	Seeds/Ft./Row	Yield						Characteristics						
			Wood	Crawford	Wayne	Darke	Pickaway	Avg.	Test Wt.	Seeds	Lodg.	Ht.	Heading	Flour	Softness
			-----bu/ac-----						lb/bu	lb.	%	in.	Date	%	%
AGI	111	25	91.8	101.7	103.0	84.6	93.9	95.0	55.3	11.9	0	35	134	66.1	49.5
AGI	307	25	104.3	111.9	108.7	76.1	87.8	97.8	56.2	13.2	0	41	135	69.3	60.2
AGI	401	25	111.2	105.9	115.3	74.4	94.8	100.3	55.3	14.9	0	40	136	69.7	58.7
AGI	109B	25	113.6	109.6	112.2	82.2	88.0	101.1*	55.5	14.3	0	35	132	71.9	58.7
AGI	216B	25	106.8	102.7	108.8	76.9	82.0	95.4	56.2	10.4	0	38	133	70.4	58.8
AGI	217B	25	113.4	108.7	117.4	98.5	97.4	107.1*	56.2	11.9	0	38	135	71.8	63.1
AGI	Bolt	28	105.7	103.8	109.3	89.6	87.6	99.2	56.3	14.9	0	38	135	64.4	61.3
AgriMAXX	413	27	113.2	112.4	111.2	80.4	94.8	102.4*	55.5	14.0	0	35	132	71.7	61.7
AgriMAXX	444	27	112.2	114.0	112.3	85.8	96.9	104.2*	56.1	11.9	0	38	136	72.0	63.3
AgriMAXX	446	27	110.4	116.1	119.7	85.8	92.7	104.9*	56.8	12.0	0	37	136	71.8	61.2
AgriMAXX	454	27	115.2	118.3	116.5	94.9	99.5	108.9*	56.4	11.8	0	37	136	72.2	64.6
AgriMAXX	463	27	104.9	96.0	105.9	81.8	92.9	96.3	55.1	11.6	0	36	134	67.8	55.2
AgriMAXX	464	27	108.7	92.6	111.7	80.5	85.1	95.7	54.1	11.7	0	39	133	67.9	60.2
AgriPro	SY 007	26.2	103.3	103.5	99.2	77.1	82.9	93.2	56.2	12.8	0	38	132	68.4	60.6
AgriPro	SY 100	25.3	116.8	118.7	118.6	95.5	95.7	109.1**	54.3	11.9	1	36	136	71.0	63.1
AgriPro	SY 483	25.3	119.4	109.5	111.0	96.2	100.0	107.2*	55.8	11.6	0	39	136	70.3	58.6
AgriPro	SY 547	26.2	108.0	117.2	112.6	83.8	94.3	103.2*	55.8	12.1	0	40	133	68.5	54.2
Beck	123	25	112.1	109.8	112.3	82.0	85.1	100.3	56.3	12.5	0	40	133	68.9	59.6
Beck	125	25	114.5	107.2	108.3	76.5	85.1	98.3	56.7	13.8	0	38	134	69.3	60.9
Beck	128	25	113.3	103.1	118.3	92.3	99.3	105.3*	56.2	11.8	0	37	136	71.7	63.5
Certified	Freedom	25	105.1	92.3	98.1	73.1	86.5	91.0	54.6	13.3	1	40	136	69.2	56.6
Certified	Hopewell	25	94.2	99.7	91.9	71.2	78.7	87.1	55.6	11.7	0	42	136	68.0	57.5
Certified	Kokosing	25	104.5	106.7	111.7	90.7	85.6	99.9	55.8	11.1	0	39	133	71.7	54.8
Certified	Malabar	25	109.2	100.2	92.7	76.5	85.0	92.7	55.9	14.3	0	42	137	69.4	60.3
Certified	Starburst	28	107.9	94.5	108.9	79.2	96.8	97.4	57.5	12.1	0	35	136	66.5	51.0
Certified	Sunburst	28	105.7	94.2	110.8	80.8	96.9	97.7	57.5	12.8	0	36	137	66.2	50.2
CROPLAN	9203	25	105.5	106.7	111.1	89.3	85.7	99.7	56.4	11.5	0	38	136	70.4	59.1
CROPLAN	9415	25	111.9	117.1	121.2	87.5	83.7	104.3*	56.5	12.6	0	38	136	71.6	64.9
CROPLAN	9606	25	118.1	117.0	118.2	90.2	95.9	107.9*	55.2	10.6	1	38	135	72.6	57.5
Dyna-Gro	9522	25	116.2	112.9	114.7	85.6	91.7	104.2*	56.2	12.8	0	39	135	72.0	64.0
Dyna-Gro	9552	25	114.7	107.9	116.5	88.0	95.1	104.4*	56.5	12.4	0	38	136	72.0	60.2
Dyna-Gro	9692	25	114.1	108.9	119.9	98.3	94.5	107.2*	56.3	11.4	0	38	135	71.7	62.4
Dyna-Gro	9701	25	111.2	112.8	114.2	86.2	94.4	103.8*	56.4	11.1	0	39	135	69.4	53.4
Dyna-Gro	9750	25	106.5	95.5	105.8	88.7	92.0	97.7	55.1	11.7	0	36	135	67.9	56.2
Dyna-Gro	9772	25	108.1	95.8	105.6	74.1	83.5	93.4	54.2	11.8	0	39	134	68.4	59.5
Dyna-Gro	9862	25	114.5	110.1	108.9	91.1	100.3	105.0*	56.6	12.9	0	37	136	72.4	46.3
Ebberts	903	25	110.3	108.5	111.5	84.8	94.7	102.0*	56.4	12.2	0	36	136	73.1	48.2
Ebberts	911	27	103.2	94.2	109.5	86.4	88.8	96.4	54.9	11.8	0	36	135	68.3	55.8
Ebberts	916	25	110.5	101.5	117.3	83.4	92.4	101.0*	57.5	11.4	0	37	133	72.8	57.6
Ebberts	936	25	115.2	113.0	118.5	98.0	92.4	107.4*	56.4	11.6	0	37	136	72.1	63.3
Ebberts	E3201	25	114.0	119.9	117.5	90.8	90.6	106.6*	56.1	11.8	1	39	133	72.5	60.1
Hiser	L-214	25	98.7	107.0	108.2	79.4	91.0	96.9	55.9	11.8	0	36	130	70.0	62.8
OFSI	Lion	25	105.0	99.1	106.4	77.2	92.9	96.1	56.3	12.5	0	37	132	68.7	59.2
Rupp	RS 902	24	113.6	108.7	113.7	95.3	99.2	106.1*	56.2	11.8	0	37	136	72.1	63.3
Rupp	RS 910	24	112.6	104.2	111.0	81.2	93.6	100.5*	56.8	14.0	0	39	134	69.5	60.4
Rupp	RS 961	24	111.2	109.1	112.0	92.8	97.1	104.5*	56.6	12.5	0	36	136	72.5	45.6
Rupp	RS 972	24	114.0	116.1	121.8	86.4	95.3	106.7*	56.0	12.0	0	39	135	72.6	61.5
Seed Consultants	SC 13S07™	27	104.8	98.9	108.4	72.7	91.8	95.3	54.4	12.3	0	39	133	67.6	59.1
Seed Consultants	SC 13S17™	27	102.0	108.8	109.7	81.6	88.8	98.2	56.1	10.7	0	35	132	72.0	55.3
Seed Consultants	SC 13S26™	27	110.1	111.5	113.0	93.2	99.1	105.4*	56.5	11.8	0	37	135	71.8	63.1
Seed Consultants	SC 13S37™	27	109.8	109.1	114.8	89.3	97.9	104.2*	56.4	13.6	0	37	136	72.2	44.3
Shur Grow	SG-1537S	28	102.0	94.2	108.5	79.6	93.3	95.5	55.1	12.3	0	36	135	68.4	55.4
Shur Grow	SG-1544	26	111.5	106.5	109.1	85.2	94.6	101.4*	55.1	11.8	0	43	133	70.5	58.7
Shur Grow	SG-1546S	28	111.5	107.3	122.3	93.3	93.8	105.6*	56.0	11.6	0	38	136	71.6	63.0
Shur Grow	SG-1547S	28	110.3	108.2	117.2	94.6	99.9	106.0*	56.5	12.1	0	36	136	72.7	47.3
Shur Grow	SG-1552	26	113.0	116.6	118.4	90.5	91.4	106.0*	55.9	11.7	0	39	135	72.5	62.1
Steyer	Berwick	25	111.7	105.2	111.9	85.3	91.5	101.1*	56.4	12.7	0	36	136	72.8	44.8
Steyer	Haubert	25	110.8	114.5	117.2	94.7	97.6	107.0*	56.3	11.8	0	37	135	71.9	62.1
Steyer	Wharton	25	103.7	110.6	106.0	76.3	78.0	94.9	56.1	10.5	0	35	133	72.3	53.7

Table 1. Yield and Agronomic Characteristics of Wheat Varieties Tested in Ohio, 2017. (continued)

Brand	Variety	Seeds/Ft./Row	Yield						Characteristics						
			Wood	Crawford	Wayne	Darke	Pickaway	Avg.	Test Wt.	Seeds/lb.	Lodg.	Ht.	Heading	Flour	Softness
			-----bu/ac-----						lb/bu	(1000)	%	in.	Date	%	%
Strike Genetics	403	24	115.9	113.5	114.7	92.0	96.1	106.4*	55.5	12.5	0	37	133	69.3	64.0
Strike Genetics	603	24	108.0	105.1	116.5	91.8	97.0	103.7*	56.1	11.9	0	38	136	71.8	62.8
Strike Genetics	803	24	114.9	101.9	114.9	88.7	95.6	103.2*	56.6	13.1	0	37	136	72.7	45.5
Va. Tech	Hilliard	25	102.1	108.8	111.9	77.3	85.3	97.1	56.9	12.4	0	38	134	68.5	59.6
Wellman	W 204	26	116.4	111.2	112.6	94.8	97.9	106.6*	55.6	11.5	0	36	132	68.0	57.5
Wellman	W 206	26	109.2	110.6	106.8	83.0	91.8	100.3	56.8	14.1	0	38	133	69.7	60.0
Wellman	W 302	26	114.9	117.4	115.0	90.4	100.7	107.7*	56.5	11.7	0	38	133	72.6	59.8
Wellman	W 303	26	97.1	99.4	97.5	90.9	89.2	94.8	55.4	12.2	3	35	134	65.9	47.4
Wellman	W 304	26	114.8	115.9	115.3	100.5	96.7	108.6*	56.5	12.0	0	37	135	71.9	63.0
Wellman	W 305	26	109.6	113.4	114.0	87.7	91.7	103.3*	56.2	13.3	0	36	136	72.7	44.9
Wellman	W 312	26	117.2	116.1	118.4	90.2	99.2	108.2*	55.2	11.1	0	37	133	71.1	52.3
Wellman	W 316	26	102.6	114.9	117.0	85.4	104.0	104.8*	55.7	12.0	0	40	136	72.1	46.0
Yerks	Y2313	24.2	113.9	116.0	119.1	85.6	96.8	106.3*	56.0	11.9	0	38	135	72.2	60.8
Yerks	Y917	24.2	109.2	108.3	108.6	83.5	96.6	101.2*	56.3	12.9	0	36	136	72.5	49.0
Yerks	Y925	24.2	113.0	109.9	119.2	97.5	98.1	107.5*	56.5	11.8	0	38	136	71.9	63.5
	High	28.0	119.4	119.9	122.3	100.5	104.0	109.1	57.5	14.9	3	43	137	73.1	64.9
	Average	25.6	109.7	107.7	112.0	86.2	92.8	101.7	56.0	12.2	0	38	135	70.5	57.5
	Low	24.0	91.8	92.3	91.9	71.2	78.0	87.1	54.1	10.4	0	35	130	64.4	44.3
	LSD (P=0.1)		5.13	7.3	5.51	7.700	7.62	8.8	1.3			1.2	1.8		
	CV		3.48	5.9	4.21	7.7	7.02	13.0	3.0			4.9	1.6		

**Highest Yielding Variety

*Not statistically different then the highest yielding variety.

Table 2. Yield and Agronomic Characteristics of Wheat Varieties Tested in Ohio, 2016 and 2017.

Brand	Variety	Yield						Characteristics			
		Wood	Wayne	Wooster	Darke	Pick	Avg.	Test Wt.	LG %	Ht. in.	Heading Date
		-----bu/ac-----						lb/bu			
AGI	111	91.6	103.7	117.3	89.3	96.8	99.7	57.6	2	35	139
AGI	307	100.0	106.9	107.2	88.2	88.6	98.2	57.5	2	41	139
AGI	401	100.8	106.1	113.3	85.7	95.3		56.2	1	42	140
AGI	109B	104.3	113.6	117.4	89.8	93.5	103.7	56.6	0	35	138
AGI	216B	100.7	103.7	113.4	88.8	93.9	100.1	58.1	0	39	137
AGI	217B	106.6	110.9	118.3	109.5	103.2	109.7	57.4	2	39	139
AGI	Bolt	97.5	107.5	109.8	96.4	96.6	101.5	57.7	1	39	139
AgriMAXX	413	108.8	115.5	123.7	93.8	96.7	107.7	57.2	0	36	137
AgriMAXX	444	107.3	113.8	114.6	98.3	101.8	107.1	57.4	0	38	140
AgriMAXX	446	104.2	116.3	117.6	97.5	94.9	106.1	57.9	1	37	140
AgriMAXX	454	111.5	114.6	115.9	103.9	99.1	109.0	57.2	1	38	140
AgriPro	SY 007	99.0	106.7	105.1	85.8	85.9	96.5	57.1	1	39	137
AgriPro	SY 100	109.3	121.1	124.8	109.5	100.4	113.0	56.1	2	37	140
AgriPro	SY 483	111.8	113.3	114.5	106.5	103.1	109.8	56.8	2	40	140
AgriPro	SY 547	105.4	119.9	122.6	100.0	102.0	110.0	57.5	2	40	138
Beck	123	104.7	108.6	115.0	97.4	95.2	104.2	57.5	2	41	137
Beck	125	100.1	112.8	114.4	92.9	93.2	102.7	58.2	1	38	139
Beck	128	104.9	111.5	117.8	105.2	103.2	108.5	57.3	0	38	140
Certified	Freedom	98.3	93.7	102.1	86.4	85.2	93.1	55.4	5	42	140
Certified	Hopewell	92.6	102.1	106.0	88.9	86.0	95.1	56.8	0	41	139
Certified	Kokosing	97.4	109.0	114.2	95.9	96.5	102.6	56.2	0	40	137
Certified	Malabar	101.4	101.9	98.5	85.0	86.7	94.7	57.4	1	44	141
Certified	Sunburst	100.8	99.4	115.3	93.7	99.5	101.7	58.2	1	36	140
Dyna-Gro	9522	110.9	112.1	117.8	94.7	98.5	106.8	57.4	0	39	140
Dyna-Gro	9552	105.6	112.6	121.8	103.2	97.8	108.2	58.1	1	38	140
Dyna-Gro	9692	106.9	110.8	118.2	107.9	99.2	108.6	57.4	0	38	140
Ebberts	936	107.5	114.1	117.3	102.2	100.8	108.4	57.1	0	39	140

Brand	Variety	Yield						Characteristics			
		Wood	Wayne	Wooster	Darke	Pick	Avg.	Test Wt.	LG %	Ht. in.	Heading Date
		-----bu/ac-----						lb/bu			
Hiser	L-214	102.3	114.9	115.8	96.6	97.8	105.5	57.3	2	38	135
OFSI	Lion	101.1	105.3	112.4	86.4	99.9	101.0	56.6	0	40	137
Rupp	RS 910	102.8	108.3	119.0	95.6	98.9	104.9	58.4	1	39	139
Rupp	RS 972	108.2	118.9	123.7	97.2	100.6	109.7	56.8	2	39	139
Seed Consultants	SC 13S07™	102.0	105.0	113.5	86.1	96.5	100.6	56.0	0	39	138
Seed Consultants	SC 13S26™	103.8	112.3	115.0	104.0	99.5	106.9	57.5	2	38	139
Shur Grow	SG-1544	104.7	108.3	116.5	99.1	100.8	105.9	56.1	0	42	138
Shur Grow	SG-1546S	103.3	111.7	119.4	102.3	100.2	107.3	56.9	3	38	140
Shur Grow	SG-1552	109.4	113.4	120.6	99.6	97.6	108.1	56.7	6	39	139
Steyer	Haubert	107.1	114.9	114.2	104.9	101.7	108.5	57.3	1	38	139
Steyer	Wharton	99.8	105.7	114.9	90.1	85.4	99.2	57.8	0	36	138
Strike Genetics	403	106.6	117.0	115.3	104.8	105.6	109.8	56.8	0	37	138
Strike Genetics	603	103.6	109.8	118.4	99.1	101.9	106.5	57.0	1	38	140
Va. Tech	Hilliard	103.0	108.0	116.1	88.1	94.7	102.0	58.2	1	38	138
Wellman	W 204	114.2	113.5	120.0	110.1	105.7	112.7	57.0	1	37	137
Wellman	W 206	103.7	116.0	114.5	93.2	95.8	104.6	58.3	1	38	138
Wellman	W 303	94.2	104.6	111.9	102.4	94.0	101.4	57.2	3	36	139
Wellman	W 304	108.7	113.7	118.4	101.9	104.6	109.5	57.5	0	38	140
Yerks	Y2313	100.6	115.7	120.8	97.2	103.4	107.5	56.7	2	39	140
Yerks	Y925	106.9	111.0	119.3	101.9	105.7	109.0	57.2	0	38	140
	High	114.2	121.1	124.8	110.1	105.7	113.0	58.4	5.5	43.6	141.0
	Average	103.7	110.4	115.6	97.0	97.5	104.8	57.2	1.1	38.5	138.8
	Low	91.6	93.7	98.5	85.0	85.2	93.1	55.4	0.0	35.2	135.3

Table 3. Yield and Agronomic Characteristics of Wheat Varieties Tested in Ohio, 2015–2017.

Brand	Variety	Yield						Characteristics			
		Wood	Crawford	Wayne	Darke	Pickaway	Avg.	Test Wt. lb/bu	Lodg. %	Ht. in.	Head Date
AGI	307	95.0	99.1	101.5	85.6	84.7	93.2	57.2	5	39	140
AGI	216B	98.3	100.0	102.1	84.3	86.5	94.2	57.8	5	37	139
AgriMAXX	413	102.1	108.6	112.0	87.0	94.9	100.9	56.5	2	35	138
AgriMAXX	444	100.6	107.3	105.7	91.8	95.8	100.2	56.8	2	36	141
AgriMAXX	446	98.0	111.1	109.2	93.0	90.2	100.3	57.3	2	35	141
AgriMAXX	454	103.0	106.4	109.2	97.2	98.3	102.8	57.1	4	37	141
AgriPro	SY 007	94.5	103.0	99.8	82.9	86.0	93.2	57.1	3	37	138
AgriPro	SY 483	103.0	108.3	106.9	97.2	97.9	102.7	56.0	3	38	142
AgriPro	SY 547	100.4	111.7	112.2	94.1	95.1	102.7	57.3	2	38	139
Beck	125	96.9	108.0	105.8	86.8	90.9	97.7	57.9	1	36	140
Certified	Freedom	89.4	87.9	94.0	79.9	84.0	87.0	54.9	6	40	142
Certified	Hopewell	84.0	94.3	97.0	80.8	84.2	88.1	56.0	2	39	141
Certified	Malabar	87.6	94.9	90.8	76.1	83.2	86.6	56.9	1	42	142
Certified	Sunburst	93.7	96.1	105.8	89.5	92.6	95.5	58.1	1	34	142
Dyna-Gro	9522	102.4	104.6	109.2	89.7	96.8	100.6	56.9	3	37	141
Dyna-Gro	9552	97.5	106.7	110.8	97.2	93.3	101.1	57.4	3	35	141
Hiser	L-214	97.2	109.4	105.1	91.9	94.2	99.5	56.9	6	36	137

Brand	Variety	Yield						Characteristics			
		Wood	Crawford	Wayne	Darke	Pickaway	Avg.	Test Wt. lb/bu	Lodg. %	Ht. in.	Head Date
OFSI	Lion	94.8	97.5	104.7	85.3	93.8	95.2	56.3	2	39	139
Rupp	RS 910	98.5	104.2	109.8	88.7	93.7	99.0	58.1	2	38	140
Rupp	RS 972	97.8	111.2	113.2	92.5	94.7	101.9	56.3	5	37	141
Shur Grow	SG-1544	97.8	103.6	109.7	92.0	97.6	100.1	56.1	2	41	139
Shur Grow	SG-1552	99.3	106.3	110.8	92.5	93.9	100.6	56.2	9	38	141
Steyer	Haubert	100.0	110.5	108.6	97.8	100.1	103.4	57.1	2	37	141
Strike Genetics	403	101.0	113.1	106.8	95.5	101.3	103.5	56.5	2	35	139
Strike Genetics	603	96.3	105.5	111.1	94.3	97.6	101.0	56.8	4	37	141
Va. Tech	Hilliard	97.2	100.9	107.4	81.7	88.9	95.2	57.8	3	37	139
Wellman	W 204	105.6	109.5	109.9	99.3	102.5	105.3	56.7	3	36	138
Wellman	W 206	98.5	109.7	105.4	88.2	93.9	99.1	58.0	1	37	140
Yerks	Y2313	95.4	110.0	110.1	90.6	100.5	101.3	56.2	5	38	141
	High	105.6	113.1	113.2	99.3	102.5	105.3	58.1	9	42	142
	Average	97.4	104.8	106.4	89.8	93.3	98.3	56.9	3	37	140
	Low	84.0	87.9	90.8	76.1	83.2	86.6	54.9	1	34	137

Table 4. Reaction of Winter Wheat Varieties to Various Diseases in Ohio.

Brand	Variety	PM	PM	SLB	SGB	FHB
		2017	2016	%	%	%
AGI	111	MS	.	1.3	0.8	11.1
AGI	307	MS	.	0.6	2.2	16.7
AGI	401	MR	.	6.2	2.3	45.0
AGI	109B	MR	R	4.7	1.0	23.9
AGI	216B	S	MS	2.6	3.7	8.9
AGI	217B	S	.	2.9	0.5	22.8
AGI	Bolt	MR	.	6.5	2.2	6.7
AgriMAXX	413	S	.	9.8	0.8	15.0
AgriMAXX	444	MR	.	2.6	2.7	28.3
AgriMAXX	446	MS	MS	4.2	6.7	42.2
AgriMAXX	454	S	MS	5.4	5.2	23.3
AgriMAXX	463	MS	.	2.6	16.7	5.6
AgriMAXX	464	MR	.	4.0	7.0	10.6
AgriPro	SY 007	R	MR	4.5	5.0	23.9
AgriPro	SY 100	MR	.	2.9	11.7	30.6
AgriPro	SY 483	MR	R	2.7	3.7	48.9
AgriPro	SY 547	R	MR	1.9	5.0	25.6
Beck	123	MR	.	3.5	6.0	13.7
Beck	125	MS	MS	3.3	11.7	20.6
Beck	128	S	.	2.9	8.3	27.8
Certified	Freedom	MS	.	0.9	13.3	53.3
Certified	Hopewell	MS	.	1.9	13.3	31.1
Certified	Kokosing	MR	.	3.6	21.7	19.4
Certified	Malabar	MS	.	1.4	6.7	24.4
Certified	Starburst	R	.	3.2	6.7	16.7
Certified	Sunburst	R	R	4.9	6.7	23.9
CROPLAN	9203	S	.	4.8	15.0	25.0
CROPLAN	9415	MS	.	3.3	26.7	37.2
CROPLAN	9606	MS	.	5.8	26.7	26.1
Dyna-Gro	9522	MS	.	4.3	5.0	36.1
Dyna-Gro	9552	S	.	2.8	10.0	25.0
Dyna-Gro	9692	S	.	4.2	6.7	21.1

Brand	Variety	PM	PM	SLB	SGB	FHB
		2017	2016	%	%	%
Dyna-Gro	9701	MR	.	3.7	13.3	10.6
Dyna-Gro	9750	S	.	1.7	18.3	5.7
Dyna-Gro	9772	MS	.	3.6	10.3	13.9
Dyna-Gro	9862	MR	.	4.2	11.7	13.3
Ebberts	903	MS	.	5.8	13.3	16.1
Ebberts	911	MS	.	4.7	16.7	5.9
Ebberts	916	MR	.	2.3	11.7	20.0
Ebberts	936	S	.	1.6	8.7	21.7
Ebberts	E3201	MS	.	5.3	13.3	23.9
Hiser	L-214	MR	MR	2.3	6.7	45.6
OFSI	Lion	MR	R	2.2	20.0	20.6
Rupp	RS 902	S	.	2.7	8.3	15.0
Rupp	RS 910	R	R	2.9	10.0	10.6
Rupp	RS 961	MS	.	4.2	11.7	15.0
Rupp	RS 972	MS	MS	4.2	11.7	28.3
Seed Consultants	SC 13S07™	MS	.	5.0	13.3	10.0
Seed Consultants	SC 13S17™	S	.	3.8	13.3	11.7
Seed Consultants	SC 13S26™	S	.	3.2	5.0	23.9
Seed Consultants	SC 13S37™	MR	.	5.0	15.0	29.4
Shur Grow	SG-1537S	MR	.	1.6	18.3	7.3
Shur Grow	SG-1544	R	.	1.5	15.0	25.0
Shur Grow	SG-1546S	S	.	3.2	8.3	36.7
Shur Grow	SG-1547S	MS	.	5.3	8.3	21.1
Shur Grow	SG-1552	MS	MS	3.0	6.0	31.7
Steyer	Berwick	MS	.	.	10.0	18.9
Steyer	Haubert	S	S	1.1	10.0	37.2
Steyer	Wharton	S	.	2.2	10.0	33.9
Strike Genetics	403	S	MS	3.3	11.7	11.1

Table 4. Reaction of Winter Wheat Varieties to Various Diseases in Ohio. (continued)

Brand	Variety	PM	PM	SLB	SGB	FHB
		2017	2016	%	%	%
Strike Genetics	603	S	MS	3.0	11.7	31.1
Strike Genetics	803	MS	.	1.8	10.0	20.0
Va. Tech	Hilliard	MR	MR	5.3	11.7	19.4
Wellman	W 204	MS	MS	2.1	11.7	20.0
Wellman	W 206	MR	MR	2.8	13.3	20.0
Wellman	W 302	MS	.	2.0	11.7	20.6
Wellman	W 303	S	.	2.6	11.7	9.2
Wellman	W 304	S	.	1.9	10.0	20.6
Wellman	W 305	MS	.	3.8	16.7	17.2
Wellman	W 312	MS	.	4.3	13.3	12.2
Wellman	W 316	MR	.	5.1	13.3	19.4
Yerks	Y2313	MS	MS	2.9	13.3	39.4
Yerks	Y917	MS	.	3.3	20.0	26.1
Yerks	Y925	S	.	2.4	15.0	22.8
			High	9.8	26.7	53.3
			Average	3.4	10.5	22.3
			Low	0.6	0.5	5.6

Powdery mildew (caused by *Blumeria graminis* f. sp. *tritici*) was evaluated on a 0 to 10 scale at Wooster at the heading (Feekes growth stage 10.5) growth stage. Varieties were then ranked as Susceptible (S: score ≥ 8), Moderately Susceptible (MS: score > 5 and < 8), Moderately Resistant (MR: score > 3 and < 5) and Resistant (R: score < 3).

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

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

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

For additional disease information and wheat varieties, please visit our web site: oardc.ohio-state.edu/ohiofieldcropdisease

Table 5. Ohio Wheat Performance Test, 2017—Seed Source & Seed Treatment.

Brand	Producer	Variety	Seed Treatment
AGI	Advanced Genetics, Inc. 11491 Foundation Rd., Box 6 Croton, OH 43013 740-893-2501 www.advancedgeneticsinc.com	111	Athena
		307	Vibrance Extreme
		401	Vibrance Extreme
		109B	Storicide II / Vibrance Extreme
		216B	EverGol Energy
		217B	Ceresus / QuickRoots
AgriMAXX	AgriMAXX Wheat Company 7167 Highbanks Rd. Mascoutah, IL 62258 855-629-9432	413	Cruiser / Maxim / Vibrance Extreme
		444	Cruiser / Maxim / Vibrance Extreme
		446	Cruiser / Maxim / Vibrance Extreme
		454	Cruiser / Maxim / Vibrance Extreme
		463	Cruiser / Maxim / Vibrance Extreme
AgriPro	Syngenta 806 N. 2nd St. Berthoud, CO 80513 970-214-4075 www.agriprowheat.com	SY007	Cruiser Maxx / Vibrance
		SY100	Cruiser Maxx / Vibrance
		SY483	Cruiser Maxx / Vibrance
		SY547	Cruiser Maxx / Vibrance
Beck	Beck's Hybrids 6767 E. 276th St. Atlanta, IN 46031 317-937-2325 www.BecksHybrids.com	123	Escalate™
		125	Escalate™
		128	Escalate™

Brand	Producer	Variety	Seed Treatment
Certified	Ohio Seed Improvement Assn. 6150 Avery Rd., Box 477 Dublin, OH 43017 614-889-1136 www.ohseed.org	Freedom	Macho / Rancona
		Hopewell	Ceresus / Storicide II
		Kokosing	Ceresus Trio / Macho 600ST / Release LC
		Malabar	Ceresus Trio / Macho 600ST / Release LC
		Starburst	Ceresus Trio / Macho 600ST / Release LC
CROPLAN	Winfield United 1080 County Road F West, MS 5850 Shoreview, MN 55126 631-375-6620 www.winfieldunitedag.com	9203	Ascend / Nitro Shield / Warden Cereals II
		9415	Ascend / Nitro Shield / Warden Cereals II
		9606	Ascend / Nitro Shield / Warden Cereals II
Dyna-Gro	Dyna-Gro Seed 8947 County Rd. 84 Findlay, OH 45840 419-859-2131 www.dyna-groseed.com	9522	Awaken ST / Foothold Virock
		9552	Awaken ST / Foothold Virock
		9692	Awaken ST / Foothold Virock
		9701	Awaken ST / Foothold Virock
		9750	Awaken ST / Foothold Virock
		9772	Awaken ST / Foothold Virock
Ebberts	Ebberts Field Seeds Inc. 6840 North State Route 48 Covington, OH 45318 973-473-2521 www.ebbertsseeds.com	903	Cruiser / Vibrance Extreme
		911	Cruiser / Vibrance Extreme
		916	Cruiser / Vibrance Extreme
		936	Cruiser / Vibrance Extreme
		E3201	Cruiser / Vibrance Extreme
Hiser	Hiser Seed Company 2311 Mile Tree Rd. Clarksburg, OH 43115 740-993-2311	L-214	Ceresus / Take Off ST
OFSI	Ohio Foundation Seeds, Inc. 11491 Foundation Rd., Box 6 Croton, OH 43013 740-893-2501	Lion	Ceresus Trio / Imidacloprid / Release LC
Rupp	Rupp Seeds, Inc. 17919 County Rd. B Wauseon, OH 43567 419-337-1841 www.ruppseeds.com	RS 902	SabrEx / Warden Cereals
		RS 910	SabrEx / Warden Cereals
		RS 961	Cruiser Maxx / Vibrance
		RS 972	SabrEx / Warden Cereals
Seed Consultants	Seed Consultants, Inc. 648 Miami Trace Rd. SW Washington Courthouse, OH 43160 800-708-2676 www.seedconsultants.com	SC 13S07™	Dividend Extreme / Vibrance
		SC 13S17™	Dividend Extreme / Vibrance
		SC 13S26™	Dividend Extreme / Vibrance
		SC 13S37™	Cruiser Maxx / Vibrance
Shur Grow	Heritage Cooperative, Inc. 11177 Township Rd. 133 West Mansfield, OH 43358 800-321-7333 www.heritagecooperative.com	SG-1537S	Cruiser Maxx / Vibrance Extreme
		SG-1544	Warden Cereals II
		SG-1546S	Warden Cereals II
		SG-1547S	Cruiser Maxx / Vibrance Extreme
		SG-1552	Warden Cereals II
Steyer	Steyer Seeds P.O. Box 209 Old Fort, OH 44861 800-231-4274 www.steyerseeds.com	Berwick	Steyer Surestand Cereals
		Haubert	Steyer Surestand Cereals
		Wharton	Steyer Surestand Cereals
Strike Genetics	Burtch Seed Co., Inc. 4742 Tama Rd. Celina, OH 45822 419-363-3713 www.burtchseed.com	403	Cruiser Maxx / Vibrance
		603	SabrEx / Vibrance Extreme
		803	Cruiser Maxx / Vibrance
Va. Tech	Virginia Crop Improvement Assn. 9225 Atlee Branch Lane Mechanicsville, VA 23116 804-746-4884 www.virginiacrop.org	Hilliard	Gaucho / Raxil-MD Extra
Wellman	Wellman Seeds, Inc. 23778 Delphos Jennings Rd. Delphos, OH 45833 800-717-7333 www.wellmanseeds.com	W 204	Encase
		W 206	Encase
		W 302	Encase
		W 303	Encase
		W 304	Encase
		W 305	Encase
		W 312	Encase
		W 316	Encase
Yerks	Yerks Seed, Inc. 20202 Notestine Rd. Woodburn, IN 46797 260-657-5127	Y 2313	Ceresus / Take Off ST
		Y 917	Ceresus / Take Off ST
		Y 925	Ceresus / Take Off ST