2025 Michigan State Wheat Performance Trials

Photo: Wheat Performance Trials, Monroe County

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MICHIGAN WHEAT PROGRAM

2025 Michigan State Wheat Performance Trials

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Wheat planting was generally on time for most parts of Michigan in fall of 2024. Soybeans and dry beans matured in time to allow for timely planting of winter wheat. Much of the wheat growing regions of the state were dry to very dry at planting, leading some farms to plant later than desired due to lack of soil moisture. Other farms planted into dry conditions. Where soil moisture was adequate for germination and emergence, wheat tillered out well and looked good going into dormancy. Most of the state had enough moisture by mid-October for germination and overall the crop looked good, but some fields were not tillered as much as others

Overwintering conditions were favorable in most parts of the state. There were several arctic air systems that brought very cold temperatures throughout the winter. Wheat still survived quite well mostly due to snow cover during the cold snaps. An early snow storm blanketed wheat in as much as a foot of snow while soil temperatures were still warm. This caused snow molds to grow in many fields, with some experiencing enough damage that the crop was destroyed. Spring warm up seemed slow, causing wheat growth to begin slow putting it much further behind last year in terms of growth stages. This allowed more time for tillering in the spring for those fields that delayed planted or delayed emergence due to dry soil conditions. Spring and early summer warmed slowly with below normal GDD accumulation up to about Feekes 9. Cool conditions with high humidity provided the right conditions for powdery mildew to form and thrive. Many fields were treated with T1 fungicide as a result.

Little or no stripe rust was found this year. Disease pressure was light until flowering (Feekes 10.5.1). As the grain fill period started, it became apparent that there was high yield potential. Many fields had some lodging (nitrogen application overlap areas) while others had significant lodging. A severe thunderstorm with high winds occurred about half way through the grain fill period that caused severe lodging in high yielding fields and those that did not receive an application of a PGR. Fields that were treated with PGR still experienced some lodging.

Some fields in the region saw high levels of cereal leaf beetle populations and feeding requiring control. High levels of beneficial insects were being found in fields across the region. Despite reports of armyworm larvae in some fields, populations and feeding remained low overall.

At harvest, crop quality was initially high with no reports of fusarium head blight. However, frequent rain led to some preharvest sprout issues. Crops harvested after multiple rains saw falling numbers drop below 225 in certain areas. In west-central Michigan, stinking smut (common bunt) was reported and can result in load rejection. Test weights varied, and harvest started closer to normal, rather than early like last year.

Temperatures were warmer at all locations compared to 2024. Generally, the highest temperatures occurred near the end of the grain fill period. While the high temperatures reduced yield potential, it could have been worse if the high temperatures occurred earlier in the grain fill period. Of the three locations listed, Pigeon was the driest in April, May and July. However, in June Pigeon recorded 7.1 inches of rain for the month. At Richville and Mason, rainfall was fairly well distributed over the four months.

Figure 1. Number of days above 90 F, 85 F and rainfall data from Michigan Automated Weather Station Network, MSU for three of the MSU Wheat Variety Trial Locations for the 2023, 2024 and 2025 growing seasons. 2025 data was reported through July 20, 2025.

	2023			2024			2025		
	Pigeon	Richville	Mason	Pigeon	Richville	Mason	Pigeon	Richville	Mason
Above 90 F	8	4	8	3	1	2	6	4	6
Above 85 F	16	15	21	10	9	14	16	15	20
April (in)	3.4	3.1	3.7	2.2	2.8	2.5	1.1	3.7	3.0
May (in)	1.6	1.0	1.3	2.8	4.1	2.8	1.7	4.5	3.9
June (in)	1.6	1.5	0.8	2.2	3.9	3.9	7.1	3.9	3.6
July (in)	4.1	3.5	1.9	3.5	3.2	4.7	1.0	1.9	1.4

Choosing Varieties
Variety selection is best made using at least three years of data. Varieties selected using data across all locations and multiple years will likely perform well under a wide range of conditions; although, performance of a given variety will vary based on testing location. In selecting varieties for a specific location, it is important to identify varieties that perform well near the location where the variety will be grown. Table 1 provides information on which varieties are top performers in each of the reported trial locations in 2023 through 2025. Selection and planting of two or more varieties is recommended. As an example, planting varieties that differ in flowering date can allow for staggering of management applications, specifically, fungicides to control Fusarium head blight. When selecting varieties, look at disease resistance as well as yield potential.

Disclaimer: MSU *makes no endorsement of any wheat variety or brand*.

Experimental Design
The 2025 State Wheat Performance Trial entries were planted in 7 counties: Gratiot, Allegan, Ingham, Huron, Monroe, Sanilac and Tuscola. Appendix A (below) presents information on each of these sites. Each plot contained 6 rows with 7.5" row spacing and was planted to a length of 16 feet. Plots were trimmed to a length of 12 feet long in the spring for harvesting purposes. Sites were designed as Alpha Lattice with three replications. All seed was treated, but the chemicals and rates used varied according to the preferences of the originating organization. Seeding rates per linear foot of row were standardized to the rate that would equate with a stand of 1.5 million seeds per acre in a solid stand planted in 7.5" rows. Fall fertilizer application varied with cooperator practice.

All sites received split nitrogen application (90 pounds at Feekes 4-5 and 30 pounds at Feekes 6-7), sulfur was applied (24 pounds) with the first nitrogen application, two fungicide applications (T1 and T3) and herbicide application to control weeds.

All plots within a location were harvested on a single day. Yield was calculated using the entire area of the plot including the wheel tracks between plots leading to an underestimation of yield. For data reported on a 0-9 scale 0 is the best possible score.

Data is not being reported for Gratiot, Allegan or Ingham counties, each for different reasons. Gratiot had good yields, but there was a significant yield gradient across the plot area that could not be explained. Allegan had lodging so bad that the combine had trouble picking up the wheat, so yield was left in the field. Ingham county suffered the worst case of cephalosporium stripe in history, causing plants to senesce early.

Five of our experimental sites are on private farmland. We are extremely grateful to those growers for accommodating our work and all the associated inconveniences. Funding for the high-management trial inputs was provided by the Michigan Wheat Program. Questions and comments regarding the research reported here should be directed to Dennis Pennington at pennin34@msu.edu or (269) 832-0497. This report and previous reports, may also be accessed through the Web at http://www.varietytrials.msu.edu/wheat .

Multi-Year Performance Summary
The full trial included 100 entries (45 of which were experimental lines) from 11 organizations, including Michigan State University, and data analyses were conducted using all of these entries. Attached to this narrative is a list of the names and contact information for those organizations. Each row in these tables has data for a single entry. The columns contain averages for a given trait and time period. Data for all the entries in this trial are not presented here. However, the averages and statistical parameters in this report are based on the entire set of evaluated materials. **Comparisons among entries are only valid within a column**. Tables 1 and 2 are sorted first by grain color, and then in descending order by overall yield for 2025. Tables 3 and 4 are sorted in alphabetic order by company and entry name. In some instances (e.g. yield), data columns to the right of the 2025 data columns are multi-year averages. Only data for entries included in all the relevant years' tests are found here. Not all entries have been tested in all years, so the tables have several blank cells. See the section titled 'Experimental Design' for details on how the trials were conducted and for more detail on what the data in each column represents.

At the bottom of most columns in the tables is the trial average (mean), LSD (least significant difference), and CV (coefficient of variation) for data in that column. LSD values vary among traits and data sets (combinations of sites and years). Differences between the means for two entries that are greater than the LSD for that column are very likely to reflect a genuine difference between the two varieties. If the difference between two means is smaller than the LSD for that column, one should conclude that there is **no evidence that those entries are different for that trait** in the years and sites considered.

Table 1 contains yield data. This data was acquired electronically on the plot combine at the time of harvest using a Harvest Master II from Juniper Systems. Yield data is standardized to 13.5% moisture. The 2025 yield data contains the multi-year yield averages of for entries included in all of the relevant years' tests.

Table 2 contains test weight and percent moisture for all locations along with the overall average across locations.

Table 3 contains data on resistance to Fusarium Head Blight (FHB, scab). Once 2025 data from the lab are back, this report will be updated. Scab data were obtained from heavy disease pressure in an inoculated scab screening nursery. FHB infected grain is spread to provide inoculum and artificial misting provides disease-promoting conditions throughout the entire flowering period. 2025 grain samples will be submitted for DON analysis and will be reported later. Spikes were sampled from two replicates of the Ingham County site for **Falling Number (FN).** Spikes were harvested at physiological maturity and dried five days and then subjected to misting in the greenhouse for 48 hours. Whole meal flour was milled from misted grain using a coffee grinder. FN was then evaluated in two technical replicates on each biological replicate.

The **heading date** indicates the average number of days past January 1st that a given entry reached the point where ½ of its heads were emerged past the auricles of the flag leaf. **Plant height** is reported as the distance in inches from the ground to the tip of average heads in a plot.

FHB Resistance Traits
Severity: The average percent of infected spikelets in each head.
DON: Levels of mycotoxin (ppm) present in grain. DON data is from the 2024 crop year.

Levels of DON and severity are the most reliable traits to be used in selecting FHB-resistant varieties.

Table 4 contains data for **milling and baking quality**. Quality data are from the 2024 harvest season and prior. Data were generated by the USDA Eastern Soft Wheat Quality Laboratory in Wooster, Ohio on grain harvested from the Michigan State Variety trial each year. Flour yield is the ratio of the weight of extractable flour to the weight of milled grain, expressed as a percentage. Percent protein in flour is adjusted at 14% moisture. Softness equivalent percent is the softness of the flour, with higher values indicating softer grained wheat. For cookie diameter, a larger diameter is better. Whole grain protein (%) and whole grain hardness are reported with 0-100, and higher values indicating harder wheat. The quality lab test weight is not identical to the test weight at harvest due to grain drying and grain cleaning prior to quality laboratory test weight evaluation. Solvent Retention Capacity (SRC) can be conducted on flour using several different solvents and reflects different characteristics of flour quality. Soft wheat flour for cookies typically have a target of 95% or less when used by the US baking industry for biscuits and crackers. Sodium carbonate SRC increases as starch damage due to milling increases. Normal values for good milling soft varieties are 68% or less. Lactic acid measures gluten strength with "weak" soft varieties having values below 85% and strong gluten soft varieties having values, typically, above 105% or 110%.

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Appendix A. Trial Site Descriptions for 2025 MSU Wheat Performance Trials.

	FUSARIUM HEAD BLIGHT NURSERY	HURON COUNTY	GRATIOT COUNTY	Monroe COUNTY	SANILAC COUNTY	TUSCOLA COUNTY	INGHAM COUNTY	ALLEGAN COUNTY
COOPERATOR	Michigan State University	Darwin Sneller	Wallace Loewen	Brad Kamprath	Dwight Bartle	Saginaw Vellay Research and Extension Center	Michigan State University	Nick Suwyn
NEAREST CITY	Lansing	Sebewaing	Middleton	Ida	Brown City	Richville	Meridian TWP	Caledonia
PLANTING DATE	October 11, 2024	October 4, 2024	September 24, 2024	September 26, 2024	October 4, 2024	September 22, 2024	September 19, 2024	September 21, 2024
HARVEST DATE	July 19, 2024	July 14, 2025	July 14, 2025	July 7, 2025	July 18, 2025	July 10, 2025	July 15, 2025	July 14, 2025
SOIL TYPE	Capac loam, 0 to 4 percent slopes & Colwood-Brookston loams	Shebeon loam, 0 to 2 percent slopes	Dixboro fine sandy loam, 0 to 3 percent slopes	Blount Loam, Erie-Huron Lake Plain, 0 to 2 percent slopes	Conover Loam, 0 to 3 percent slopes	Tappan-Londo loams, 0 to 3 percent slopes	Conover loam, 0 to 4 percent slopes	Schoolcraft loam, 0 to 2 percent slopes
PRE-PLANT FERTILIZER	100# 11-52-0 100# 0-0-60	25# 21-0-0 + 24 S, 125# 12-40-0 +10 S + 1 Zn, 100 lbs 0-0-60	250 #/acre 8-18-28 4.8% S	350# 3-17-24 + 2 S + 3 MN	90# 0-0-60, 30# 21-0-0 + 24S	250 # of 9-20-21 + 6.5 S + 0.26 B + 0.3 Mn + 0.45 Zn	245# 10-19-18 + 7.7 S	30# 46-0-0, 50# 21-0-0 + 24 S, 125# 0-0-60
COMMENTS	Inoculated / Misted Fusarium Head Blight Screening Nursery.	Additional 30 lbs. Nitrogen Applied, Feekes 10.5.1 Fungicide Applied	Additional 30 lbs. Nitrogen Applied, Feekes 10.5.1 Fungicide Applied	Additional 30 lbs. Nitrogen Applied, Feekes 10.5.1 Fungicide Applied	Additional 30 lbs. Nitrogen Applied, Feekes 10.5.1 Fungicide Applied	Additional 30 lbs. Nitrogen Applied, Feekes 10.5.1 Fungicide Applied	Additional 30 lbs. Nitrogen Applied, Feekes 10.5.1 Fungicide Applied	Additional 30 lbs. Nitrogen Applied, Feekes 10.5.1 Fungicide Applied
AVERAGE YIELD (BUSHELS / ACRE)	N/A	128.6	118.0	101.2	104.8	109.1	64.1	103.8
AVERAGE PERCENT GRAIN MOISTURE AT HARVEST	N/A	15.0	15.6	13.7	16.6	17.4	12.8	12.8
AVERAGE TEST WEIGHT (LBS. / BUSHEL)	N/A	60.2	60.4	56.6	56.2	54.9	51.8	60.2
2025 DATA RECORDED (NUMBER OF REPS)	3	3	3	3	3	3	3	3
FLOWERING FUNGICIDE APPLICATION DATE	N/A	June 6, 2025	June 2, 2025	May 26, 2025	June 6, 2025	June 2, 2025	May 29, 2025	May 27, 2025
GREEN-UP FERTILIZER	90lbs Nitrogen	90lbs Nitrogen 20lbs Sulfur	90lbs Nitrogen 20lbs Sulfur	90lbs Nitrogen 20lbs Sulfur	90lbs Nitrogen 20lbs Sulfur	90lbs Nitrogen 20lbs Sulfur	90lbs Nitrogen 20lbs Sulfur	90lbs Nitrogen 20lbs Sulfur

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Table 1 : Multi-Year Performance Summary
** Tables sorted by 2025 High Management Yield, grouped by color
*** Yield (Bu/A adjusted to 13.5% Moisture)

Line Name	Company	Seed Color	Overall (across all sites)				Huron				Monroe				Sanilac				Tuscola			
			2025		2 Yr Avg	3 Yr Avg	2025		2 Yr Avg	3 Yr Avg	2025		2 Yr Avg	3 Yr Avg	2025		2 Yr Avg	3 Yr Avg	2025		2 Yr Avg	3 Yr Avg
			Bu/A	Rank	24-25	23-25	Bu/A	Rank	24-25	23-25	Bu/A	Rank	24-25	23-25	Bu/A	Rank	24-25	23-25	Bu/A	Rank	24-25	23-25
AgriMAXX Bad Axe	AgriMAXX Wheat Company	W	115.4	1	--	--	129.0	3	--	--	103.0	6	--	--	108.8	2	--	--	120.6	1	--	--
MI22W213	MSU	W	113.2	2	--	--	125.0	13	--	--	108.0	2	--	--	107.2	5	--	--	112.7	5	--	--
MI609W	MSU	W	113.2	3	--	--	124.6	15	--	--	108.9	1	--	--	106.1	7	--	--	113.2	4	--	--
Dyna-Gro 9641W	Dyna-Gro	W	112.5	4	--	--	131.6	1	--	--	103.4	4	--	--	105.7	8	--	--	109.4	11	--	--
KWS630	KWS Cereals USA	W	112.5	5	--	--	131.4	2	--	--	98.6	11	--	--	110.8	1	--	--	109.0	12	--	--
KWS631	KWS Cereals USA	W	112.1	6	--	--	126.8	9	--	--	103.2	5	--	--	107.6	4	--	--	110.9	9	--	--
MCIA White Lightning	MCIA	W	110.9	7	106.7	--	127.4	6	121.3	--	98.8	10	97.8	--	105.4	9	107.5	--	112.1	7	107.5	--
ISF 1115	Irrer Seed Farm	W	110.7	8	104.9	104.9	127.2	7	--	--	102.5	7	--	--	97.8	15	--	--	115.4	3	--	--
KWS632	KWS Cereals USA	W	110.7	9	--	--	126.4	11	--	--	101.8	8	--	--	98.6	14	--	--	116.1	2	--	--
AgriMAXX Mackinaw	AgriMAXX Wheat Company	W	110.1	10	104.5	105.2	123.6	17	115.0	116.0	104.6	3	98.8	101.6	101.3	11	102.4	110.6	110.9	8	105.3	104.4
Dyna-Gro 9242W	Dyna-Gro	W	109.3	11	104.8	104.2	127.9	4	118.5	114.2	95.8	13	94.1	96.7	107.8	3	108.2	112.5	105.6	16	100.1	102.0
Dyna-Gro 9663W	Dyna-Gro	W	109.0	12	--	--	122.7	19	--	--	99.5	9	--	--	107.2	6	--	--	106.5	14	--	--
Whitetail	MCIA	W	107.0	13	103.1	103.8	127.8	5	119.4	113.6	96.9	12	96.4	100.3	99.6	13	104.4	110.3	103.8	18	101.6	103.0
Jupiter	MCIA	W	105.9	14	103.1	106.2	126.9	8	119.1	115.5	95.5	14	98.8	106.2	101.5	10	105.4	112.2	99.6	19	95.9	100.4
Dyna-Gro 9313W	Dyna-Gro	W	105.3	15	99.4	99.7	123.2	18	113.4	109.8	92.9	16	88.9	94.5	100.8	12	103.1	106.3	104.1	17	99.0	101.3
DF 225 W	DF Seeds	W	105.0	16	--	--	126.7	10	--	--	91.0	18	--	--	95.8	16	--	--	106.4	15	--	--
DF 271 W	DF Seeds	W	104.1	17	103.1	106.6	124.3	16	118.8	115.8	94.7	15	91.2	100.8	85.0	19	95.2	108.9	112.6	6	106.8	107.2
KWS635	KWS Cereals USA	W	103.7	18	--	--	126.1	12	--	--	92.6	17	--	--	85.7	18	--	--	110.3	10	--	--
DF 284 W	DF Seeds	W	103.4	19	103.6	105.2	124.9	14	120.2	114.2	85.8	19	91.4	100.0	95.3	17	102.3	110.1	107.8	13	103.1	104.4
KWS579	KWS Cereals USA	R	118.5	1	--	--	135.2	1	--	--	105.1	13	--	--	117.3	3	--	--	116.3	5	--	--
Dyna-Gro 9533	Dyna-Gro	R	117.0	2	109.8	--	131.1	20	121.7	--	101.1	27	94.0	--	121.9	1	114.2	--	113.8	10	106.9	--
KWS623	KWS Cereals USA	R	116.6	3	--	--	135.0	2	--	--	105.4	12	--	--	105.4	33	--	--	120.6	1	--	--
DF 121 R	DF Seeds	R	115.7	4	106.1	105.8	129.4	29	116.9	111.4	109.6	3	102.7	101.5	115.0	4	108.6	114.8	108.6	29	102.6	104.4
ISF 790	Irrer Seed Farm	R	115.1	5	109.2	--	134.5	4	--	--	110.6	2	--	--	99.3	45	--	--	116.0	7	--	--
Dyna-Gro 9172	Dyna-Gro	R	115.1	6	107.2	106.9	132.0	17	123.8	119.0	100.3	33	98.7	102.9	114.5	7	111.2	117.1	113.5	15	104.2	103.4
FS 745	FS InSPIRE	R	115.1	7	106.5	--	134.3	5	122.0	--	102.0	24	95.6	--	114.5	8	111.0	--	109.4	28	104.2	--
FS 600	FS InSPIRE	R	115.0	8	106.2	--	129.1	31	119.5	--	107.0	7	98.6	--	110.5	18	108.6	--	113.3	16	105.4	--
DF 144 R	DF Seeds	R	114.7	9	109.2	--	133.2	7	123.8	--	107.8	6	102.6	--	112.7	10	112.3	--	105.1	37	102.6	--
FS 749	FS InSPIRE	R	114.6	10	--	--	130.6	25	--	--	111.2	1	--	--	102.9	41	--	--	113.6	14	--	--
MI22R057	MSU	R	114.1	11	--	--	129.9	28	--	--	106.1	10	--	--	107.4	27	--	--	113.2	17	--	--
DF 175 R	DF Seeds	R	113.9	12	--	--	134.7	3	--	--	99.7	38	--	--	103.0	40	--	--	118.2	3	--	--
MCIA Flipper	MCIA	R	113.8	13	107.3	107.4	125.8	46	121.2	122.0	105.0	14	101.1	102.7	108.4	25	107.7	113.1	116.2	6	104.7	105.1
ISF 2411	Irrer Seed Farm	R	113.7	14	108.2	--	130.7	24	--	--	104.6	16	--	--	108.6	24	--	--	111.0	21	--	--
FS 743	FS InSPIRE	R	113.7	15	108.5	--	127.5	39	119.2	--	104.5	17	96.5	--	112.4	11	109.2	--	110.4	24	110.4	--
Synergy Frantz	Synergy Ag	R	113.7	16	--	--	124.3	49	--	--	104.0	18	--	--	112.8	9	--	--	113.6	12	--	--
DF 195 R	DF Seeds	R	113.5	17	--	--	132.2	14	--	--	102.0	24	--	--	100.1	44	--	--	120.0	2	--	--
MCIA Redfin	MCIA	R	113.5	18	108.1	--	132.2	13	123.8	--	101.7	25	98.7	--	109.5	21	110.3	--	110.5	23	104.0	--
AgriMAXX 545	AgriMAXX Wheat Company	R	113.1	19	107.7	--	133.6	6	122.5	--	106.2	8	103.6	--	104.1	37	105.7	--	108.5	30	104.2	--
Dyna-Gro 9632	Dyna-Gro	R	113.1	20	--	--	132.0	18	--	--	100.4	32	--	--	106.2	30	--	--	113.6	14	--	--
DF 131 R	DF Seeds	R	112.9	21	105.7	104.6	130.0	27	118.8	116.3	98.5	41	91.1	93.8	111.9	14	109.6	114.5	111.0	22	103.9	104.8
MCIA Wharf	MCIA	R	112.7	22	106.7	104.5	130.9	22	121.8	116.6	101.4	26	97.5	99.7	110.2	19	109.8	113.0	108.3	31	102.5	103.2
MCIA Thunder	MCIA	R	112.6	23	--	--	132.2	12	--	--	108.0	4	--	--	93.1	51	--	--	117.2	4	--	--
MI20R0210	MSU	R	112.5	24	107.7	106.3	131.2	19	122.9	120.2	100.1	35	99.9	101.1	105.1	35	106.6	112.2	113.7	11	104.8	102.8
AgriMAXX 505	AgriMAXX Wheat Company	R	112.4	25	106.2	106.3	128.1	37	119.9	116.4	99.1	39	99.4	104.0	112.1	12	108.9	114.4	110.4	25	103.5	103.4
Dyna-Gro 9231	Dyna-Gro	R	112.2	26	--	--	131.0	21	--	--	102.3	21	--	--	109.1	22	--	--	106.5	33	--	--
KWS604	KWS Cereals USA	R	112.1	27	--	--	130.2	26	--	--	100.5	31	--	--	111.8	15	--	--	105.8	35	--	--
MCIA Marlin	MCIA	R	112.0	28	105.6	107.2	133.2	8	122.6	118.2	107.9	5	100.2	102.1	94.4	50	98.1	108.4	112.3	18	105.4	109.0
KWS591	KWS Cereals USA	R	111.8	29	--	--	132.8	11	--	--	100.0	36	--	--	111.0	17	--	--	103.4	43	--	--
Synergy Kessler	Synergy Ag	R	111.5	30	--	--	133.1	10	--	--	102.6	20	--	--	105.8	32	--	--	104.7	40	--	--
FS 617	FS InSPIRE	R	111.3	31	--	--	128.7	32	--	--	106.0	11	--	--	108.8	23	--	--	101.5	49	--	--
FS 606	FS InSPIRE	R	111.2	32	103.9	--	128.5	34	117.4	--	104.7	15	98.6	--	106.4	29	104.1	--	105.2	36	102.4	--
VA20FHB-18	Virginia Tech	R	111.1	33	--	--	125.3	47	--	--	100.7	30	--	--	118.8	2	--	--	99.7	50	--	--
ISF 780	Irrer Seed Farm	R	111.1	34	108.0	107.2	128.1	36	--	--	103.0	19	--	--	98.9	46	--	--	114.4	9	--	--
MCIA Barracuda	MCIA	R	110.8	35	103.9	106.4	127.3	40	116.5	116.4	96.4	46	94.5	100.8	109.6	20	106.6	115.2	110.0	26	102.5	104.1
Dyna-Gro 9612	Dyna-Gro	R	110.5	36	--	--	126.0	45	--	--	102.0	22	--	--	111.1	16	--	--	102.9	45	--	--
Dyna-Gro 9290	Dyna-Gro	R	110.5	37	--	--	124.7	48	--	--	99.0	40	--	--	112.0	13	--	--	106.3	34	--	--
AgriMAXX 556	AgriMAXX Wheat Company	R	110.4	38	106.0	--	129.3	30	120.6	--	106.1	9	103.5	--	96.8	48	103.1	--	109.5	27	102.7	--
MCIA Jonah	MCIA	R	110.4	39	103.9	104.4	132.0	16	121.8	116.4	97.9	44	94.1	99.9	96.6	49	101.8	109.4	115.1	8	106.9	106.5

2025 MSU Wheat Performance Trials

Table 1 : Multi-Year Performance Summary

** Tables sorted by 2025 High Management Yield, grouped by color

*** Yield (Bu/A adjusted to 13.5% Moisture)

Line Name	Company	Seed Color	Overall (across all sites)				Huron				Monroe				Sanilac				Tuscola			
			2025		2 Yr Avg	3 Yr Avg	2025		2 Yr Avg	3 Yr Avg	2025		2 Yr Avg	3 Yr Avg	2025		2 Yr Avg	3 Yr Avg	2025		2 Yr Avg	3 Yr Avg
			Bu/A	Rank	24-25	23-25	Bu/A	Rank	24-25	23-25	Bu/A	Rank	24-25	23-25	Bu/A	Rank	24-25	23-25	Bu/A	Rank	24-25	23-25
FS WX25A	FS InSPIRE	R	110.2	40	--	--	133.2	9	--	--	91.2	51	--	--	114.6	6	--	--	101.9	48	--	--
Dyna-Gro 9422	Dyna-Gro	R	110.2	41	106.8	109.5	127.1	42	121.5	120.7	99.8	37	100.4	106.2	102.6	42	104.2	114.8	111.3	20	106.3	108.3
Synergy EXP2578	Synergy Ag	R	109.1	42	--	--	127.1	41	--	--	98.3	42	--	--	103.6	38	--	--	107.3	32	--	--
Dyna-Gro 9593	Dyna-Gro	R	109.0	43	104.8	--	127.0	43	118.8	--	101.1	28	96.0	--	106.0	31	107.2	--	101.9	48	101.5	--
Dyna-Gro 9570	Dyna-Gro	R	108.8	44	104.8	--	127.7	38	119.3	--	91.9	49	95.1	--	103.5	39	100.2	--	112.3	19	105.5	--
DF 112 R	DF Seeds	R	108.5	45	104.2	105.0	128.6	33	119.1	117.8	96.5	45	94.1	93.1	104.2	36	106.6	113.5	104.7	39	101.5	104.7
KWS625	KWS Cereals USA	R	108.4	46	--	--	132.1	15	--	--	101.1	29	--	--	98.0	47	--	--	102.6	46	--	--
Blue River 801	Albert Lea	R	108.4	47	104.8	--	128.4	35	--	--	98.0	43	--	--	102.3	43	--	--	104.9	38	--	--
17VDH-SRW02-125	Virginia Tech	R	108.4	48	--	--	120.9	51	--	--	94.1	48	--	--	114.7	5	--	--	103.9	41	--	--
MCIA .357	MCIA	R	108.4	49	102.8	104.1	126.3	44	115.7	118.2	95.5	47	92.4	95.2	108.0	26	107.1	114.1	103.6	42	98.5	101.5
Synergy Wagner	Synergy Ag	R	107.6	50	--	--	130.9	23	--	--	91.2	51	--	--	105.3	34	--	--	103.2	44	--	--
Sunburst	MCIA	R	106.4	51	99.4	100.6	121.4	50	114.6	113.0	100.2	34	90.5	93.1	106.7	28	102.9	111.0	97.4	51	98.4	100.6
		Mean	110.8		105.3	105.1	128.6		119.7	116.2	100.3		96.8	100.1	105.1		105.7	112.1	109.1		103.1	103.9
		LSD	4.2		2.2	2.0	1.6		3.2	4.4	6.4		5.7	5.5	6.8		6.8	5.8	9.0		4.4	3.6
		CV	2.1		2.6	2.7	0.8		1.5	1.7	4.0		3.7	3.7	4.0		2.4	2.0	5.1		2.6	2.4

2024 Michigan State University Wheat Performance Trials

Table 2. Multi-Location Performance Summary for Test Weight and Percent Moisture.

Line	Company	Seed Treatment	Seed Color	Overall		Huron		Monroe		Sanilac		Tuscola	
				% Moist	TW	% Moist	TW	% Moist	TW	% Moist	TW	% Moist	TW
AgriMAXX 505	AgriMAXX Wheat Company	PRIME ST	Red	15.1	58.4	15.1	62.3	13.6	57.7	15.1	56.7	16.6	56.8
AgriMAXX 545	AgriMAXX Wheat Company	PRIME ST	Red	15.0	57.4	14.3	60.1	13.8	56.8	16.5	56.4	15.4	56.4
AgriMAXX 556	AgriMAXX Wheat Company	PRIME ST	Red	16.6	56.7	16.9	59.5	13.9	56.4	17.5	55.8	17.9	54.8
AgriMAXX Bad Axe	AgriMAXX Wheat Company	PRIME ST	White	16.1	57.4	15.3	60.6	14.0	58.0	15.9	56.5	19.0	54.5
AgriMAXX Mackinaw	AgriMAXX Wheat Company	PRIME ST	White	15.2	56.8	13.7	59.5	13.9	57.1	15.6	55.5	17.7	55.2
Blue River 801	Albert Lea	CruiserMaxx Vibrance Cereals	Red	15.7	58.0	15.1	60.8	13.9	57.3	16.8	57.6	16.9	56.5
DF 112 R	DF Seeds	DFender	Red	15.1	55.9	14.4	59.6	13.6	55.5	15.5	55.5	17.1	52.9
DF 121 R	DF Seeds	DFender	Red	15.9	57.1	15.2	60.5	13.6	58.7	15.6	54.7	19.2	54.6
DF 131 R	DF Seeds	DFender	Red	16.0	57.4	14.8	60.2	13.9	57.8	17.2	56.1	18.1	55.4
DF 144 R	DF Seeds	DFender	Red	15.7	57.0	14.4	60.0	13.8	56.6	17.1	56.3	17.4	55.0
DF 175 R	DF Seeds	DFender	Red	15.3	56.3	14.2	59.6	13.2	54.8	16.3	56.9	17.7	54.0
DF 195 R	DF Seeds	DFender	Red	15.9	55.8	14.8	59.7	14.0	54.6	16.4	55.4	18.3	53.6
DF 225 W	DF Seeds	DFender	White	15.7	55.0	14.6	59.3	14.1	52.6	16.7	54.1	17.4	54.0
DF 271 W	DF Seeds	DFender	White	15.4	56.6	13.7	59.3	14.1	56.4	15.3	55.7	18.4	54.9
DF 284 W	DF Seeds	DFender	White	16.0	55.4	16.0	59.1	14.0	53.2	16.2	55.0	17.7	54.4
Dyna-Gro 9172	Dyna-Gro	Foothold Virock	Red	16.0	57.2	16.1	59.6	13.9	57.8	16.0	56.9	17.9	54.5
Dyna-Gro 9231	Dyna-Gro	Foothold Virock	Red	15.4	58.1	15.2	61.2	13.8	58.3	16.0	56.3	16.8	56.8
Dyna-Gro 9290	Dyna-Gro	Foothold Virock	Red	15.5	57.6	15.3	60.8	13.7	56.0	16.6	57.4	16.2	56.1
Dyna-Gro 9422	Dyna-Gro	Foothold Virock	Red	15.5	57.6	14.3	60.5	13.7	57.6	17.3	56.2	16.9	56.3
Dyna-Gro 9533	Dyna-Gro	Foothold Virock	Red	15.5	56.1	14.2	59.5	13.8	54.0	16.0	56.4	18.1	54.4
Dyna-Gro 9570	Dyna-Gro	Foothold Virock	Red	15.4	56.7	14.1	59.2	13.8	55.9	16.2	56.1	17.3	55.5
Dyna-Gro 9593	Dyna-Gro	Foothold Virock	Red	15.8	57.8	15.3	60.7	14.0	58.4	17.5	56.4	16.5	55.7
Dyna-Gro 9313W	Dyna-Gro	Foothold Virock	White	15.8	55.8	14.7	59.3	13.5	56.2	16.9	54.5	18.1	53.2
Dyna-Gro 9242W	Dyna-Gro	Foothold Virock	White	15.4	57.2	14.6	60.9	13.7	55.5	16.0	56.9	17.0	55.4
Dyna-Gro 9641W	Dyna-Gro	Foothold Virock	White	18.7	56.3	20.4	58.9	14.0	58.2	20.0	55.0	20.5	53.3
Dyna-Gro 9663W	Dyna-Gro	Foothold Virock	White	15.2	56.7	13.9	60.6	13.4	56.3	16.0	56.0	17.6	54.1
Dyna-Gro 9612	Dyna-Gro	Foothold Virock	Red	15.2	57.3	14.8	60.2	13.7	56.9	15.5	56.2	16.8	55.9
Dyna-Gro 9632	Dyna-Gro	Foothold Virock	Red	15.3	56.9	14.7	60.6	13.8	57.6	16.1	55.9	16.6	53.6
FS 600	FS InSPIRE	Vibrance Extreme & Senator	Red	15.4	59.0	14.7	62.7	13.4	58.7	16.3	58.1	17.3	56.5
FS 606	FS InSPIRE	Vibrance Extreme & Senator	Red	15.2	58.9	15.0	62.2	13.9	57.9	15.8	58.3	16.1	57.1
FS 617	FS InSPIRE	Vibrance Extreme & Senator	Red	15.9	57.8	14.9	60.5	13.9	57.9	17.7	56.8	17.2	55.9
FS 743	FS InSPIRE	Vibrance Extreme & Senator	Red	15.8	58.0	15.7	60.8	13.8	58.2	16.1	57.0	17.6	55.9
FS 745	FS InSPIRE	Vibrance Extreme & Senator	Red	15.8	57.7	14.8	60.4	13.9	57.8	17.5	56.4	17.0	56.1
FS 749	FS InSPIRE	Vibrance Extreme & Senator	Red	15.8	57.3	15.7	60.4	13.5	57.5	16.7	57.1	17.4	54.1
FS WX25A	FS InSPIRE	Vibrance Extreme & Senator	Red	16.4	57.3	16.1	61.4	13.9	56.8	17.2	55.7	18.4	55.1
ISF 780	Irrer Seed Farm	ISF Shield	Red	15.3	56.2	13.9	59.8	13.8	55.9	16.0	55.3	17.6	54.0
ISF 2411	Irrer Seed Farm	ISF Shield	Red	15.9	58.8	15.4	61.5	13.8	58.9	16.9	57.4	17.4	57.4
ISF 790	Irrer Seed Farm	ISF Shield	Red	15.6	56.8	15.3	60.1	13.9	56.3	16.1	55.2	17.0	55.7
ISF 1115	Irrer Seed Farm	ISF Shield	White	15.7	56.6	13.6	59.7	14.1	56.7	16.0	56.3	19.2	53.8
KWS579	KWS Cereals USA	Vibrance/Crusier 5FS	Red	15.6	56.4	14.5	59.5	13.5	55.4	16.2	56.8	18.0	53.8
KWS591	KWS Cereals USA	Vibrance/Crusier 5FS	Red	15.1	57.1	14.3	60.5	13.5	55.7	16.7	56.6	15.8	55.6

2024 Michigan State University Wheat Performance Trials

Table 2. Multi-Location Performance Summary for Test Weight and Percent Moisture.

Line	Company	Seed Treatment	Seed Color	Overall		Huron		Monroe		Sanilac		Tuscola	
				% Moist	TW	% Moist	TW	% Moist	TW	% Moist	TW	% Moist	TW
KWS604	KWS Cereals USA	Vibrance/Crusier 5FS	Red	15.7	56.7	15.0	60.4	12.8	54.7	16.8	56.9	18.1	54.6
KWS623	KWS Cereals USA	Vibrance/Crusier 5FS	Red	15.6	56.8	14.3	59.9	14.3	56.1	16.2	56.2	17.4	54.9
KWS625	KWS Cereals USA	Vibrance/Crusier 5FS	Red	15.8	57.0	14.5	60.9	14.0	56.3	16.7	56.8	18.1	54.2
KWS630	KWS Cereals USA	Vibrance/Crusier 5FS	White	16.0	56.3	15.3	59.3	14.4	55.4	16.2	56.2	18.1	54.4
KWS631	KWS Cereals USA	Vibrance/Crusier 5FS	White	14.8	56.8	13.9	59.9	13.8	55.8	15.9	56.7	15.8	54.8
KWS632	KWS Cereals USA	Vibrance/Crusier 5FS	White	16.4	56.1	15.9	59.7	14.3	56.1	16.9	54.8	18.6	53.8
KWS635	KWS Cereals USA	Vibrance/Crusier 5FS	White	15.1	56.2	13.8	59.3	13.8	55.1	16.5	54.9	16.5	55.3
Jupiter	MCIA	Vibrance Extreme	White	15.5	56.7	14.8	60.1	13.6	55.9	17.0	56.1	16.7	54.6
MCIA .357	MCIA	Vibrance Extreme	Red	15.3	56.6	14.5	60.1	13.9	55.6	15.3	56.8	17.6	53.9
MCIA Redfin	MCIA	Vibrance Extreme	Red	16.5	56.7	16.7	59.4	13.9	56.1	17.0	56.1	18.5	55.0
MCIA Thunder	MCIA	Vibrance Extreme	Red	15.7	55.9	14.4	60.0	13.5	55.8	16.3	54.1	18.6	53.8
MCIA Barracuda	MCIA	Vibrance Extreme	Red	16.1	56.6	14.7	59.4	13.7	56.1	17.7	56.3	18.3	54.8
MCIA Flipper	MCIA	Vibrance Extreme	Red	15.9	56.9	14.9	60.1	14.0	56.0	16.2	57.0	18.3	54.5
MCIA Jonah	MCIA	Vibrance Extreme	Red	15.9	56.4	15.2	59.8	14.3	56.2	17.1	55.9	17.1	53.5
MCIA Marlin	MCIA	Vibrance Extreme	Red	16.6	55.8	16.3	59.7	14.0	55.4	17.4	53.9	18.6	54.2
MCIA Wharf	MCIA	Vibrance Extreme	Red	14.5	55.1	13.8	58.8	13.4	54.2	14.8	54.7	16.0	52.8
MCIA White Lightning	MCIA	Vibrance Extreme	White	15.6	56.5	14.8	59.7	14.1	56.1	16.3	56.0	17.3	54.2
Sunburst	MCIA	Vibrance Extreme	Red	16.4	57.8	16.5	62.0	13.7	57.5	17.6	57.0	17.8	54.7
Whitetail	MCIA	Vibrance Extreme	White	15.6	56.0	13.8	59.5	13.7	55.0	16.1	56.2	18.7	53.1
MI20R0210	MSU	CruiserMaxx Vibrance Cereals	Red	15.5	56.0	14.7	59.7	13.4	54.1	17.1	56.1	16.9	54.1
MI22R057	MSU	CruiserMaxx Vibrance Cereals	Red	15.7	56.6	14.2	59.8	13.9	55.2	15.9	56.6	19.0	54.7
MI22W213	MSU	CruiserMaxx Vibrance Cereals	White	15.2	56.2	14.0	58.2	13.8	56.8	15.8	55.6	17.2	54.3
MI609W	MSU	CruiserMaxx Vibrance Cereals	White	16.2	57.0	14.8	60.3	14.0	56.8	17.0	56.2	18.8	54.5
Synergy Kessler	Synergy Ag	Ceres US IMTBZ	Red	15.3	57.2	14.1	60.3	13.8	56.3	16.8	56.6	16.4	55.5
Synergy EXP2578	Synergy Ag	Cruiser Maxx Vibrance. Cruiser 5 FS	Red	15.1	56.9	14.1	60.3	13.7	55.4	16.5	56.8	16.3	55.0
Synergy Frantz	Synergy Ag	Ceres US IMTBZ	Red	15.7	57.2	14.7	60.5	13.9	57.1	16.8	56.0	17.5	55.2
Synergy Wagner	Synergy Ag	Cruiser Maxx Vibrance. Cruiser 5 FS	Red	15.0	56.0	14.3	59.5	14.2	54.3	15.4	55.9	16.2	54.3
17VDH-SRW02-125	Virginia Tech	No seed treatment	Red	15.0	58.3	14.5	61.7	13.6	57.3	15.8	58.2	15.9	56.1
VA20FHB-18	Virginia Tech	No seed treatment	Red	15.0	58.5	14.9	61.2	13.3	58.3	14.9	57.9	16.6	56.8
			Mean	15.7	56.9	15.0	60.2	13.8	56.3	16.6	56.2	17.4	54.9
			LSD	0.6	0.6	1.6	0.2	0.6	1.2	1.4	0.6	2.5	1.9
			CV	3.7	0.7	6.6	0.2	2.6	1.3	5.1	0.7	8.8	2.1

2024 Michigan State University Wheat Performance Trials

Table 3. Disease, falling number, lodging, plant height, heading, canopy architecture, and physiological maturity data.

Line	Company	Seed Color	Awn	Fusarium Head Blight Severity % 2025	Fusarium Head Blight DON ppm 2024	Falling Number 2025	Powdery Mildew Rating 0-9 scale Allegan	Stripe Rust Rating 0-9 scale Greenhouse	Lodging % Allegan	Plant Height (inches)	Heading Date Days past Jan. 1	Physiological Maturity Days past Jan. 1	Canopy Architecture Tuscola
AgriMAXX 505	AgriMAXX Wheat Company	Red	Awned	37	1.1	240	5.3	0.8	5.0	37	141	178	lateral
AgriMAXX 545	AgriMAXX Wheat Company	Red	Awned	38	2.7	189	5.0	8.8	6.7	35	143	181	intermediate
AgriMAXX 556	AgriMAXX Wheat Company	Red	Awned	28	--	285	1.7	2.1	63.3	36	143	180	intermediate
AgriMAXX Bad Axe	AgriMAXX Wheat Company	White	Awnless	38	--	92	7.0	1.3	3.3	34	144	181	upright
AgriMAXX Mackinaw	AgriMAXX Wheat Company	White	Awnless	52	3.7	114	7.7	4.8	28.3	35	141	180	intermediate
Blue River 801	Albert Lea	Red	Awned	43	1.2	277	3.3	1.6	30.0	37	140	178	intermediate
DF 112 R	DF Seeds	Red	Awned	35	2	199	7.7	0.6	11.7	36	140	178	lateral
DF 121 R	DF Seeds	Red	Awned	42	1.6	250	0.3	0.4	48.3	34	145	178	lateral
DF 131 R	DF Seeds	Red	Awned	48	3.1	198	4.3	1.2	8.3	35	141	178	lateral
DF 144 R	DF Seeds	Red	Awned	32	1.7	149	7.0	9.0	1.7	35	143	181	intermediate
DF 175 R	DF Seeds	Red	Awnless	47	--	251	0.7	7.8	73.3	37	141	179	intermediate
DF 195 R	DF Seeds	Red	Awnless	38	--	272	7.0	1.6	25.0	36	142	180	lateral
DF 225 W	DF Seeds	White	Awnless	28	--	138	6.3	4.8	86.7	36	145	182	upright
DF 271 W	DF Seeds	White	Awnless	42	3.1	108	7.3	7.1	5.0	35	142	181	intermediate
DF 284 W	DF Seeds	White	Awnless	33	3.7	116	7.0	0.5	0.0	34	145	181	intermediate
Dyna-Gro 9172	Dyna-Gro	Red	Awned	42	1.7	242	2.3	1.1	1.7	36	141	177	lateral
Dyna-Gro 9231	Dyna-Gro	Red	Awned	43	--	262	1.3	2.1	43.3	37	140	177	lateral
Dyna-Gro 9290	Dyna-Gro	Red	Awned	42	--	219	4.7	0.7	3.3	37	141	177	lateral
Dyna-Gro 9422	Dyna-Gro	Red	Awned	37	0.7	236	1.7	8.3	33.3	37	143	179	intermediate
Dyna-Gro 9533	Dyna-Gro	Red	Awnless	16	1	262	3.0	4.4	28.3	31	141	181	lateral
Dyna-Gro 9570	Dyna-Gro	Red	Awned	42	0.6	163	5.7	0.7	3.3	37	140	180	lateral
Dyna-Gro 9593	Dyna-Gro	Red	Awned	30	1.9	118	6.0	0.6	0.0	34	140	180	lateral
Dyna-Gro 9313W	Dyna-Gro	White	Awned	28	4.2	117	0.0	0.3	71.7	37	145	178	intermediate
Dyna-Gro 9242W	Dyna-Gro	White	Awnless	21	1.7	98	6.3	--	0.0	36	146	180	lateral
Dyna-Gro 9641W	Dyna-Gro	White	Awned	53	--	62	3.3	8.3	16.7	36	140	177	lateral
Dyna-Gro 9663W	Dyna-Gro	White	Awned	53	--	116	1.7	0.7	1.7	34	140	181	intermediate
Dyna-Gro 9612	Dyna-Gro	Red	Awned	26	--	259	1.7	0.3	1.9	33	140	180	upright
Dyna-Gro 9632	Dyna-Gro	Red	Awned	35	--	179	7.7	1.6	13.3	35	140	181	lateral
FS 600	FS InSPIRE	Red	Awned	41	0.8	264	6.3	3.6	15.0	36	141	177	lateral
FS 606	FS InSPIRE	Red	Awnless	32	0.2	235	8.0	2.6	18.3	37	139	177	intermediate
FS 617	FS InSPIRE	Red	Awned	25	--	276	1.3	0.8	18.3	35	144	179	lateral
FS 743	FS InSPIRE	Red	Awned	53	--	234	3.3	1.5	60.0	37	139	177	lateral
FS 745	FS InSPIRE	Red	Awned	33	2.3	240	4.7	2.1	15.0	36	140	178	lateral
FS 749	FS InSPIRE	Red	Awned	8	--	209	8.7	1.6	21.7	35	145	180	intermediate
FS WX25A	FS InSPIRE	Red	Awnless	32	--	--	7.0	1.1	0.0	--	--	--	lateral
ISF 780	Irrer Seed Farm	Red	Awned	43	--	229	6.0	0.9	80.0	34	139	180	intermediate
ISF 2411	Irrer Seed Farm	Red	Awnless	57	--	262	0.7	1.8	71.7	35	137	176	lateral
ISF 790	Irrer Seed Farm	Red	Awnless	52	--	255	4.7	0.8	83.3	36	138	177	lateral
ISF 1115	Irrer Seed Farm	White	Awnless	43	--	119	5.3	4.0	0.0	35	142	181	lateral
KWS579	KWS Cereals USA	Red	Awned	25	--	221	7.7	0.1	18.3	34	140	181	intermediate
KWS591	KWS Cereals USA	Red	Awned	30	--	265	0.7	1.0	46.7	37	140	179	lateral
KWS604	KWS Cereals USA	Red	Awned	28	--	278	7.7	0.6	0.0	33	143	181	lateral
KWS623	KWS Cereals USA	Red	Awnless	42	--	168	1.3	1.0	78.3	37	140	180	intermediate
KWS625	KWS Cereals USA	Red	Awnless	23	--	254	2.0	0.7	66.7	35	141	177	upright
KWS630	KWS Cereals USA	White	Awnless	45	--	158	5.3	3.5	38.3	36	143	181	upright
KWS631	KWS Cereals USA	White	Awned	37	--	128	6.3	4.0	26.7	35	144	180	intermediate
KWS632	KWS Cereals USA	White	Awnless	17	--	118	8.3	8.9	0.0	32	145	181	intermediate
KWS635	KWS Cereals USA	White	Awned	43	--	113	8.3	1.6	0.0	36	138	180	intermediate
Jupiter	MCIA	White	Awnless	72	11	116	5.0	3.4	50.0	35	146	181	lateral
MCIA .357	MCIA	Red	Awnless	45	1.7	228	0.0	4.8	25.0	31	138	179	upright
MCIA Redfin	MCIA	Red	Awned	50	--	200	5.0	1.0	0.0	36	141	181	lateral
MCIA Thunder	MCIA	Red	Awnless	38	--	258	7.0	7.8	23.3	37	141	181	lateral
MCIA Barracuda	MCIA	Red	Awned	33	0.5	204	4.7	1.0	6.7	35	143	181	intermediate
MCIA Flipper	MCIA	Red	Awnless	68	2	221	1.7	0.4	50.0	36	141	177	lateral
MCIA Jonah	MCIA	Red	Awnless	53	1.6	287	7.3	1.3	25.0	37	143	180	lateral
MCIA Marlin	MCIA	Red	Awnless	65	2	212	3.7	0.8	98.3	35	138	176	lateral

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Table 3. Disease, falling number, lodging, plant height, heading, canopy architecture, and physiological maturity data.

Line	Company	Seed Color	Awn	Fusarium Head Blight Severity % 2025	Fusarium Head Blight DON ppm 2024	Falling Number 2025	Powdery Mildew Rating 0-9 scale Allegan	Stripe Rust Rating 0-9 scale Greenhouse	Lodging % Allegan	Plant Height (inches)	Heading Date Days past Jan. 1	Physiological Maturity Days past Jan. 1	Canopy Architecture Tuscola
MCIA Wharf	MCIA	Red	Awnless	52	1.8	249	7.7	2.8	60.0	32	143	181	upright
MCIA White Lightning	MCIA	White	Awnless	27	2.9	116	6.3	0.5	11.7	33	145	181	upright
Sunburst	MCIA	Red	Awnless	38	2.2	195	5.3	1.6	31.7	34	141	179	upright
Whitetail	MCIA	White	Awnless	55	6.5	90	4.0	2.1	30.0	37	144	178	lateral
MI20R0210	MSU	Red	Awned	57	--	229	6.3	1.0	0.0	33	142	179	lateral
MI22R057	MSU	Red	Awnless	50	--	236	1.7	6.1	65.0	34	139	181	lateral
MI22W213	MSU	White	Awnless	40	--	62	0.0	0.6	45.0	34	141	179	intermediate
MI609W	MSU	White	Awnless	65	--	62	3.9	3.1	0.0	34	140	180	lateral
Synergy Kessler	Synergy Ag	Red	Awned	22	--	141	5.7	8.5	16.7	34	143	181	upright
Synergy EXP2578	Synergy Ag	Red	Awnless	35	--	299	7.7	0.5	0.0	34	143	180	intermediate
Synergy Frantz	Synergy Ag	Red	Awned	37	--	271	2.0	9.0	28.3	37	144	179	intermediate
Synergy Wagner	Synergy Ag	Red	Awnless	32	--	207	3.0	7.1	1.7	32	141	181	intermediate
17VDH-SRW02-125	Virginia Tech	Red	Awned	42	--	294	0.0	7.9	73.3	35	146	178	upright
VA20FHB-18	Virginia Tech	Red	Awned	42	--	243	2.0	0.6	45.0	38	139	178	lateral
			Mean	39.4	2.1		4.5		28.0	35.2	142.0	179.0	
			LSD	20.6	2		2.7		38.4	1.5	2.0	2.0	
			CV	32.4	47.8		37.3		85.2	2.6	0.7	0.4	

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Table 4. Milling and baking quality.

** From 2024 harvest season - will be updated when 2025 data is received

Line	Company	Seed Color	NIR Kernel Protein (at 12%)	SKCS Kernel Hardness	Adjusted Flour Yield (%)	Softness Equivalent (%)	Flour Protein (at 14%)	Lactic Acid SRC (%)	Sodium Carbonate SRC (%)	Cookie Diameter (cm)
AgriMAXX 505	AgriMAXX Wheat Company	Red	10.2	9.5	65.9	57.8	8.4	137.9	78.0	17.7
AgriMAXX 545	AgriMAXX Wheat Company	Red	9.7	1.0	68.1	61.7	7.5	113.3	72.2	18.7
AgriMAXX 556	AgriMAXX Wheat Company	Red	10.2	12.2	68.1	56.7	8.5	98.0	69.8	19.0
AgriMAXX Bad Axe	AgriMAXX Wheat Company	White	--	--	--	--	--	--	--	--
AgriMAXX Mackinaw	AgriMAXX Wheat Company	White	10.4	3.0	68.3	58.5	8.3	113.8	68.5	18.4
Blue River 801	Albert Lea	Red	10.2	10.2	66.9	58.1	8.1	120.1	74.2	18.2
DF 112 R	DF Seeds	Red	9.8	2.0	70.5	57.9	8.1	126.8	72.7	18.7
DF 121 R	DF Seeds	Red	9.8	13.7	67.3	59.2	7.8	105.4	68.4	19.2
DF 131 R	DF Seeds	Red	10.3	14.3	68.0	57.3	8.2	110.9	71.3	18.7
DF 144 R	DF Seeds	Red	9.7	2.4	67.7	60.5	7.4	112.3	71.6	19.2
DF 175 R	DF Seeds	Red	--	--	--	--	--	--	--	--
DF 195 R	DF Seeds	Red	--	--	--	--	--	--	--	--
DF 225 W	DF Seeds	White	--	--	--	--	--	--	--	--
DF 271 W	DF Seeds	White	9.8	3.2	68.1	59.1	7.9	111.2	70.3	18.5
DF 284 W	DF Seeds	White	9.0	1.8	69.8	64.0	7.1	98.9	70.3	19.7
Dyna-Gro 9172	Dyna-Gro	Red	9.8	9.4	68.6	61.3	7.8	111.2	72.3	19.1
Dyna-Gro 9231	Dyna-Gro	Red	--	--	--	--	--	--	--	--
Dyna-Gro 9290	Dyna-Gro	Red	--	--	--	--	--	--	--	--
Dyna-Gro 9422	Dyna-Gro	Red	10.2	12.3	68.5	59.5	8.2	99.8	70.8	18.7
Dyna-Gro 9533	Dyna-Gro	Red	9.9	8.4	65.6	57.9	7.9	123.2	72.4	18.9
Dyna-Gro 9570	Dyna-Gro	Red	9.6	5.8	67.7	59.5	7.6	92.2	70.8	19.8
Dyna-Gro 9593	Dyna-Gro	Red	10.4	16.6	67.5	56.3	8.1	87.4	69.9	18.9
Dyna-Gro 9313W	Dyna-Gro	White	11.3	12.5	68.7	53.7	9.3	87.4	71.3	18.2
Dyna-Gro 9242W	Dyna-Gro	White	10.2	16.2	67.0	55.9	8.4	99.9	71.4	18.8
Dyna-Gro 9641W	Dyna-Gro	White	--	--	--	--	--	--	--	--
Dyna-Gro 9663W	Dyna-Gro	White	--	--	--	--	--	--	--	--
Dyna-Gro 9612	Dyna-Gro	Red	--	--	--	--	--	--	--	--
Dyna-Gro 9632	Dyna-Gro	Red	--	--	--	--	--	--	--	--
FS 600	FS InSPIRE	Red	11.3	12.3	64.3	54.8	9.0	120.9	78.8	19.6
FS 606	FS InSPIRE	Red	9.9	1.7	67.5	58.2	8.0	120.7	71.6	17.9
FS 617	FS InSPIRE	Red	--	--	--	--	--	--	--	--
FS 743	FS InSPIRE	Red	--	--	--	--	--	--	--	--
FS 745	FS InSPIRE	Red	9.8	9.9	68.1	58.8	7.9	105.9	70.6	19.0
FS 749	FS InSPIRE	Red	--	--	--	--	--	--	--	--
FS WX25A	FS InSPIRE	Red	--	--	--	--	--	--	--	--
ISF 780	Irrer Seed Farm	Red	9.3	7.1	66.3	62.3	7.2	113.0	71.3	18.5
ISF 2411	Irrer Seed Farm	Red	9.9	12.4	66.6	55.5	7.8	116.8	77.1	17.9
ISF 790	Irrer Seed Farm	Red	9.8	7.2	69.7	57.7	7.7	111.1	71.3	18.8
ISF 1115	Irrer Seed Farm	White	10.5	14.7	66.8	55.0	8.5	94.7	72.0	18.2
KWS579	KWS Cereals USA	Red	--	--	--	--	--	--	--	--
KWS591	KWS Cereals USA	Red	--	--	--	--	--	--	--	--
KWS604	KWS Cereals USA	Red	--	--	--	--	--	--	--	--
KWS623	KWS Cereals USA	Red	--	--	--	--	--	--	--	--
KWS625	KWS Cereals USA	Red	--	--	--	--	--	--	--	--
KWS630	KWS Cereals USA	White	--	--	--	--	--	--	--	--
KWS631	KWS Cereals USA	White	--	--	--	--	--	--	--	--
KWS632	KWS Cereals USA	White	--	--	--	--	--	--	--	--
KWS635	KWS Cereals USA	White	--	--	--	--	--	--	--	--
Jupiter	MCIA	White	10.3	15.5	68.6	55.0	8.3	101.3	71.7	18.9
MCIA .357	MCIA	Red	10.7	15.4	68.2	54.0	8.2	91.3	67.9	18.9
MCIA Redfin	MCIA	Red	10.0	45.9	71.2	44.5	8.7	73.1	83.7	16.4
MCIA Thunder	MCIA	Red	--	--	--	--	--	--	--	--
MCIA Barracuda	MCIA	Red	10.2	14.6	70.0	54.6	8.6	96.1	65.6	19.1
MCIA Flipper	MCIA	Red	9.8	6.9	70.1	59.5	7.6	93.5	70.3	18.9
MCIA Jonah	MCIA	Red	9.8	3.9	69.7	60.6	7.8	112.2	69.5	19.4
MCIA Marlin	MCIA	Red	9.4	8.7	69.9	57.3	7.5	105.2	70.3	19.2
MCIA Wharf	MCIA	Red	10.9	-0.5	66.1	54.2	8.3	101.2	68.8	19.3
MCIA White Lightning	MCIA	White	10.0	13.6	68.4	58.2	8.0	81.1	73.3	19.3
Sunburst	MCIA	Red	10.8	34.2	63.0	51.6	9.4	113.9	79.8	17.1
Whitetail	MCIA	White	10.4	6.7	67.8	57.0	8.4	106.4	70.8	18.9
MI20R0210	MSU	Red	10.2	7.1	69.0	56.7	7.9	85.0	71.2	18.6
MI22R057	MSU	Red	--	--	--	--	--	--	--	--
MI22W213	MSU	White	--	--	--	--	--	--	--	--
MI609W	MSU	White	--	--	--	--	--	--	--	--
Synergy Kessler	Synergy Ag	Red	--	--	--	--	--	--	--	--
Synergy EXP2578	Synergy Ag	Red	--	--	--	--	--	--	--	--
Synergy Frantz	Synergy Ag	Red	--	--	--	--	--	--	--	--
Synergy Wagner	Synergy Ag	Red	--	--	--	--	--	--	--	--
17VDH-SRW02-125	Virginia Tech	Red	--	--	--	--	--	--	--	--
VA20FHB-18	Virginia Tech	Red	--	--	--	--	--	--	--	--

Organizations Participating in the 2025 Michigan State University Wheat Performance Trials

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Dyna-Gro Seed
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Auburn, MI 48611
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GROWMARK, Inc
1701 Towanda Ave
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Irrer Seed Farm
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