2020 OHIO WHEAT PERFORMANCE TEST

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The purpose of the 2020 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 using four replications per site in a randomized complete block design. Plots consisted of seven rows, 7.5 inches apart and 25 feet long. Participating companies specified the seeding rate used for each of their varieties. Test sites were planted within 21 days after the fly-free date, based on soil conditions. Approximately 30 pounds of nitrogen/acre were 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 in inches 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 and Pickaway locations (Ex: Day 136 = May 15).

Powdery mildew (PM) varieties were evaluated for Powdery mildew at Wooster at the heading (Feekes growth stage 10.5) growth stage. Varieties were classified as Susceptible, Moderately Susceptible, Moderately Resistant, and Resistant.

Fusarium Head Blight (FHB) varieties were evaluated in an inoculated disease screening nursery at Wooster. FHB was rated as the percentage of spikelets showing diseased symptoms. Varieties were classified as Susceptible, Moderately Susceptible, Moderately Resistant, and Resistant.

Leaf Blotch (SLB) and **Glume Blotch** (SGB) 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. Varieties were classified as Susceptible, Moderately Susceptible, Moderately Resistant, and Resistant.

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 SITES				
	1	2	3	4	5
County	Wood	Union	Wayne	Darke	Pickaway
Previous Crop	Soybean	Soybean	Soybean	Soybean	Soybean
Soil Type	Hoytville	Blount	Canfield	Crosby	Miamian
Tillage	Min-Till	Min-Till	Min-Till	Min-Till	Min-Till
Fly-Free Date	Sept. 23	Sept. 28	Sept. 26	Sept. 29	Oct. 1
Plant Date	Oct. 14	Oct. 4	Oct. 5	Sept.29	Oct. 1
Soil pH	6.3	5.7	6.4	6.8	5.5
Soil P (ppm)	51	16	58	72	52
Soil K (ppm)	211	124	223	172	167
Fertilizer (N,P,K)	120-78-78	124-0-0-37S	122-54-108	120-0-0-30S	117-66-90
Herbicides	Quelex	Harmony Extra SG, Brox 2EC	Roundup Sharpen (Pre-Plant) Harmony Extra SG (Spring)	Harmony Extra SG, Brox 2EC	Harmony Extra SG, Brox 2EC, Quelex
Fungicide	Prosaro	Miravis Ace	Prosaro	Miravis Ace	Miravis Ace
Insecticide	None	None	None	Tombstone	Tombstone
Harvest Date	July 8	July 5	July 6	July 7	July 3

Ohio Wheat Performance Test Sites for 2020

GROWING CONDITIONS

In fall 2019, wheat was planted at four out of the five locations within 10 days of the fly-free date. Due to poor soil conditions, wheat was planted in Wood County 21 days after the fly-free date. Wheat entered dormancy in good to excellent condition. Early-season wheat growth and development were slower than the previous years due to cool temperatures and above-average precipitation. However, harvest conditions were favorable and harvest dates average. Results from Union County were not included in this report due to extreme field variability caused by high rainfall. Overall, grain test weight averaged 58.8 lb/bushel (compared to an average test weight of 55.0 lb/bushel in 2019). Across the Wood, Wayne, Darke, and Pickaway locations, grain yield averaged 93.8 bushels/acre.

RESULTS

Results of the 2020 Ohio 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 by Dr. Byung-Kee Baik, director.

Test results for the 67 winter wheat varieties evaluated in 2020 are presented in Table 1. Tables 2 and 3 contain multi-year variety performance data. Depending on the variety and the test site, yields varied between 64.2 and 111.7 bushels per acre and the test weight ranged from 56.5 to 60.7 pounds per bushel. Yield differences between test sites were due primarily to the soil drainage, weather during the grain fill period and harvest, and disease level. Variety selection should be based on disease resistance, average yield across test sites and years (Tables 2 and 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 2020 Ohio Wheat Performance Test.

This report can be found at 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 2020 Ohio Wheat Performance Test does not constitute an endorsement of any variety by The Ohio State University, OARDC, or Ohio State University Extension.

Acknowledgments: We thank our farmer cooperators for their contributions to the 2020 Ohio Wheat Performance Test program. We are grateful for the assistance provided by Ken Scaife, OARDC Field Operations, and Matt Davis, OARDC Northwest Branch Research Station. We thank the CFAES Office of Advancement for their assistance in preparing the test results for publication. Special thanks to Rich Minyo, OARDC, for his assistance and expertise in conducting the 2020 Ohio Wheat Performance Test.

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COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES

Table 1. Yield and Agronomic Characteristics of Wheat Varieties Tested in Ohio, 2020.

Brand	Variety	Seed Rate	Wood	Wayne	Darke	Pickaway	Avg.	Test Wt.	Seeds/lb.	Lodging	Height	Heading	Flour	Softness
		#/FT	bu/ac	bu/ac	bu/ac	bu/ac	bu/ac	lb/bu	(1000)	%	in.	Date	%	%
AGI	114	25	102.6	106.1	89.4	84.6	95.7*	59.6	13.5	8	32	143	72.3	48.3
AGI	218	25	104.6	101.5	85.9	82.4	93.6	59.0	13.3	7	33	142	69.7	54.7
AGI	401	25	94.7	105.8	88.1	85.4	93.5	57.4	15.2	3	35	143	69.7	56.6
AGI	217B	25	107.9	105.3	87.4	94.3	98.7*	58.5	12.4	2	33	142	71.8	66.0
AGI	220B	25	99.4	98.0	89.7	81.4	92.1	60.0	12.1	9	32	143	66.6	57.3
AgriMAXX	454	27	103.9	107.4	92.8	91.0	98.8*	58.5	13.1	2	32	142	71.6	63.9
AgriMAXX	473	27	95.4	109.3	100.6	96.2	100.4*	58.6	12.9	5	34	143	70.4	56.7
AgriMAXX	485	27	97.7	107.6	87.6	87.4	95.1*	60.1	14.0	0	31	143	71.7	50.4
AgriMAXX	496	27	96.6	111.7	98.7	84.7	97.9*	59.0	14.0	4	30	142	69.4	60.0
AgriMAXX	498	27	105.1	103.2	103.9	89.1	100.3*	57.7	12.8	9	34	143	71.5	63.8
AgriMAXX	503	27	96.7	98.0	82.2	78.6	88.9	58.8	12.5	17	33	142	69.3	54.6
AgriMAXX	505	27	101.9	100.7	91.5	84.6	94.7*	60.4	12.0	4	32	142	66.4	58.0
AgriMAXX	2003	27	101.9	107.7	93.1	87.6	97.6*	57.8	12.2	9	31	142	68.8	54.1
AgriPro	SY 007	25	93.0	76.2	71.6	64.2	76.3	57.4	14.7	6	33	140	67.1	61.0
AgriPro	SY 547	27	107.6	108.0	96.1	90.2	100.5*	59.0	12.4	4	35	141	67.3	51.4
AgriPro	SY 576	25	97.8	107.8	100.3	93.8	99.9*	58.3	12.8	0	33	146	68.6	59.1
AgriPro	SY Viper	23	99.9	107.6	88.2	88.0	95.9*	59.7	11.0	6	35	141	67.3	56.5
Albert Lea	Erisman	26	85.8	93.2	83.9	73.1	84.0	60.7	15.0	14	33	141	68.7	52.9
Albert Lea	LCS 3334	26	104.5	100.1	88.7	91.9	96.3*	59.0	14.2	15	36	143	69.9	60.1
Albert Lea	Viking Volla	26	98.2	97.4	86.2	81.0	90.7	57.4	12.8	4	31	142	71.0	62.0
Certified	Kokosing	27	94.7	103.8	78.9	78.9	89.1	57.2	12.6	0	34	141	70.8	56.0
Certified	Starburst	27	94.9	107.1	88.6	81.1	92.9	60.3	14.0	0	28	144	65.2	52.6
Certified	Sunburst	27	95.8	106.9	91.5	75.2	92.4	60.4	14.0	0	29	143	64.2	51.7
Dyna-Gro	9002	27	102.6	106.4	94.4	84.9	97.1*	58.7	12.4	11	33	142	69.6	61.0
Dyna-Gro	9070	27	101.2	97.6	88.3	79.5	91.7	59.0	12.9	0	32	141	67.9	58.7
Dyna-Gro	9182	27	99.3	96.4	83.9	79.4	89.8	58.4	13.0	20	33	142	68.3	50.6
Dyna-Gro	9522	27	105.0	103.5	94.0	91.1	98.4*	58.4	13.8	4	34	143	71.2	61.7
Dyna-Gro	9692	27	104.6	107.5	89.1	89.7	97.7*	58.6	13.1	3	32	142	71.8	65.9
Dyna-Gro	9862	27	96.9	110.0	90.4	83.7	95.3*	59.8	14.0	7	31	144	71.5	49.0
Dyna-Gro	9941	27	105.5	101.4	80.3	76.0	90.8	56.5	13.6	19	31	142	69.4	57.1
Ebberts	903	27	98.2	110.2	81.6	89.9	95.0*	60.1	13.3	0	33	143	71.3	45.6
Ebberts	920	27	94.1	101.4	81.1	87.8	91.1	58.9	13.4	10	33	142	69.9	54.4
Ebberts	952	27	102.6	101.1	88.7	88.9	95.3*	58.1	13.8	0	31	141	69.3	62.0
Ebberts	988	27	97.5	102.0	86.3	77.8	90.9	59.9	14.1	13	32	142	69.4	62.6
FS Wheat	FS 599	25	92.3	94.4	77.5	76.7	85.2	59.5	13.9	6	29	140	68.2	55.9
FS Wheat	FS 601	25	101.4	105.6	95.2	77.3	94.9*	57.0	13.5	0	31	142	69.2	55.3
FS Wheat	FS 616	25	96.9	102.9	90.0	79.6	92.4	59.6	14.7	4	33	142	68.4	59.3
FS Wheat	FS 622	25	94.5	100.7	77.2	74.5	86.7	60.3	12.8	3	31	141	69.6	56.3
FS Wheat	FS 624	25	98.0	98.3	87.8	85.0	92.3	58.4	11.9	0	33	142	69.9	58.7
FS Wheat	WX20A	25	102.4	99.9	81.4	81.8	91.4	58.7	13.6	16	33	143	69.6	54.4
FS Wheat	WX20B	25	102.0	100.1	79.3	87.1	92.1	60.2	12.1	4	32	144	66.2	57.7
KWS	KWS 280	27	105.3	102.3	92.5	81.6	95.4*	60.3	14.2	13	30	145	66.3	53.7
KWS	KWS 291	27	106.8	110.8	90.3	97.4	101.3**	57.9	13.8	4	33	145	68.2	60.7
KWS	KWS 333	27	97.8	101.9	87.6	73.3	90.2	60.1	12.7	4	32	140	66.2	51.0
Limagrain LCS	L11741	27	92.6	86.9	76.3	66.5	80.6	59.5	12.9	33	32	140	66.2	46.9
Limagrain LCS	L11809	27	111.7	98.6	92.2	82.1	96.2*	58.5	11.6	22	32	141	68.8	53.0
Limagrain LCS	L11919	27	95.9	96.8	83.1	79.2	88.8	59.7	13.3	16	33	141	65.2	34.5
Local	LW2068	24	99.2	108.3	94.6	82.6	96.2*	57.3	12.6	0	31	143	68.9	53.7
Local	LW2867	24	97.6	106.2	89.2	80.7	93.4	59.6	13.4	1	32	144	71.3	50.8
Rupp	RS 902	24	101.5	107.9	100.1	93.1	100.7*	58.0	13.1	0	32	142	71.8	64.6
Rupp	RS 912	24	95.1	100.2	82.3	81.6	89.8	58.6	12.9	14	34	142	68.8	51.4
Rupp	RS 961	24	94.5	106.6	98.5	88.8	97.1*	60.0	13.4	4	32	143	71.6	50.4
Rupp	RS 977	24	91.3	100.7	93.6	82.8	92.1	57.5	12.1	4	31	142	68.9	53.1
Seed Consultants	SC 13S26™	20	100.0	107.9	93.1	95.3	99.1*	58.0	13.0	0	34	142	71.9	63.9
Seed Consultants	SC 13S37™	20	90.4	101.1	91.4	84.0	91.7	59.3	14.3	0	32	144	72.0	45.4
Strike Genetics	203	25	102.9	100.5	99.3	96.4	99.8*	57.3	13.6	4	31	143	70.6	65.7
Strike Genetics	503	21	103.7	99.5	100.4	91.7	98.8*	57.1	13.4	4	32	143	70.2	65.0
Va. Tech	Liberty 5658	25	96.4	96.7	84.6	83.0	90.2	58.8	13.9	5	33	141	70.1	58.0

Table 1. Yield and Agronomic Characteristics of Wheat Varieties Tested in Ohio, 2020. *(continued)*

Brand	Variety	Seed Rate	Wood	Wayne	Darke	Pickaway	Avg.	Test Wt.	Seeds/lb.	Lodging	Height	Heading	Flour	Softness
		#/FT	bu/ac	bu/ac	bu/ac	bu/ac	bu/ac	lb/bu	(1000)	%	in.	Date	%	%
Wellman	W 304	25	101.4	110.1	98.7	93.8	101.0*	58.5	13.0	4	32	141	71.4	62.8
Wellman	W 305	25	95.5	108.5	95.0	87.1	96.5*	59.7	13.2	0	32	143	72.3	49.4
Wellman	W 310	25	101.6	103.4	97.7	89.0	97.9*	57.5	12.0	1	31	142	68.9	51.0
Wellman	W 312	25	99.0	101.6	84.6	76.7	90.5	56.8	13.3	0	31	141	69.8	53.9
Wellman	W 313	25	100.6	102.3	86.0	81.4	92.6	59.0	13.1	8	33	143	70.3	54.7
Wellman	W 314	25	97.7	102.8	89.0	80.4	92.5	59.9	14.4	15	34	141	68.2	58.7
Yerks	Y2313	24	103.9	98.6	91.7	85.8	95.0*	56.8	13.1	20	36	142	71.3	63.8
Yerks	Y925	24	102.3	106.9	86.5	90.4	96.5*	58.2	12.7	0	32	142	70.9	61.5
Yerks	Y940	24	103.7	85.2	77.9	80.4	86.8	58.2	13.4	14	33	143	69.4	54.3
High		27	111.7	111.7	103.9	97.4	101.3	60.7	15.2	33	36	146	72.3	66.0
Average		26	99.5	102.4	89.1	84.2	93.8	58.8	13.2	6	32	142	69.4	56.2
Low		20	85.8	76.2	71.6	64.2	76.3	56.5	11.0	0	28	140	64.2	34.5
LSD (P=0.1)			5.1	7.6	8.5	6.8	7.5	0.6			1.0	9.5		
CV			4.4	6.4	7.1	6.9	11.8	2.8			6.6	4.2		

** Highest Yielding Variety

* Not statistically different from the highest yielding variety.

Table 2. Yield and Agronomic Characteristics of Wheat Varieties Tested in Ohio, 2019 and 2020.

Brand	Variety	YIELD					CHARACTERISTICS			
		Wood	Wayne	Darke	Pick	Avg.	Test Wt.	Lodg.	Ht.	Head Date
		bu/ac	bu/ac	bu/ac	bu/ac	bu/ac	lb/bu	%	in.	
AGI	114	95.5	99.0	85.8	89.2	92.4	57.7	4	33	143
AGI	217B	97.8	97.1	86.3	99.8	95.2	56.7	1	34	142
AgriMAXX	454	94.8	99.5	88.6	95.5	94.6	56.5	1	33	142
AgriMAXX	473	86.8	96.4	87.6	93.5	91.1	56.5	3	34	143
AgriMAXX	485	91.4	100.2	85.3	90.7	91.9	57.9	0	33	143
AgriMAXX	496	90.5	99.5	91.9	94.1	94.0	57.0	2	31	142
AgriPro	SY 547	95.4	100.1	89.5	94.5	94.9	57.3	2	35	141
AgriPro	SY 576	91.1	99.3	90.1	96.3	94.2	56.3	0	34	145
AgriPro	SY Viper	89.7	99.4	82.0	89.2	90.1	57.3	3	35	140
Albert Lea	LCS 3334	95.1	92.4	87.1	92.1	91.7	57.5	8	36	142
Certified	Kokosing	81.8	95.6	80.0	87.4	86.2	55.9	0	36	141
Certified	Starburst	84.5	96.3	82.1	87.3	87.5	58.0	0	29	143
Certified	Sunburst	84.6	94.5	80.7	78.5	84.6	58.0	0	30	143
Dyna-Gro	9002	90.6	96.8	91.3	90.7	92.3	56.8	5	34	142
Dyna-Gro	9522	94.5	96.8	87.4	93.7	93.1	56.6	2	34	143
Dyna-Gro	9692	95.6	96.9	87.9	96.4	94.2	56.7	1	33	142
Dyna-Gro	9862	91.8	101.2	85.0	88.2	91.5	57.8	3	32	144
Dyna-Gro	9941	96.6	95.4	81.5	81.3	88.7	55.4	9	32	141
Ebberts	903	92.4	101.8	86.1	92.6	93.2	58.0	0	33	143
Ebberts	988	88.4	94.6	85.7	84.4	88.3	58.4	6	33	141
FS Wheat	FS 601	93.1	97.5	87.7	87.3	91.4	55.6	0	32	142
FS Wheat	FS 616	87.8	94.9	85.2	84.6	88.1	58.0	2	34	141
FS Wheat	FS 622	83.6	91.3	73.5	81.3	82.4	58.4	2	33	141
FS Wheat	FS 624	89.7	91.1	83.4	86.4	87.6	56.8	0	35	142
Local	LW2867	91.3	97.4	86.0	85.9	90.1	57.9	0	33	144
Rupp	RS 902	93.4	98.9	91.4	96.0	94.9	56.4	0	33	142
Rupp	RS 961	90.5	98.8	86.8	91.2	91.8	58.0	2	33	143
Rupp	RS 977	86.0	95.1	89.6	92.2	90.7	55.8	2	32	142
Seed Consultants	SC 13S26™	93.0	99.3	92.2	99.2	95.9	56.6	0	34	142
Seed Consultants	SC 13S37™	87.3	91.1	83.7	86.4	87.1	57.2	0	33	144
Wellman	W 304	94.1	100.7	89.7	97.3	95.5	56.6	2	33	142
Wellman	W 305	90.5	99.5	89.0	90.2	92.3	57.6	0	33	143
Wellman	W 312	93.2	95.3	81.9	86.3	89.2	55.3	0	32	141
Wellman	W 314	90.6	95.1	84.1	86.4	89.0	58.3	7	34	141
Yerks	Y2313	91.4	96.8	87.0	89.4	91.1	55.1	10	37	142
Yerks	Y925	94.5	99.8	86.8	95.3	94.1	56.6	0	33	142
High		97.8	101.8	92.2	99.8	95.9	58.4	10	37	145
Average		91.1	97.1	86.1	90.3	91.1	57.0	2	33	142
Low		81.8	91.1	73.5	78.5	82.4	55.1	0	29	140

Table 3. Yield and Agronomic Characteristics of Wheat Varieties Tested in Ohio, 2018–2020.

		YIELD					CHARACTERISTICS			
Brand	Variety	Wood	Wayne	Darke	Pick	Avg.	Test Wt.	Lodg.	Ht.	Head
		bu/ac	bu/ac	bu/ac	bu/ac	bu/ac	lb/bu	%	in.	Date
AGI	114	95.6	93.7	84.0	88.2	90.4	57.1	4	33	143
AGI	217B	99.4	97.2	85.5	97.8	95.0	56.5	1	34	142
AgriMAXX	454	96.2	99.6	85.9	93.8	93.9	56.5	1	33	143
AgriMAXX	473	87.3	90.6	83.5	91.0	88.1	56.2	2	34	143
AgriMAXX	485	92.2	95.7	82.9	89.0	89.9	57.3	1	33	144
AgriPro	SY 547	95.5	97.1	87.4	92.8	93.2	57.0	1	35	141
Certified	Kokosing	82.7	93.7	79.1	86.1	85.4	55.7	1	36	141
Certified	Starburst	88.9	94.6	80.4	89.2	88.3	57.7	0	30	143
Certified	Sunburst	88.7	91.7	79.5	80.1	85.0	57.9	0	30	143
Dyna-Gro	9522	95.2	94.6	85.0	92.8	91.9	56.5	1	34	143
Dyna-Gro	9692	96.6	97.0	86.8	94.7	93.8	56.6	2	34	142
Dyna-Gro	9862	92.5	96.2	83.7	88.0	90.1	57.3	4	32	144
Dyna-Gro	9941	98.2	93.0	81.9	83.3	89.1	55.0	9	32	142
Ebberts	903	93.9	97.4	84.4	91.0	91.7	57.4	3	33	144
Rupp	RS 902	95.5	97.9	88.7	93.5	93.9	56.2	0	33	143
Rupp	RS 961	90.8	94.8	84.7	87.8	89.5	57.3	3	33	143
Seed Consultants	SC 13S26™	95.5	99.3	88.9	96.8	95.1	56.5	0	34	143
Seed Consultants	SC 13S37™	89.5	88.8	83.0	85.4	86.7	56.8	3	33	144
Wellman	W 304	95.1	99.2	88.1	95.6	94.5	56.6	1	34	142
Wellman	W 305	93.6	94.8	87.5	87.9	91.0	57.2	2	33	143
Wellman	W 312	95.7	90.8	81.3	87.2	88.8	54.8	3	32	141
Yerks	Y2313	93.1	95.6	86.3	89.5	91.1	55.1	8	37	142
Yerks	Y925	94.4	98.5	85.6	93.6	93.0	56.4	0	34	143
High		99.4	99.6	88.9	97.8	95.1	57.9	9	37	144
Average		93.3	95.3	84.5	90.2	90.8	56.6	2	33	143
Low		82.7	88.8	79.1	80.1	85.0	54.8	0	30	141

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

Brand	Variety	PM 2020	SLB 2020	SGB 2020	FHB 2020
AGI	114	MS	MS	MR	MR
AGI	218	MS	MS	MR	MR
AGI	401	MS	MR	R	MS
AGI	217B	S	MS	R	MR
AGI	220B	MS	MS	MR	MR
AgriMAXX	454	S	MS	R	MR
AgriMAXX	473	MS	MR	R	MR
AgriMAXX	485	MS	MR	MR	MR
AgriMAXX	496	MS	MR	R	MR
AgriMAXX	498	MS	MS	MR	MS
AgriMAXX	503	MS	MR	MR	MR
AgriMAXX	505	MS	MR	MS	MS
AgriMAXX	2003	.	.	.	.
AgriPro	SY 007	MS	MS	MR	MS
AgriPro	SY 547	MS	MS	MR	MS
AgriPro	SY 576	MS	MR	R	MR
AgriPro	SY Viper	MS	MS	MS	MS
Albert Lea	Erisman	MS	MR	MS	MR
Albert Lea	LCS 3334	MR	MS	MR	R
Albert Lea	Viking Volla	S	MR	MR	MS
Certified	Kokosing	MS	MR	S	MS
Certified	Starburst	MS	MR	MR	MS
Certified	Sunburst	MR	MR	R	MS
Dyna-Gro	9002	S	MR	MR	MS
Dyna-Gro	9070	MS	MR	MR	MS
Dyna-Gro	9182	MS	MS	MR	MR
Dyna-Gro	9522	MS	MS	R	MR
Dyna-Gro	9692	MS	S	R	MR
Dyna-Gro	9862	MS	MR	MR	MR
Dyna-Gro	9941	S	MR	R	MR
Ebberts	903	MS	MS	MR	MR
Ebberts	920	MS	MS	MR	MR
Ebberts	952	MS	MR	MR	MR
Ebberts	988	MS	MR	MR	MR
FS Wheat	FS 599	MS	MS	MR	MR
FS Wheat	FS 601	S	MR	MR	MR
FS Wheat	FS 616	MS	MS	MR	MR
FS Wheat	FS 622	MS	MS	MS	MR
FS Wheat	FS 624	MS	MS	MS	S
FS Wheat	WX20A	MS	MR	MR	MR
FS Wheat	WX20B	MS	MR	MR	MR
KWS	KWS 280	MS	MR	MR	MS
KWS	KWS 291	MS	R	MR	MR
KWS	KWS 333	MR	MR	MS	MR
Limagrain LCS	L11741	MS	MS	MS	MR
Limagrain LCS	L11809	R	MS	MS	MS
Limagrain LCS	L11919	R	MR	MR	MR
Local	LW2068	.	.	.	.
Local	LW2867	MS	MS	MR	MR
Rupp	RS 902	S	MS	R	MR
Rupp	RS 912	MS	MR	MR	MR
Rupp	RS 961	MS	MR	MR	MS
Rupp	RS 977	MR	MS	R	MR
Seed Consultants	SC 13S26™	S	S	MR	MR
Seed Consultants	SC 13S37™	MS	MS	MR	MR
Strike Genetics	203	MR	MR	MR	MR
Strike Genetics	503	MR	MS	MR	MR
Va. Tech	Liberty 5658	MR	MR	MR	MS
Wellman	W 304	S	MS	MR	MS
Wellman	W 305	MS	MR	MR	MR
Wellman	W 310	MR	MR	R	MR
Wellman	W 312	S	MR	MR	S

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

Brand	Variety	PM 2020	SLB 2020	SGB 2020	FHB 2020
Wellman	W 313	MS	MS	MR	MS
Wellman	W 314	MR	MS	MR	MR
Yerks	Y2313	MS	MR	R	MS
Yerks	Y925	S	MS	R	MR
Yerks	Y940	MS	MS	MR	MR

Powdery mildew (PM) Varieties were evaluated for Powdery mildew at Wooster at the heading (Feekes growth stage 10.5) growth stage.

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

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

All varieties were classified as Susceptible, Moderately Susceptible, Moderately Resistant and Resistant based on their disease scores relative to susceptible and resistant checks. It must be noted that there is no true resistance to these diseases. For instance, an R for FHB (head scab) means that the variety had comparable levels of scab to Truman, the resistant check.

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

Table 5. Ohio Wheat Performance Test, 2020—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	114 218 401 217B 220B	Swamp Master XT CruiserMaxx / Vibrance 5FS Storcide II / Vibrance Extreme Swamp Master XT CruiserMaxx / Vibrance
AgriMAXX	AgriMAXX Wheat Company 7167 Highbanks Rd. Mascoutah, IL 62258 855-629-9432 www.agrimaxxwheat.com	454 473 485 496 498 503 505 2003	Prime ST Prime ST Prime ST Prime ST Prime ST Prime ST Prime ST Prime ST
AgriPro	Burtch Seed Co., Inc. 4742 Tama Rd. Celina, OH 45822 419-363-3713 www.burtchseed.com	SY 007 SY 547 SY 576 SY Viper	CruiserMaxx / Vibrance CruiserMaxx / Vibrance CruiserMaxx / Vibrance CruiserMaxx / Vibrance
Albert Lea	Albert Lea Seed P.O. Box 127 1414 W. Main Street Albert Lea, MN 56007 800-352-5247 www.alseed.com	Erisman LCS 3334 Viking Volla	CruiserMaxx CruiserMaxx CruiserMaxx
Certified	Ohio Seed Improvement Assn. 6150 Avery Rd., Box 477 Dublin, OH 43017 614-889-1136 www.ohseed.org	Kokosing Starburst Sunburst	CeresUS IM G8 / Storcide II CeresUS IM G8 / Storcide II CeresUS IM G8 / Storcide II
Dyna-Gro	Dyna-Gro Seed 8947 County Rd. 84 Findlay, OH 45840 419-859-2131 www.dynagroseed.com	9002 9070 9182 9522 9692 9862 9941	Awaken ST / Foothold Virock Awaken ST / Foothold Virock Awaken ST / Foothold Virock Awaken ST / Foothold Virock Awaken ST / Foothold Virock Awaken ST / Foothold Virock Awaken ST / Foothold Virock
Ebberts	Ebberts Field Seeds Inc. 6840 North State Route 48 Covington, OH 45318 973-473-2521 www.ebbertsseeds.com	903 920 952 988	Takeoff ST / Vibrance Extreme Takeoff ST / Vibrance Extreme Takeoff ST / Vibrance Extreme Takeoff ST / Vibrance Extreme

Table 5. Ohio Wheat Performance Test, 2020—Seed Source & Seed Treatment. *(continued)*

FS Wheat	GROWMARK, Inc. 1701 Towanda Avenue Bloomington, IL 61701 309-557-6000 www.fsseeds.com	FS 599 FS 601 FS 616 FS 622 FS 624 WX20A WX20B	CruiserMaxx / Vibrance CruiserMaxx / Vibrance CruiserMaxx / Vibrance CruiserMaxx / Vibrance CruiserMaxx / Vibrance CruiserMaxx / Vibrance CruiserMaxx / Vibrance
KWS	KWS Cereals 4101 Colleen Dr. Champaign, IL 61822 217-800-1008 www.kws.com	KWS 280 KWS 291 KWS 333	Cruiser 5FS / Vibrance Extreme Cruiser 5FS / Vibrance Extreme Cruiser 5FS / Vibrance Extreme
Limagrain LCS	Limagrain Cereal Seeds 257 E. Hail Street Bushnell, IL 61422 309-569-0008 www.LimagrainCerealSeeds.com	L11741 L11808 L11919	Awaken / Cruiser / Dividend Awaken / Cruiser / Dividend Awaken / Cruiser / Dividend
Local	Local Seed Company, LLC 802 Rozelle Street Memphis, TN 38104 901-260-6000 www.localseed.com	LW2068 LW2867	Radius Premium Radius Premium
Rupp	Rupp Seeds, Inc. 17919 County Rd. B Wauseon, OH 43567 877-591-7333 www.ruppseeds.com	RS 902 RS 912 RS 961 RS 977	Rancona / SabrEx CruiserMaxx / Vibrance Rancona / SabrEx CruiserMaxx / Vibrance
Seed Consultants	Seed Consultants, Inc. 648 Miami Trace Rd. SW Washington Courthouse, OH 43160 800-708-2676 www.seedconsultants.com	SC 13S26™ SC 13S37™	CruiserMaxx / Vibrance CruiserMaxx / Vibrance
Strike Genetics	Burtch Seed Co., Inc. 4742 Tama Rd. Celina, OH 45822 419-363-3713 www.burtchseed.com	203 503	Vibrance Extreme Vibrance Extreme
Va. Tech	Virgina Crop Improvement Assn. 9225 Atlee Branch Lane Mechanicsville, VA 23116 804-746-4884 www.virginiacrop.org	Liberty 5658	Raxil MD Pro / Resonate 600ST
Wellman	Wellman Seeds, Inc. 23778 Delphos Jennings Rd. Delphos, OH 45833 800-717-7333 www.wellmanseeds.com	W 304 W 305 W 310 W 312 W 313 W 314	Encase Encase Encase Encase Encase Encase
Yerks	Yerks Seed, Inc. 20202 Notestine Rd. Woodburn, IN 46797 260-657-5127	Y 2313 Y 925 Y 940	CeresUS IM CeresUS IM CeresUS IM