# Michigan State Wheat Variety Trial: 2005 <br> Rick Ward and Lee Siler <br> Michigan State University <br> August 4, 2005 

## Comments on the 2005 Wheat Crop

The 2004/2005 winter wheat stands were reduced slightly by 'winter kill' apparently caused by a combination of low temperatures at crown depth, and heaving. Lack of snow cover during low temperature events, and alternating episodes of thawing and freezing contributed to these conditions. Severe stand losses like those witnessed in the 95/96 crop were avoided through the generally universal use of superior planting practices. Specifically, high plant populations, timely sowing, and uniformity of placement all contributed to mitigating the winter kill threat. Varieties differ substantially in their sensitivity to adverse winter conditions (see Table 2), but again, good planting practices minimize risks.

Disease pressure was generally light to moderate, though leaf blotches caused pre-mature loss of foliage in some areas. Most of the state escaped Fusarium Head Blight (and consequently deoxynivalenol or DON). Extensive rain starting immediately after flowering caused concern in the Thumb area, but disease threat prediction software correctly determined that those rains came too late to generate the inoculum needed for infection. When considering the entire wheat production area, flowering was unusually synchronized, with sites in the upper Thumb flowering soon after sites in the southern tier of counties. Harvest was likewise compressed into a briefer period state-wide than is normal. Temperatures during grain fill were higher than is considered optimal for wheat, but yields and test weight were more than reasonable.

## Multi-Year Performance Summary (Tables 1 and 2)

Tables 1 and 2 summarize performance of 86 varieties and experimental lines from 16 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 has data for a single entry. The columns contain averages for a given trait and time period. Data for several entries in this trial are not presented here. However, the averages and statistical parameters in this report are based on the entire set of evaluated materials. Comparisons among entries are only valid within a column. Tables 1 and 2 are sorted first by entry grain color, and then in descending order on yield for 2005 . In some instances (e.g. yield), data columns to the right of the 2005 data columns are multi-year averages. Only data for entries included in the relevant years' tests are found here. Not all entries have been tested in all years so the table has several blank cells. See the section titled 'Experimental' for details on how the trials were conducted and more detail on what the data in each column's data represent.

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, you 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 3)

The first six columns in table 3 each contain yield and test weight data from one of the six sites harvested for yield this year. The last column contains the same across-site yield average found in Table 1. Each row in the table represents a single entry in the test.

## Choosing Varieties

MSU makes no endorsement of any wheat variety or brand. 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. This general concept applies to pre-harvest sprouting as well.

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.

## Experimental

The 2005 State Wheat Variety Trial entries were planted at eight sites in 6 counties: Huron, Lenawee, Saginaw, Sanilac, Midland, and Ingham, Two of the Ingham sites were used for disease screening or other observations but not yield. 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 ( 10 blocks of 9 plots each) at all sites except the Ingham observation and 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 $7.5^{\prime \prime}$ rows. Fall fertilizer application varied with cooperator practice. Spring nitrogen was applied as urea ( $90 \mathrm{lbs} /$ 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.

Yield, test weight, and grain moisture data were acquired electronically on the plot combine at the time of harvest. Yield data are standardized to $13 \%$ moisture. Data reported as scores are based on a $0-9$ scale, where 0 is the best possible score. Plant height is reported as the distance in inches from the ground to the tip of average heads in a plot. These data were obtained at the Ingham and Midland county sites. Flowering date data was obtained at the Midland and Ingham observation sites. The flowering date indicates the average number of days past January 1st that a given entry reached the point where $1 / 2$ of its heads were flowering. Leaf blotch complex disease scores were taken at the Huron, Lenawee, and Sanilac County
plots. 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. Sprouting data is based on greenhouse evaluation of 5 heads from two replications from the Ingham observation site and three replications at the Saginaw and Midland county sites. Heads were collected within 48 hours of harvest and dried for seven days. Scores were taken after the heads were subjected to near-continuous misting for four days, where zero indicates that there was no sprouting present. Lodging scores are $0=$ all plants fully erect and were recorded from the Sanilac county site. Leaf rust and powdery mildew scores are recorded as $0=$ no visual symptoms of disease. Leaf rust was recorded from Lenawee and Midland counties. Powdery mildew was reported from Ingham and Lenawee Counties. Winter kill scores were based on the following scoring system: $0=$ minimal to no leaf damage; $1=$ no dead plants but significant lower leaf damage; $2=$ some dead plants visible; $3=$ several dead plants visible; 4-9 $=$ visible degree of scoring based upon the amount of dead plants.

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 percentage 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. 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 2004 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.

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 Rick Ward (517-2859725). This information, along with results from previous years, can also be accessed through the Web at http://www.css.msu.edu/varietytrials/wheat/Variety_Results.html.

## 2005 Michigan State University Wheat Variety Trials



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| Name | Grain Color | Awns | Yield: Bushels/Acre (adj. to 13\% moisture) |  |  |  | Test Weight: Ibs/Bushel |  |  |  | \% Grain Moisture <br> @ Harvest |  | Plant Height (Inches) |  | Flowering Date Days Past Jan 1 |  | Lodging <br> Score <br> (0-9) <br> 2005 <br> 4.4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 2005 | Multi-Year Averages |  |  | 2005 | Multi-Year Averages |  |  |  |  |  |  |  |  |  |
|  |  |  |  | $\begin{aligned} & \hline 2 \mathrm{YR} \\ & 04-05 \end{aligned}$ | $\begin{aligned} & \hline 3 \mathrm{YR} \\ & 03-05 \\ & \hline \end{aligned}$ | $\begin{gathered} \hline 4 \text { YR } \\ 02-05 \end{gathered}$ |  | $\begin{gathered} \hline 2 \mathrm{YR} \\ 04-05 \\ \hline \end{gathered}$ | $\begin{gathered} \hline 3 \mathrm{YR} \\ 03-05 \\ \hline \end{gathered}$ | $\begin{gathered} \hline 4 \mathrm{YR} \\ 02-05 \\ \hline \end{gathered}$ | 2005 | $\begin{gathered} \hline 2 \mathrm{YR} \\ 04-05 \\ \hline \end{gathered}$ | 2005 | $\begin{gathered} 2 \mathrm{YR} \\ 04-05 \\ \hline \end{gathered}$ | 2005 | $\begin{gathered} \hline 2 \mathrm{YR} \\ 04-05 \\ \hline \end{gathered}$ |  |
| Roane | Red | No | 77.0 | 72.7 | 77.7 | 79.2 | 60.3 | 59.7 | 60.3 | 60.7 | 14.3 | 15.6 | 30.1 | 30.2 | 155.0 | 153.1 | 4.4 |
| Daisy | Red | No | 76.7 | 73.3 | ----- | ----- | 57.1 | 55.8 | ----- | ----- | 12.8 | 13.9 | 32.0 | 31.9 | 154.0 | 152.7 | 2.2 |
| Excel 412tw | Red | No | 76.3 | ----- | ----- | ----- | 59.4 | ----- | ----- | ----- | 13.9 | ----- | 36.5 | ----- | 154.6 | ----- | 6.5 |
| Warwick | Red | No | 76.1 | 73.2 | ----- | ----- | 57.8 | 57.3 | ----- | ----- | 13.0 | 14.2 | 35.2 | 35.1 | 155.7 | 153.5 | 4.2 |
| FT Wonder | Red | Yes | 75.8 | 74.0 | ----- | ----- | 59.1 | 58.4 | ----- | ----- | 13.6 | 14.8 | 33.7 | 35.0 | 153.9 | 153.1 | 4.4 |
| Excel 354tw | Red | No | 75.2 | ----- | ----- | ----- | 60.5 | ----- | ----- | ----- | 14.3 | ----- | 31.9 | ----- | 154.5 | ---- | 4.0 |
| HS 243R | Red | No | 74.9 | 70.3 | 76.4 | ----- | 58.2 | 57.0 | 57.7 | ----- | 13.3 | 14.5 | 33.8 | 33.4 | 154.5 | 152.7 | 5.7 |
| Excel 388 | Red | No | 74.7 | ----- | ----- | ----- | 58.2 | ----- | ----- | ----- | 13.4 | ----- | 36.0 | ----- | 153.7 | ----- | 5.2 |
| Sisson | Red | No | 74.5 | 69.9 | 75.7 | 76.9 | 59.0 | 57.3 | 57.7 | 58.3 | 13.6 | 14.5 | 30.9 | 30.3 | 153.7 | 151.5 | 4.4 |
| Truman | Red | No | 74.3 | 75.7 | ----- | ----- | 59.5 | 59.9 | ----- | ----- | 14.1 | 15.8 | 33.2 | 34.3 | 156.4 | 156.1 | 3.2 |
| B980582 | Red | No | 74.3 | ----- | ----- | ----- | 60.4 | ----- | ----- | ----- | 14.0 | ----- | 33.2 | ----- | 154.0 | - | 2.7 |
| VA00W-526 | Red | No | 73.1 | ----- | ----- | ----- | 59.1 | ----- | ----- | ----- | 13.5 | -- | 29.4 | - | 155.8 | ----- | 2.3 |
| MSU Line E2043 | White | Yes | 83.6 | ----- | ----- | ----- | 59.6 | ----- | ----- | ----- | 13.6 | --- | 34.9 | ----- | 157.1 | ----- | 1.9 |
| Aubrey | White | No | 83.2 | 79.2 | 82.2 | ----- | 59.8 | 59.1 | 59.6 | ----- | 14.1 | 15.4 | 33.8 | 33.4 | 154.5 | 152.9 | 2.1 |
| MSU Line E0027 | White | Yes | 82.2 | 75.8 | ----- | ----- | 57.4 | 56.3 | ----- | ----- | 12.2 | 13.5 | 32.4 | 32.5 | 155.5 | 154.5 | 1.9 |
| MSU Line E0028 | White | No | 82.2 | 77.1 | ----- | ----- | 57.3 | 55.5 | ----- | ----- | 12.8 | 13.6 | 32.8 | 32.8 | 154.8 | 152.8 | 2.5 |
| MSU Line E2017 | White | No | 82.1 | ----- | ----- | ----- | 59.0 | -- | ----- | ----- | 14.0 | ----- | 33.7 | ----- | 155.7 | -- | 2.8 |
| MSU Line E1008 | White | Yes | 81.6 | 79.0 | ----- | ----- | 60.2 | 58.6 | ----- | ----- | 14.3 | 15.3 | 32.6 | 33.4 | 155.6 | 153.8 | 2.0 |
| Whitby | White | No | 81.3 | 79.1 | ----- | ----- | 58.4 | 57.5 | ----- | ----- | 13.2 | 14.8 | 36.7 | 38.2 | 155.5 | 155.9 | 2.6 |
| Pearl | White | No | 81.0 | 78.4 | 82.2 | 82.2 | 59.0 | 57.9 | 58.5 | 58.6 | 14.2 | 15.2 | 33.5 | 33.9 | 155.5 | 154.2 | 4.0 |
| Alpine | White | No | 80.8 | -- | ----- | ----- | 56.5 | ----- | ----- | ----- | 13.3 | ----- | 33.3 | ----- | 155.5 | ----- | 2.0 |
| MSU Line D8006 | White | Yes | 80.8 | 77.7 | 83.3 | 82.4 | 57.8 | 55.8 | 56.8 | 57.1 | 13.1 | 13.8 | 33.4 | 34.0 | 155.5 | 153.5 | 3.4 |
| MSU Line E1007W | White | Yes | 80.6 | 78.1 | ----- | ----- | 59.3 | 57.7 | ----- | ----- | 13.5 | 14.5 | 34.1 | 34.4 | 155.2 | 153.3 | 2.1 |
| MSU D6234 | White | No | 80.3 | 78.0 | 82.6 | 81.8 | 59.3 | 59.1 | 59.3 | 59.6 | 13.8 | 15.4 | 34.8 | 35.0 | 155.5 | 154.7 | 2.7 |
| MSU Line D9044 | White | No | 80.3 | 75.0 | 81.1 | ----- | 58.7 | 57.1 | 57.9 | ----- | 13.3 | 14.4 | 31.5 | 31.3 | 155.9 | 154.9 | 1.8 |
| Abacus | White | No | 80.2 | ----- | ----- | ----- | 57.5 | -- | ----- | --- | 13.5 | ----- | 33.9 | ----- | 155.5 | ----- | 1.8 |
| AC Mountain | White | No | 79.8 | 76.1 | 81.2 | 80.9 | 57.6 | 57.2 | 57.6 | 57.7 | 13.0 | 14.4 | 36.1 | 37.4 | 155.4 | 155.1 | 2.7 |
| Caledonia | White | No | 79.6 | 74.9 | 79.0 | 79.9 | 58.7 | 56.8 | 57.3 | 57.7 | 13.3 | 14.3 | 31.6 | 32.1 | 156.4 | 154.9 | 2.0 |
| MSU Line E0025 | White | Yes | 79.5 | 75.6 | ----- | ----- | 56.9 | 56.4 | ----- | ----- | 12.1 | 13.5 | 31.6 | 32.1 | 155.5 | 154.4 | 1.8 |
| Arrow | White | Yes | 79.2 | -- | ----- | ----- | 58.8 | --- | ----- | ----- | 14.0 | --- | 34.4 | --- | 155.0 | ----- | 2.6 |
| Pioneer Brand 25W41 | White | Yes | 79.1 | 74.5 | ----- | ----- | 60.0 | 58.4 | ----- | ----- | 13.6 | 14.6 | 31.7 | 32.1 | 155.2 | 154.0 | 3.4 |
| MSU Line E0009 | White | No | 78.2 | 74.6 | ----- | ----- | 59.0 | 58.3 | -- | ----- | 14.6 | 16.4 | 34.5 | 35.7 | 157.5 | 158.0 | 2.2 |
| MSU Line D9044R2 | White | No | 77.7 | 74.0 | ----- | ----- | 58.8 | 57.3 | ----- | ----- | 13.0 | 14.2 | 31.9 | 31.1 | 155.5 | 154.5 | 1.5 |
| MSU Line E0001 | White | No | 77.5 | 73.9 | ----- | ----- | 59.1 | 57.9 | ----- | ----- | 14.5 | 15.8 | 34.7 | 35.5 | 156.2 | 156.0 | 2.5 |
| Galaxy 501 | White | No | 76.0 | ----- | ----- | ----- | 58.8 | -- | ----- | ----- | 13.8 | ----- | 36.4 | ---- | 156.3 | ----- | 3.4 |
| MSU Line E0029 | White | No | 75.7 | 73.9 | ----- | ----- | 58.4 | 57.4 | ----- | ----- | 13.0 | 14.2 | 32.9 | 32.8 | 155.5 | 153.7 | 1.0 |
| Genesis 7388 | White | No | 75.6 | ----- | ----- | ----- | 60.3 | ----- | ----- | ----- | 14.0 | -- | 35.1 | --- | 156.1 | ----- | 2.5 |
| Aurora - SBE | White | No | 75.5 | ----- | ----- | ----- | 58.9 | ----- | ----- | ----- | 13.5 | ---- | 32.4 | -- | 154.5 | ----- | 5.3 |
| MSU Line E2052 | White | No | 73.5 | ----- | ----- | ----- | 59.6 | -- | ----- | --- | 14.3 | ----- | 32.1 | ----- | 157.7 | ---- | 1.5 |
| VA97W-375WS | White | No | 71.2 | 69.1 | 76.5 | 77.4 | 58.8 | 57.0 | 57.8 | 58.4 | 13.3 | 14.2 | 28.2 | 28.0 | 155.2 | 153.6 | 3.3 |
| HS X03W | White | No | 69.8 | 70.2 | ----- | ----- | 59.8 | 59.4 | ----- | ----- | 14.4 | 16.2 | 33.4 | 35.2 | 156.5 | 157.2 | 2.1 |
| Trial Mean (90 Entries) |  |  | 80.0 | 76.8 | 81.6 | 81.4 | 58.9 | 57.7 | 58.3 | 59.0 | 13.6 | 14.8 | 33.5 | 33.4 | 155.0 | 153.8 | 3.1 |
| LSD |  |  | 4.3 | 5.1 | 4.5 | 4.0 | 0.8 | 1.8 | 1.2 | 1.1 | 0.5 | 0.8 | 1.6 | 2.0 | 1.2 | 2.0 | 1.1 |
| CV |  |  | 4.7 | 3.3 | 3.3 | 3.5 | 1.3 | 1.5 | 1.3 | 1.3 | 3.0 | 2.6 | 2.4 | 3.0 | 1.1 | 0.7 | 23.3 |

LSD = least significant difference, i.e. differences smaller than the LSD are probably due to chance. CV = low values indicated higher precision.

## 2005 Michigan State University Wheat Variety Trials

Multi-year data are the most informative.
Table 2 : Multi-Year Performance Summary (Note: Tables sorted by 2005 Yield, red wheats grouped before white ) MSU makes no endorsement of any variety or brand.

| Name | Grain Color | Powdery Mildew Score (0-9) |  | Leaf Blotch Complex Score (0-9) |  | Pre-Harvest Sprout Score (0-9) |  | Leaf Rust Score (0-9) | Winter Kill (Injury) Score (0-9) | FHB (Scab) Data : Field Observation Symptoms |  |  |  |  |  | Milling and Baking Properties (2004 Crop) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Incidence(\% of spikes) |  |  |  | Severity(\% within spikes) |  | Index(\% overall infection) |  |  |  |  |
|  |  |  |  | Percent Flour Yield | Percent Protein In Flour |  |  | Lactic Acid Retention |  |  |  |  |  |  |
|  |  | 2005 | $\begin{aligned} & \hline 2 \mathrm{YR} \\ & 04-05 \end{aligned}$ |  |  | 2005 | $\begin{aligned} & \hline 2 \mathrm{YR} \\ & 04-05 \end{aligned}$ |  |  | 2005 | $\begin{aligned} & \hline \text { 2 YR } \\ & 04-05 \end{aligned}$ | 2005 | 2005 | 2005 | $\begin{aligned} & \hline 2 \text { YR } \\ & 04-05 \end{aligned}$ | 2005 | $\begin{aligned} & \hline 2 \text { YR } \\ & 04-05 \end{aligned}$ | 2005 | $\begin{aligned} & \hline 2 \mathrm{YR} \\ & 04-05 \end{aligned}$ |
| Pioneer Brand 25R47 | Red | 3.6 | 4.0 | 3.7 | 4.0 | 6.5 | 6.8 | 1.0 | 1.3 | 72.5 | 84.5 | 41.6 | 44.5 | 27.6 | 36.9 | 72.0 | 6.2 | 110.5 |
| AgriPro Douglas | Red | 4.3 | 4.0 | 4.2 | 3.8 | 3.8 | 4.3 | 2.0 | 1.4 | 66.0 | 77.5 | 46.9 | 37.1 | 31.5 | 28.2 | 70.9 | 6.4 | 92.3 |
| RS 947 | Red | 0.0 | 0.0 | 2.9 | 3.4 | 3.4 | 3.1 | 5.0 | 1.9 | 57.8 | 73.4 | 16.3 | 20.0 | 10.8 | 16.1 | 68.1 | 6.0 | 114.4 |
| Jentes | Red | 0.5 | ----- | 2.7 | ----- | 3.7 | ----- | 7.0 | 2.0 | 47.7 | ----- | 14.7 | ----- | 9.3 | ----- | ----- | ---- | --- |
| Cedar | Red | 0.7 | 0.6 | 2.8 | 3.9 | 3.1 | 3.0 | 7.0 | 2.0 | 58.5 | 78.6 | 26.7 | 29.7 | 16.0 | 24.2 | 68.4 | 6.3 | 113.7 |
| Hopewell | Red | 1.7 | 1.7 | 3.7 | 4.4 | 1.8 | 1.7 | 2.0 | 1.3 | 46.7 | 71.6 | 33.2 | 40.1 | 19.0 | 32.2 | 68.7 | 7.1 | 113.0 |
| Genesis R055 | Red | 3.4 | ----- | 3.8 | --- | 3.7 | -- | 1.5 | 1.8 | 70.4 | ----- | 38.5 | ----- | 28.3 | ----- | ----- | ----- | ----- |
| Vigoro V9512 | Red | 3.4 | ----- | 4.9 | -- | 8.3 | ----- | 2.0 | 1.2 | 75.6 | -- | 31.0 | -- | 24.2 | ----- | ----- | ----- | ----- |
| Genesis R036 | Red | 5.3 | 3.9 | 4.1 | 5.0 | 8.4 | 7.5 | 3.0 | 0.6 | 65.5 | 82.2 | 45.1 | 54.9 | 26.8 | 45.4 | 72.1 | 7.2 | 95.4 |
| Excel 392 | Red | 4.7 | ----- | 3.3 | ----- | 5.8 | ----- | 2.0 | 1.7 | 67.7 | ----- | 38.0 | ----- | 24.3 | ----- | ----- | ----- | ----- |
| Excel 352tw | Red | 3.1 | ----- | 4.9 | ----- | 8.8 | ----- | 1.5 | 1.2 | 71.9 | -- | 38.7 | -- | 28.0 | ----- | ----- | ----- | ----- |
| Excel 450 | Red | 0.3 | --- | 2.4 | -- | 3.7 | -- | 9.0 | 2.7 | 57.1 | ----- | 21.7 | ----- | 12.6 | -- | ----- | ----- | ----- |
| Coffman | Red | 4.0 | --- | 5.3 | -- | 1.5 | -- | 2.0 | 1.3 | 79.2 | -- | 54.5 | -- | 42.4 | ----- | ----- | ----- | ----- |
| TW044-094 | Red | 4.9 | 3.6 | 4.3 | 4.3 | 5.0 | 4.7 | 3.5 | 0.8 | 76.7 | 86.0 | 37.0 | 38.4 | 27.9 | 33.0 | 72.4 | 6.7 | 87.7 |
| DF 101R | Red | 1.3 | ----- | 4.0 | ----- | 1.9 | ----- | 2.0 | 1.0 | 80.7 | ----- | 38.1 | ---- | 31.3 | --- | ----- | --- | ----- |
| Genesis R047 | Red | 1.2 | 1.0 | 3.9 | 4.2 | 4.1 | 3.7 | 1.5 | 4.3 | 82.5 | 90.9 | 49.2 | 64.7 | 40.5 | 60.1 | 70.3 | 6.4 | 111.0 |
| MSU Line E1007R | Red | 2.4 | 1.9 | 4.7 | 5.0 | 4.1 | 3.9 | 3.5 | 1.1 | 60.7 | 80.4 | 40.4 | 49.9 | 24.4 | 41.9 | 70.5 | 6.8 | 117.7 |
| Bravo | Red | 6.8 | 4.4 | 3.5 | 4.3 | 4.5 | 3.0 | 3.5 | 1.1 | 56.9 | 77.8 | 40.8 | 51.2 | 24.4 | 42.6 | 70.7 | 7.6 | 91.3 |
| OH 708 | Red | 0.9 | 1.1 | 2.5 | 3.4 | 1.4 | 2.0 | 0.5 | 1.9 | 72.9 | 86.2 | 41.2 | 44.1 | 30.8 | 38.8 | 71.2 | 6.3 | 110.3 |
| Merrel | Red | 3.4 | ----- | 4.6 | ---- | 3.6 | ---- | 2.5 | 1.7 | 77.5 | ----- | 64.2 | ----- | 48.7 | ----- | ---- | ---- | ----- |
| Vigoro Tribute | Red | 0.4 | 0.6 | 2.9 | 3.1 | 3.9 | 2.9 | 1.5 | 1.6 | 73.2 | 86.6 | 35.4 | 51.7 | 26.3 | 47.2 | 69.1 | 6.7 | 119.9 |
| Vigoro V9412 | Red | 0.7 | ----- | 4.8 | ----- | 3.7 | ----- | 2.5 | 1.2 | 84.8 | ----- | 34.6 | ----- | 30.2 | ----- | ----- | ----- | ----- |
| DF 102R | Red | 1.6 | ----- | 4.9 | ----- | 3.9 | ----- | 1.0 | 2.5 | 80.5 | ---- | 38.3 | ----- | 30.3 | ----- | ----- | ----- | ----- |
| 9 XP 30 | Red | 0.5 | ----- | 4.5 | ----- | 3.4 | ----- | 2.0 | 1.0 | 76.6 | ----- | 44.9 | ----- | 35.1 | -- | ----- | ----- | ----- |
| AgriPro Cooper | Red | 4.6 | ----- | 5.1 | ----- | 7.2 | ----- | 2.5 | 1.1 | 60.5 | ----- | 30.0 | -- | 16.1 | ----- | ----- | ----- | ----- |
| Cecil | Red | 3.6 | 2.8 | 3.5 | 4.3 | 0.1 | 0.7 | 7.5 | 1.1 | 72.0 | 84.6 | 59.4 | 51.2 | 42.1 | 42.0 | 69.7 | 6.6 | 106.8 |
| HS X04R | Red | 2.8 | --- | 4.6 | ----- | 8.7 | ----- | 2.0 | 1.7 | 65.3 | -- | 52.5 | ----- | 35.8 | ----- | ----- | ----- | ----- |
| Wiley | Red | 2.1 | 1.8 | 3.7 | 3.9 | 2.6 | 2.9 | 2.0 | 2.5 | 73.3 | 85.9 | 44.8 | 47.1 | 34.2 | 41.5 | 69.2 | 7.7 | 114.0 |
| Kristy | Red | 2.4 | ----- | 5.0 | -- | 8.9 | ----- | 1.0 | 3.8 | 66.4 | ----- | 31.5 | ----- | 21.1 | ----- | ----- | ----- | ----- |
| MSU Line D8006R | Red | 0.5 | 1.1 | 5.4 | 6.0 | 4.3 | 5.0 | 1.5 | 2.0 | 63.9 | 79.2 | 31.5 | 39.0 | 20.7 | 32.4 | 71.5 | 7.0 | 105.3 |
| Excel 333 | Red | 3.7 | -- | 5.6 | ----- | 6.9 | - | 1.5 | 2.0 | 63.7 | ----- | 27.8 | ----- | 18.6 | ----- | ----- | ----- | ----- |
| HS X257R | Red | 0.9 | ----- | 3.7 | ----- | 1.6 | - | 3.5 | 1.8 | 81.7 | ----- | 31.9 | ----- | 24.8 | ----- | ----- | ----- | ----- |
| Pioneer Brand 25R37 | Red | 3.6 | 2.5 | 3.2 | 3.4 | 5.8 | 5.1 | 2.0 | 1.2 | 68.9 | 84.2 | 26.2 | 37.1 | 14.9 | 31.3 | 68.9 | 7.0 | 108.7 |
| RS 949 | Red | 5.2 | ----- | 6.2 | -- | 4.5 | ----- | 1.5 | 1.5 | 66.1 | ----- | 24.1 | ----- | 15.9 | ----- | ----- | ----- | ----- |
| Genesis R035 | Red | 4.0 | 2.5 | 4.2 | 4.9 | 6.6 | 6.1 | 2.0 | 1.1 | 62.9 | 80.1 | 37.0 | 40.6 | 27.2 | 35.2 | 70.4 | 7.2 | 102.6 |
| Besecker | Red | 5.6 | ----- | 3.0 | -- | 7.2 | -- | 2.0 | 2.1 | 30.4 | --- | 51.6 | -- | 11.7 | ----- | ----- | ----- | ----- |
| B980416 | Red | 2.6 | ----- | 4.0 | ----- | 8.0 | ----- | 2.0 | 3.1 | 56.6 | ----- | 27.6 | ----- | 13.4 | -- | ----- | ----- | ----- |
| MSU Line E2021 | Red | 1.4 | ----- | 6.5 | ----- | 7.9 | ----- | 2.0 | 1.4 | 69.7 | ----- | 33.7 | --- | 19.8 | ----- | ----- | ----- | ----- |
| Excel 399 | Red | 7.5 | ----- | 5.5 | ----- | 6.9 | ----- | 1.0 | 1.4 | 67.4 | ----- | 42.3 | ----- | 28.1 | ----- | ----- | ----- | ----- |
| Genesis R045 | Red | 2.1 | 1.6 | 5.4 | 5.2 | 8.6 | 7.1 | 1.0 | 0.8 | 79.2 | 84.8 | 45.3 | 41.5 | 36.7 | 35.4 | 73.6 | 7.0 | 105.7 |
| AgriPro COKER 9375 | Red | 2.0 | 1.7 | 4.6 | 5.2 | 6.4 | 5.3 | 1.0 | 4.5 | 70.8 | 85.4 | 49.6 | 60.7 | 34.4 | 53.1 | 71.2 | 7.2 | 103.7 |
| Pioneer Brand 25R35 | Red | 4.4 | 3.8 | 4.4 | 4.9 | 2.9 | 2.6 | 1.5 | 2.5 | 64.8 | 82.4 | 39.7 | 34.4 | 27.5 | 28.3 | 67.3 | 6.2 | 99.2 |
| Harvard | Red | 4.8 | ----- | 4.7 | ----- | 3.7 | ----- | 3.5 | 1.8 | 60.8 | ----- | 48.9 | ----- | 31.1 | ----- | ----- | ----- | ----- |
| AgriPro COKER 9663 | Red | 4.3 | 3.1 | 2.6 | 3.1 | 4.1 | 3.5 | 1.0 | 2.6 | 67.4 | 77.4 | 45.8 | 48.6 | 31.0 | 38.2 | 69.2 | 7.1 | 106.1 |
| McCormick | Red | 0.3 | 0.4 | 3.8 | 4.3 | 4.7 | 2.7 | 3.5 | 2.3 | 64.1 | 82.1 | 24.9 | 44.1 | 16.1 | 39.7 | 69.4 | 7.4 | 116.0 |

## 2005 Michigan State University Wheat Variety Trials

Multi-year data are the most informative.
Table 2 : Multi-Year Performance Summary (Note: Tables sorted by 2005 Yield, red wheats grouped before white ) MSU makes no endorsement of any variety or brand.

| Name | Grain Color | Powdery Mildew Score (0-9) |  | Leaf Blotch Complex Score (0-9) |  | Pre-Harvest Sprout Score (0-9) |  | LeafRustScore (0-9) | WinterKill (Injury)Score (0-9) | FHB (Scab) Data : Field Observation Symptoms |  |  |  |  |  | Milling and Baking Properties (2004 Crop) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Incidence(\% of spikes) |  |  |  | Severity <br> (\% within spikes) |  | Index(\% overall infection) |  |  |  |  |
|  |  |  |  | Percent Flour Yield | Percent Protein In Flour |  |  | Lactic Acid Retention |  |  |  |  |  |  |
|  |  | 2005 | $\begin{gathered} \hline 2 \text { YR } \\ 04-05 \end{gathered}$ |  |  | 2005 | $\begin{aligned} & \hline 2 \text { YR } \\ & 04-05 \end{aligned}$ |  |  | 2005 | $\begin{aligned} & 2 \text { YR } \\ & \hline 04-05 \end{aligned}$ | 2005 | 2005 | 2005 | $\begin{aligned} & \hline 2 \text { YR } \\ & 04-05 \end{aligned}$ | 2005 | $\begin{aligned} & 2 \mathrm{YR} \\ & 04-05 \end{aligned}$ | 2005 | $\begin{gathered} \hline 2 \text { YR } \\ 04-05 \\ \hline \end{gathered}$ |
| Roane | Red | 4.5 | 3.6 | 4.0 | 3.9 | 5.0 | 3.8 | 1.5 | 1.1 | 61.1 | 80.6 | 30.2 | 45.1 | 19.9 | 39.9 | 68.0 | 6.6 | 115.8 |
| Daisy | Red | 5.2 | 4.9 | 4.4 | 5.3 | 5.7 | 4.3 | 6.5 | 1.0 | 76.5 | 88.3 | 31.2 | 55.7 | 24.2 | 52.2 | 73.0 | 6.6 | 111.5 |
| Excel 412tw | Red | 6.8 | ----- | 6.4 | ----- | 7.8 | --- | 3.5 | 0.8 | 62.9 | ----- | 29.2 | ----- | 19.2 | ----- | ----- | ----- | ---- |
| Warwick | Red | 4.2 | 3.1 | 4.5 | 4.8 | 7.0 | 4.6 | 0.5 | 3.7 | 80.6 | 90.3 | 30.0 | 43.1 | 25.8 | 41.0 | 67.7 | 7.3 | 132.0 |
| FT Wonder | Red | 1.8 | 1.5 | 4.5 | 5.1 | 9.7 | 9.4 | 3.5 | 1.9 | ----- | ----- | ----- | ----- | ----- | ----- | 71.3 | 6.1 | 107.2 |
| Excel 354tw | Red | 6.8 | --- | 3.4 | --- | 3.8 | --- | 1.5 | 1.5 | 74.3 | ----- | 30.6 | ----- | 25.6 | ----- | -- | ----- | ---- |
| HS 243R | Red | 3.0 | 2.3 | 4.8 | 5.3 | 6.3 | 5.5 | 4.5 | 2.3 | 68.1 | 84.1 | 35.3 | 53.6 | 25.6 | 48.7 | 70.3 | 7.4 | 117.9 |
| Excel 388 | Red | 7.9 | -- | 5.7 | ----- | 7.5 | ----- | 2.0 | 1.0 | 78.8 | ----- | 43.0 | ----- | 35.4 | ----- | ---- | ----- | ----- |
| Sisson | Red | 0.8 | 0.9 | 4.8 | 4.9 | 4.9 | 5.1 | 3.0 | 1.7 | 88.7 | 94.4 | 33.5 | 53.9 | 31.1 | 52.7 | 70.6 | 7.0 | 96.6 |
| Truman | Red | 4.8 | 4.2 | 3.5 | 4.0 | 0.9 | 1.3 | 2.5 | 1.8 | 29.1 | 61.3 | 32.4 | 32.3 | 13.5 | 22.3 | 68.5 | 7.0 | 105.1 |
| B980582 | Red | 4.5 | - | 4.5 | ----- | 8.0 | ----- | 0.5 | 2.3 | 70.0 | -- | 19.4 | - | 14.4 | ----- | ----- | ----- | ----- |
| VA00W-526 | Red | 0.3 | -- | 4.3 | -- | 6.2 | -- | 1.5 | 6.4 | 59.3 | ----- | 12.9 | ----- | 8.8 | -- | ----- | ----- | ----- |
| MSU Line E2043 | White | 1.9 | ----- | 3.9 | ----- | 8.0 | --- | 2.0 | 1.7 | 64.1 | ----- | 28.4 | ----- | 17.2 | ----- | ----- | ----- | ----- |
| Aubrey | White | 0.9 | 1.0 | 4.2 | 4.6 | 8.3 | 8.5 | 1.5 | 1.7 | 64.4 | 76.7 | 29.2 | 25.4 | 17.3 | 18.3 | 73.3 | 7.3 | 106.9 |
| MSU Line E0027 | White | 1.8 | 1.8 | 4.7 | 5.4 | 8.9 | 9.0 | 2.0 | 0.6 | 83.8 | 87.2 | 58.0 | 52.8 | 47.6 | 46.0 | 71.8 | 6.8 | 111.3 |
| MSU Line E0028 | White | 2.8 | 2.7 | 4.3 | 5.2 | 9.1 | 9.1 | 2.5 | 0.8 | 57.7 | 78.6 | 37.8 | 53.5 | 23.5 | 46.2 | 72.7 | 6.9 | 106.6 |
| MSU Line E2017 | White | 4.6 | -- | 3.7 | --- | 9.1 | --- | 2.0 | 1.1 | 49.3 | ----- | 50.5 | ----- | 23.8 | --- | ----- | ----- | ---- |
| MSU Line E1008 | White | 1.2 | 1.3 | 3.2 | 4.2 | 6.7 | 7.5 | 3.5 | 1.3 | 57.0 | 77.8 | 52.9 | 59.0 | 32.2 | 48.3 | 69.8 | 7.0 | 88.9 |
| Whitby | White | 3.3 | 3.1 | 4.5 | 4.1 | 7.9 | 8.3 | 2.5 | 1.4 | 47.5 | 73.3 | 31.0 | 36.6 | 16.9 | 29.4 | 69.8 | 6.5 | 96.6 |
| Pearl | White | 0.7 | 0.9 | 4.8 | 4.6 | 9.0 | 8.9 | 1.0 | 3.9 | 59.9 | 79.2 | 29.1 | 42.8 | 16.2 | 35.9 | 69.8 | 6.5 | 114.1 |
| Alpine | White | 2.6 | --- | 3.7 | ---- | 6.7 | -- | 4.0 | 1.1 | 48.6 | ----- | 39.2 | ----- | 20.3 | ----- | ----- | ----- | ----- |
| MSU Line D8006 | White | 1.4 | 1.7 | 4.5 | 5.1 | 7.8 | 8.3 | 2.0 | 1.1 | 80.0 | 90.0 | 50.4 | 50.6 | 39.6 | 45.2 | 73.0 | 6.6 | 118.2 |
| MSU Line E1007W | White | 3.2 | 3.6 | 3.7 | 4.4 | 8.6 | 8.5 | 2.0 | 1.2 | 62.9 | 81.5 | 43.8 | 48.0 | 24.5 | 38.3 | 71.5 | 6.3 | 113.0 |
| MSU D6234 | White | 2.7 | 1.8 | 3.6 | 4.0 | 8.7 | 8.9 | 1.0 | 2.2 | 61.5 | 79.9 | 37.0 | 41.0 | 23.8 | 34.0 | 70.6 | 7.0 | 84.7 |
| MSU Line D9044 | White | 6.2 | 4.5 | 4.8 | 5.1 | 8.9 | 8.9 | 1.5 | 1.4 | 67.5 | 83.8 | 45.4 | 55.8 | 32.7 | 49.4 | 70.5 | 6.6 | 108.3 |
| Abacus | White | 3.1 | ----- | 3.8 | ----- | 7.3 | ----- | 3.0 | 1.2 | 60.9 | ----- | 59.1 | ----- | 36.3 | ----- | ----- | ----- | --- |
| AC Mountain | White | 6.3 | 4.2 | 3.7 | 4.2 | 8.9 | 8.8 | 3.0 | 0.8 | 67.2 | 81.6 | 26.7 | 42.0 | 19.8 | 37.4 | 72.2 | 7.0 | 97.1 |
| Caledonia | White | 2.9 | 2.6 | 4.7 | 4.7 | 9.0 | 9.0 | 3.5 | 4.5 | 60.7 | 80.4 | 60.3 | 64.3 | 36.3 | 52.3 | 72.1 | 6.6 | 100.2 |
| MSU Line E0025 | White | 1.2 | 1.2 | 4.8 | 5.5 | 8.8 | 8.6 | 3.0 | 0.8 | 73.1 | 85.0 | 34.2 | 41.8 | 25.6 | 37.0 | 71.7 | 6.4 | 109.7 |
| Arrow | White | 3.1 | ----- | 3.8 | ----- | 7.5 | --- | 1.0 | 1.0 | 66.5 | ----- | 28.1 | ----- | 18.8 | ----- | ---- | ----- | --- |
| Pioneer Brand 25W41 | White | 6.3 | 5.0 | 3.1 | 3.9 | 7.6 | 8.1 | 2.0 | 1.9 | 77.5 | 88.8 | 56.5 | 57.9 | 43.4 | 51.3 | 70.8 | 7.1 | 96.0 |
| MSU Line E0009 | White | 5.3 | 5.2 | 3.2 | 3.5 | 8.8 | 8.7 | 3.0 | 1.7 | 43.1 | 65.2 | 16.2 | 16.2 | 10.4 | 12.5 | 72.6 | 6.8 | 102.4 |
| MSU Line D9044R2 | White | 5.3 | 4.3 | 4.9 | 4.9 | 9.1 | 8.8 | 2.5 | 1.3 | 65.2 | 82.6 | 46.1 | 51.8 | 32.4 | 44.9 | 70.7 | 6.9 | 103.9 |
| MSU Line E0001 | White | 3.2 | 2.1 | 4.1 | 4.5 | 3.6 | 4.7 | 3.0 | 1.9 | 49.6 | 69.6 | 23.7 | 24.4 | 14.0 | 18.6 | 73.2 | 7.6 | 100.2 |
| Galaxy 501 | White | 3.3 | --- | 3.5 | ----- | 7.9 | - | 2.5 | 1.7 | 47.2 | ----- | 31.2 | ----- | 15.8 | ----- | --- | ----- | ----- |
| MSU Line E0029 | White | 1.8 | 1.6 | 5.2 | 5.2 | 8.8 | 8.9 | 1.5 | 0.6 | 64.8 | 80.7 | 35.8 | 41.0 | 23.5 | 34.2 | 71.7 | 7.2 | 81.4 |
| Genesis 7388 | White | 5.2 | ----- | 4.5 | ----- | 7.7 | ----- | 2.0 | 2.5 | 51.2 | ----- | 18.5 | ----- | 12.4 | ----- | ----- | ----- | ----- |
| Aurora - SBE | White | 4.2 | ----- | 3.4 | --- | 9.1 | - | 3.5 | 1.7 | 74.2 | --- | 45.6 | --- | 33.5 | ----- | ----- | ----- | ----- |
| MSU Line E2052 | White | 1.0 | ----- | 4.0 | ----- | 8.5 | ---- | 2.5 | 1.3 | 59.7 | ----- | 43.5 | ----- | 26.6 | --- | --- | ---- | ----- |
| VA97W-375WS | White | 0.8 | 0.9 | 3.3 | 4.1 | 8.9 | 7.7 | 0.5 | 3.3 | 76.9 | 87.4 | 29.9 | 47.3 | 22.4 | 42.8 | 68.9 | 7.4 | 98.7 |
| HS X03W | White | 2.3 | 1.5 | 3.9 | 4.1 | 8.0 | 8.4 | 3.0 | 3.7 | 48.8 | 72.4 | 28.4 | 29.6 | 14.2 | 21.9 | 70.1 | 7.7 | 91.2 |
| Trial Mean (90 Entries) |  | 3.1 | 2.5 | 4.2 | 4.4 | 6.1 | 5.9 | 2.4 | 1.8 | 66.5 | 81.9 | 36.8 | 44.7 | 25.0 | 38.4 | 70.7 | 6.9 | 104.1 |
|  | LSD | 1.9 | 1.9 | 1.6 | 1.1 | 2.1 | 2.3 | 2.2 | 1.6 | 22.1 | 16.5 | 24.0 | 22.6 | 18.7 | 21.9 | ---- | ----- | ----- |
|  | CV | 30.8 | 37.1 | 24.0 | 12.1 | 20.9 | 19.7 | 46.1 | 55.5 | 20.8 | 9.9 | 40.1 | 24.9 | 45.7 | 28.0 | ---- | ---- | ----- |

## 2005 Michigan State University Wheat Variety Trials

Multi-year data are the most informative.
Table 3 : Single Site Yield and Test Weight Performance Summary (Note: Tables sorted by 2005 Yield, red wheats grouped before white )
MSU makes no endorsement of any variety or brand.

| Name | Grain Color | Awns | County Locations |  |  |  |  |  |  |  |  |  |  |  | Average All Sites |  | CAUTION: Single site/single year data should not be used to make variety choice decisions Company |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Ingham |  | Lenawee |  | Midland |  | Saginaw |  | Sanilac |  | Huron |  |  |  |  |
|  |  |  | Yield bulac | Test Weight | Yield bulac | Test Weight | Yield bulac | $\begin{gathered} \text { Test } \\ \text { Weight } \end{gathered}$ | Yield bulac | Test Weight | Yield bulac | Test Weight | Yield bu/ac | Test Weight | Yield bulac | Test Weight |  |
| Pioneer Brand 25R47 | Red | Yes | 73.3 | 59.8 | 90.2 | 59.8 | 87.9 | 60.1 | 101.1 | 58.0 | 90.1 | 55.6 | 93.2 | 58.3 | 89.3 | 58.6 | Pioneer, A Dupont Company |
| AgriPro Douglas | Red | Yes | 73.5 | 60.0 | 94.6 | 59.7 | 83.9 | 59.6 | 100.3 | 57.6 | 92.7 | 55.2 | 81.3 | 57.1 | 87.7 | 58.2 | AgriPro COKER |
| RS 947 | Red | No | 69.1 | 58.7 | 83.0 | 58.6 | 91.6 | 60.2 | 100.8 | 58.4 | 86.1 | 55.8 | 92.6 | 59.0 | 87.2 | 58.5 | Rupp Seeds, Inc. |
| Jentes | Red | No | 71.4 | 60.4 | 81.1 | 58.8 | 90.2 | 59.7 | 99.8 | 58.8 | 84.8 | 55.6 | 84.2 | 58.1 | 85.3 | 58.6 | Steyer Seeds, Inc. |
| Cedar | Red | No | 69.0 | 61.4 | 84.0 | 60.0 | 86.5 | 59.2 | 99.5 | 58.6 | 82.6 | 56.2 | 88.3 | 58.1 | 85.0 | 58.9 | Michigan Crop Improvement Association |
| Hopewell | Red | No | 74.3 | 59.8 | 86.4 | 60.3 | 82.9 | 60.0 | 96.0 | 59.1 | 85.0 | 55.1 | 84.7 | 57.9 | 84.9 | 58.7 | Michigan Crop Improvement Association |
| Genesis R055 | Red | No | 68.9 | 59.7 | 88.0 | 60.4 | 83.3 | 62.1 | 96.9 | 58.4 | 85.6 | 55.8 | 85.2 | 59.2 | 84.7 | 59.3 | Genesis Brand Seed |
| Vigoro V9512 | Red | No | 73.3 | 61.1 | 86.6 | 58.6 | 85.3 | 60.6 | 94.6 | 58.7 | 86.5 | 55.4 | 81.1 | 58.6 | 84.6 | 58.8 | Royster - Clark, Inc. |
| Genesis R036 | Red | No | 72.0 | 58.8 | 82.2 | 57.9 | 83.1 | 60.3 | 97.5 | 58.4 | 86.2 | 55.8 | 84.7 | 57.1 | 84.3 | 58.1 | Genesis Brand Seed |
| Excel 392 | Red | No | 71.1 | 61.3 | 81.4 | 60.0 | 85.1 | 60.5 | 89.3 | 58.7 | 91.0 | 56.1 | 88.1 | 58.1 | 84.3 | 59.1 | Gristmill Enterprises |
| Excel 352tw | Red | No | 71.9 | 60.2 | 82.6 | 58.5 | 88.1 | 60.5 | 93.2 | 58.3 | 87.5 | 56.3 | 82.0 | 58.0 | 84.2 | 58.6 | Gristmill Enterprises |
| Excel 450 | Red | No | 63.7 | 60.5 | 84.0 | 59.7 | 91.8 | 60.1 | 96.6 | 58.9 | 81.5 | 55.5 | 86.7 | 57.8 | 84.1 | 58.8 | Gristmill Enterprises |
| Coffman | Red | No | 67.4 | 60.0 | 79.3 | 57.8 | 85.1 | 60.2 | 97.3 | 58.1 | 85.3 | 55.3 | 90.2 | 58.6 | 84.1 | 58.3 | Steyer Seeds, Inc. |
| TW044-094 | Red | No | 78.5 | 59.9 | 79.4 | 59.5 | 83.3 | 60.6 | 91.8 | 58.2 | 84.6 | 56.4 | 86.2 | 59.4 | 84.0 | 59.0 | Hyland Seeds |
| DF 101R | Red | No | 69.8 | 60.6 | 82.3 | 59.7 | 80.8 | 61.4 | 96.0 | 59.5 | 89.2 | 57.7 | 85.1 | 59.5 | 83.9 | 59.7 | D.F. Seeds, Inc. |
| Genesis R047 | Red | No | 71.5 | 61.4 | 72.3 | 59.2 | 91.6 | 59.3 | 95.1 | 58.4 | 82.0 | 56.0 | 89.6 | 58.3 | 83.7 | 58.8 | Genesis Brand Seed |
| MSU Line E1007R | Red | Yes | 71.7 | 62.1 | 82.6 | 61.1 | 80.4 | 61.0 | 98.2 | 59.3 | 80.4 | 56.1 | 89.0 | 58.7 | 83.7 | 59.7 | Michigan State University |
| Bravo | Red | No | 67.9 | 61.1 | 82.8 | 59.8 | 85.9 | 61.7 | 93.6 | 58.3 | 82.5 | 57.0 | 84.2 | 59.0 | 82.8 | 59.5 | Michigan Crop Improvement Association |
| OH 708 | Red | No | 61.2 | 60.4 | 80.1 | 60.1 | 80.0 | 59.3 | 97.5 | 58.1 | 80.2 | 56.1 | 91.5 | 56.7 | 81.8 | 58.5 | Ohio State University |
| Merrel | Red | No | 69.2 | 58.8 | 79.0 | 57.0 | 75.4 | 58.0 | 94.6 | 57.9 | 85.5 | 55.4 | 86.9 | 57.7 | 81.8 | 57.5 | Steyer Seeds, Inc. |
| Vigoro Tribute | Red | No | 67.1 | 62.5 | 72.7 | 60.9 | 84.6 | 62.2 | 93.3 | 60.1 | 84.9 | 58.7 | 86.8 | 61.9 | 81.6 | 61.1 | Royster - Clark, Inc. |
| Vigoro V9412 | Red | No | 66.3 | 59.5 | 77.9 | 58.9 | 82.6 | 61.4 | 89.7 | 58.9 | 86.8 | 57.2 | 84.3 | 58.7 | 81.3 | 59.1 | Royster - Clark, Inc. |
| DF 102R | Red | No | 67.5 | 58.2 | 78.2 | 58.3 | 84.1 | 60.9 | 92.9 | 57.4 | 80.8 | 55.9 | 83.1 | 58.7 | 81.1 | 58.2 | D.F. Seeds, Inc. |
| 9 XP 30 | Red | No | 61.4 | 59.5 | 78.2 | 60.5 | 81.5 | 62.0 | 91.7 | 58.9 | 91.7 | 57.9 | 82.1 | 59.0 | 81.1 | 59.6 | Rupp Seeds, Inc. |
| AgriPro Cooper | Red | No | 63.6 | 60.2 | 82.3 | 58.8 | 80.9 | 59.8 | 94.5 | 57.5 | 79.4 | 55.8 | 84.1 | 58.3 | 80.8 | 58.4 | AgriPro COKER |
| Cecil | Red | No | 66.6 | 59.3 | 82.5 | 59.7 | 81.8 | 59.1 | 94.1 | 58.9 | 80.4 | 56.9 | 78.7 | 59.1 | 80.7 | 58.8 | Michigan Crop Improvement Association |
| HS X04R | Red | No | 69.2 | 59.8 | 72.2 | 57.4 | 80.5 | 59.9 | 90.4 | 57.2 | 84.2 | 55.3 | 86.3 | 57.8 | 80.5 | 57.9 | Harrington Seeds, Inc. |
| Wiley | Red | No | 66.4 | 60.0 | 77.3 | 58.6 | 82.2 | 60.8 | 90.7 | 59.4 | 83.5 | 56.9 | 82.8 | 59.6 | 80.5 | 59.2 | Steyer Seeds, Inc. |
| Kristy | Red | No | 62.5 | 59.6 | 82.8 | 59.8 | 82.0 | 60.9 | 93.4 | 58.3 | 73.6 | 55.7 | 87.2 | 59.1 | 80.3 | 58.9 | JGL, Inc. |
| MSU Line D8006R | Red | Yes | 62.3 | 59.7 | 77.4 | 59.1 | 83.1 | 60.2 | 93.0 | 57.9 | 80.6 | 56.8 | 84.9 | 59.4 | 80.2 | 58.9 | Michigan State University |
| Excel 333 | Red | No | 66.8 | 60.1 | 78.4 | 58.2 | 77.6 | 59.7 | ----- | ----- | 84.4 | 55.6 | 80.8 | 58.5 | 79.9 | 58.3 | Gristmill Enterprises |
| HS X257R | Red | No | 65.9 | 59.6 | 74.8 | 58.4 | 80.7 | 61.8 | 90.2 | 58.9 | 85.5 | 57.7 | 82.3 | 59.5 | 79.9 | 59.3 | Harrington Seeds, Inc. |
| Pioneer Brand 25R37 | Red | No | 67.6 | 59.4 | 79.8 | 59.0 | 80.5 | 60.4 | 93.2 | 60.2 | 80.6 | 55.6 | 77.7 | 59.6 | 79.9 | 59.0 | Pioneer, A Dupont Company |
| RS 949 | Red | Yes | 63.6 | 62.0 | 76.8 | 60.1 | 81.3 | 62.5 | 94.7 | 59.6 | 84.6 | 57.5 | 78.3 | 59.7 | 79.9 | 60.2 | Rupp Seeds, Inc. |
| Genesis R035 | Red | No | 67.9 | 60.3 | 80.7 | 58.9 | 77.2 | 59.8 | 86.8 | 58.2 | 84.1 | 55.5 | 80.6 | 59.2 | 79.6 | 58.7 | Genesis Brand Seed |
| Besecker | Red | No | 68.6 | 61.8 | 81.3 | 60.0 | 78.4 | 61.8 | 90.9 | 59.1 | 77.8 | 56.8 | 80.5 | 59.3 | 79.6 | 59.8 | Steyer Seeds, Inc. |
| B980416 | Red | No | 62.2 | 62.1 | 79.5 | 59.8 | 80.7 | 60.2 | 86.6 | 57.8 | 83.9 | 56.8 | 84.2 | 57.8 | 79.5 | 59.1 | Syngenta Seeds, Inc. |
| MSU Line E2021 | Red | No | 70.2 | 60.2 | 91.0 | 60.0 | 75.8 | 61.2 | 86.0 | 58.7 | 81.1 | 55.8 | 72.4 | 57.8 | 79.4 | 59.0 | Michigan State University |
| Excel 399 | Red | No | 61.5 | 61.5 | 81.6 | 58.9 | 81.1 | 60.1 | 94.6 | 58.2 | 79.6 | 55.4 | 77.2 | 56.8 | 79.3 | 58.5 | Gristmill Enterprises |
| Genesis R045 | Red | No | 63.5 | 58.8 | 82.7 | 59.7 | 81.5 | 60.8 | 89.0 | 57.7 | 76.9 | 56.8 | 81.0 | 58.6 | 79.1 | 58.7 | Genesis Brand Seed |
| AgriPro COKER 9375 | Red | No | 64.1 | 58.1 | 75.6 | 56.3 | 79.5 | 58.5 | 85.2 | 55.6 | 84.6 | 55.3 | 83.1 | 56.8 | 78.7 | 56.8 | Syngenta Seeds, Inc. |
| Pioneer Brand 25R35 | Red | Yes | 63.7 | 61.1 | 73.8 | 59.2 | 81.3 | 60.0 | 87.7 | 57.6 | 84.3 | 55.5 | 80.9 | 57.9 | 78.6 | 58.6 | Pioneer, A Dupont Company |
| Harvard | Red | No | 64.6 | 61.6 | 76.9 | 62.4 | 80.8 | 61.2 | 89.5 | 59.6 | 83.0 | 58.7 | 76.4 | 60.0 | 78.5 | 60.6 | JGL, Inc. |
| AgriPro COKER 9663 | Red | No | 58.5 | 61.0 | 73.5 | 60.3 | 83.2 | 60.9 | 89.3 | 59.0 | 86.1 | 56.9 | 79.9 | 58.4 | 78.4 | 59.4 | Syngenta Seeds, Inc. |
| McCormick | Red | No | 62.8 | 62.3 | 74.1 | 61.4 | 76.6 | 61.0 | 90.2 | 59.5 | 78.0 | 57.6 | 83.1 | 59.8 | 77.5 | 60.3 | Michigan Crop Improvement Association |

## 2005 Michigan State University Wheat Variety Trials

Table 3 : Single Site Yield and Test Weight Performance Summary (Note: Tables sorted by 2005 Yield, red wheats grouped before white )
Multi-year data are the most informative.

| Name | Grain Color | Awns | County Locations |  |  |  |  |  |  |  |  |  |  |  | Average All Sites Yield Test bulac Weight |  | CAUTION: Single site/single year data should not be used to make variety choice decisions <br> Company |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Ingham |  | Lenawee |  | Midland |  | Saginaw |  | Sanilac |  | Huron |  |  |  |  |
|  |  |  | Yield bulac | Test Weight | Yield bu/ac | Test Weight | Yield bulac | Test Weight | Yield bulac | Test Weight | Yield bulac | Test Weight | Yield bu/ac | Test Weight |  |  |  |
| Roane | Red | No | 61.3 | 63.0 | 76.8 | 60.9 | 77.3 | 61.6 | 88.5 | 59.8 | 79.1 | 56.7 | 78.8 | 59.9 | 77.0 | 60.3 | Michigan Crop Improvement Association |
| Daisy | Red | No | 57.4 | 57.6 | 71.7 | 56.8 | 74.9 | 59.6 | 93.1 | 56.9 | 82.8 | 54.7 | 80.5 | 56.7 | 76.7 | 57.1 | Michigan Crop Improvement Association |
| Excel 412tw | Red | No | 63.6 | 61.9 | 76.6 | 58.9 | 82.6 | 61.1 | 83.8 | 59.2 | 76.0 | 56.4 | 75.1 | 58.6 | 76.3 | 59.4 | Gristmill Enterprises |
| Warwick | Red | No | 64.2 | 59.0 | 65.5 | 57.2 | 78.5 | 59.6 | 87.9 | 57.9 | 77.3 | 55.4 | 83.1 | 57.9 | 76.1 | 57.8 | Hyland Seeds |
| FT Wonder | Red | Yes | 57.5 | 60.3 | 69.3 | 58.3 | 80.2 | 61.5 | 92.6 | 59.3 | 72.8 | 56.1 | 82.1 | 58.9 | 75.8 | 59.1 | Hyland Seeds |
| Excel 354tw | Red | No | 57.8 | 61.9 | 70.8 | 60.5 | 76.0 | 62.8 | 90.3 | 59.6 | 78.4 | 57.7 | 78.0 | 60.6 | 75.2 | 60.5 | Gristmill Enterprises |
| HS 243R | Red | No | 57.8 | 59.8 | 80.1 | 59.0 | 72.8 | 58.7 | 93.4 | 58.4 | 67.3 | 55.9 | 78.1 | 57.6 | 74.9 | 58.2 | Harrington Seeds, Inc. |
| Excel 388 | Red | No | 59.5 | 60.7 | 73.4 | 57.4 | 75.0 | 59.0 | 89.0 | 58.3 | 76.1 | 55.5 | 75.0 | 58.5 | 74.7 | 58.2 | Gristmill Enterprises |
| Sisson | Red | No | 65.1 | 61.2 | 80.4 | 59.3 | 69.5 | 60.4 | 89.7 | 58.5 | 65.3 | 55.8 | 77.0 | 58.9 | 74.5 | 59.0 | Michigan Crop Improvement Association |
| Truman | Red | No | 56.9 | 60.8 | 74.5 | 58.6 | 74.6 | 60.7 | 85.5 | 59.5 | 76.7 | 57.8 | 77.6 | 59.3 | 74.3 | 59.5 | Michigan Crop Improvement Association |
| B980582 | Red | No | 64.3 | 62.8 | 71.2 | 60.0 | 75.6 | 62.3 | 79.7 | 59.2 | 76.2 | 57.6 | 79.0 | 60.2 | 74.3 | 60.4 | Syngenta Seeds, Inc. |
| VA00W-526 | Red | No | 59.5 | 60.4 | 66.4 | 59.1 | 83.0 | 61.3 | 76.5 | 57.0 | 72.7 | 57.5 | 80.6 | 59.4 | 73.1 | 59.1 | VPI \& SU / VCIA |
| MSU Line E2043 | White | Yes | 68.8 | 60.9 | 83.6 | 62.6 | 84.5 | 60.7 | 95.7 | 59.4 | 88.3 | 55.9 | 80.6 | 58.3 | 83.6 | 59.6 | Michigan State University |
| Aubrey | White | No | 67.3 | 59.4 | 79.2 | 60.5 | 81.4 | 61.1 | 97.7 | 61.1 | 86.6 | 57.6 | 87.0 | 58.8 | 83.2 | 59.8 | Genesis Brand Seed |
| MSU Line E0027 | White | Yes | 74.9 | 58.9 | 87.4 | 59.0 | 74.9 | 58.3 | 93.4 | 57.3 | 77.2 | 53.6 | 85.1 | 57.1 | 82.2 | 57.4 | Michigan State University |
| MSU Line E0028 | White | No | 70.8 | 58.8 | 84.4 | 58.7 | 74.0 | 58.5 | 93.9 | 56.7 | 82.7 | 54.3 | 87.6 | 56.8 | 82.2 | 57.3 | Michigan State University |
| MSU Line E2017 | White | No | 74.3 | 61.2 | 82.4 | 60.5 | 78.5 | 59.2 | 96.6 | 58.4 | 81.0 | 55.3 | 79.7 | 59.1 | 82.1 | 59.0 | Michigan State University |
| MSU Line E1008 | White | Yes | 65.9 | 62.2 | 84.1 | 62.3 | 75.7 | 61.4 | 98.7 | 59.8 | 83.7 | 56.7 | 81.7 | 59.0 | 81.6 | 60.2 | Michigan State University |
| Whitby | White | No | 67.0 | 59.9 | 76.9 | 59.6 | 81.8 | 59.4 | 93.9 | 59.1 | 86.3 | 55.2 | 81.7 | 57.1 | 81.3 | 58.4 | Hyland Seeds |
| Pearl | White | No | 64.1 | 60.9 | 78.6 | 58.8 | 85.1 | 60.7 | 90.2 | 58.6 | 82.8 | 55.5 | 85.3 | 59.6 | 81.0 | 59.0 | Michigan Crop Improvement Association |
| Alpine | White | No | 74.7 | 58.0 | 76.8 | 56.8 | 78.8 | 57.7 | 93.9 | 56.9 | 80.2 | 53.4 | 80.5 | 56.0 | 80.8 | 56.5 | Michigan Crop Improvement Association |
| MSU Line D8006 | White | Yes | 67.2 | 59.1 | 73.6 | 59.0 | 80.0 | 59.9 | 95.5 | 57.2 | 82.4 | 54.5 | 86.2 | 57.3 | 80.8 | 57.8 | Michigan State University |
| MSU Line E1007W | White | Yes | 63.7 | 61.2 | 84.0 | 61.8 | 76.1 | 60.2 | 95.3 | 58.6 | 84.4 | 55.4 | 80.0 | 58.7 | 80.6 | 59.3 | Michigan State University |
| MSU D6234 | White | No | 72.6 | 60.5 | 82.3 | 61.4 | 79.4 | 61.6 | 90.5 | 58.2 | 78.2 | 55.8 | 78.6 | 58.5 | 80.3 | 59.3 | Michigan State University |
| MSU Line D9044 | White | No | 67.6 | 61.4 | 87.0 | 60.7 | 77.1 | 60.1 | 92.3 | 58.1 | 78.5 | 54.4 | 79.2 | 57.5 | 80.3 | 58.7 | Michigan State University |
| Abacus | White | No | 64.6 | 59.1 | 78.8 | 59.0 | 80.0 | 58.2 | 93.9 | 57.3 | 80.9 | 54.7 | 82.8 | 56.8 | 80.2 | 57.5 | Michigan Crop Improvement Association |
| AC Mountain | White | No | 66.3 | 59.5 | 80.5 | 57.9 | 76.4 | 58.3 | 93.5 | 57.9 | 80.2 | 54.5 | 82.0 | 57.2 | 79.8 | 57.6 | Michigan Crop Improvement Association |
| Caledonia | White | No | 60.3 | 59.4 | 80.4 | 59.3 | 79.8 | 60.8 | 93.4 | 59.0 | 81.7 | 55.6 | 81.8 | 58.3 | 79.6 | 58.7 | Genesis Brand Seed \& Harrington Seeds, Inc |
| MSU Line E0025 | White | Yes | 65.1 | 58.7 | 79.5 | 57.1 | 78.5 | 59.9 | 94.7 | 56.8 | 77.7 | 53.4 | 81.6 | 55.7 | 79.5 | 56.9 | Michigan State University |
| Arrow | White | Yes | 68.4 | 59.3 | 76.0 | 59.9 | 78.9 | 60.5 | 88.4 | 58.4 | 82.7 | 55.9 | 80.9 | 58.6 | 79.2 | 58.8 | Michigan Crop Improvement Association |
| Pioneer Brand 25W41 | White | Yes | 65.1 | 62.9 | 75.3 | 61.1 | 81.0 | 62.0 | 89.2 | 59.2 | 80.9 | 55.9 | 82.8 | 59.0 | 79.1 | 60.0 | Pioneer, A Dupont Company |
| MSU Line E0009 | White | No | 67.4 | 60.1 | 79.7 | 60.2 | 75.9 | 58.7 | 91.2 | 58.6 | 78.1 | 57.2 | 76.6 | 59.1 | 78.2 | 59.0 | Michigan State University |
| MSU Line D9044R2 | White | No | 69.3 | 60.5 | 82.1 | 61.4 | 74.4 | 60.5 | 89.8 | 58.1 | 72.7 | 54.9 | 77.7 | 57.4 | 77.7 | 58.8 | Michigan State University |
| MSU Line E0001 | White | No | 67.5 | 60.9 | 74.5 | 59.2 | 79.5 | 60.7 | 84.7 | 59.0 | 80.7 | 56.7 | 77.8 | 58.2 | 77.5 | 59.1 | Michigan State University |
| Galaxy 501 | White | No | 65.2 | 60.2 | 76.9 | 59.5 | 74.3 | 59.7 | 86.0 | 58.9 | 79.6 | 55.7 | 73.9 | 58.7 | 76.0 | 58.8 | Michigan Crop Improvement Association |
| MSU Line E0029 | White | No | 68.1 | 60.5 | 83.5 | 58.6 | 70.9 | 60.2 | 83.5 | 58.3 | 70.3 | 55.0 | 77.7 | 57.8 | 75.7 | 58.4 | Michigan State University |
| Genesis 7388 | White | No | 64.5 | 61.7 | 70.7 | 60.9 | 76.5 | 62.1 | 83.0 | 59.8 | 82.3 | 57.1 | 76.5 | 60.3 | 75.6 | 60.3 | Genesis Brand Seed |
| Aurora - SBE | White | No | 61.2 | 60.5 | 75.9 | 59.7 | 74.4 | 60.4 | 89.1 | 58.0 | 74.3 | 55.6 | 77.8 | 59.2 | 75.5 | 58.9 | Michigan Crop Improvement Association |
| MSU Line E2052 | White | No | 65.3 | 60.5 | 71.4 | 60.1 | 75.8 | 61.1 | 80.1 | 58.9 | 76.8 | 57.6 | 71.7 | 59.1 | 73.5 | 59.6 | Michigan State University |
| VA97W-375WS | White | No | 51.7 | 60.5 | 73.7 | 59.2 | 72.4 | 59.4 | 78.8 | 58.2 | 69.9 | 55.9 | 80.5 | 59.3 | 71.2 | 58.8 | Michigan Crop Improvement Association |
| HS X03W | White | No | 64.0 | 61.3 | 76.9 | 62.1 | 66.4 | 60.7 | 78.2 | 59.8 | 64.3 | 56.9 | 69.0 | 58.1 | 69.8 | 59.8 | Harrington Seeds, Inc. |
| Trial Mean (90 Entries) |  |  | 66.3 | 60.4 | 79.1 | 59.5 | 80.2 | 60.4 | 91.5 | 58.5 | 81.0 | 56.1 | 81.9 | 58.5 | 80.0 | 58.9 |  |
| LSD |  |  | 10.1 | 1.8 | 5.7 | 1.7 | 5.2 | 1.6 | 5.6 | 1.2 | 8.0 | 1.4 | 4.5 | 1.6 | 4.3 | 0.8 |  |
|  |  |  | 11.0 | 2.1 | 4.9 | 2.0 | 4.4 | 1.9 | 4.2 | 1.4 | 6.7 | 1.8 | 3.7 | 1.9 | 4.7 | 1.3 |  |

LSD = least significant difference, i.e. differences smaller than the LSD are probably due to chance. CV = low values indicated higher precision.

## 2005 Michigan State University Wheat Variety Trials

|  | HURON COUNTY | YIELD TRIAL | INGHAM COUNTY OBSERVATION | SCAB NURSERY | LENAWEE COUNTY | MIDLAND COUNTY | SANILAC COUNTY | SAGINAW COUNTY |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| COOPERATOR | DARWIN SNELLER | $\begin{gathered} \text { TIM } \\ \text { DIETZ } \end{gathered}$ | MICHIGAN STATE UNIVERSITY | MICHIGAN STATE UNIVERSITY | WOODS SEED FARM | FRED SILER | STOUGHTENBURG FARMS | STUART BIERLEIN |
| nearest city | SEBEWAING | WILLIAMSTON | MASON | EAST LANSING | BRITTON | LAPORTE | SANDUSKY | GERA |
| planting date | 10/11/04 | 10/03/04 | 10/06/04 | 10/08/05 | 09/30/04 | 10/05/04 | 10/01/04 | 09/29/04 |
| harvest date | 07/23/05 | 07/12/05 | $N / A$ | $N / A$ | 07/11/05 | 07/17/05 | 07/21/05 | 07/20/05 |
| PRE-PLANT FERTILIZER | 225\# 6-17-34 | 200\# 6-24-24 | 200\# 6-24-24 | 200\# 6-24-24 | 300\# 9-23-30 | $\begin{gathered} 250 \# 10-12-36 \\ +1 \% \mathrm{Mn} \end{gathered}$ | $\begin{gathered} 190 \# 8-15-30 \\ +3.7 \% \mathrm{~S} \end{gathered}$ | $\begin{gathered} 300 \# 6-11-35 \\ +1 \% \mathrm{Mn}+0.3 \mathrm{Cu} \\ +0.3 \mathrm{Zn} \end{gathered}$ |
| COMMENTS | Light Scab Pressure; Moderate Leaf Blotch Pressure | Light to Moderate Powdery Mildew; Moderate Leaf Blotch Pressure | Observation Site / Yield Not Taken |  | Light to Moderate Powdery Mildew Early Moderate Leaf Rust Pressure Late; Moderate Leaf Blotch Pressure | Light Leaf Rust Pressure Late; Moderate Leaf Blotch Pressure | Light to Moderate Winter Kill (Injury);Light to Moderate Powdery Mildew Early; Moderate Leaf Blotch Pressure | Light to Moderate Winter Kill (Injury);Light to Moderate Powdery Mildew Early; Moderate Leaf Blotch Pressure |
| AVERAGE YIELD (BUSHELS / ACRE) | 81.9 | 66.3 | N/A | N/A | 79.1 | 80.2 | 81.0 | 91.5 |
| average test weight (LBS. / BUSHEL) | 58.5 | 60.4 | N/A | N/A | 59.5 | 60.4 | 56.1 | 58.5 |
| AVERAGE PERCENT GRAIN MOISTURE | 14.2 | 13.1 | N/A | N/A | 11.2 | 15.5 | 12.5 | 15.4 |
| DATA RECORDED (NUMBER OF REPS) | STRI (2) | PL_HT (4); PM (2); | SPROUT (2); FD (1); W_KIL (1) | FHBI\% (4); FHBS\% <br> (4); FHBX (4) | LRUST (2); PM (2); STRI (2) | LRUST (1); PL_HT (3); FD (4); SPROUT (3) | $\begin{gathered} \text { LODGE (4); STRI (2); } \\ \text { W_KIL (4) } \end{gathered}$ | W_KIL (4); SPROUT <br> (3) |

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# ORGANIZATIONS ENTERING VARIETIES IN THE 2005 MICHIGAN WHEAT VARIETY TRIALS 

AgriPro COKER
P.O. Box 411, 520 E. 1050 South

Brookston, IN 47923
Phone: 765-563-3111
D.F. Seeds, Inc.
P.O. Box 159, 905 S. Jackson

Dansville, MI 48819
Phone: 517-623-6161
Genesis Brand Seed
P.O. Box 21085

Lansing, MI 48909
Phone: 517-887-1684
Gristmill Enterprises
P.O. Box 385

Warren, IL 61087
Phone: 815-745-2774
Harrington Seeds, Inc.
2586 Bradleyville Road
Reese, MI 48757
Phone: 989-868-4750
Hyland Seeds
Nain Research Lab
RR\#1 111087 Petty St.
Ailsa Craig, ON N0M 1A0
CANADA
Phone: 519-232-4341
J G L, Inc.
3540 S. US 231
Greencastle, IN 46135
Phone: 765-653-5402

Michigan Crop Improvement
Association
P.O. Box 21008

Lansing, MI 48909
Phone: 517-332-3546

Ohio State University
1680 Madison Ave.
Wooster, OH 44691
Phone: 330-263-3944
Pioneer - Hi-Bred International, Inc.
210 Westfield Drive
Archbold, OH 43502
Phone: 800-611-9569
Royster-Clark, Inc.
717 Robinson Rd. SE
Washington C.H., OH 43160
Phone: 740-869-2181
Rupp Seeds, Inc.
17919 Co Rd. B
Wauseon, OH 43567
Phone: 419-337-1841
Steyer Seeds, Inc.
6154 North County Road 33
Tiffin, OH 44883
Phone: 800-231-4274
Syngenta Seeds, Inc.
P.O. Box 1240

Winterville, NC 28590
Phone: 252-746-3004

Virginia Polytechnic Institute \& State
University / Virginia Crop Improvement 2229 Menokin Road
Warsaw, VA 22572
Phone: 804-333-3485


[^0]:    
     Blight Severity Percent (0-100\%),FHBX - Fusarium Head Blight Severity Index
    ** SCORING INFORMATION: Score of $0=$ Best Rating - Score of $9=$ Poor Rating

