



**THE OHIO STATE UNIVERSITY**

COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES

**THE 2023 OHIO WHEAT PERFORMANCE TEST**

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The purpose of the 2023 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 ft long. Participating companies specified the seeding rate used for each of their varieties. Test sites were planted within 21 days of the fly-free date. Approximately 30 lb N/acre was applied at planting with 80-100 lb N/acre in early spring. Herbicides, insecticides, and fungicides were applied as needed. Soybean was the previous crop and fields were minimally-tilled at all locations. The following data were collected:

**Yield** is reported in bushels/acre at 13.5% moisture.

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

**Seed Size** is thousands of harvested seed/pound (Ex. 15.5=15,500 seeds/lb).

**Lodging** is the percent of plants that lean more than 45° from vertical.

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

**Heading Date** was the average calendar day of the year on which 50% of the heads were completely emerged. Average of Wood and Pickaway locations (Ex: Day 135 = May 15).

**Stagonospora Leaf and Glume Blotch** Stagonospora levels were low; thus, resistance classes were not assigned. In Table 4, we present flag leaf and glume severity as a percentage.

**Powdery Mildew** Varieties were evaluated for PM at Wooster during heading (Feekes 10.5 growth stage). Each variety was classified as Susceptible, Moderately Susceptible, Moderately Resistant, or Resistant.

**Fusarium Head Blight** disease was not included in this year's report due to dry conditions and low disease incidence. Please contact your seed dealer for disease resistance information.

**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.



**GROWING CONDITIONS**

In fall 2022, wheat was planted at four out of five locations within 14 days of the fly-free date. Fall growth was limited by lack of rainfall, but entered dormancy in good condition. Cool temperatures and adequate subsoil moisture led to a long grain fill period and high-yielding conditions. However, grain moisture was higher and harvest dates were later than normal. Dry conditions in May resulted in lower-than-average disease incidence, and insufficient data at the disease nursery to provide FHB ratings. Grain yield averaged between 86.1 and 125.6 bu/acre among the five locations.

**RESULTS**

Results of the 2023 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 winter wheat varieties evaluated in 2023 are presented in Table 1. Tables 2 and 3 contain multi-year variety performance data. Depending on variety and test site, yields varied between 70.9 and 139.0 bu/acre and test weight ranged from 57.1 to 61.1 lb/bu. Yield differences among 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 & 3), winter hardiness, test weight, and standability. Table 4 includes grain quality (flour yield and softness) and disease information.

Table 5 contains the company contact information and seed treatments used for each variety entered. This report is online at: <https://ohiocroptest.cfaes.osu.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.

**Acknowledgments:** We thank our farmer cooperators for their contributions to the 2023 wheat variety testing program. We are grateful for the assistance provided by Ken Scaife, OARDC Field Operations, Wooster and Matt Davis, OARDC Northwest Branch Research Station. Special thanks to Rich Minyo, OARDC Wooster, for his assistance and expertise.

	Wood	Union	Wayne	Darke	Pickaway
Previous crop	Soybean	Soybean	Soybean	Soybean	Soybean
Soil Texture	Clay	Silty clay	Silt loam	Silty clay loam	Silt loam
Soil Series	Hoytville	Blount	Canfield	Crosby	Miamian
Fly-Free Date	Sept. 23	Sept. 28	Sept. 26	Sept. 29	Oct. 1
Plant Date	Oct. 4	Oct. 12	Oct. 11	Sept. 30	Oct. 1
Soil pH	6.7	6.1	6.4	6.5	6.0
Soil P- Mehlich (ppm)	40	18	62	68	29
Soil K (ppm)	219	111	219	252	177
Fertilizer (NPK)	123-57-72	118-130-0	122-58-75	120-0-51	114-66-60
Herbicides	Huskie	MCPA	Sharpen	Harmony Extra	Quelex
Fungicide	None	Prosaro	None	Miravis Ace	Sphaerex
Insecticide	None	None	None	None	Lamcap II
Harvest Date	July 10	July 7	July 11	July 6	July 5

**Table 1. Yield and Agronomic Characteristics of Wheat Varieties Tested in Ohio, 2023.**

Brand	Variety	Seed Rate	Wood	Union	Wayne	Darke	Pickaway	Avg.	Test Wt.	Seed Size	Lodging	Height	Heading Date
			bu/acre										
		#/ft											
AGI	114	25	102.8	77.6	104.0	120.0	106.4	102.2	59.6	15.2	0	33	142
AGI	312	25	105.4	89.6	115.8	131.6	113.6	111.2*	58.4	13.6	0	37	142
AGI	116B	25	104.1	92.9	113.0	124.9	106.6	108.3	58.5	12.7	0	35	140
AGI	217B	25	110.4	95.6	116.2	129.3	109.1	112.1*	58.2	12.2	0	35	140
AGI	222B	25	103.9	87.2	113.9	122.5	118.8	109.3	59.0	13.1	0	33	143
AGI	310B	25	110.0	90.7	113.8	126.8	112.5	110.8*	58.2	12.6	0	34	141
AgriMAXX	AM 454	25	107.3	86.3	113.9	130.8	111.7	110.0*	58.3	12.1	0	35	141
AgriMAXX	AM 498	25	105.3	73.8	105.5	130.4	108.0	104.6	58.1	12.8	0	36	142
AgriMAXX	AM 505	25	110.3	88.6	120.0	125.4	120.4	112.9*	60.4	11.5	0	36	142
AgriMAXX	AM 513	25	107.6	81.8	105.0	122.3	97.3	102.8	59.1	12.7	0	34	139
AgriMAXX	AM 514	25	106.0	88.8	116.4	124.4	106.7	108.5	57.7	12.7	0	34	141
AgriMAXX	AM 516	25	105.1	87.3	108.0	131.6	108.1	108.0	57.9	12.9	0	34	141
AgriMAXX	AM 525	25	104.6	83.8	115.4	117.7	109.4	106.2	59.2	11.8	0	32	141
AgriMAXX	AM 531	25	106.9	93.1	111.7	121.8	107.8	108.3	59.4	13.4	0	36	138
AgriMAXX	EXP 2302	25	103.6	83.3	114.4	134.7	109.7	109.1	59.1	13.8	0	34	141
Albert Lea	Viking 801	25	104.6	90.7	115.0	126.9	108.5	109.1	58.6	12.2	0	35	140
Certified	Enterprise	25	104.6	87.0	115.7	122.7	111.0	108.2	59.1	12.9	0	38	138
Certified	Kokosing	25	94.6	83.9	102.6	119.1	105.8	101.2	58.5	12.3	0	39	138
Certified	Starburst	25	107.0	78.1	107.4	118.8	98.9	102.0	60.9	11.9	0	31	141
Certified	Sunburst	25	103.7	77.8	103.8	126.8	106.5	103.7	61.1	13.6	0	31	141
Dyna-Gro	9151	27	106.7	93.7	118.5	116.8	108.6	108.9	60.2	11.3	0	35	141
Dyna-Gro	9172	27	103.7	88.0	110.4	135.2	105.5	108.6	57.7	13.3	0	34	141
Dyna-Gro	9182	27	108.4	97.3	110.6	129.9	106.3	110.5*	58.4	14.0	0	36	141
Dyna-Gro	9231	27	107.6	87.7	109.8	127.8	109.2	108.4	58.7	12.1	0	36	141
Dyna-Gro	9422	27	111.8	102.4	120.0	130.6	117.4	116.4*	58.3	12.4	0	35	140
Dyna-Gro	9481	27	99.3	87.4	101.3	123.3	105.5	103.4	57.8	14.6	0	34	141
Dyna-Gro	9862	27	98.1	78.6	101.0	122.3	101.6	100.3	59.5	14.4	0	34	143
Dyna-Gro	WX23444	27	108.2	95.8	121.5	127.3	117.6	114.1*	58.5	13.2	0	37	138
Ebberts	920	26	111.1	87.3	103.8	129.9	121.0	110.6*	58.6	13.9	0	36	140
Ebberts	922	28	102.0	87.0	103.5	115.5	107.1	103.0	57.4	15.0	0	34	139
Ebberts	945	28	105.3	83.8	118.2	122.8	116.4	109.3	60.4	11.9	0	35	141
Ebberts	955	26	103.3	83.6	111.7	122.0	117.1	107.5	59.2	12.3	0	33	143
FS Wheat	FS 597	25	101.9	84.3	107.4	127.1	98.2	103.8	58.5	12.6	0	34	141
FS Wheat	FS 600	25	105.0	75.8	118.4	125.9	102.5	105.5	60.2	11.7	0	34	141
FS Wheat	FS 606	25	110.4	85.0	115.4	122.7	103.3	107.4	60.1	12.4	0	38	140
FS Wheat	FS 617	25	104.1	88.2	112.1	121.8	112.2	107.7	58.7	12.8	0	33	144
FS Wheat	FS 623	25	110.9	79.1	116.3	117.9	115.3	107.9	58.6	12.5	0	36	140
FS Wheat	FS 624	25	111.5	88.1	118.2	128.0	119.6	113.1*	58.9	10.9	0	36	141
FS Wheat	FS 745	25	108.2	91.8	114.2	135.4	107.4	111.4*	58.0	13.9	0	34	141
FS Wheat	FS WX23A	25	104.3	76.7	112.2	128.8	112.2	106.8	59.0	11.2	0	37	142
FS Wheat	FS WX23B	25	112.3	80.4	121.8	128.2	110.0	110.5*	58.8	12.0	0	35	140

*Table 1 is continued on the next page.*

**Table 1. Yield and Agronomic Characteristics of Wheat Varieties Tested in Ohio, 2023. (continued)**

Brand	Variety	Seed Rate	Wood	Union	Wayne	Darke	Pickaway	Avg.	Test Wt.	Seed Size	Lodging	Height	Heading Date
			bu/acre										
KWS	KWS 453	25	104.0	84.4	106.3	123.0	115.2	106.6	58.7	15.5	0	33	143
KWS	KWS 472	25	101.4	79.6	108.7	122.5	116.9	105.8	58.9	12.9	0	33	142
KWS	KWS 477	25	103.7	81.9	109.3	123.1	119.5	107.5	59.1	12.6	0	35	140
KWS	KWS 482	25	104.7	83.6	107.9	116.8	110.6	104.7	58.9	14.7	0	34	140
KWS	KWS 490	25	110.4	100.1	116.6	126.9	117.7	114.3*	58.5	14.1	0	34	143
KWS	KWS 492	25	102.3	83.1	103.4	127.6	117.0	106.7	59.6	13.3	0	33	144
KWS	KWS 495	25	102.5	84.0	114.4	125.5	105.4	106.4	57.6	12.5	0	31	141
Langdon	LB1936	26	95.7	70.9	101.9	106.3	101.9	95.3	57.1	12.5	0	33	138
Pond	PSC 224	25	108.6	77.3	116.6	124.6	103.7	106.2	58.8	12.4	0	35	140
Pond	PSC 613	25	100.7	80.8	106.0	124.9	111.0	104.7	59.1	12.6	0	32	142
Pond	PSC 637	25	103.2	81.4	112.0	125.8	116.6	107.8	58.8	13.1	0	36	141
Seed Consultants	13S03™	25	108.2	94.0	115.1	130.5	115.6	112.7*	58.6	12.2	0	36	140
Seed Consultants	13S14™	25	113.5	100.4	115.1	139.0	114.7	116.5**	58.1	12.2	0	34	141
Seed Consultants	13S22™	25	106.6	79.2	112.0	127.2	111.4	107.3	57.7	13.2	0	34	141
Strike Genetics	127	25	108.1	95.3	106.2	124.1	108.6	108.5	57.6	12.9	0	33	140
Strike Genetics	707	27	107.3	93.1	117.0	131.6	117.1	113.2*	58.6	14.2	0	37	139
Strike Genetics	Envy	25	110.0	88.5	117.5	126.6	119.1	112.3*	58.7	14.3	0	37	138
Synergy	Adrian	26	105.5	85.3	103.1	124.4	105.1	104.7	57.4	14.7	0	35	139
Synergy	Frantz	26	108.0	87.5	116.8	133.1	105.6	110.2*	58.1	12.9	0	34	141
Synergy	Loyer	26	110.7	92.4	116.4	121.3	111.4	110.4*	57.9	12.4	0	34	141
Synergy	Nova	26	103.9	83.1	118.9	134.5	121.0	112.3*	58.5	13.2	0	37	142
Va. Tech	16VDH-SRW03-023	25	115.2	86.9	119.7	129.9	100.1	110.4*	58.5	13.0	0	35	141
Va. Tech	VA19FHB-36	25	111.9	90.0	115.3	130.4	102.7	110.1*	60.3	11.4	0	38	139
Wellman	W 300	25	99.8	85.9	110.6	118.5	101.6	103.3	57.3	13.8	0	33	140
Wellman	W 305	25	106.4	71.1	104.9	121.9	104.9	101.8	59.6	14.0	0	34	142
Wellman	W 313	25	106.3	99.9	110.4	126.0	112.2	111.0*	58.4	13.2	0	36	141
Wellman	W 314	25	105.3	90.4	108.9	122.9	111.8	107.9	59.1	12.1	0	33	142
Wellman	W 318	25	108.8	84.3	115.2	130.8	120.3	111.9*	57.8	12.5	0	35	141
Wellman	W 322	25	106.7	88.2	107.5	128.5	111.7	108.5	58.6	12.0	0	35	140
Wellman	W 324	25	102.4	76.5	107.8	129.3	111.6	105.5	57.9	13.2	0	34	141
Yerks	Y938	24	106.9	82.9	104.6	117.7	111.4	104.7	57.8	14.8	0	35	141
Yerks	Y940	24	106.5	86.8	108.2	129.1	110.3	108.2	58.5	13.1	0	36	141
Yerks	Y955	24	105.3	82.9	112.4	123.3	108.4	106.5	57.8	12.9	0	34	142
<b>High</b>		28	115.2	102.4	121.8	139.0	121.0	116.5	61.1	15.5	0	39	144
<b>Average</b>		25	106.0	86.1	111.7	125.6	110.3	107.9	58.7	13.0	0	35	141
<b>Low</b>		24	94.6	70.9	101.0	106.3	97.3	95.3	57.1	10.9	0	31	138
<b>LSD (p = 0.10)</b>			4.9	8.3	7.1	8.3	9.5	7.2	0.7			1.4	1.3
<b>CV</b>			4.0	8.2	5.4	5.7	7.4	14.0	2.2			8.7	4.3

\*\*Highest yielding variety

\*Not statistically different from the highest yielding variety.

**Table 2. Yield and Agronomic Characteristics of Wheat Varieties Tested in Ohio, 2022-2023.**

Brand	Variety	Wood	Wayne	Darke	Pickaway	Ave.	Test Wt.	Lodging	Height	Heading Date
		bu/acre					lb/bu	%	inch	
AGI	114	97.4	103.8	111.3	97.9	102.6	59.4	1	34	140
AGI	116B	93.9	102.9	119.0	99.4	103.8	58.5	4	35	139
AGI	217B	101.9	109.1	121.5	104.2	109.2	58.1	0	35	139
AGI	222B	90.3	106.8	117.8	107.1	105.5	58.7	0	33	141
AGI	310B	98.5	108.3	123.6	107.7	109.5	57.9	0	34	140
AgriMAXX	AM 454	97.5	105.1	120.1	106.0	107.2	58.0	5	35	139
AgriMAXX	AM 498	95.4	97.7	123.8	102.4	104.8	57.7	3	36	140
AgriMAXX	AM 505	98.5	107.9	119.8	109.7	108.9	60.3	1	35	140
AgriMAXX	AM 513	100.1	102.6	114.5	98.2	103.8	59.5	2	35	138
AgriMAXX	AM 516	94.5	101.0	120.8	101.9	104.5	58.0	0	34	139
AgriMAXX	AM 525	100.9	104.1	119.5	108.1	108.1	58.8	3	33	140
Albert Lea	Viking 801	93.9	106.7	117.3	106.1	106.0	58.4	4	36	139
Certified	Kokosing	86.6	99.3	109.1	99.3	98.6	58.2	1	38	137
Certified	Starburst	94.2	107.6	116.6	92.9	102.8	60.4	0	31	139
Certified	Sunburst	94.0	103.4	115.8	99.4	103.1	60.8	0	32	140
Dyna-Gro	9151	95.2	106.2	114.3	102.5	104.5	60.1	2	35	139
Dyna-Gro	9172	95.3	98.6	119.7	100.5	103.5	57.8	1	34	139
Dyna-Gro	9182	100.5	106.1	121.2	96.6	106.1	58.6	1	36	139
Dyna-Gro	9231	99.4	100.7	123.0	105.1	107.0	58.6	5	36	139
Dyna-Gro	9422	99.5	111.5	123.5	111.7	111.5	58.0	2	35	139
Dyna-Gro	9862	96.3	98.6	115.9	95.8	101.6	59.3	0	34	140
Ebberts	920	102.5	101.4	122.8	107.0	108.4	58.6	3	36	139
Ebberts	945	96.2	105.7	116.9	106.4	106.3	60.2	2	35	139
FS Wheat	FS 600	95.8	105.9	122.7	94.4	104.7	60.0	0	34	139
FS Wheat	FS 617	92.7	106.3	118.8	103.4	105.3	58.6	0	33	141
FS Wheat	FS 623	104.0	107.0	112.9	102.5	106.6	58.6	2	36	139
FS Wheat	FS 624	96.6	107.3	121.5	107.9	108.3	58.6	1	36	139
FS Wheat	FS 745	97.6	100.6	123.4	100.4	105.5	58.0	2	34	139
FS Wheat	FS WX23B	99.2	105.1	121.5	103.7	107.4	58.5	7	36	139
Seed Consultants	13S14™	99.9	107.8	131.4	111.4	112.6	58.0	0	34	139
Seed Consultants	13S22™	97.3	99.2	116.9	104.0	104.3	57.7	3	34	139
Synergy	Loyer	98.5	105.9	116.6	103.6	106.1	57.2	2	34	139
Wellman	W 300	87.7	102.8	114.0	101.3	101.4	57.3	4	33	139
Wellman	W 305	100.0	105.4	112.4	97.8	103.9	59.5	0	34	140
Wellman	W 313	100.2	101.2	117.3	99.6	104.5	58.5	2	36	139
Wellman	W 318	101.7	106.0	126.2	112.5	111.6	57.7	3	35	139
Wellman	W 322	93.9	101.0	124.3	106.4	106.4	58.5	1	36	139
Wellman	W 324	93.9	99.0	117.5	102.1	103.1	58.0	0	34	140
Yerks	Y940	98.1	102.6	116.9	101.2	104.7	58.5	2	36	139
Yerks	Y955	93.3	100.2	112.3	101.3	101.7	57.7	1	34	140
<b>High</b>		104.0	111.5	131.4	112.5	112.6	60.8	7	38	141
<b>Average</b>		96.8	103.9	118.8	103.0	105.6	58.6	2	35	139
<b>Low</b>		86.6	97.7	109.1	92.9	98.6	57.2	0	31	137

**Table 3. Yield and Agronomic Characteristics of Wheat Varieties Tested in Ohio, 2021-2023.**

Brand	Variety	Wood	Wayne	Darke	Pickaway	Avg.	Test Wt. (lb/bu)	Lodging %	Height (in)	Heading Date
		-bu/acre-					lb/bu	%	inch	
AGI	114	100.7	102.3	101.2	95.1	99.8	59.0	0	34	140
AGI	116B	99.2	104.4	107.7	99.3	102.6	58.8	3	36	138
AGI	217B	107.1	109.5	107.5	103.2	106.8	58.1	0	35	139
AGI	222B	98.2	107.7	108.2	104.5	104.6	58.7	0	34	141
AgriMAXX	AM 454	102.9	107.7	109.2	104.7	106.1	57.9	4	36	139
AgriMAXX	AM 498	101.6	100.0	112.7	100.5	103.7	57.4	2	36	140
AgriMAXX	AM 505	103.3	108.9	106.3	104.4	105.7	60.3	1	36	139
AgriMAXX	AM 513	103.9	102.6	104.0	99.8	102.6	59.3	1	35	138
AgriMAXX	AM 516	100.4	103.8	109.0	101.3	103.6	58.0	0	34	139
Certified	Kokosing	90.7	99.7	100.3	97.7	97.1	57.9	0	39	136
Certified	Starburst	97.6	107.4	104.7	92.3	100.5	59.9	0	32	139
Certified	Sunburst	97.2	104.0	102.9	96.8	100.2	60.2	0	32	139
Dyna-Gro	9151	100.3	107.9	106.4	101.2	104.0	60.1	1	35	139
Dyna-Gro	9172	99.4	101.4	109.0	101.1	102.7	58.0	0	34	139
Dyna-Gro	9182	104.4	105.0	107.2	94.8	102.9	58.4	0	36	139
Dyna-Gro	9231	103.8	103.9	111.0	103.8	105.6	59.0	3	36	139
Dyna-Gro	9862	99.9	101.2	104.2	95.2	100.1	59.0	0	34	140
Ebberts	920	106.4	102.6	109.1	103.4	105.4	58.3	2	37	139
FS Wheat	FS 600	101.3	105.8	111.8	93.9	103.2	59.9	0	35	139
FS Wheat	FS 623	106.7	105.6	103.2	100.6	104.0	58.4	1	37	139
FS Wheat	FS 624	102.8	108.7	111.3	104.7	106.9	58.4	1	37	139
FS Wheat	FS 745	102.7	102.8	110.8	100.3	104.1	58.0	1	34	139
Wellman	W 300	93.5	103.4	103.3	100.6	100.2	57.5	3	34	138
Wellman	W 305	103.1	104.6	100.1	96.7	101.1	58.9	0	34	140
Wellman	W 313	103.9	101.3	105.0	99.3	102.4	58.1	2	37	139
Wellman	W 322	99.2	103.0	110.9	106.2	104.8	58.9	0	36	138
Wellman	W 324	99.6	102.7	106.8	101.9	102.8	58.0	0	35	139
Yerks	Y940	102.4	102.0	104.0	98.4	101.7	58.3	1	37	139
<b>High</b>		107.1	109.5	112.7	106.2	106.9	60.3	4	39	141
<b>Average</b>		101.1	104.3	106.7	100.1	103.0	58.7	1	35	139
<b>Low</b>		90.7	99.7	100.1	92.3	97.1	57.4	0	32	136

**Table 4. Grain Quality and Disease Ratings of Wheat Varieties Tested in Ohio, 2023.**

Brand	Variety	Grain Quality		Stagonospora		Powdery Mildew	Brand	Variety	Grain Quality		Stagonospora		Powdery Mildew
		Flour	Softness	Leaf	Glume	Rank			Flour	Softness	Leaf	Glume	Rank
AGI	114	68.4	40.7	8.75	2.00	MS	Seed Consultants	13S03™	69.6	65.5	5.00	0.00	MR
AGI	312	68.9	55.4	3.00	0.00	R	Seed Consultants	13S14™	69.1	65.3	7.50	0.00	R
AGI	116B	69.2	64.5	7.50	0.50	MR	Seed Consultants	13S22™	70.0	61.2	3.00	0.25	MS
AGI	217B	71.6	62.6	12.50	0.00	S	Strike Genetics	127	67.7	58.0	5.25	0.00	S
AGI	222B	68.3	60.1	4.00	0.75	R	Strike Genetics	707	68.1	63.8	6.50	0.00	R
AGI	310B	69.0	63.1	10.00	0.00	R	Strike Genetics	Envy	68.0	63.5	3.25	0.00	R
AgriMAXX	AM 454	71.4	61.7	12.50	0.00	S	Synergy	Adrian	65.6	56.7	5.25	0.00	MR
AgriMAXX	AM 498	70.4	58.4	6.25	0.00	S	Synergy	Frantz	69.5	63.5	7.50	0.00	MS
AgriMAXX	AM 505	66.1	59.4	3.00	0.50	MS	Synergy	Loyer	68.2	58.8	6.75	0.50	R
AgriMAXX	AM 513	68.6	52.9	4.00	0.00	MS	Synergy	Nova	69.2	59.2	1.75	0.00	MR
AgriMAXX	AM 514	69.9	63.2	7.50	0.00	MS	Va. Tech	16VDH-SRW03-	70.2	60.9	3.00	0.00	MR
AgriMAXX	AM 516	69.6	61.2	6.50	0.00	MS	Va. Tech	VA19FHB-36	66.5	57.5	4.25	0.50	MR
AgriMAXX	AM 525	67.8	60.4	6.25	0.00	MR	Wellman	W 300	69.9	57.8	10.00	0.00	MS
AgriMAXX	AM 531	70.0	57.9	11.25	0.00	S	Wellman	W 305	69.3	49.5	11.25	2.75	MS
AgriMAXX	EXP 2302	68.1	53.3	5.25	0.00	S	Wellman	W 313	68.6	58.7	10.00	0.00	MS
Albert Lea	Viking 801	69.1	63.6	5.00	0.25	R	Wellman	W 314	68.0	59.2	3.00	0.25	MS
Certified	Enterprise	67.9	59.9	7.75	0.25	MR	Wellman	W 318	70.1	65.0	7.50	0.50	MR
Certified	Kokosing	72.6	61.2	3.75	0.00	R	Wellman	W 322	67.7	56.9	6.25	0.50	MR
Certified	Starburst	63.9	46.0	20.00	0.00	R	Wellman	W 324	69.7	61.3	10.00	0.25	MS
Certified	Sunburst	64.7	52.4	17.50	0.00	R	Yerks	Y938	65.9	58.9	6.50	0.00	MS
Dyna-Gro	9151	66.5	58.9	6.50	0.50	S	Yerks	Y940	68.4	57.3	6.25	0.00	S
Dyna-Gro	9172	69.0	59.9	5.00	0.25	MS	Yerks	Y955	69.5	61.6	4.25	0.00	MR
Dyna-Gro	9182	68.9	58.7	10.00	0.00	S							
Dyna-Gro	9231	68.5	60.7	4.00	0.25	MR							
Dyna-Gro	9422	68.9	61.3	4.00	0.00	R							
Dyna-Gro	9481	65.7	57.5	4.25	0.00	MS							
Dyna-Gro	9862	68.8	47.1	10.00	3.00	MS							
Dyna-Gro	WX23444	66.6	57.6	5.00	0.00	R							
Ebberts	920	68.3	59.1	12.50	0.00	MS							
Ebberts	922	65.5	56.3	9.00	0.00	MS							
Ebberts	945	65.5	57.3	4.00	0.75	MR							
Ebberts	955	68.2	60.3	3.00	0.00	MR							
FS Wheat	FS 597	68.5	63.7	8.75	0.00	MR							
FS Wheat	FS 600	65.5	58.4	4.00	0.75	MS							
FS Wheat	FS 606	68.6	55.4	4.00	0.00	MR							
FS Wheat	FS 617	68.8	64.5	6.50	0.50	R							
FS Wheat	FS 623	69.0	59.2	8.75	0.00	MS							
FS Wheat	FS 624	69.8	60.2	8.75	10.00	MS							
FS Wheat	FS 745	69.7	63.2	4.25	0.00	MS							
FS Wheat	FS WX23A	66.4	52.9	5.00	0.00	MS							
FS Wheat	FS WX23B	69.4	64.1	4.25	0.25	MR							
KWS	KWS 453	67.3	56.5	3.00	0.00	MR							
KWS	KWS 472	68.0	60.5	6.50	0.00	MS							
KWS	KWS 477	69.1	59.1	7.50	0.00	S							
KWS	KWS 482	68.1	52.8	4.00	0.00	R							
KWS	KWS 490	68.0	56.5	4.00	0.00	S							
KWS	KWS 492	68.3	61.5	7.75	0.00	MS							
KWS	KWS 495	69.3	59.7	4.25	0.25	MS							
Langdon	LB1936	69.9	64.6	2.75	0.00	MS							
Pond	PSC 224	68.9	61.8	3.00	0.25	MR							
Pond	PSC 613	67.6	63.0	4.00	0.00	MS							
Pond	PSC 637	67.6	55.8	6.50	0.00	S							

**Stagonospora**– In 2023, stagonospora levels were low; thus, resistance classes were not assigned. In Table 4, we present flag leaf and glume severity as a percentage.

**Powdery Mildew**– Varieties were rated for powdery mildew resistance. S = susceptible, MS = moderately susceptible, MR = moderately resistant, R = resistant

**Table 5. Ohio Wheat Performance Test, 2023 — Seed Source & Seed Treatment**

<u>Brand</u>	<u>Producer</u>	<u>Variety</u>	<u>Seed Treatment</u>	<u>Brand</u>	<u>Producer</u>	<u>Variety</u>	<u>Seed Treatment</u>
AGI	Advanced Genetics, Inc. 11491 Foundation Rd., Box 6 Croton, OH 43013 740-893-2501 www.advancedgeneticsinc.com	114	CeresUS IM	Strike Genetics	Burtch Seed Co., Inc. 4742 Tama Rd. Celina, OH 45822 419-363-3713 www.burtchseed.com	127	Cruiser/Vibrance Extreme
		312	CeresUS IM			707	Vibrance Extreme
		116B	CeresUS IM			Envy	Vibrance Extreme
		217B	CruiserMaxx/Vibrance				
		222B	CeresUS IM				
		310B	CruiserMaxx/Vibrance				
AgriMAXX	AgriMAXX Wheat Company 7167 Highbanks Rd. Mascoutah, IL 62258 855-629-9432 www.agrimaxxwheat.com	AM 454	Prime ST	Synergy	Synergy Ag 6150 N. County Rd. 33 Tiffin, OH 44883 419-618-8428 www.synergyagseeds.com	Adrian	Surestand
		AM 498	Prime ST			Frantz	Surestand
		AM 505	Prime ST			Loyer	Surestand
		AM 513	Prime ST			Nova	Surestand
		AM 514	Prime ST				
		AM 516	Prime ST				
		AM 525	Prime ST				
		AM 531	Prime ST				
EXP 2302	Prime ST						
Albert Lea	Albert Lea Seed P.O. Box 127 1414 W. Main Street Albert Lea, MN 56007 800-352-5247 www.alseed.com	Viking 801	CruiserMaxx/Vibrance/Cruiser 5FS				
Certified	Ohio Foundation Seeds, Inc. 11491 Foundation Rd., Box 6 Croton, OH 43013 740-893-2501	Enterprise	CeresUS IM G8	Wellman	Wellman Seeds, Inc. 23778 Delphos Jennings Rd. Delphos, OH 45833 800-717-7333 www.wellmanseeds.com	W 300	Encase
						W 305	Encase
						W 313	Encase
						W 314	Encase
						W 318	Encase
W 322	Encase						
W 324	Encase						
Certified	Ohio Seed Improvement Assn. 11491 Foundation Rd., PO Box 3 Croton, OH 43013 614-889-1136 ohioseed.org	Kokosing	CeresUS IM G8	Yerks	Yerks Seed, Inc. 20202 Notestine Rd. Woodburn, IN 46797 260-657-5127	Y 938	CruiserMaxx/Vibrance
		Starburst	CeresUS IM G8			Y 940	CruiserMaxx/Vibrance
		Sunburst	CeresUS IM G8			Y 955	CruiserMaxx/Vibrance
Dyna-Gro	Dyna-Gro Seed 8947 County Rd. 84 Findlay, OH 45840 419-859-2131 www.dynagroseed.com	9151	Awaken ST/Foothold Virock				
		9172	Awaken ST/Foothold Virock				
		9182	Awaken ST/Foothold Virock				
		9231	Awaken ST/Foothold Virock				
		9422	Awaken ST/Foothold Virock				
		9481	Awaken ST/Foothold Virock				
		9862	Awaken ST/Foothold Virock				
		WX23444	Awaken ST/Foothold Virock				
Ebberts	Ebberts Field Seeds Inc. 6840 N. State Route 48 Covington, OH 45318 973-473-2521 www.ebbertsseeds.com	920	Vibrance Extreme				
		922	CruiserMaxx/Vibrance				
		945	Vibrance Extreme				
		955	CruiserMaxx/Vibrance				
FS Wheat	GROWMARK, Inc. 1701 Towanda Avenue Bloomington, IL 61701 309-557-6000 www.fsseeds.com	FS 597	Vibrance Extreme/Insecticide				
		FS 600	Vibrance Extreme/Insecticide				
		FS 606	Vibrance Extreme/Insecticide				
		FS 617	Vibrance Extreme/Insecticide				
		FS 623	Vibrance Extreme/Insecticide				
		FS 624	Vibrance Extreme/Insecticide				
		FS 745	Vibrance Extreme/Insecticide				
		WX23A	Vibrance Extreme/Insecticide				
		WX23B	Vibrance Extreme/Insecticide				
KWS	KWS Cereals 4101 Colleen Dr. Champaign, IL 61822 217-800-1008 www.kws.com	KWS 453	CruiserMaxx/Vibrance				
		KWS 472	CruiserMaxx/Vibrance				
		KWS 477	CruiserMaxx/Vibrance				
		KWS 482	CruiserMaxx/Vibrance				
		KWS 490	CruiserMaxx/Vibrance				
		KWS 492	CruiserMaxx/Vibrance				
		KWS 495	CruiserMaxx/Vibrance				
Langdon	Langdon Brothers Seed 3590 S 100 E Hartford City, IN 47348 800-526-4366 www.langdonbrosseed.com	LB1936	Vibrance Extreme				
Pond	Pond Seed Company, LLC 12462 Blaine St. Scott, OH 45886 419-622-6141 www.pondseedco.com	PSC 224	CruiserMaxx/Vibrance/Cruiser 5FS				
		PSC 613	CruiserMaxx/Vibrance/Cruiser 5FS				
		PSC 637	CruiserMaxx/Vibrance/Cruiser 5FS				
Seed Consultants	Seed Consultants, Inc. 648 Miami Trace Rd. SW Washington Courthouse, OH 43160 800-708-2676 www.seedconsultants.com	SC 13S03™	CruiserMaxx/Vibrance/Cruiser 5FS				
		SC 13S14™	CruiserMaxx/Vibrance/Cruiser 5FS				
		SC 13S22™	CruiserMaxx/Vibrance/Cruiser 5FS				