

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.

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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 $\frac{1}{2}$ 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.

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)

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| 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 | ----- | ----- | ----- | ----- | ----- | ----- |
| Trial Mean (2007=67 Entries) | | | | 87.7 | 90.3 | 87.5 | 84.1 | 58.4 | 58.2 | 58.5 | 58.1 | 13.4 | 14.3 | 14.1 | 14.4 | 4.3 | 3.5 | 4.1 |
| LSD (0.05) | | | | 4.1 | 5.1 | 5.4 | 5.7 | 0.9 | 1.0 | 1.0 | 1.1 | 0.8 | 0.9 | 0.6 | 0.5 | 1.6 | 1.8 | 1.9 |
| CV (%) | | | | 4.1 | 2.8 | 3.8 | 4.8 | 1.4 | 0.9 | 1.0 | 1.4 | 5.1 | 3.1 | 2.6 | 2.6 | 26.6 | 25.5 | 28.6 |

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Multi-year data are the most informative

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 | | | 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 |
| 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 | ----- | ----- | ----- |
| Trial Mean (2007=67 Entries) | | 152.0 | 150.7 | 152.2 | 2.9 | 3.4 | 3.1 | 0.9 | 34.0 | 37.2 | 35.8 | 3.1 | 2.6 | 2.6 | 2.1 | 2.2 | 3.2 | 3.7 |
| LSD (0.05) | | 0.8 | 1.2 | 0.8 | 1.7 | 1.9 | 1.4 | 1.5 | 1.7 | 1.8 | 1.3 | 1.8 | 1.3 | 1.2 | 1.7 | 1.1 | 1.1 | 1.0 |
| CV (%) | | 1.1 | 1.2 | 1.0 | 29.2 | 28.6 | 28.2 | 103.0 | 2.5 | 2.4 | 2.2 | 28.1 | 24.6 | 26.8 | 56.2 | 23.5 | 17.9 | 16.1 |

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 | | Multi-Year Averages | | | Multi-Year Averages | | | 2006 | 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 | HARVEST |
| 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 |
| | | | 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 |
| 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 | ----- | ----- | ----- | ----- | ----- |
| Trial Mean (2007=67 Entries) | | 3.3 | 6.2 | 5.9 | 5.9 | 54.7 | 49.2 | 55.2 | 43.6 | 42.1 | 42.3 | 25.3 | 21.9 | 24.2 | 3.1 | 3.3 | 4.6 |
| LSD (0.05) | | 2.0 | 1.8 | 2.0 | 1.7 | 21.8 | 16.3 | 17.0 | 21.0 | 15.9 | 13.7 | 19.9 | 12.7 | 12.0 | 2.0 | 2.8 | 2.4 |
| CV (%) | | 32.1 | 14.5 | 16.5 | 17.8 | 20.5 | 16.4 | 18.9 | 24.2 | 18.7 | 19.8 | 39.6 | 28.6 | 30.4 | 32.1 | 40.7 | 31.3 |

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 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 |
| 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 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| Trial Mean (2007=67 Entries) | | 70.4 | 71.4 | 71.2 | 7.2 | 8.0 | 7.6 | 104.9 | 102.4 | 103.9 | 61.0 | 58.6 | 58.6 | 60.4 | 62.4 | 62.4 | 10.4 | 12.6 |
| LSD (0.05) | | ----- | 0.9 | 0.9 | ----- | 0.7 | 0.5 | ----- | 7.9 | 4.9 | ----- | 3.2 | 2.6 | ----- | 1.1 | 0.8 | 9.2 | 6.0 |
| CV (%) | | ----- | 0.6 | 0.7 | ----- | 4.0 | 4.0 | ----- | 3.8 | 2.8 | ----- | 2.7 | 2.7 | ----- | 0.9 | 0.8 | 54.8 | 23.3 |

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 |
| Site Mean (2007=67 Entries) | | 86.8 | 56.9 | 14.6 | 77.8 | 57.5 | 14.1 | 84.8 | 59.5 | 11.0 | 76.0 | 57.6 | 14.3 | 100.7 | 58.3 | 14.8 | 99.9 | 60.3 | 11.7 | |
| LSD (0.05) | | 4.4 | 0.7 | 0.4 | 6.7 | 1.7 | 0.7 | 5.5 | 1.4 | 0.9 | 5.9 | 1.1 | 0.5 | 4.5 | 1.1 | 0.7 | 5.7 | 0.8 | 0.6 | |
| CV (%) | | 3.3 | 0.8 | 1.5 | 5.8 | 2.1 | 3.5 | 4.3 | 1.6 | 5.4 | 5.1 | 1.2 | 2.2 | 3.2 | 1.3 | 3.3 | 3.7 | 0.9 | 3.4 | |

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 (BUSHELS / 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