

# Michigan State Wheat Performance Trials: 2007

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## Comments on the 2007 Wheat Crop

Planting of the 2007 wheat crop seemed to be the biggest challenge facing Michigan growers this year as rain delayed some planting into late October and early November. However, the 2007 wheat yields were generally average, with some fields yielding better than average. The USDA/NASS office reported the majority of the wheat crop in Michigan as fair to good throughout the growing season. Early harvested fields reported excellent quality and test weights. Fusarium Head Blight does not appear to have been a significant factor again this year. Other disease pressures were light to moderate. Trace amounts of leaf rust and stripe rust were reported throughout the state with the southern part of the state having moderate to heavy leaf and stripe rust pressure. Powdery mildew pressure was light with the exception of eastern portion of the thumb region which had heavy powdery mildew. Barley Yellow Dwarf Virus was also observed throughout Michigan more than usual.

## Multi-Year Performance Summary (Tables 1 - 4)

Tables 1 through 4 summarize performance of 66 varieties and experimental lines from 11 organizations including the Michigan State University wheat breeding program. Attached to this narrative is a list of the names and contact information for those organizations. Each line in these tables have data for a single entry. The columns contain averages for a given trait and time period. Data for all of 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 through 4 are sorted first by entry grain color, and then in descending order on yield for 2007. In some instances (e.g. yield), data columns to the right of the 2007 data columns are multi-year averages. Only data for entries included in all of 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' 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 both tables is the 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. The CV is indicative of a trial's precision. Trials with low levels of error variation have lower CV values. Traits for which scores on a 0-9 scale are employed generally have very high CV values.

## Single Site Yield Performance Summary (Table 5)

Table 5 contains yield, test weight, and harvest moisture data from each of the six sites harvested for yield in 2007. Each row in the table represents a single entry in the test. It is recommended that single site / single year data should not be used to make variety choice decisions. Table 5 is sorted first by organization and then by variety or brand name.

## Choosing Varieties

Growers should be aware that the grain of varieties with equal yield and test weight are not necessarily of equal value when delivered for sale. DON content and shriveled grain can result in significant discounts at the point of sale. This report provides across site and single site data for test weight which gives some indication of the degree to which a variety avoided shriveled grain. It is, however, possible for two varieties to have identical and acceptable test weight but differ in degree of grain shriveling.

Although wheat producers are always interested in how varieties perform in a given year and location, performance in a single year and location should never be used in selecting a variety to plant. It is best to select a variety on the basis of data from at least three years of testing. Varieties selected with such comparisons are more likely to perform well under a wide range of conditions. In any given year or at any given site, several varieties will usually fall into the group of 'highest yielding' varieties. The composition of that group, and the identity of the absolute "winner", can and does change from location to location and year to year. This means that the single best variety cannot be determined in advance for a specific site. However, you can identify a group of varieties that is likely to contain the winners in the upcoming season. We recommend that you plant two or more varieties, and where possible, choose varieties which will flower at different times in order to reduce the risk of scab infection which is most likely to occur when rain coincides with flowering.

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

## Experimental

The 2007 State Wheat Performance Trial entries were planted at seven sites in 6 counties: Huron, Lenawee, Tuscola, Sanilac, Midland, and Ingham (2). Appendix A (below) presents information on each of these sites. Plots were 12 feet long and had 6 rows at 7.5" row spacing. The trial was designed and executed as four replication alpha-lattice (14 blocks of 5 plots each) at all sites except the scab screening nursery. 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 2.0 million seeds per acre in a solid stand planted in 7.5" rows. Fall fertilizer application varied with cooperator practice. Spring nitrogen was applied as urea (90 lbs/acre actual N) at green-up. No foliar fungicides were applied at any site. Weeds were chemically controlled as needed. All plots at a site were harvested on a single day. Yield was calculated using the entire area of the plot including the wheel tracks between plots. This approach tends to underestimate yield. Data reported as scores are based on a 0-9 scale, where 0 is the best possible score.

Table 1 contains data for yield, test weight, grain moisture, and lodging. Yield, test weight, and grain moisture data were acquired electronically on the plot combine at the time of harvest. Yield data is standardized to 13% moisture. Lodging did not occur this year so data presented here is from the 2006 growing year and earlier.

Table 2 contains data for flowering date, leaf rust, stripe rust, plant height, powdery mildew, barley yellow dwarf virus, and leaf blotch. The flowering date indicates the average number of days past January 1st that a given entry reached the point where ½ of its heads were flowering. Leaf rust, stripe rust, powdery mildew, barley yellow dwarf virus, and leaf blotch scores are recorded as "0 = no visual symptoms of disease present". Plant height is reported as the distance in inches from the ground to the tip of average heads in a plot. Leaf and stripe rust scores are based on infection observations of primarily the flag leaf. Powdery mildew scores are based on observations of the entire plant including the flag leaf. Barley Yellow Dwarf Virus (BYDV) is transmitted through aphids and is enhanced with cool temperatures and rain. Barley

Yellow Dwarf scores published here may not be reflective of actual resistance because some cultivars may have had seed treated with insecticides prior to planting. Early infestations (fall) of aphids may have been controlled using certain seed treatments, masking BYDV susceptibility. The causal organism(s) of the leaf blotching were not identified, but were likely a combination of *Stagonospora tritici*, (formerly known as *Septoria tritici*), and *S. nordorum*. Only trace amounts of leaf blotching occurred this year. Leaf blotch data in table 2 is from the 2006 crop year and earlier.

Table 3 contains data for Wheat Spindle Streak Mosaic Virus, Sprouting, and Fusarium Head Blight. Wheat spindle streak mosaic virus is transmitted into wheat roots via a soil borne fungus called *Polymyxa graminis*. Infections take place during cool, wet periods. The optimal temperature for symptoms to appear is between 48°F and 55°F. There were not any symptoms observed in 2007, so data presented in table 3 is from the 2006 growing year. Sprouting data is based on a greenhouse evaluation of 5 heads. Heads were collected within 4 hours of harvest and dried for seven days. Scores were taken after the heads were subjected to near-continuous misting for four days. A score of zero indicates that sprouting was not present. A score of 9 indicates many shoots and roots observed in the heads during scoring. Data on Fusarium head blight (scab) were obtained from the Ingham misted/inoculated scab screening nursery. The Ingham scab nursery was inoculated (from lab-produced infected grain spread onto the field), and artificial misting was employed throughout the entire flowering period. Each wheat head (i.e., 'spike') is comprised of roughly 14-22 "spikelets", which bear the developing seed. Spikelets that prematurely die because of scab infection are called "scabby" spikelets. Field symptom data reported here are based on: 1) the percent of spikes showing any scabby spikelets; 2) the percent of scabby spikelets within infected spikes; and 3) the percent of scabby spikelets considering all spikes (scab index). The scab index is a measure of the extent of damage to entire plots due to scab infection, and generally relates to the effect of scab on yield. Deoxynivalenol (DON) data is from harvested grain in the inoculated, mist irrigated, scab screening nursery. DON data in table 3 is presented in parts per million (ppm). The grain was analyzed at Michigan State University using an ELISA kit (Veratox® for DON5/5, Product #8331) from Neogen®. DON data is from the 2006 crop year and earlier.

Table 4 contains data for black point and milling quality. All data in table 4 is from the 2006 harvest season and prior. Black point is the discoloration of the embryo (germ) end and surrounding areas of the wheat kernel. The embryo tip shows a black to brown discoloration that may extend into the crease of the kernel. Visual observations consisted of 500 seed lots from one rep at each location observed. The data presented is the average percent of kernels discolored. The milling and baking quality data were generated by the USDA Eastern Soft Wheat Quality Laboratory in Wooster, Ohio, and are based on grain from the 2006 State Variety trial. Flour yield is the ratio of the weight of extractable flour to the weight of milled grain, expressed as a percentage. Lactic Acid Retention is used by some soft wheat processors as a measure of protein strength. Higher "softness equivalent percents" indicate softer grained wheat's.

Six of our experimental sites are on private farmland. We are extremely grateful to those growers for accommodating our work and all of the associated inconveniences. Questions and comments regarding the research reported here should be directed to Lee Siler (517-290-0935). This information, along with results from previous years, may also be accessed through the Web at [http://www.css.msu.edu/varietytrials/wheat/Variety\\_Results.html](http://www.css.msu.edu/varietytrials/wheat/Variety_Results.html).

## 2007 Michigan State University Wheat Performance Trials

Multi-year data are the most informative

**Table 1 : Multi-Year Performance Summary (Note: Tables sorted by 2007 Yield, red wheats grouped before white)**

MSU makes no endorsement of any variety or brand.

Name	Grain Color	Chaff Color	Awns	Yield: Bushels/Acre (Adjusted to 13% Moisture)				Test Weight: lbs/Bushel				Percent Grain Moisture at Harvest				Lodging Score (0-9); (0=none)		
				Multi-Year Averages				Multi-Year Averages				Multi-Year Averages				2006 HARVEST	Multi-Year Averages	
				2007	2 YR 06-07	3 YR 05-07	4 YR 04-07	2007	2 YR 06-07	3 YR 05-07	4 YR 04-07	2007	2 YR 06-07	3 YR 05-07	4 YR 04-07		2 YR 05-06	3 YR 04-06
Pioneer Brand 25R47	RED	WHITE	YES	95.1	97.7	94.9	90.4	57.6	57.2	57.7	56.8	13.6	14.6	14.4	14.4	4.0	3.3	3.5
MCIA OASIS	RED	WHITE	NO	94.2	95.7	91.0	87.3	57.3	57.3	57.7	57.4	12.9	14.3	14.1	14.5	3.4	3.1	4.1
Genesis R045	RED	WHITE	NO	94.1	94.1	89.1	85.8	58.5	58.4	58.5	58.1	13.2	14.4	14.3	14.6	4.8	4.5	5.3
Tribute	RED	WHITE	NO	92.9	93.5	89.5	86.4	61.4	60.8	60.9	60.6	14.3	15.5	15.3	15.6	4.6	4.2	4.1
Red Ruby	RED	WHITE	YES	92.7	95.7	91.7	87.3	59.5	58.8	59.1	58.3	13.4	14.5	14.2	14.4	3.0	2.5	2.7
Trevor	RED	WHITE	NO	92.7	-----	-----	-----	57.0	-----	-----	-----	12.6	-----	-----	-----	-----	-----	-----
Hopewell	RED	BRONZE	NO	92.5	93.3	90.5	87.0	58.9	58.2	58.3	58.1	13.0	14.3	14.1	14.4	2.1	2.0	4.3
MSU Line D8006R	RED	WHITE	YES	91.6	93.5	89.0	87.0	58.3	57.8	58.1	57.8	13.3	14.4	14.2	14.4	5.1	3.6	3.7
Arena	RED	WHITE	NO	91.3	-----	-----	-----	58.2	-----	-----	-----	13.2	-----	-----	-----	-----	-----	-----
Genesis R055	RED	WHITE	NO	91.0	94.8	91.4	-----	58.5	58.3	58.6	-----	13.1	14.2	14.1	-----	2.3	2.3	-----
Pioneer Brand 25R56	RED	WHITE	NO	90.8	-----	-----	-----	57.4	-----	-----	-----	12.4	-----	-----	-----	-----	-----	-----
RS 908	RED	WHITE	NO	90.8	-----	-----	-----	57.9	-----	-----	-----	12.6	-----	-----	-----	-----	-----	-----
Branson	RED	WHITE	NO	90.7	93.7	-----	-----	58.0	57.7	-----	-----	13.3	14.3	-----	-----	4.5	-----	-----
VA03W-235	RED	WHITE	NO	90.6	-----	-----	-----	58.5	-----	-----	-----	13.4	-----	-----	-----	-----	-----	-----
Gypsy	RED	WHITE	NO	90.5	-----	-----	-----	60.0	-----	-----	-----	13.8	-----	-----	-----	-----	-----	-----
Emmit	RED	WHITE	NO	90.4	93.2	90.1	86.8	59.0	58.2	58.4	58.3	13.7	14.9	14.7	14.9	3.5	2.9	3.9
Pioneer Brand 25R51	RED	WHITE	YES	90.2	90.3	-----	-----	58.2	57.5	-----	-----	13.4	14.3	-----	-----	4.0	-----	-----
DF101R	RED	WHITE	NO	89.7	92.2	89.4	-----	59.9	59.6	59.6	-----	13.1	14.2	14.0	-----	2.9	3.2	-----
AG 2581	RED	WHITE	NO	89.6	-----	-----	-----	59.8	-----	-----	-----	13.6	-----	-----	-----	-----	-----	-----
Huntley	RED	WHITE	YES	89.6	-----	-----	-----	60.3	-----	-----	-----	13.2	-----	-----	-----	-----	-----	-----
HS 260 R	RED	WHITE	NO	89.1	87.2	-----	-----	58.9	58.0	-----	-----	13.0	14.2	-----	-----	6.0	-----	-----
RS 953	RED	WHITE	NO	88.0	91.6	-----	-----	60.2	59.8	-----	-----	13.1	14.3	-----	-----	3.1	-----	-----
Cooper	RED	WHITE	NO	87.9	90.8	87.5	-----	58.4	58.3	58.3	-----	12.8	14.1	13.9	-----	4.1	3.5	-----
AG 2579	RED	WHITE	NO	87.7	-----	-----	-----	57.9	-----	-----	-----	12.7	-----	-----	-----	-----	-----	-----
Pioneer Brand 25R63	RED	WHITE	YES	87.6	88.8	-----	-----	59.2	58.1	-----	-----	13.2	14.0	-----	-----	5.4	-----	-----
DF104R	RED	WHITE	NO	86.9	-----	-----	-----	57.6	-----	-----	-----	14.3	-----	-----	-----	-----	-----	-----
V9412	RED	WHITE	NO	86.7	90.1	87.2	-----	59.6	59.5	59.4	-----	12.8	14.1	13.9	-----	3.6	3.7	-----
RS 942	RED	WHITE	NO	86.6	88.2	-----	-----	58.0	57.9	-----	-----	12.7	13.8	-----	-----	5.8	-----	-----
Pioneer Brand 25R37	RED	WHITE	NO	86.2	91.8	87.8	86.3	58.8	58.6	58.7	58.8	13.8	14.9	14.7	15.1	2.9	2.5	3.0
Benton	RED	WHITE	NO	84.8	-----	-----	-----	57.2	-----	-----	-----	12.2	-----	-----	-----	-----	-----	-----
Roane	RED	WHITE	NO	84.4	84.4	81.9	78.6	60.4	60.2	60.2	60.0	13.8	15.2	14.9	15.2	3.4	3.9	3.9
Truman	RED	WHITE	NO	83.6	84.8	81.3	80.2	58.9	58.8	59.0	59.3	13.8	14.7	14.5	15.1	5.8	4.5	6.0
FT Wonder	RED	WHITE	YES	83.0	83.4	80.9	78.7	59.4	58.8	58.9	58.6	13.4	14.1	13.9	14.3	5.6	5.0	5.0
Bravo	RED	WHITE	NO	82.6	85.4	84.5	82.0	59.0	58.8	59.0	58.5	13.1	14.3	14.0	14.3	2.7	3.0	3.6
Cedar	RED	WHITE	NO	77.7	74.5	78.0	79.3	55.5	54.8	56.2	56.5	13.3	14.0	14.2	14.7	8.2	5.8	6.2
McCormick	RED	WHITE	NO	76.1	79.2	78.6	77.0	58.9	59.3	59.6	59.5	13.0	14.5	14.5	15.0	6.5	5.1	5.0

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				Multi-Year Averages				Multi-Year Averages				Multi-Year Averages				2006 HARVEST	Multi-Year Averages	
				2007	2 YR 06-07	3 YR 05-07	4 YR 04-07	2007	2 YR 06-07	3 YR 05-07	4 YR 04-07	2007	2 YR 06-07	3 YR 05-07	4 YR 04-07		2 YR 05-06	3 YR 04-06
MSU D8006W	WHITE	WHITE	YES	94.6	96.3	91.1	87.0	58.1	57.1	57.3	56.4	12.4	13.4	13.3	13.4	4.6	4.0	4.0
MSU Line E0028	WHITE	WHITE	NO	94.0	96.8	91.9	86.9	57.3	56.9	57.0	56.2	12.4	13.4	13.2	13.3	3.1	2.8	3.5
Crystal	WHITE	WHITE	YES	93.3	95.2	90.9	85.5	58.0	57.1	57.2	56.7	12.1	12.9	12.6	13.0	3.5	2.7	2.5
Jewel	WHITE	WHITE	YES	91.3	93.0	88.8	85.5	59.1	58.2	58.6	58.0	13.2	14.0	13.8	14.1	2.8	2.5	3.0
TW110-062	WHITE	WHITE	NO	90.2	-----	-----	-----	57.3	-----	-----	-----	13.9	-----	-----	-----	-----	-----	-----
MSU Line E2017	WHITE	BRONZE	NO	89.9	92.7	89.2	-----	58.8	58.0	58.3	-----	13.8	14.7	14.4	-----	4.8	3.8	-----
MSU Line E1009	WHITE	WHITE	YES	89.6	90.2	-----	-----	59.8	59.0	-----	-----	13.2	14.2	-----	-----	3.1	-----	-----
MCIA CRL	WHITE	WHITE	NO	89.5	-----	-----	-----	58.8	-----	-----	-----	13.1	-----	-----	-----	-----	-----	-----
MSU Line E2041	WHITE	WHITE	YES	88.9	92.6	-----	-----	60.4	59.4	-----	-----	13.0	13.9	-----	-----	2.8	-----	-----
Pioneer Brand 25W41	WHITE	WHITE	YES	88.3	90.9	86.9	82.7	59.2	58.3	58.9	58.3	13.2	13.9	13.8	14.1	4.3	3.9	3.6
Aubrey	WHITE	WHITE	NO	87.9	87.9	86.3	83.5	59.5	59.2	59.4	59.2	13.2	14.5	14.3	14.8	2.1	2.1	2.7
TW122-001	WHITE	WHITE	NO	87.8	-----	-----	-----	57.5	-----	-----	-----	15.3	-----	-----	-----	-----	-----	-----
MSU Line E2043	WHITE	WHITE	YES	87.8	91.2	88.7	-----	57.2	57.5	58.2	-----	15.8	15.8	15.1	-----	2.2	2.1	-----
MSU Line E3003	WHITE	WHITE	NO	87.5	-----	-----	-----	56.5	-----	-----	-----	15.9	-----	-----	-----	-----	-----	-----
MSU Line E3023	WHITE	WHITE	NO	87.0	-----	-----	-----	55.7	-----	-----	-----	13.8	-----	-----	-----	-----	-----	-----
MSU D6234	WHITE	WHITE	NO	86.9	88.8	86.0	83.4	59.4	58.8	58.9	58.9	13.3	14.4	14.2	14.7	4.5	3.6	4.4
MSU Line E3012	WHITE	WHITE	YES	86.3	-----	-----	-----	55.5	-----	-----	-----	15.3	-----	-----	-----	-----	-----	-----
Pearl	WHITE	WHITE	NO	86.2	88.1	85.7	83.2	58.7	58.2	58.4	58.0	13.5	14.3	14.2	14.4	5.4	4.7	5.5
MSU Line E1008	WHITE	WHITE	YES	86.2	89.4	86.8	84.2	59.3	58.5	59.0	58.5	14.2	14.9	14.7	14.9	3.1	-----	-----
AC Mountain	WHITE	WHITE	NO	85.5	89.7	86.4	82.9	57.3	57.0	57.2	57.1	12.8	13.7	13.4	13.9	5.1	3.9	3.9
Acorn	WHITE	WHITE	NO	85.3	-----	-----	-----	57.3	-----	-----	-----	13.2	-----	-----	-----	-----	-----	-----
Lowell	WHITE	WHITE	NO	83.9	-----	-----	-----	56.4	-----	-----	-----	12.0	-----	-----	-----	-----	-----	-----
Caledonia	WHITE	WHITE	NO	83.1	89.0	85.8	81.9	57.4	56.9	57.5	56.8	12.9	13.9	13.7	13.9	2.8	2.4	3.6
MSU Line E3004	WHITE	WHITE	NO	83.0	-----	-----	-----	58.5	-----	-----	-----	15.4	-----	-----	-----	-----	-----	-----
Augusta	WHITE	WHITE	NO	82.9	-----	-----	-----	56.6	-----	-----	-----	14.1	-----	-----	-----	-----	-----	-----
Bavaria	WHITE	BRONZE	NO	82.9	-----	-----	-----	58.3	-----	-----	-----	13.4	-----	-----	-----	-----	-----	-----
NY88046-8138	WHITE	BRONZE	NO	82.7	-----	-----	-----	58.6	-----	-----	-----	13.4	-----	-----	-----	-----	-----	-----
Ashley	WHITE	WHITE	YES	82.6	83.0	-----	-----	56.6	56.2	-----	-----	14.5	14.4	-----	-----	6.2	-----	-----
Frankenmuth	WHITE	BRONZE	NO	76.5	-----	-----	-----	58.7	-----	-----	-----	13.9	-----	-----	-----	-----	-----	-----
<b>Trial Mean (2007=67 Entries)</b>				<b>87.7</b>	<b>90.3</b>	<b>87.5</b>	<b>84.1</b>	<b>58.4</b>	<b>58.2</b>	<b>58.5</b>	<b>58.1</b>	<b>13.4</b>	<b>14.3</b>	<b>14.1</b>	<b>14.4</b>	<b>4.3</b>	<b>3.5</b>	<b>4.1</b>
LSD (0.05)				<b>4.1</b>	<b>5.1</b>	<b>5.4</b>	<b>5.7</b>	<b>0.9</b>	<b>1.0</b>	<b>1.0</b>	<b>1.1</b>	<b>0.8</b>	<b>0.9</b>	<b>0.6</b>	<b>0.5</b>	<b>1.6</b>	<b>1.8</b>	<b>1.9</b>
CV (%)				<b>4.1</b>	<b>2.8</b>	<b>3.8</b>	<b>4.8</b>	<b>1.4</b>	<b>0.9</b>	<b>1.0</b>	<b>1.4</b>	<b>5.1</b>	<b>3.1</b>	<b>2.6</b>	<b>2.6</b>	<b>26.6</b>	<b>25.5</b>	<b>28.6</b>

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Table 2 : Multi-Year Performance Summary (Note: Tables sorted by 2007 Yield, red wheats grouped before white)

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Name	Grain Color	Flowering Date (Days Past Jan. 1)			Leaf Rust Score (0-9)			Stripe Rust Score (0-9) 2007	Plant Height (Inches )			Powdery Mildew Score (0-9)			Barley Yellow Dwarf Virus Score (0-9) 2007	Leaf Blotch Score (0-9)		
		Multi-Year Averages			Multi-Year Averages				Multi-Year Averages			Multi-Year Averages						
		2 YR	3 YR		2 YR	3 YR			2 YR	3 YR		2 YR	3 YR			2006 HARVEST	2 YR	3 YR
		2007	06-07	05-07	2007	06-07	05-07		2007	06-07	05-07	2007	06-07	05-07		2007	05-06	04-06
Pioneer Brand 25R47	RED	151.9	150.7	152.1	2.0	2.6	2.0	0.0	30.8	34.4	33.3	4.5	3.4	3.4	0.6	1.9	2.8	3.3
MCIA OASIS	RED	151.3	150.6	152.2	1.0	0.7	0.6	0.7	37.4	40.6	38.9	1.8	1.5	1.3	2.9	1.6	2.1	2.8
Genesis R045	RED	151.5	150.4	151.9	3.0	2.6	2.0	3.0	32.3	35.9	34.6	3.0	2.4	2.3	1.1	2.6	4.0	4.3
Tribute	RED	150.5	149.8	151.2	0.0	0.3	0.7	2.7	30.5	34.6	33.3	0.7	0.4	0.4	1.6	1.3	2.1	2.5
Red Ruby	RED	152.6	151.7	153.0	2.5	2.9	3.1	3.0	32.3	36.9	35.5	3.4	3.2	2.9	0.4	1.3	3.0	3.8
Trevor	RED	151.7	-----	-----	4.0	-----	-----	0.0	30.3	-----	-----	2.1	-----	-----	2.1	-----	-----	-----
Hopewell	RED	151.2	150.6	152.2	3.0	4.4	3.6	0.0	34.9	38.0	36.7	3.4	3.2	2.7	1.5	1.6	2.7	3.5
MSU Line D8006R	RED	152.0	151.0	152.5	2.5	2.7	2.3	0.0	35.7	38.6	37.1	1.7	1.3	1.0	1.0	2.2	3.8	4.7
Arena	RED	151.2	-----	-----	3.0	-----	-----	0.0	33.4	-----	-----	3.5	-----	-----	2.6	-----	-----	-----
Genesis R055	RED	151.3	150.2	151.9	2.0	3.7	3.0	0.7	32.1	35.0	34.1	2.1	3.0	3.1	1.1	2.4	3.1	-----
Pioneer Brand 25R56	RED	152.0	-----	-----	2.5	-----	-----	0.0	30.8	-----	-----	4.3	-----	-----	1.4	-----	-----	-----
RS 908	RED	151.2	-----	-----	2.0	-----	-----	0.0	33.1	-----	-----	3.8	-----	-----	0.0	-----	-----	-----
Branson	RED	150.3	149.8	-----	3.0	2.4	-----	0.3	31.3	34.6	-----	1.4	1.2	-----	1.6	1.6	-----	-----
VA03W-235	RED	151.2	-----	-----	2.5	-----	-----	0.0	31.9	-----	-----	2.6	-----	-----	2.9	-----	-----	-----
Gypsy	RED	152.2	-----	-----	4.5	-----	-----	0.0	29.0	-----	-----	0.5	-----	-----	1.5	-----	-----	-----
Emmit	RED	152.5	151.4	152.6	2.5	4.2	3.9	4.3	34.4	37.6	36.3	4.4	3.8	4.2	4.5	2.7	3.5	3.8
Pioneer Brand 25R51	RED	151.3	150.2	-----	2.5	3.3	-----	0.0	32.9	36.0	-----	5.4	5.1	-----	1.8	2.6	-----	-----
DF101R	RED	150.2	149.6	150.9	3.0	2.7	2.5	0.3	34.4	36.9	35.7	1.7	1.3	1.3	2.2	1.8	2.9	-----
AG 2581	RED	150.8	-----	-----	1.5	-----	-----	1.0	32.5	-----	-----	2.7	-----	-----	1.5	-----	-----	-----
Huntley	RED	151.0	-----	-----	1.5	-----	-----	0.3	37.2	-----	-----	3.1	-----	-----	0.7	-----	-----	-----
HS 260 R	RED	150.8	150.2	-----	2.5	2.4	-----	0.0	36.0	40.5	-----	2.4	2.1	-----	2.2	2.6	-----	-----
RS 953	RED	150.7	149.9	-----	2.5	2.6	-----	0.0	32.2	35.5	-----	1.4	1.3	-----	1.4	1.6	-----	-----
Cooper	RED	150.7	149.9	151.5	2.5	2.8	2.7	2.3	32.0	34.4	33.5	5.0	4.2	4.3	3.8	1.8	3.5	-----
AG 2579	RED	151.8	-----	-----	1.5	-----	-----	0.3	32.6	-----	-----	5.2	-----	-----	0.7	-----	-----	-----
Pioneer Brand 25R63	RED	151.5	150.4	-----	2.5	3.4	-----	0.0	32.4	35.5	-----	5.4	4.6	-----	2.3	2.0	-----	-----
DF104R	RED	152.8	-----	-----	2.0	-----	-----	0.0	35.3	-----	-----	4.1	-----	-----	0.7	-----	-----	-----
V9412	RED	150.2	149.8	150.9	3.0	2.8	2.7	0.0	32.7	35.8	34.8	1.5	1.3	1.1	2.4	1.8	3.3	-----
RS 942	RED	151.7	150.5	-----	3.5	3.1	-----	0.0	36.4	38.9	-----	2.7	2.2	-----	1.6	4.8	-----	-----
Pioneer Brand 25R37	RED	152.0	150.9	152.4	3.5	4.1	3.4	0.0	30.5	34.5	33.6	4.4	3.1	3.2	2.8	1.7	2.5	2.8
Benton	RED	150.8	-----	-----	3.0	-----	-----	0.0	31.4	-----	-----	4.2	-----	-----	2.5	-----	-----	-----
Roane	RED	150.7	150.0	151.6	2.0	2.4	2.1	0.3	31.8	34.3	32.9	4.8	4.1	4.2	0.8	3.0	3.5	3.6
Truman	RED	154.0	151.7	153.2	2.5	2.6	2.5	0.0	34.2	37.5	36.0	5.6	4.5	4.6	0.3	2.4	3.0	3.4
FT Wonder	RED	151.8	150.4	151.6	5.0	5.8	5.0	1.0	34.2	38.7	37.0	3.5	2.6	2.3	2.8	1.9	3.2	4.0
Bravo	RED	149.4	149.5	150.9	4.5	5.4	4.8	0.0	36.6	39.3	38.1	4.6	4.8	5.5	3.2	2.2	2.9	3.6
Cedar	RED	152.9	151.2	152.6	8.5	8.3	7.9	0.0	35.3	39.0	37.7	0.2	0.5	0.5	4.9	1.5	2.2	3.1
McCormick	RED	151.0	150.0	151.5	8.0	6.8	5.7	0.0	28.6	32.9	31.7	0.2	0.4	0.3	1.0	1.9	2.9	3.5

## 2007 Michigan State University Wheat Performance Trials

Multi-year data are the most informative

Table 2 : Multi-Year Performance Summary (Note: Tables sorted by 2007 Yield, red wheats grouped before white)

MSU makes no endorsement of any variety or brand.

Name	Grain Color	Flowering Date (Days Past Jan. 1)			Leaf Rust Score (0-9)			Stripe Rust Score (0-9) 2007	Plant Height (Inches)			Powdery Mildew Score (0-9)			Barley Yellow Dwarf Virus Score (0-9) 2007	Leaf Blotch Score (0-9)		
		Multi-Year Averages			Multi-Year Averages				Multi-Year Averages			Multi-Year Averages						
		2 YR	3 YR		2 YR	3 YR			2 YR	3 YR		2 YR	3 YR			2006 HARVEST	2 YR	3 YR
		2007	06-07	05-07	2007	06-07	05-07		2007	06-07	05-07	2007	06-07	05-07		2007	05-06	04-06
MSU D8006W	WHITE	151.5	150.5	152.2	2.5	3.8	3.2	0.7	34.1	38.1	36.5	2.4	2.0	1.8	0.6	1.5	3.0	3.9
MSU Line E0028	WHITE	151.8	150.6	152.0	3.0	4.5	3.8	1.7	33.8	38.1	36.3	2.6	2.8	2.8	4.0	1.9	3.1	4.1
Crystal	WHITE	152.7	151.8	153.0	2.5	2.9	2.6	5.0	33.9	37.0	35.4	2.9	1.9	1.9	1.0	1.9	3.3	4.2
Jewel	WHITE	151.8	150.8	152.2	2.0	3.3	2.9	2.0	34.2	37.6	36.4	3.1	3.1	3.1	0.6	1.5	2.6	3.4
TW110-062	WHITE	152.5	-----	-----	2.0	-----	-----	0.0	33.1	-----	-----	4.9	-----	-----	3.7	-----	-----	-----
MSU Line E2017	WHITE	152.8	151.7	153.0	2.5	3.3	2.9	3.7	36.0	40.2	38.0	4.2	4.3	4.4	2.1	2.3	3.0	-----
MSU Line E1009	WHITE	152.3	151.5	-----	3.0	3.8	-----	1.3	30.7	35.3	-----	2.7	2.0	-----	4.4	2.2	-----	-----
MCIA CRL	WHITE	151.0	-----	-----	5.0	-----	-----	0.0	35.8	-----	-----	3.1	-----	-----	1.5	-----	-----	-----
MSU Line E2041	WHITE	151.8	151.0	-----	2.5	3.0	-----	0.3	34.0	37.4	-----	3.5	3.6	-----	1.6	2.2	-----	-----
Pioneer Brand 25W41	WHITE	151.3	150.7	152.2	1.5	2.3	2.2	0.0	32.5	35.7	34.3	5.7	5.0	5.4	1.9	2.8	3.0	3.5
Aubrey	WHITE	151.3	150.3	151.7	3.5	3.8	3.0	0.3	34.8	38.1	36.6	2.1	1.5	1.3	1.8	1.5	2.9	3.5
TW122-001	WHITE	155.0	-----	-----	2.5	-----	-----	0.0	38.3	-----	-----	4.1	-----	-----	4.3	-----	-----	-----
MSU Line E2043	WHITE	154.8	153.4	154.6	2.0	3.1	2.7	1.3	35.2	39.0	37.6	2.4	1.9	1.9	4.3	2.8	3.4	-----
MSU Line E3003	WHITE	155.7	-----	-----	3.5	-----	-----	0.3	31.9	-----	-----	2.0	-----	-----	1.7	-----	-----	-----
MSU Line E3023	WHITE	154.7	-----	-----	4.5	-----	-----	0.0	33.7	-----	-----	3.9	-----	-----	1.3	-----	-----	-----
MSU D6234	WHITE	152.7	151.4	152.7	2.5	3.0	2.3	3.3	34.2	38.8	37.5	3.1	2.8	2.8	0.7	2.0	2.8	3.3
MSU Line E3012	WHITE	154.0	-----	-----	2.5	-----	-----	0.0	32.3	-----	-----	4.1	-----	-----	3.2	-----	-----	-----
Pearl	WHITE	152.2	150.8	152.4	1.0	0.9	0.9	1.0	34.3	37.8	36.4	1.0	1.1	1.0	0.8	2.4	3.6	3.8
MSU Line E1008	WHITE	152.8	151.2	152.6	4.0	5.3	4.7	4.7	33.3	37.4	35.8	3.2	2.2	1.9	3.2	1.5	-----	-----
AC Mountain	WHITE	152.5	151.2	152.6	3.5	4.4	3.9	1.0	37.9	41.3	39.6	3.4	3.3	4.3	2.9	1.9	2.8	3.4
Acorn	WHITE	152.5	-----	-----	3.0	-----	-----	0.3	39.7	-----	-----	0.4	-----	-----	1.1	-----	-----	-----
Lowell	WHITE	151.8	-----	-----	5.0	-----	-----	0.0	38.1	-----	-----	4.1	-----	-----	1.5	-----	-----	-----
Caledonia	WHITE	152.3	150.9	152.7	4.0	4.6	4.2	1.0	31.8	35.6	34.3	4.1	3.8	3.5	2.3	2.4	3.6	3.9
MSU Line E3004	WHITE	154.0	-----	-----	4.0	-----	-----	1.7	31.9	-----	-----	3.9	-----	-----	5.3	-----	-----	-----
Augusta	WHITE	154.0	-----	-----	2.5	-----	-----	1.3	40.8	-----	-----	4.8	-----	-----	3.0	-----	-----	-----
Bavaria	WHITE	154.0	-----	-----	2.5	-----	-----	2.7	38.9	-----	-----	3.4	-----	-----	3.7	-----	-----	-----
NY88046-8138	WHITE	154.3	-----	-----	3.5	-----	-----	1.3	35.5	-----	-----	3.1	-----	-----	1.3	-----	-----	-----
Ashley	WHITE	154.0	152.3	-----	2.5	1.9	-----	0.0	38.0	42.0	-----	0.9	0.9	-----	2.1	3.5	-----	-----
Frankenmuth	WHITE	154.3	-----	-----	3.5	-----	-----	1.7	42.2	-----	-----	3.9	-----	-----	3.5	-----	-----	-----
<b>Trial Mean (2007=67 Entries)</b>		<b>152.0</b>	<b>150.7</b>	<b>152.2</b>	<b>2.9</b>	<b>3.4</b>	<b>3.1</b>	<b>0.9</b>	<b>34.0</b>	<b>37.2</b>	<b>35.8</b>	<b>3.1</b>	<b>2.6</b>	<b>2.6</b>	<b>2.1</b>	<b>2.2</b>	<b>3.2</b>	<b>3.7</b>
<b>LSD (0.05)</b>		<b>0.8</b>	<b>1.2</b>	<b>0.8</b>	<b>1.7</b>	<b>1.9</b>	<b>1.4</b>	<b>1.5</b>	<b>1.7</b>	<b>1.8</b>	<b>1.3</b>	<b>1.8</b>	<b>1.3</b>	<b>1.2</b>	<b>1.7</b>	<b>1.1</b>	<b>1.1</b>	<b>1.0</b>
<b>CV (%)</b>		<b>1.1</b>	<b>1.2</b>	<b>1.0</b>	<b>29.2</b>	<b>28.6</b>	<b>28.2</b>	<b>103.0</b>	<b>2.5</b>	<b>2.4</b>	<b>2.2</b>	<b>28.1</b>	<b>24.6</b>	<b>26.8</b>	<b>56.2</b>	<b>23.5</b>	<b>17.9</b>	<b>16.1</b>

## 2007 Michigan State University Wheat Performance Trials

Multi-year data are the most informative

**Table 3 : Multi-Year Performance Summary (Note: Tables sorted by 2007 Yield, red wheats grouped before white)**

MSU makes no endorsement of any variety or brand.

Name	Grain Color	Wheat Spindle Streak Mosaic Virus Score (0-9) 2006 HARVEST	In Head Sprouting Score (0-9)			Incidence (% of spikes)			Fusarium Head Blight (Scab) Data : Field Observation Symptoms						PPM DON in grain		
			Multi-Year Averages			Multi-Year Averages			Severity (% within spikes)			Index (% overall infection)			Multi-Year Averages		
			2 YR	3 YR		2 YR	3 YR		2 YR		3 YR	2 YR		3 YR	2006 HARVEST	2 YR	3 YR
			06-07	05-07	2007	06-07	05-07	2007	06-07	05-07	2007	06-07	05-07	2007	06-07	05-07	05-06
Pioneer Brand 25R47	RED	3.0	6.7	5.6	5.9	74.1	69.6	70.5	55.2	47.6	45.6	41.7	33.9	31.8	2.2	2.1	3.1
MCIA OASIS	RED	1.0	2.7	2.4	2.0	58.6	44.3	53.8	44.8	42.4	42.0	26.3	19.2	23.0	2.3	2.3	3.2
Genesis R045	RED	3.0	5.5	6.4	7.1	52.5	48.8	58.9	39.1	39.6	41.5	23.1	20.8	26.1	1.7	1.7	2.1
Tribute	RED	4.0	5.4	4.1	4.0	44.9	42.5	52.7	31.0	35.5	35.5	14.6	15.3	19.0	1.4	2.1	2.3
Red Ruby	RED	1.0	6.8	5.1	4.8	65.7	47.9	52.1	59.3	42.2	41.6	42.1	24.8	24.7	2.0	2.7	3.5
Trevor	RED	-----	5.7	-----	-----	71.9	-----	-----	66.0	-----	-----	47.2	-----	-----	-----	-----	-----
Hopewell	RED	1.0	2.9	2.9	2.5	66.9	63.5	57.9	59.7	49.9	44.3	43.1	33.6	28.7	2.2	3.0	3.5
MSU Line D8006R	RED	2.0	5.1	4.7	4.6	62.8	46.4	52.2	55.9	53.0	45.8	34.1	24.1	22.9	1.5	2.2	3.8
Arena	RED	-----	6.7	-----	-----	67.9	-----	-----	41.5	-----	-----	28.1	-----	-----	-----	-----	-----
Genesis R055	RED	4.0	7.8	5.5	4.9	62.0	48.5	55.8	48.3	44.2	42.3	29.5	22.5	24.4	2.5	1.9	-----
Pioneer Brand 25R56	RED	-----	3.1	-----	-----	61.4	-----	-----	43.1	-----	-----	25.8	-----	-----	-----	-----	-----
RS 908	RED	-----	2.3	-----	-----	60.5	-----	-----	55.5	-----	-----	33.7	-----	-----	-----	-----	-----
Branson	RED	7.0	3.5	3.0	-----	54.7	37.4	-----	34.6	32.3	-----	20.9	13.5	-----	1.3	-----	-----
VA03W-235	RED	-----	1.9	-----	-----	55.6	-----	-----	39.6	-----	-----	22.7	-----	-----	-----	-----	-----
Gypsy	RED	-----	2.4	-----	-----	61.9	-----	-----	50.3	-----	-----	31.0	-----	-----	-----	-----	-----
Emmit	RED	6.0	7.1	6.7	6.1	47.9	41.5	53.2	47.2	46.1	43.1	23.0	19.5	22.3	1.0	1.3	1.9
Pioneer Brand 25R51	RED	5.0	5.8	4.7	-----	45.0	42.5	-----	28.8	29.4	-----	14.3	13.7	-----	0.7	-----	-----
DF101R	RED	7.0	4.4	3.9	3.2	66.9	58.5	65.9	36.6	35.8	36.6	24.7	21.1	24.5	1.3	1.4	-----
AG 2581	RED	-----	2.8	-----	-----	52.1	-----	-----	33.4	-----	-----	20.8	-----	-----	-----	-----	-----
Huntley	RED	-----	4.2	-----	-----	67.4	-----	-----	49.6	-----	-----	33.8	-----	-----	-----	-----	-----
HS 260 R	RED	5.0	8.7	8.9	-----	57.5	48.8	-----	36.4	40.7	-----	21.3	19.4	-----	1.9	-----	-----
RS 953	RED	6.0	2.7	2.4	-----	71.8	60.9	-----	36.0	35.5	-----	25.1	21.6	-----	1.1	-----	-----
Cooper	RED	6.0	5.2	3.9	5.0	73.7	59.4	59.7	56.0	48.0	42.0	41.1	29.6	25.1	1.9	1.6	-----
AG 2579	RED	-----	7.9	-----	-----	69.2	-----	-----	66.6	-----	-----	46.8	-----	-----	-----	-----	-----
Pioneer Brand 25R63	RED	6.0	4.6	3.7	-----	53.0	41.5	-----	42.1	36.1	-----	21.6	15.8	-----	1.8	-----	-----
DF104R	RED	-----	6.6	-----	-----	35.9	-----	-----	49.9	-----	-----	17.9	-----	-----	-----	-----	-----
V9412	RED	7.0	3.4	3.6	3.6	62.8	53.9	64.2	40.5	37.8	36.7	26.7	21.4	24.3	1.7	1.3	-----
RS 942	RED	9.0	8.8	8.8	-----	43.5	36.8	-----	24.4	29.7	-----	10.1	10.1	-----	1.0	-----	-----
Pioneer Brand 25R37	RED	2.0	4.8	4.3	4.8	-----	-----	-----	-----	-----	-----	-----	-----	-----	1.6	2.2	2.9
Benton	RED	-----	5.6	-----	-----	57.4	-----	-----	31.5	-----	-----	18.1	-----	-----	-----	-----	-----
Roane	RED	9.0	7.5	5.5	5.3	62.0	56.0	57.7	41.8	40.9	37.3	26.8	23.4	22.2	1.0	0.9	1.4
Truman	RED	8.0	3.7	3.0	2.3	20.5	17.8	21.5	22.1	23.6	26.5	6.8	5.4	8.1	0.5	1.0	2.3
FT Wonder	RED	3.0	8.9	8.4	8.8	57.5	51.3	-----	39.2	34.6	-----	23.2	18.4	-----	0.7	-----	-----
Bravo	RED	2.0	4.6	3.6	3.9	68.6	64.3	61.8	49.6	47.3	45.1	35.4	32.7	29.9	1.9	1.9	2.2
Cedar	RED	2.0	2.2	2.1	2.4	43.7	36.9	44.1	36.5	30.8	29.4	15.4	11.7	13.1	0.7	1.0	2.0
McCormick	RED	2.0	2.9	2.3	3.1	54.4	47.2	52.8	33.5	36.8	32.8	17.8	16.9	16.6	0.9	0.5	1.3



## 2007 Michigan State University Wheat Performance Trials

Multi-year data are the most informative

Table 3 : Multi-Year Performance Summary (Note: Tables sorted by 2007 Yield, red wheats grouped before white)

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Name	Grain Color	Wheat Spindle Streak Mosaic Virus Score (0-9) 2006 HARVEST	In Head Sprouting Score (0-9)			Incidence (% of spikes)			Fusarium Head Blight (Scab) Data : Field Observation Symptoms						PPM DON in grain		
			Multi-Year Averages			Multi-Year Averages			Severity (% within spikes)			Index (% overall infection)			Multi-Year Averages		
			2 YR	3 YR		2 YR	3 YR		2 YR		3 YR	2 YR		3 YR	2006 HARVEST	2 YR	3 YR
			2007	06-07	05-07	2007	06-07	05-07	2007	06-07	05-07	2007	06-07	05-07	2007	06-07	05-07
MSU D8006W	WHITE	1.0	7.0	7.0	7.3	62.8	61.4	67.6	52.6	51.3	51.0	35.6	32.8	35.1	5.6	8.1	10.2
MSU Line E0028	WHITE	2.0	8.6	8.6	8.7	59.3	59.7	59.0	45.8	52.9	47.9	27.2	31.6	28.9	9.0	6.5	8.8
Crystal	WHITE	2.0	8.3	8.2	8.4	43.2	39.1	54.0	67.3	53.7	55.1	30.8	22.4	30.8	5.5	7.1	8.0
Jewel	WHITE	1.0	8.3	8.1	8.3	70.7	70.4	67.9	57.9	51.5	48.9	41.0	36.3	32.3	9.3	8.7	10.4
TW110-062	WHITE	-----	6.5	-----	-----	45.3	-----	-----	45.3	-----	-----	21.1	-----	-----	-----	-----	-----
MSU Line E2017	WHITE	1.0	8.4	8.6	8.8	36.8	33.4	38.7	31.9	33.5	39.1	14.3	12.2	16.0	4.5	3.7	-----
MSU Line E1009	WHITE	2.0	7.5	7.0	-----	72.0	61.0	-----	59.4	47.2	-----	42.8	30.2	-----	4.3	-----	-----
MCIA CRL	WHITE	-----	8.6	-----	-----	47.8	-----	-----	37.5	-----	-----	18.1	-----	-----	-----	-----	-----
MSU Line E2041	WHITE	3.0	8.5	8.2	-----	52.7	53.9	-----	45.7	40.4	-----	25.6	22.6	-----	9.5	-----	-----
Pioneer Brand 25W41	WHITE	1.0	6.5	6.3	6.7	66.1	53.1	61.2	36.3	38.2	44.3	24.5	20.3	28.0	4.8	6.9	8.1
Aubrey	WHITE	3.0	8.4	8.6	8.5	59.1	54.6	57.8	35.5	40.3	36.6	22.3	22.7	20.9	4.2	4.5	6.0
TW122-001	WHITE	-----	7.8	-----	-----	26.1	-----	-----	37.6	-----	-----	8.6	-----	-----	-----	-----	-----
MSU Line E2043	WHITE	2.0	5.3	6.2	6.8	36.1	38.1	46.7	37.6	38.8	35.3	12.6	14.3	15.3	5.3	5.8	-----
MSU Line E3003	WHITE	-----	7.1	-----	-----	41.9	-----	-----	45.2	-----	-----	17.1	-----	-----	-----	-----	-----
MSU Line E3023	WHITE	-----	8.2	-----	-----	31.2	-----	-----	29.1	-----	-----	10.3	-----	-----	-----	-----	-----
MSU D6234	WHITE	1.0	8.5	8.7	8.7	62.4	53.7	56.3	62.2	58.6	51.4	39.0	31.5	28.9	5.1	3.9	5.1
MSU Line E3012	WHITE	-----	7.6	-----	-----	50.6	-----	-----	50.3	-----	-----	31.2	-----	-----	-----	-----	-----
Pearl	WHITE	3.0	8.1	8.4	8.6	49.9	35.0	43.3	39.8	44.9	39.6	20.7	15.4	15.6	5.4	5.1	6.7
MSU Line E1008	WHITE	1.0	7.5	6.4	6.5	65.8	70.4	65.9	46.4	45.7	48.1	30.3	32.2	32.2	7.5	-----	-----
AC Mountain	WHITE	2.0	9.0	8.6	8.7	39.2	37.1	47.1	58.9	52.0	43.5	24.6	20.3	20.1	4.8	3.9	5.8
Acorn	WHITE	-----	8.4	-----	-----	50.1	-----	-----	46.7	-----	-----	24.8	-----	-----	-----	-----	-----
Lowell	WHITE	-----	8.6	-----	-----	61.2	-----	-----	31.5	-----	-----	20.3	-----	-----	-----	-----	-----
Caledonia	WHITE	2.0	8.6	8.6	8.7	56.3	53.2	55.7	55.8	60.4	60.4	33.0	35.0	35.4	4.5	4.9	6.8
MSU Line E3004	WHITE	-----	8.4	-----	-----	23.1	-----	-----	31.8	-----	-----	8.3	-----	-----	-----	-----	-----
Augusta	WHITE	-----	8.1	-----	-----	43.2	-----	-----	30.0	-----	-----	13.9	-----	-----	-----	-----	-----
Bavaria	WHITE	-----	8.8	-----	-----	32.2	-----	-----	61.0	-----	-----	20.5	-----	-----	-----	-----	-----
NY88046-8138	WHITE	-----	7.8	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Ashley	WHITE	7.0	8.2	8.1	-----	27.0	28.5	-----	30.1	35.1	-----	8.9	10.5	-----	3.4	-----	-----
Frankenmuth	WHITE	-----	8.7	-----	-----	35.7	-----	-----	34.3	-----	-----	14.2	-----	-----	-----	-----	-----
<b>Trial Mean (2007=67 Entries)</b>		<b>3.3</b>	<b>6.2</b>	<b>5.9</b>	<b>5.9</b>	<b>54.7</b>	<b>49.2</b>	<b>55.2</b>	<b>43.6</b>	<b>42.1</b>	<b>42.3</b>	<b>25.3</b>	<b>21.9</b>	<b>24.2</b>	<b>3.1</b>	<b>3.3</b>	<b>4.6</b>
<b>LSD (0.05)</b>		<b>2.0</b>	<b>1.8</b>	<b>2.0</b>	<b>1.7</b>	<b>21.8</b>	<b>16.3</b>	<b>17.0</b>	<b>21.0</b>	<b>15.9</b>	<b>13.7</b>	<b>19.9</b>	<b>12.7</b>	<b>12.0</b>	<b>2.0</b>	<b>2.8</b>	<b>2.4</b>
<b>CV (%)</b>		<b>32.1</b>	<b>14.5</b>	<b>16.5</b>	<b>17.8</b>	<b>20.5</b>	<b>16.4</b>	<b>18.9</b>	<b>24.2</b>	<b>18.7</b>	<b>19.8</b>	<b>39.6</b>	<b>28.6</b>	<b>30.4</b>	<b>32.1</b>	<b>40.7</b>	<b>31.3</b>

## 2007 Michigan State University Wheat Performance Trials

Multi-year data are the most informative

Table 4 : Multi-Year Performance Summary (Note: Tables sorted by 2007 Yield, red wheats grouped before white)

MSU makes no endorsement of any variety or brand.

Name	Grain Color	Milling and Baking Properties (2006 Crop and Earlier)															Black Point Percent	
		Percent Flour Yield			Percent Protein In Flour			Lactic Acid Retention			Softness Equivalent Percent			Quality Lab Test Weight			2006 HARVEST	2 YR
		Multi-Year Averages			Multi-Year Averages			Multi-Year Averages			Multi-Year Averages			Multi-Year Averages				
		2006 HARVEST	2 YR	3 YR	2006 HARVEST	2 YR	3 YR	2006 HARVEST	2 YR	3 YR	2006 HARVEST	2 YR	3 YR	2006 HARVEST	2 YR	3 YR	2006 HARVEST	2 YR
Pioneer Brand 25R47	RED	72.1	72.8	72.5	6.5	7.3	6.9	109.2	105.3	107.0	67.5	64.2	63.7	59.1	60.9	60.9	10.4	11.6
MCIA OASIS	RED	72.3	72.6	72.1	7.3	7.8	7.3	106.0	102.1	104.8	61.7	59.2	58.8	60.8	61.7	61.8	32.5	34.4
Genesis R045	RED	72.0	72.6	72.9	7.2	8.0	7.7	109.4	104.7	105.0	60.8	58.1	58.2	60.3	61.9	62.0	16.4	17.5
Tribute	RED	70.0	70.7	70.2	7.6	8.3	7.7	112.5	113.0	115.3	55.8	53.9	53.3	63.4	64.6	64.6	21.9	21.4
Red Ruby	RED	70.9	71.4	71.1	7.0	7.8	7.4	112.3	108.5	111.5	63.7	60.8	60.6	61.1	62.8	62.8	7.9	9.8
Trevor	RED	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Hopewell	RED	68.5	69.2	69.0	7.1	8.0	7.7	119.9	113.4	113.3	62.9	60.2	59.9	60.7	62.3	62.3	3.2	3.0
MSU Line D8006R	RED	71.5	72.2	72.0	7.5	8.7	8.1	109.6	105.8	105.6	59.9	56.4	55.9	60.0	61.9	62.0	8.4	12.0
Arena	RED	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Genesis R055	RED	71.6	72.6	-----	6.8	7.7	-----	98.7	90.7	-----	65.2	62.1	-----	61.7	63.6	-----	22.5	30.9
Pioneer Brand 25R56	RED	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
RS 908	RED	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Branson	RED	71.1	-----	-----	7.3	-----	-----	118.8	-----	-----	65.0	-----	-----	60.2	-----	-----	6.4	-----
VA03W-235	RED	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Gypsy	RED	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Emmit	RED	71.9	72.8	72.6	6.8	7.9	7.5	87.0	82.6	84.3	61.5	57.2	57.4	60.9	62.6	62.6	23.5	28.8
Pioneer Brand 25R51	RED	67.9	-----	-----	6.9	-----	-----	105.8	-----	-----	63.3	-----	-----	58.8	-----	-----	13.6	-----
DF101R	RED	69.0	69.8	-----	8.3	8.6	-----	114.1	113.7	-----	52.7	51.2	-----	62.4	63.7	-----	5.3	9.0
AG 2581	RED	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Huntley	RED	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
HS 260 R	RED	70.5	-----	-----	6.8	-----	-----	98.8	-----	-----	65.2	-----	-----	59.0	-----	-----	3.7	-----
RS 953	RED	69.0	-----	-----	7.5	-----	-----	113.7	-----	-----	53.7	-----	-----	62.3	-----	-----	4.4	-----
Cooper	RED	71.4	72.0	-----	7.3	8.2	-----	101.6	96.6	-----	60.9	58.7	-----	61.5	63.4	-----	8.0	10.2
AG 2579	RED	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Pioneer Brand 25R63	RED	69.4	-----	-----	6.7	-----	-----	109.8	-----	-----	61.3	-----	-----	60.4	-----	-----	5.9	-----
DF104R	RED	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
V9412	RED	69.4	69.9	-----	7.6	8.3	-----	106.1	111.5	-----	56.9	53.4	-----	61.4	63.1	-----	6.9	8.3
RS 942	RED	70.0	-----	-----	7.8	-----	-----	104.0	-----	-----	60.3	-----	-----	61.0	-----	-----	26.8	-----
Pioneer Brand 25R37	RED	69.0	69.4	69.2	7.8	8.6	8.0	109.8	108.4	108.5	60.2	58.5	57.3	62.0	63.7	64.1	5.1	6.6
Benton	RED	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Roane	RED	67.7	68.6	68.4	7.4	8.2	7.6	114.4	112.3	113.5	60.0	58.4	58.4	63.4	64.7	64.7	6.0	4.2
Truman	RED	69.0	70.0	69.5	7.2	8.1	7.7	108.7	102.0	103.0	61.2	57.5	56.1	61.0	62.7	62.9	3.6	5.1
FT Wonder	RED	71.3	71.6	71.5	7.8	8.4	7.6	102.2	102.8	104.2	65.8	62.6	63.5	60.8	62.7	62.4	8.7	9.0
Bravo	RED	70.3	70.8	70.7	7.8	8.4	8.1	90.5	90.4	90.7	57.4	55.1	56.1	61.6	62.8	62.5	9.2	9.2
Cedar	RED	67.8	69.3	69.0	6.4	7.5	7.1	103.9	103.7	107.0	65.8	59.9	59.2	58.3	61.2	61.5	1.2	3.2
McCormick	RED	69.9	70.8	70.3	7.6	8.6	8.2	114.3	109.8	111.8	61.3	59.5	58.0	62.6	64.1	64.4	17.6	18.0

## 2007 Michigan State University Wheat Performance Trials

Multi-year data are the most informative

Table 4 : Multi-Year Performance Summary (Note: Tables sorted by 2007 Yield, red wheats grouped before white)

MSU makes no endorsement of any variety or brand.

Name	Grain Color	Milling and Baking Properties (2006 Crop and Earlier)															Black Point	
		Percent Flour Yield			Percent Protein In Flour			Lactic Acid Retention			Softness Equivalent Percent			Quality Lab Test Weight			Percent	
		Multi-Year Averages			Multi-Year Averages			Multi-Year Averages			Multi-Year Averages			Multi-Year Averages			Multi-Year	
		2006 HARVEST	2 YR 05-06	3 YR 04-06	2006 HARVEST	2 YR 05-06	3 YR 04-06	2006 HARVEST	2 YR 05-06	3 YR 04-06	2006 HARVEST	2 YR 05-06	3 YR 04-06	2006 HARVEST	2 YR 05-06	3 YR 04-06	2006 HARVEST	2 YR 05-06
MSU D8006W	WHITE	72.8	73.3	73.2	7.0	8.2	7.6	113.2	112.7	114.5	63.5	59.7	59.5	59.2	61.2	61.2	26.1	25.8
MSU Line E0028	WHITE	72.6	73.3	73.1	6.7	7.8	7.5	95.5	93.6	97.9	61.1	57.9	57.9	59.0	61.2	61.1	2.5	6.6
Crystal	WHITE	72.3	72.8	72.4	6.6	7.7	7.4	103.5	101.0	104.4	62.8	59.0	58.0	59.6	61.3	61.5	1.2	3.4
Jewel	WHITE	71.8	72.0	71.8	7.1	8.0	7.4	109.1	106.7	108.8	60.8	57.2	57.3	60.0	61.8	61.8	3.2	5.6
TW110-062	WHITE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MSU Line E2017	WHITE	71.9	72.3	-----	6.6	7.7	-----	104.1	98.8	-----	65.1	60.6	-----	59.7	61.8	-----	6.3	11.0
MSU Line E1009	WHITE	71.6	-----	-----	7.0	-----	-----	110.5	-----	-----	58.1	-----	-----	60.4	-----	-----	4.9	-----
MCIA CRL	WHITE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MSU Line E2041	WHITE	71.6	-----	-----	7.6	-----	-----	108.4	-----	-----	58.2	-----	-----	61.5	-----	-----	4.7	4.0
Pioneer Brand 25W41	WHITE	70.5	70.9	70.9	6.6	7.6	7.4	99.1	94.2	94.8	66.3	63.0	62.1	60.1	62.3	62.3	16.9	17.5
Aubrey	WHITE	70.7	71.7	72.2	8.0	8.5	8.1	103.6	103.6	104.7	58.8	58.4	58.7	61.5	62.9	62.9	7.5	9.1
TW122-001	WHITE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MSU Line E2043	WHITE	73.1	73.2	-----	6.9	8.0	-----	107.8	105.5	-----	61.8	58.0	-----	60.3	62.0	-----	7.6	8.9
MSU Line E3003	WHITE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	12.3	12.2
MSU Line E3023	WHITE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	4.5	12.2
MSU D6234	WHITE	69.5	70.4	70.4	7.3	8.2	7.8	85.1	81.9	82.8	60.0	56.8	56.1	60.8	62.4	62.8	21.6	20.8
MSU Line E3012	WHITE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	6.4	10.2
Pearl	WHITE	70.3	71.5	70.9	6.9	8.0	7.5	113.0	110.0	111.4	61.8	59.4	59.0	60.7	62.4	62.7	10.3	11.6
MSU Line E1008	WHITE	70.0	-----	-----	7.1	-----	-----	90.7	-----	-----	62.7	-----	-----	60.7	-----	-----	14.9	13.6
AC Mountain	WHITE	72.0	72.6	72.4	6.7	7.8	7.5	91.6	92.0	93.7	63.1	58.9	58.7	58.4	60.6	60.8	12.9	11.9
Acorn	WHITE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Lowell	WHITE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Caledonia	WHITE	71.9	72.4	72.3	6.8	7.9	7.5	101.6	97.5	98.4	64.7	60.2	60.4	59.4	61.5	61.4	5.1	8.4
MSU Line E3004	WHITE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	7.9	10.7
Augusta	WHITE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Bavaria	WHITE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
NY88046-8138	WHITE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Ashley	WHITE	68.8	-----	-----	7.9	-----	-----	89.9	-----	-----	59.5	-----	-----	58.3	-----	-----	31.5	-----
Frankenmuth	WHITE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
<b>Trial Mean (2007=67 Entries)</b>		<b>70.4</b>	<b>71.4</b>	<b>71.2</b>	<b>7.2</b>	<b>8.0</b>	<b>7.6</b>	<b>104.9</b>	<b>102.4</b>	<b>103.9</b>	<b>61.0</b>	<b>58.6</b>	<b>58.6</b>	<b>60.4</b>	<b>62.4</b>	<b>62.4</b>	<b>10.4</b>	<b>12.6</b>
<b>LSD (0.05)</b>		-----	<b>0.9</b>	<b>0.9</b>	-----	<b>0.7</b>	<b>0.5</b>	-----	<b>7.9</b>	<b>4.9</b>	-----	<b>3.2</b>	<b>2.6</b>	-----	<b>1.1</b>	<b>0.8</b>	<b>9.2</b>	<b>6.0</b>
<b>CV (%)</b>		-----	<b>0.6</b>	<b>0.7</b>	-----	<b>4.0</b>	<b>4.0</b>	-----	<b>3.8</b>	<b>2.8</b>	-----	<b>2.7</b>	<b>2.7</b>	-----	<b>0.9</b>	<b>0.8</b>	<b>54.8</b>	<b>23.3</b>

## 2007 Michigan State University Wheat Performance Trials

Multi-year data are the most informative

Table 5 : Single Site: Yield, Test Weight and Moisture Performance Summary (Note: Tables sorted alphabetically by organization)

MSU makes no endorsement of any variety or brand.

Name	Grain Color	2007 COUNTY LOCATIONS																		Organization
		HURON			INGHAM			LENAWEE			MIDLAND			SANILAC			TUSCOLA			
		Yield bu/acre	Test Weight	Moist.	Yield bu/acre	Test Weight	Moist.	Yield bu/acre	Test Weight	Moist.	Yield bu/acre	Test Weight	Moist.	Yield bu/acre	Test Weight	Moist.	Yield bu/acre	Test Weight	Moist.	
Benton	RED	82.7	55.9	13.9	70.5	55.5	13.2	82.4	59.1	9.4	78.8	55.3	12.7	98.5	58.2	13.3	96.1	59.4	10.9	AgriPro Coker
Branson	RED	88.5	55.6	14.6	85.7	57.4	14.1	84.0	59.6	10.5	78.0	56.6	14.7	105.6	58.3	14.1	102.5	60.2	11.5	AgriPro Coker
Cooper	RED	85.8	55.8	14.7	77.5	57.9	13.6	89.2	60.2	10.1	75.8	57.1	13.9	101.0	59.0	13.4	97.8	60.2	11.3	AgriPro Coker
TW110-062	WHITE	93.2	55.8	14.5	76.5	55.5	14.7	88.5	59.3	12.0	77.9	57.5	14.8	105.2	55.4	15.3	99.7	60.1	12.3	AgriPro Coker
Tribute	RED	96.8	59.6	16.3	81.7	61.3	14.3	89.9	63.3	12.1	77.2	60.6	15.5	113.3	60.6	15.3	98.3	62.9	12.5	Crop Production Services
V9412	RED	86.3	58.0	14.4	77.2	59.1	13.3	83.6	61.1	10.2	75.1	58.2	14.0	101.3	59.8	13.9	96.7	61.4	11.2	Crop Production Services
DF101R	RED	90.5	58.4	14.5	81.8	58.9	13.5	85.2	61.1	10.8	76.1	58.8	14.2	105.0	60.6	14.3	99.5	61.7	11.3	DF Seeds, Inc.
DF104R	RED	81.9	57.4	14.6	84.6	56.8	15.3	82.4	57.2	13.6	73.5	57.8	14.9	99.8	57.0	16.4	99.2	59.4	11.0	DF Seeds, Inc.
Caledonia	WHITE	83.4	56.4	14.5	70.7	56.5	13.3	75.0	58.0	10.1	75.5	57.2	13.8	96.1	57.2	15.0	97.7	59.2	10.9	Harrington Seeds, Inc.
HS 260 R	RED	89.5	57.6	14.4	80.3	58.3	13.8	86.8	60.8	10.1	75.4	57.7	14.4	102.2	59.1	13.8	100.5	60.1	11.5	Harrington Seeds, Inc.
Ashley	WHITE	83.5	55.7	14.1	73.6	55.8	16.3	81.4	58.0	14.7	72.2	56.6	14.6	99.1	55.5	16.0	85.7	58.0	11.4	Hyland Seeds
Emmit	RED	91.0	58.1	15.2	79.1	57.7	14.0	86.3	60.6	11.2	78.3	58.3	14.6	103.9	59.4	14.5	103.9	60.1	12.5	Hyland Seeds
FT Wonder	RED	81.4	57.2	14.9	76.4	59.3	13.7	78.3	60.8	10.4	72.2	58.4	14.8	98.1	59.9	14.6	91.6	60.8	11.8	Hyland Seeds
TW122-001	WHITE	84.8	56.6	15.4	76.8	56.9	15.7	87.9	59.1	14.3	71.9	56.0	15.9	100.8	55.8	17.7	104.5	60.7	12.7	Hyland Seeds
AC Mountain	WHITE	84.5	55.6	14.0	70.1	55.7	13.5	84.8	58.3	10.6	76.1	57.3	13.4	99.1	57.3	13.6	98.6	59.4	11.4	Michigan Crop Improvement
Acorn	WHITE	80.0	56.6	13.9	74.3	56.4	13.6	78.1	58.3	9.9	76.8	57.1	13.5	105.7	56.1	16.7	96.9	59.3	11.3	Michigan Crop Improvement
AG 2579	RED	87.6	56.1	14.5	77.6	56.9	13.0	85.5	59.2	10.2	77.8	56.7	13.7	96.1	58.0	13.4	101.3	60.4	11.3	Michigan Crop Improvement
AG 2581	RED	88.8	57.9	15.1	82.3	59.8	13.8	88.0	60.9	11.5	78.4	58.4	14.7	101.7	60.1	14.3	98.5	61.9	12.2	Michigan Crop Improvement
Arena	RED	90.7	57.0	15.0	76.5	56.3	13.7	90.6	58.2	9.7	80.6	57.8	14.4	101.8	59.4	14.4	107.7	60.6	12.1	Michigan Crop Improvement
Bravo	RED	81.0	57.6	14.5	71.9	58.2	13.9	81.9	60.9	10.6	74.4	58.0	14.5	88.8	58.2	13.5	97.5	61.3	11.7	Michigan Crop Improvement
Cedar	RED	75.2	55.1	15.0	68.9	55.5	13.6	60.8	53.2	9.4	73.7	56.4	14.6	96.9	56.5	15.9	90.7	56.4	11.3	Michigan Crop Improvement
Crystal	WHITE	94.8	55.7	13.5	82.5	58.3	13.1	85.9	58.8	9.2	76.6	57.4	13.6	109.7	58.3	12.5	110.0	59.5	10.8	Michigan Crop Improvement
Gypsy	RED	90.8	59.0	15.1	80.9	60.2	14.7	84.8	60.6	10.9	75.4	57.8	14.2	107.1	60.0	15.8	103.9	62.1	12.1	Michigan Crop Improvement
Hopewell	RED	90.1	57.1	14.5	85.3	58.6	13.7	86.6	60.5	10.6	79.0	57.7	13.7	108.0	59.5	14.2	106.2	60.0	11.5	Michigan Crop Improvement
Huntley	RED	87.6	57.7	14.5	85.2	61.0	13.8	87.3	62.1	10.8	75.8	58.8	14.3	98.0	60.3	14.0	103.4	61.9	11.6	Michigan Crop Improvement
Jewel	WHITE	90.4	57.1	14.6	82.5	57.5	13.7	91.0	60.9	10.7	81.9	58.8	14.0	99.5	59.1	14.8	102.4	60.9	11.4	Michigan Crop Improvement
MCIA CRL	WHITE	89.6	56.1	14.3	81.0	59.2	13.7	82.6	59.4	10.0	77.0	57.6	13.9	104.7	59.9	14.8	102.1	60.5	11.8	Michigan Crop Improvement
MCIA OASIS	RED	92.5	56.7	14.8	80.4	56.0	13.7	93.7	57.5	9.7	80.9	56.0	13.4	109.9	58.2	14.6	107.5	59.4	11.3	Michigan Crop Improvement
MSU D6234	WHITE	85.7	57.7	14.4	78.5	58.6	14.0	81.6	60.8	10.9	77.0	58.7	14.1	98.8	59.3	15.0	99.8	61.4	11.6	Michigan Crop Improvement
MSU D8006W	WHITE	91.8	55.2	14.1	90.3	57.8	13.4	89.7	59.6	9.6	79.2	57.7	13.4	110.1	58.2	12.7	106.2	59.8	11.1	Michigan Crop Improvement
NY88046-8138	WHITE	82.2	58.2	14.5	76.8	58.1	14.1	74.4	58.9	10.9	72.5	57.9	14.0	96.9	58.9	15.4	93.4	59.8	11.5	Michigan Crop Improvement
Pearl	WHITE	83.3	56.9	14.8	80.5	58.7	14.1	81.5	59.9	11.9	70.1	57.6	14.1	99.6	59.3	14.6	102.1	59.7	11.4	Michigan Crop Improvement
Red Ruby	RED	89.8	57.9	14.9	85.4	59.1	13.7	90.5	60.4	10.7	81.8	59.0	14.3	103.8	59.6	15.2	104.9	60.8	11.5	Michigan Crop Improvement
Roane	RED	81.6	58.1	15.0	72.1	59.7	13.7	85.9	62.1	11.8	74.9	59.2	14.9	94.4	60.7	14.9	97.5	62.3	12.4	Michigan Crop Improvement
Trevor	RED	92.0	55.3	14.3	83.0	57.0	13.5	86.6	58.0	9.6	82.2	55.9	14.0	107.2	56.5	13.0	105.4	59.2	11.3	Michigan Crop Improvement
Truman	RED	82.6	57.3	15.0	80.3	58.4	13.9	78.1	59.3	12.3	70.6	57.7	15.0	90.9	59.2	14.6	98.8	61.2	11.7	Michigan Crop Improvement

## 2007 Michigan State University Wheat Performance Trials

Multi-year data are the most informative

Table 5 : Single Site: Yield, Test Weight and Moisture Performance Summary (Note: Tables sorted alphabetically by organization)

MSU makes no endorsement of any variety or brand.

Name	Grain Color	2007 COUNTY LOCATIONS																		Organization
		HURON			INGHAM			LENAWEE			MIDLAND			SANILAC			TUSCOLA			
		Yield bu/acre	Test Weight	Moist.	Yield bu/acre	Test Weight	Moist.	Yield bu/acre	Test Weight	Moist.	Yield bu/acre	Test Weight	Moist.	Yield bu/acre	Test Weight	Moist.	Yield bu/acre	Test Weight	Moist.	
Augusta	WHITE	75.5	55.8	14.6	72.9	55.8	15.6	82.6	58.4	10.9	74.2	56.1	14.5	96.7	55.5	16.9	95.3	58.2	12.0	Michigan State University
Bavaria	WHITE	82.2	57.6	14.6	71.9	56.8	14.2	81.3	59.9	10.4	68.1	56.8	14.4	96.9	58.3	15.3	97.0	60.5	11.7	Michigan State University
Frankenmuth	WHITE	72.0	58.3	14.6	66.4	57.8	14.4	73.0	59.5	11.3	69.1	58.2	14.3	90.4	57.7	16.5	88.3	60.7	12.0	Michigan State University
Lowell	WHITE	79.8	54.7	13.5	72.5	55.7	13.1	85.3	57.8	9.3	73.6	55.4	12.8	92.1	56.8	12.5	100.0	58.1	10.8	Michigan State University
MSU Line D8006R	RED	94.7	56.4	14.4	80.4	56.8	14.1	86.0	59.4	10.9	78.8	57.8	13.9	107.6	59.1	14.4	101.8	60.4	11.9	Michigan State University
MSU Line E0028	WHITE	95.5	56.2	14.0	80.5	56.3	12.9	90.7	58.2	9.7	82.4	56.6	13.8	106.6	57.7	12.9	108.0	59.0	10.8	Michigan State University
MSU Line E1008	WHITE	90.1	57.7	15.2	71.4	58.3	14.2	84.2	60.9	11.8	77.2	58.7	14.9	98.0	58.9	16.6	96.2	61.2	12.2	Michigan State University
MSU Line E1009	WHITE	91.1	57.1	14.1	75.1	59.3	13.5	85.7	61.9	11.3	78.2	58.9	14.3	105.6	60.2	14.2	101.6	61.6	11.7	Michigan State University
MSU Line E2017	WHITE	92.9	57.3	14.9	81.6	57.9	13.9	86.6	59.3	10.8	79.4	58.7	14.6	98.5	59.0	16.1	100.3	60.6	12.2	Michigan State University
MSU Line E2041	WHITE	88.2	58.1	14.4	79.6	59.6	13.6	90.4	62.3	10.6	77.3	59.7	14.0	96.8	60.4	14.0	101.0	62.0	11.6	Michigan State University
MSU Line E2043	WHITE	87.4	57.3	14.6	75.9	54.9	17.8	87.3	56.4	16.6	71.9	57.6	15.2	104.0	56.3	16.9	100.0	60.6	13.5	Michigan State University
MSU Line E3003	WHITE	88.1	56.9	15.7	72.4	54.8	16.0	82.9	57.5	14.3	75.3	56.5	15.7	107.4	53.6	19.9	98.8	59.8	14.0	Michigan State University
MSU Line E3004	WHITE	83.4	58.6	15.6	64.7	55.7	15.4	82.1	60.2	13.2	77.4	59.0	15.4	99.4	56.6	19.3	90.7	60.8	13.3	Michigan State University
MSU Line E3012	WHITE	85.6	56.9	14.4	69.6	51.6	17.9	87.9	56.2	14.0	78.2	56.2	15.3	100.7	53.8	17.7	96.0	58.5	12.6	Michigan State University
MSU Line E3023	WHITE	87.8	55.7	14.7	77.1	54.0	14.9	82.5	56.8	10.2	72.4	55.6	14.5	104.2	54.5	17.0	98.0	57.8	11.2	Michigan State University
Pioneer Brand 25R37	RED	84.7	58.2	15.1	75.3	57.8	14.3	85.0	60.2	11.9	75.2	57.8	14.3	96.0	57.8	15.1	100.7	60.7	11.9	Pioneer Hi-Bred Limited
Pioneer Brand 25R47	RED	95.9	55.3	14.6	84.8	57.3	13.8	96.7	59.2	12.1	82.8	56.7	14.7	100.0	57.4	14.2	110.3	59.5	12.0	Pioneer Hi-Bred Limited
Pioneer Brand 25R51	RED	89.4	55.8	14.9	77.1	56.9	14.1	96.8	60.9	10.8	79.3	57.8	14.6	95.6	58.0	14.0	102.8	60.0	11.8	Pioneer Hi-Bred Limited
Pioneer Brand 25R56	RED	84.2	55.4	13.9	83.1	56.4	13.8	95.7	59.2	9.5	74.9	56.4	13.6	97.4	57.4	12.6	109.5	59.6	10.8	Pioneer Hi-Bred Limited
Pioneer Brand 25R63	RED	87.9	56.8	14.3	77.4	58.3	13.9	92.0	61.6	11.1	77.1	58.8	14.3	90.8	59.2	13.9	100.5	60.6	11.6	Pioneer Hi-Bred Limited
Pioneer Brand 25W41	WHITE	88.6	57.6	15.2	76.9	58.6	13.5	91.3	60.7	10.1	75.6	58.5	14.6	95.4	59.5	14.5	102.1	60.3	11.4	Pioneer Hi-Bred Limited
Aubrey	WHITE	83.8	57.0	14.9	82.8	60.2	13.7	82.1	59.5	10.2	75.8	58.3	14.3	100.1	60.0	14.0	102.6	61.8	12.1	Platinum Genetics
Genesis R045	RED	94.0	56.4	14.6	86.3	57.7	13.8	93.2	59.4	11.0	82.0	57.1	14.2	105.6	58.9	14.3	103.2	61.4	11.5	Platinum Genetics
Genesis R055	RED	89.6	57.2	14.8	85.1	57.3	13.8	86.1	60.9	10.2	79.3	57.1	14.4	106.3	58.2	13.9	99.8	60.0	11.5	Platinum Genetics
RS 908	RED	87.9	55.7	14.3	87.9	56.1	13.0	84.9	60.2	10.4	75.6	56.7	13.7	100.2	58.1	13.0	108.1	60.3	11.2	Rupp Seeds, Inc.
RS 942	RED	81.4	56.0	14.0	80.2	57.7	13.2	82.8	59.6	10.2	70.8	56.5	13.9	103.7	58.3	13.7	100.9	59.8	10.9	Rupp Seeds, Inc.
RS 953	RED	87.3	58.2	14.4	82.2	59.8	13.7	83.8	61.4	10.4	70.8	58.5	13.9	106.0	61.0	14.6	97.9	62.1	11.8	Rupp Seeds, Inc.
McCormick	RED	74.5	56.9	14.6	70.4	59.1	13.9	61.1	57.9	9.3	68.6	58.4	14.4	96.3	60.5	14.2	85.7	60.6	11.6	VPI & SU / VCI
VA03W-235	RED	92.3	57.3	15.0	76.5	56.9	13.6	91.1	58.2	10.4	81.8	58.6	14.5	99.7	59.0	14.9	102.3	61.0	12.2	VPI & SU / VCI
<b>Site Mean (2007=67 Entries)</b>		<b>86.8</b>	<b>56.9</b>	<b>14.6</b>	<b>77.8</b>	<b>57.5</b>	<b>14.1</b>	<b>84.8</b>	<b>59.5</b>	<b>11.0</b>	<b>76.0</b>	<b>57.6</b>	<b>14.3</b>	<b>100.7</b>	<b>58.3</b>	<b>14.8</b>	<b>99.9</b>	<b>60.3</b>	<b>11.7</b>	
<b>LSD (0.05)</b>		<b>4.4</b>	<b>0.7</b>	<b>0.4</b>	<b>6.7</b>	<b>1.7</b>	<b>0.7</b>	<b>5.5</b>	<b>1.4</b>	<b>0.9</b>	<b>5.9</b>	<b>1.1</b>	<b>0.5</b>	<b>4.5</b>	<b>1.1</b>	<b>0.7</b>	<b>5.7</b>	<b>0.8</b>	<b>0.6</b>	
<b>CV (%)</b>		<b>3.3</b>	<b>0.8</b>	<b>1.5</b>	<b>5.8</b>	<b>2.1</b>	<b>3.5</b>	<b>4.3</b>	<b>1.6</b>	<b>5.4</b>	<b>5.1</b>	<b>1.2</b>	<b>2.2</b>	<b>3.2</b>	<b>1.3</b>	<b>3.3</b>	<b>3.7</b>	<b>0.9</b>	<b>3.4</b>	

## 2007 Michigan State University Wheat Performance Trials

Appendix A. Trial Site Descriptions for 2007 MSU Wheat Performance Trials.

	HURON COUNTY	INGHAM COUNTY		LENAWEE COUNTY	MIDLAND COUNTY	SANILAC COUNTY	TUSCOLA COUNTY
		YIELD TRIAL	SCAB NURSERY				
COOPERATOR	DARWIN SNELLER	TIM DIETZ	MICHIGAN STATE UNIVERSITY	WOODS SEED FARM	FRED SILER	STOUGHTENBURG FARMS	STUART BIERLEIN
NEAREST CITY	SEBEWAING	WILLIAMSTON	EAST LANSING	DEERFIELD	LAPORTE	SANDUSKY	RICHVILLE
PLANTING DATE	OCT. 9, 2006	OCT. 10, 2006	OCT. 30, 2006	OCT. 16, 2006	OCT. 10, 2006	OCT. 8, 2006	SEPT. 28, 2006
HARVEST DATE	July 15, 2007	July 10, 2007	N / A	July 8, 2007	July 11, 2007	July 13, 2007	July 9, 2007
PRE-PLANT FERTILIZER	200# 7-17-37	200# 6-24-24	150# 6-24-24	300# 9-23-30	250# 6-15-36	190# 8-15-30 +3.7% S	300# 6-11-35 +0.5MN + 0.3Z + 0.3Cu
COMMENTS		Moderate Barley Yellow Dwarf Virus Symptoms	Inoculated / Misted Scab Screening Nursery	Moderate to Heavy Leaf Rust and Stripe Rust. Plot was No-tilled		Moderate to Heavy Powdery Mildew	Light to Moderate Leaf Rust and Powdery Mildew
AVERAGE YIELD (BUSHEL / ACRE)	86.8	77.8	N / A	84.8	76.0	100.7	99.9
AVERAGE TEST WEIGHT (LBS. / BUSHEL)	56.9	57.5	N / A	59.5	57.6	58.3	60.3
AVERAGE PERCENT GRAIN MOISTURE	14.6	14.1	N / A	11.0	14.3	14.8	11.7
DATA RECORDED (NUMBER OF REPS)		FD (4); BYDV (4); SPROUT (3)	FHBI% (2); FHBS% (2); FHBX (2)	SRUST (3); LRUST (3); PL_HT (4)	FD (4)	PM (3)	PM (3); LRUST (3); PL_HT (4); SPROUT (3)

\*OTHER DATA: **FD** – Flowering Date (Days Past Jan. 01), **BYDV** - Barley Yellow Dwarf Virus Score (0-9), **PL\_HT** - Plant Height in Inches, **SPROUT** - In-Head Pre-Harvest Sprouting Score (0-9), **LRUST** - Leaf Rust Score (0-9), **SRUST** - Stripe Rust Score (0-9), **PM** - Powdery Mildew Score (0-9), **WSSV** - Wheat Spindle Streak Mosaic Score (0-9), **FHBI** - Fusarium Head Blight Incidence Percent (0-100%), **FHBS** - Fusarium Head Blight Severity Percent (0-100%), **FHBX** - Fusarium Head Blight Severity Index

\*\* SCORING INFORMATION: Score of 0 = Best Rating - Score of 9 = Poor Rating

**ORGANIZATIONS ENTERING VARIETIES IN THE  
2007 MICHIGAN WHEAT PERFORMANCE TRIALS**

AgriPro COKER  
P.O. Box 411, 520 E. 1050 South  
Brookston, IN 47923  
Phone: 765-563-3111

Michigan Crop Improvement  
Association  
P.O. Box 21008  
Lansing, MI 48909  
Phone: 517-332-3546

D.F. Seeds, Inc.  
P.O. Box 159, 905 S. Jackson  
Dansville, MI 48819  
Phone: 517-623-6161

Pioneer – Hi-Bred Limited  
7398 Queen's Line  
Chatham, ON N7M 5L1  
Phone: 519-352-6350

Platinum Genetics LLC  
3490 Belle Chase Way  
Suite 210  
Lansing, MI 48911  
Phone: 517-887-1620

Crop Production Services  
443 Allenby Drive  
Marysville, OH 43040  
Phone: 937- 644-9467

Harrington Seeds, Inc.  
2586 Bradleyville Road  
Reese, MI 48757  
Phone: 989-868-4750

Rupp Seeds, Inc.  
17919 Co Rd. B  
Wauseon, OH 43567  
Phone: 419-337-1841

Hyland Seeds  
2 Hyland Drive  
Blenheim, Ontario  
NOPIA0 CANADA  
Phone: 519-676-7056

Virginia Polytechnic Institute and State  
University / Virginia Crop  
Improvement Association / Eastern  
Virginia Agricultural Research &  
Extension Center  
2229 Menokin Road  
Warsaw, VA 22572  
Phone: 804-333-3485