

Michigan State Wheat Performance Trials: 2013

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Comments on the 2013 Wheat Growing Season

The Michigan wheat crop experienced weather-related stress during 2013 that affected the pace of crop development. With the exception of the southern tier counties, repeated ice sheeting and ponding during the early spring months causing some pockets of marginal stands. Cool spring temperatures delayed green-up, prompted the crop to develop quickly in subsequent months. In some cases the accelerated development affected tiller development and stalk strength. In some areas, excess water influenced timing of nitrogen and fungicide applications. Cooler temperatures during June extended the grain fill period and delayed maturity resulting in a later harvest. High temperatures about 90°F in the second and third weeks of July brought ideal harvest conditions.

Other than a low level of Septoria leaf spot, leaf diseases were surprisingly absent during the early season. However, throughout the grain-fill period, various diseases developed. In particular, Septoria leaf spot, stripe rust, and leaf rust could readily be found on unprotected flag leaves of susceptible varieties. Fusarium head blight was clearly more evident this season compared to the past few years. Particularly through the central growing region of the state, excessive DON levels were not uncommon.

Current harvest reports across the state have mostly emphasized concern with lodging, excessive DON levels, and higher than anticipated grain yields. In general, reported test weights have been fair to good. Falling number scores have been acceptable and slightly lower than previous years.

Multi-Year Performance Summary (Tables 1 - 5)

Tables 1 through 5 summarize performance of the trial. The full trial included 93 entries (28 of which were experimental lines) from 20 organizations, including Michigan State University, and data analyses were conducted using all of these entries. For ease of viewing, two versions of the report are available. The “commercial only” version (available online and in the “Michigan Farm News” publication) includes the data of 63 commercially available varieties from 18 organizations only. The “including experimentals” version (online only) includes all 93 commercial and experimental lines. 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 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** (not across columns for a single trait). Tables 1 through 5 are sorted first by entry grain color, and then in descending order by yield for 2013. In some instances (e.g. yield), data columns to the right of the 2013 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 the tables is the trial average (mean), LSD (least significant difference), and CV (coefficient of variation) for data in that column. LSD values vary among traits and data sets (combinations of sites and years). Differences between the means for two entries that are greater than the LSD for that column are very likely to reflect a genuine difference between the two varieties. If the difference between two means is smaller than the LSD for that column, one should conclude that there is **no evidence that those entries are different for that trait** in the years and sites considered. 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 6)

Table 6 contains yield (adjusted to 13.5% moisture), test weight, and harvest moisture data from each of the six sites harvested for yield in 2013. 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 6 is sorted first by organization and then by variety or brand name.

Choosing Varieties

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

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

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

Experimental

The 2013 State Wheat Performance Trial entries were planted at seven sites in 6 counties: Allegan, Huron, Ingham (2), Lenawee, Sanilac, and Tuscola. Appendix A (below) presents information on each of these sites. Each plot was 6 rows at 7.5" row spacing and was planted to a length of 18 feet. Plots were trimmed to a length of 12 feet long in the spring for harvesting purposes. The trial was designed and executed as four replication alpha-lattice (31 blocks of 3 plots each) at all sites. 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 cooperators 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. For all sites, yield was calculated using the entire area of the plot including the wheel tracks between plots. This approach tends to underestimate yield. For data reported on a 0-9 scale, 0 is the best possible score.

High-Management

High-management testing was conducted in 2013 in Tuscola county. Both conventional and high-management trials were conducted at this site. Seeding rate, early-spring nitrogen applications and weed control were the same for the conventional and high-management trials. A pre-plant fertilizer was applied (300 lbs. 13-8-24 +7% S + 0.83% Zn + 0.47% Mn + 0.13% Cu +0.13% B) and trials were planted September 28, 2012 at a rate equivalent to 2.0 million seeds per acre. At Feekes 4-5, 90 lbs. of Nitrogen was applied using an Orbital Air Gandy unit at a rate of 196 lbs. per acre. Weed

control was done at Feekes 5-6 with Affinity BroadSpec at 8 oz per acre and a Non-Ionic Surfactant at 0.25%. For both conventional and high-management trials, lodging notes were taken at Feekes 11.4 on a 0 to 9 scale. Both trials were harvested on July 15, 2013.

The high-management trial received additional nitrogen and fungicide applications. At Feekes 6-7, 50 lbs. of nitrogen was applied to the high-management trial in the form of 28% liquid nitrogen using streamer bars on 5" centers. To control lower-canopy and early-season fungal disease, Quilt Xcel was applied to the high-management trial at Feekes 8.5-9 using 12 oz. of product and 20 gallons per acre. To control Fusarium Head Blight, Prosaro was applied at flowering, Feekes 10.5.1. Timing of Prosaro application coincided with flowering date of each variety. Prosaro was applied at 7.4 oz. of product and 20 gallons per acre with Non-Ionic Surfactant at 0.25%. Both Quilt Xcel and Prosaro were applied using TeeJet Turbo TwinJet Flat Spray Tips.

Funding for the high-management trial addition was provided by the Michigan Wheat Program.

Table 1 contains data for yield, test weight, and grain moisture. These data were acquired electronically on the plot combine at the time of harvest. Yield data is standardized to 13.5% moisture. In addition, grain color, chaff color and degree of awnedness are indicated. For degree of awnedness, "tip awned" (known as "apically awnletted" elsewhere, awns only present at the tip of the spike), "awnletted" (short awns on the spike), or "awned" (long awns on the entire spike) were indicated. Prior to 2009, "tip awned" and "awnletted" were recorded as "awnless".

Table 2 contains data for lodging, flowering date, plant height, powdery mildew, septoria leaf blotch, and Barley Yellow Dwarf. Lodging scores were taken at the Lenawee and Tuscola sites where 0 = no lodging and 9 = entire plot lodged. The flowering date indicates the average number of days past January 1st that a given entry reached the point where ½ of its heads were flowering. Plant height is reported as the distance in inches from the ground to the tip of average heads in a plot. Powdery mildew and leaf blotch scores are recorded as "0 = no visual symptoms of disease present". Powdery mildew scores are based on observations of the entire plant including the flag leaf. The causal organism(s) of the leaf blotching were not identified, but were likely a combination of *Septoria tritici* and *Stagonospora nodorum*. Barley Yellow Dwarf scores were taken at the Allegan site where 0 indicates Barley Yellow Dwarf was not present.

Table 3 contains data for stripe rust, leaf rust, stem rust, Fusarium head blight (FHB, scab) and the associated mycotoxin deoxynivalenol (DON, VOM), and Percent Black Point (tip) on the grain. Stripe rust and leaf rust scores are based primarily on infection observations on the flag leaf. Stem rust data are reported from 2009. Scab data 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 (incidence); 2) the percent of scabby spikelets within infected spikes (severity); and 3) the percent of scabby spikelets considering all spikes (scab index). The scab index is derived from multiplying the incidence and severity, and is a measure of the extent of damage to entire plots due to scab infection. 2012 FHB Score data are scores based upon a 0-5 score where 0 indicates no visible symptoms. Deoxynivalenol data is from harvested grain in the inoculated, mist irrigated, scab screening nursery and is reported in parts per million (ppm). The grain was analyzed for DON at the University of Minnesota using gas chromatography mass spectrometry, DON data is from the 2012 and prior crop years. Black point is reported on a percentage basis (percent of seeds with visible black point). 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 from the 2012 harvest season.

Table 4 through 5 contain data for milling and baking quality. Quality data are from the 2012 harvest season and prior. Data were generated by the USDA Eastern Soft Wheat Quality Laboratory in Wooster, Ohio on grain harvested from the State Variety trial each year. Flour yield is the ratio of the weight of extractable flour to the weight of milled grain, expressed as a percentage. Softness equivalent percent is the softness of the flour, with higher values indicating softer grained wheats. The quality lab test weight is not identical to the test weight at harvest due to grain drying and grain cleaning prior to quality laboratory test weight evaluation. Solvent Retention Capacity (SRC) can be conducted on flour using several different solvents and reflects different characteristics of flour quality. Water SRC is correlated to and intended to predict Farinograph water absorption. Sucrose SRC is a measure of pentosan content, which can strongly affect water absorption in baked products. Soft wheat flours for cookies typically have a target of 95% or less when used by the US baking industry for biscuits and crackers. Sodium carbonate SRC increases as starch damage due to milling increases. Normal values for good milling soft varieties are 68% or less. Lactic acid measures gluten strength with “weak” soft varieties having values below 85% and strong gluten soft varieties having values, typically, above 105% or 110%. For cookie diameter, a larger diameter is better. Whole grain protein (%) and whole grain hardness are being reported with 0-100, and higher values indicating harder wheat.

Table 6 contains yield, test weight and percent moisture from each location for each entry. These entries are sorted first by cooperating organization, and then by the entry name.

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 Eric Olson (517) 355-0271 Ext. 1142. 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.

**ORGANIZATIONS PARTICIPATING IN THE 2013
MICHIGAN STATE UNIVERSITY WHEAT PERFORMANCE TRIALS**

AgriMAXX Wheat Company
7167 Highbanks Road
Mascoutah, IL 62258
Phone: 855-629-9432

Co-op Elevator, Pigeon
7211 E. Michigan Ave
Pigeon, MI 48755
Phone: 989-453-4500

Direct Enterprises, Inc.
P.O. Box 978
Westfield, IN 46074
Phone: 317-867-2238

Dyna-Gro Seed
6221 Riverside Drive, Suite One
Dublin, OH 43017-0477
Phone: 614-761-4110

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

Limagrain Cereal Seeds
9020 Grant Road
Battle Ground, IN 47920
Phone 765-426-5207

Ohio Seed Improvement Association
6150 Avery Road, P.O. Box 477
Dublin, OH 43017-0477
Phone: 614-889-1136

Seed Consultants, Inc.
P.O. Box 370
Washington Court House, OH 43160
740-333-8644

Sunstar Hybrids
14993 State Road 17
Culver, IN 46511-9642
574-842-2775

Virginia Tech / VCIA
2229 Menokin Road
Warsaw, VA 22572
Phone: 804-333-3485

BioTown Seeds
P.O. Box 299
Reynolds, IN 47980
Phone: 219-984-6038

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

Dupont Pioneer
59 Greif Parkway, Suite 200
Delaware, OH 43015
Phone: 740-657-6143

G.B. Seed & Service
5453 136th Ave.
Hamilton, MI 49419
616-836-4185

Hyland Seeds
5 Hyland Drive
Blenheim, Ontario N0PIA0
Phone: 519-676-8146

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

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

Steyer Seeds
6154 N. Co. Rd. 33
Tiffin, OH 44883
Phone: 800-231-4274

Syngenta
2426 Webster Rd RR1
Monroeville, IN 46773
Phone: 260-248-1700

Wellman Seeds, Inc.
23778 Delphos Jennings Road
Delphos, OH 45833
Phone: 419-695-9010

2013 Michigan State University Wheat Performance Trials

Appendix A. Trial Site Descriptions for 2013 MSU Wheat Performance Trials.

| | ALLEGAN COUNTY | HURON COUNTY | INGHAM COUNTY | | LENAWEE COUNTY | SANILAC COUNTY | TUSCOLA COUNTY | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|
| | | | YIELD TRIAL | SCAB NURSERY | | | REGULAR MANGEMENT | HIGH MANAGEMENT |
| COOPERATOR | Harvey Jipping | Darwin Sneller | Charles Dietz | Michigan State University | Woods Seed Farm | Stoutenburg Farms | Stuart Bierlein | Stuart Bierlein |
| NEAREST CITY | Hamilton | Sebewaing | Webberville | East Lansing | Britton | Sandusky | Richville | Richville |
| PLANTING DATE | Oct. 8, 2012 | Oct. 2, 2012 | Oct. 1, 2012 | Oct. 15, 2012 | Oct. 4, 2012 | Sept. 21, 2012 | Sept. 28, 2012 | Sept. 28, 2012 |
| HARVEST DATE | July 16, 2013 | July 17, 2013 | July 18, 2013 | N/A | July 14, 2013 | July 19, 2013 | July 15, 2013 | July 15, 2013 |
| SOIL TYPE | Capac loam, 0 to 6 percent slopes | Kilmanagh loam; 0 to 1 percent slopes | Aubbeenaubee-Capac sandy loams, 0 to 3 percent slopes | Capac sandy loams, 0 to 3 percent slopes and Colwood-Brookston loams, 0 to 2 percent slopes | Lenawee silty clay loam, 0 to 3 percent slopes | Parkhill loam and clay loam, 0 to 2 percent slopes | Tappan-Londo Loam, 0-2 percent slope | Tappan-Londo Loam, 0-2 percent slope |
| PRE-PLANT FERTILIZER | None | 350# 6-15-35 + 1% Zn + 6% S | 165# 6-24-24 | 150# 19-19-19 | 250# 9-23-30 | 210# 5-16-37 +4% S + 4%Z | 300# 13-8-24 +7% S + 0.83% Zn + 0.47% Mn + 0.13% Cu +0.13% B | 300# 13-8-24 +7% S + 0.83% Zn + 0.47% Mn + 0.13% Cu +0.13% B |
| COMMENTS | Barley Yellow Dwarf, Leaf Rust, Stripe Rust, Light Powdery Mildew, Moderate Head Scab, Some Sprouting. | Some Early Spring Water Logging. | | Inoculated / Misted Fusarium Head Blight Screening Nursery. | Moderate Head Scab, Some Sprouting, Lodging, Hail Damage. | | Some Early Spring Water Logging, Lodging. | Some Early Spring Water Logging, Lodging. |
| AVERAGE YIELD (BUSHEL / ACRE) | 78.8 | 102.3 | 71.2 | N/A | 79.8 | 84.2 | 95.2 | 112.3 |
| AVERAGE TEST WEIGHT (LBS. / BUSHEL) | 57.9 | 57.9 | 57.3 | N/A | 56.0 | 57.6 | 59.2 | 59.9 |
| AVERAGE PERCENT GRAIN MOISTURE | 13.0 | 14.2 | 12.7 | N/A | 12.7 | 13.4 | 12.1 | 12.6 |
| 2013 DATA RECORDED (NUMBER OF REPS) | LRUST (2); SRUST (3); PM (1); BYD (2) | | FD (4) | %INC.(4); %SEV. (4); INDEX (4) | PL_HT (4); LODGE (4) | PL_HT (4) | FD (4); LODGE (4) | FD (4); LODGE (4) |

*DATA: **FD** – Flowering Date (Days Past Jan. 01), **PL_HT** - Plant Height in Inches, **BYD** - Barley Yellow Dwarf Score (0-9), **LODGE** - Lodging Score (0-9), **LRUST** - Leaf Rust Score (0-9), **SRUST** - Stripe Rust Score (0-9), **PM** - Powdery Mildew Score (0-9), **%INC** - Percent Incidence of FHB, **%SEV** - Percent of Severity of FHB, **INDEX** - Product of the Incidence X Severity / 100

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

2013 Michigan State University Wheat Performance Trials (Including Experimentals)

Multi-year data are the most informative.

MSU makes no endorsement of any variety or brand.

Table 1 : Multi-Year Performance Summary (Note: Tables sorted by 2013 Yield, red wheats grouped before white)

| Name | Grain Color | Chaff Color | Awns | Yield: Bushels/Acre (Adjusted to 13.5% Moisture) Multi-Year Averages | | | | Test Weight: lbs/Bushel Multi-Year Averages | | | | Percent Grain Moisture at Harvest Multi-Year Averages | | | | Organization |
|-----------------|-------------|-------------|-----------|----------------------------------------------------------------------------|-----------------|-----------------|-----------------|------------------------------------------------|-----------------|-----------------|-----------------|----------------------------------------------------------|-----------------|-----------------|-----------------|---------------------------------------|
| | | | | 2013 | 2 YR 2012-13 | 3 YR 2011-13 | 4 YR 2010-13 | 2013 | 2 YR 2012-13 | 3 YR 2011-13 | 4 YR 2010-13 | 2013 | 2 YR 2012-13 | 3 YR 2011-13 | 4 YR 2010-13 | |
| | | | | DF EX-2 | Red | White | Awned | 94.9 | ----- | ----- | ----- | 56.8 | ----- | ----- | ----- | |
| RS 972 | Red | White | Tip Awned | 92.2 | 94.5 | ----- | ----- | 57.1 | 58.0 | ----- | ----- | 13.5 | 13.8 | ----- | ----- | Rupp Seeds, Inc. |
| Pioneer 25R40 | Red | White | Awned | 92.0 | 95.4 | ----- | ----- | 58.3 | 59.4 | ----- | ----- | 12.9 | 13.2 | ----- | ----- | DuPont Pioneer |
| DF 109R | Red | White | Tip Awned | 91.9 | 92.9 | ----- | ----- | 57.4 | 58.1 | ----- | ----- | 13.2 | 13.6 | ----- | ----- | D.F. Seeds, Inc. |
| MCIA Red Dragon | Red | White | Tip Awned | 91.2 | 91.7 | 91.5 | 91.1 | 57.5 | 57.9 | 58.4 | 58.2 | 13.1 | 13.1 | 13.1 | 13.3 | Michigan Crop Improvement Association |
| W 123 | Red | White | Awnletted | 91.2 | 90.8 | 91.8 | ----- | 57.9 | 58.3 | 58.6 | ----- | 12.8 | 13.0 | 12.9 | ----- | Wellman Seeds, Inc. |
| HS 284R | Red | White | Tip Awned | 91.0 | ----- | ----- | ----- | 57.5 | ----- | ----- | ----- | 12.7 | ----- | ----- | ----- | Harrington Seeds, Inc. |
| MCIA EXP A | Red | White | Tip Awned | 91.0 | ----- | ----- | ----- | 57.7 | ----- | ----- | ----- | 13.0 | ----- | ----- | ----- | Michigan Crop Improvement Association |
| RS 907 | Red | White | Awned | 90.9 | ----- | ----- | ----- | 59.1 | ----- | ----- | ----- | 13.4 | ----- | ----- | ----- | Rupp Seeds, Inc. |
| W 206 | Red | White | Awned | 90.7 | ----- | ----- | ----- | 59.5 | ----- | ----- | ----- | 13.1 | ----- | ----- | ----- | Wellman Seeds, Inc. |
| MCIA EXP B | Red | White | Tip Awned | 90.4 | ----- | ----- | ----- | 57.2 | ----- | ----- | ----- | 13.0 | ----- | ----- | ----- | Michigan Crop Improvement Association |
| W 125 | Red | White | Tip Awned | 90.0 | 91.2 | ----- | ----- | 57.4 | 58.0 | ----- | ----- | 12.9 | 13.0 | ----- | ----- | Wellman Seeds, Inc. |
| W 207 | Red | White | Tip Awned | 90.0 | ----- | ----- | ----- | 57.0 | ----- | ----- | ----- | 13.8 | ----- | ----- | ----- | Wellman Seeds, Inc. |
| DF Sienna | Red | White | Awnless | 89.9 | ----- | ----- | ----- | 57.5 | ----- | ----- | ----- | 13.0 | ----- | ----- | ----- | D.F. Seeds, Inc. |
| 9223 | Red | White | Tip Awned | 89.9 | 91.9 | ----- | ----- | 57.3 | 58.1 | ----- | ----- | 13.3 | 13.5 | ----- | ----- | Dyna-Gro Seed |
| Heilman | Red | White | Tip Awned | 89.7 | 90.6 | ----- | ----- | 57.4 | 58.0 | ----- | ----- | 12.8 | 13.0 | ----- | ----- | Steyer Seeds |
| Hunker | Red | White | Tip Awned | 89.6 | 91.2 | ----- | ----- | 57.3 | 57.8 | ----- | ----- | 13.4 | 13.9 | ----- | ----- | Steyer Seeds |
| W 205 | Red | White | Awnless | 89.5 | ----- | ----- | ----- | 57.9 | ----- | ----- | ----- | 13.6 | ----- | ----- | ----- | Wellman Seeds, Inc. |
| AgriMAXX 438 | Red | White | Tip Awned | 89.2 | ----- | ----- | ----- | 57.3 | ----- | ----- | ----- | 13.4 | ----- | ----- | ----- | AgriMAXX Wheat Company |
| SC 1342™ | Red | White | Awnletted | 88.8 | ----- | ----- | ----- | 56.9 | ----- | ----- | ----- | 13.2 | ----- | ----- | ----- | Seed Consultants, Inc. |
| D 512W | Red | White | Tip Awned | 88.7 | ----- | ----- | ----- | 57.0 | ----- | ----- | ----- | 13.8 | ----- | ----- | ----- | Bio-Town Seeds, Inc. |
| LCS 38686 | Red | White | Tip Awned | 88.7 | ----- | ----- | ----- | 58.7 | ----- | ----- | ----- | 13.4 | ----- | ----- | ----- | Limagrain Cereal Seeds |
| Sienna | Red | White | Awnless | 88.5 | 89.1 | 91.7 | ----- | 57.2 | 57.8 | 58.3 | ----- | 12.9 | 13.0 | 13.0 | ----- | Direct Enterprises |
| Pioneer 25R34 | Red | White | Awned | 88.5 | 92.7 | 93.1 | ----- | 57.0 | 57.9 | 58.3 | ----- | 13.2 | 13.6 | 13.7 | ----- | DuPont Pioneer |
| DF EX-23 | Red | White | Awned | 88.4 | ----- | ----- | ----- | 58.0 | ----- | ----- | ----- | 12.9 | ----- | ----- | ----- | D.F. Seeds, Inc. |
| LCS 34969 | Red | White | Tip Awned | 88.3 | ----- | ----- | ----- | 58.3 | ----- | ----- | ----- | 13.0 | ----- | ----- | ----- | Limagrain Cereal Seeds |
| AgriMAXX 413 | Red | White | Awned | 88.2 | 89.8 | ----- | ----- | 57.0 | 58.2 | ----- | ----- | 12.3 | 12.7 | ----- | ----- | AgriMAXX Wheat Company |
| MCIA EXP4 | Red | White | Awnletted | 88.2 | 90.3 | ----- | ----- | 58.9 | 59.5 | ----- | ----- | 13.4 | 13.8 | ----- | ----- | Michigan Crop Improvement Association |
| Sunburst | Red | White | Tip Awned | 88.0 | 89.9 | 90.6 | 90.4 | 61.0 | 61.6 | 60.8 | 60.7 | 13.6 | 14.1 | 13.6 | 14.1 | Michigan Crop Improvement Association |
| DF EX-L1 | Red | White | Tip Awned | 87.9 | ----- | ----- | ----- | 59.4 | ----- | ----- | ----- | 13.7 | ----- | ----- | ----- | D.F. Seeds, Inc. |
| DF 111R EX | Red | White | Awned | 87.8 | ----- | ----- | ----- | 58.5 | ----- | ----- | ----- | 13.2 | ----- | ----- | ----- | D.F. Seeds, Inc. |
| MCIA Whale | Red | White | Tip Awned | 87.4 | ----- | ----- | ----- | 57.7 | ----- | ----- | ----- | 14.1 | ----- | ----- | ----- | Michigan Crop Improvement Association |
| RS 979 | Red | White | Tip Awned | 87.3 | 90.8 | ----- | ----- | 56.4 | 57.3 | ----- | ----- | 13.1 | 13.5 | ----- | ----- | Rupp Seeds, Inc. |
| 9042 | Red | White | Awnletted | 86.5 | 88.4 | 89.6 | 89.2 | 58.1 | 58.8 | 59.2 | 58.9 | 12.7 | 12.9 | 12.9 | 13.2 | Dyna-Gro Seed |
| GB 1202 | Red | White | Awned | 86.5 | ----- | ----- | ----- | 57.2 | ----- | ----- | ----- | 12.4 | ----- | ----- | ----- | G.B. Seeds and Service |
| W 208 | Red | White | Tip Awned | 86.3 | 89.1 | ----- | ----- | 58.0 | 58.6 | ----- | ----- | 13.5 | 14.0 | ----- | ----- | Wellman Seeds, Inc. |
| AgriMAXX 427 | Red | White | Tip Awned | 86.2 | ----- | ----- | ----- | 56.5 | ----- | ----- | ----- | 13.3 | ----- | ----- | ----- | AgriMAXX Wheat Company |
| MCIA Blazer | Red | White | Awnletted | 86.1 | 87.4 | ----- | ----- | 60.0 | 60.7 | ----- | ----- | 13.2 | 13.3 | ----- | ----- | Michigan Crop Improvement Association |
| AgriMAXX 434 | Red | White | Awned | 86.0 | ----- | ----- | ----- | 56.5 | ----- | ----- | ----- | 12.6 | ----- | ----- | ----- | AgriMAXX Wheat Company |
| SY 483 | Red | White | Tip Awned | 85.7 | ----- | ----- | ----- | 57.4 | ----- | ----- | ----- | 13.1 | ----- | ----- | ----- | Syngenta |
| DF 105R | Red | White | Awned | 85.3 | 89.7 | 91.0 | ----- | 57.0 | 58.0 | 58.4 | ----- | 12.2 | 12.6 | 12.5 | ----- | D.F. Seeds, Inc. |
| EXP 101 | Red | White | Tip Awned | 85.3 | ----- | ----- | ----- | 58.1 | ----- | ----- | ----- | 13.4 | ----- | ----- | ----- | Direct Enterprises |
| D 492W | Red | White | Awned | 85.1 | 87.3 | ----- | ----- | 57.3 | 58.1 | ----- | ----- | 12.4 | 12.7 | ----- | ----- | Bio-Town Seeds, Inc. |
| SC 1321™ | Red | White | Awned | 85.1 | ----- | ----- | ----- | 56.9 | ----- | ----- | ----- | 12.4 | ----- | ----- | ----- | Seed Consultants, Inc. |
| MCIA Red Devil | Red | White | Awned | 85.0 | 87.4 | 89.6 | 91.0 | 58.4 | 59.4 | 59.7 | 59.5 | 13.1 | 13.4 | 13.6 | 13.7 | Michigan Crop Improvement Association |
| Emmit | Red | White | Awnletted | 84.9 | 82.9 | 85.5 | 85.7 | 57.8 | 58.3 | 58.6 | 58.3 | 13.3 | 13.7 | 14.0 | 14.2 | Hyland Seeds |

2013 Michigan State University Wheat Performance Trials (Including Experimentals)

Multi-year data are the most informative.

MSU makes no endorsement of any variety or brand.

Table 1 : Multi-Year Performance Summary (Note: Tables sorted by 2013 Yield, red wheats grouped before white)

| Name | Grain Color | Chaff Color | Awns | Yield: Bushels/Acre (Adjusted to 13.5% Moisture) Multi-Year Averages | | | | Test Weight: lbs/Bushel Multi-Year Averages | | | | Percent Grain Moisture at Harvest Multi-Year Averages | | | | Organization |
|-------------------------------|-------------|-------------|-----------|----------------------------------------------------------------------------|-----------------|-----------------|-----------------|------------------------------------------------|-----------------|-----------------|-----------------|----------------------------------------------------------|-----------------|-----------------|-----------------|-------------------------------------------|
| | | | | 2013 | 2 YR 2012-13 | 3 YR 2011-13 | 4 YR 2010-13 | 2013 | 2 YR 2012-13 | 3 YR 2011-13 | 4 YR 2010-13 | 2013 | 2 YR 2012-13 | 3 YR 2011-13 | 4 YR 2010-13 | |
| | | | | LCS 37773 | Red | White | Tip Awned | 84.9 | ----- | ----- | ----- | 61.1 | ----- | ----- | ----- | |
| S-1100 | Red | White | Awned | 84.9 | ----- | ----- | ----- | 57.2 | ----- | ----- | ----- | 12.2 | ----- | ----- | ----- | Sunstar Hybrids |
| S-1200 | Red | White | Tip Awned | 84.9 | ----- | ----- | ----- | 56.5 | ----- | ----- | ----- | 13.2 | ----- | ----- | ----- | Sunstar Hybrids |
| Pierson | Red | White | Awnletted | 84.8 | ----- | ----- | ----- | 58.0 | ----- | ----- | ----- | 13.4 | ----- | ----- | ----- | Steyer Seeds |
| Branson | Red | White | Awnletted | 84.4 | ----- | ----- | ----- | 57.8 | ----- | ----- | ----- | 13.2 | ----- | ----- | ----- | Syngenta |
| GB 1102 | Red | White | Tip Awned | 84.2 | ----- | ----- | ----- | 56.8 | ----- | ----- | ----- | 13.0 | ----- | ----- | ----- | G.B. Seeds and Service |
| 9053 | Red | White | Awned | 83.8 | 86.4 | 87.0 | ----- | 55.5 | 57.0 | 57.2 | ----- | 12.6 | 12.8 | 12.8 | ----- | Dyna-Gro Seed |
| Hopewell | Red | Bronze | Awnletted | 83.6 | 85.5 | 86.7 | 87.3 | 58.3 | 59.1 | 59.6 | 59.1 | 12.9 | 13.2 | 13.3 | 13.5 | Michigan Crop Improvement Association |
| MSU Line F0036R | Red | White | Tip Awned | 83.6 | ----- | ----- | ----- | 57.0 | ----- | ----- | ----- | 12.6 | ----- | ----- | ----- | Michigan State University |
| Malabar | Red | White | Tip Awned | 83.5 | 83.7 | 86.0 | 86.3 | 58.0 | 58.8 | 59.4 | 59.1 | 12.9 | 13.1 | 13.2 | 13.4 | Ohio Seed Improvement Association |
| SC 1302™ | Red | White | Awnletted | 83.4 | ----- | ----- | ----- | 60.6 | ----- | ----- | ----- | 13.3 | ----- | ----- | ----- | Seed Consultants, Inc. |
| DANW1001 | Red | White | Awnletted | 82.5 | ----- | ----- | ----- | 58.2 | ----- | ----- | ----- | 14.6 | ----- | ----- | ----- | Hyland Seeds |
| D 506W | Red | White | Tip Awned | 82.3 | 86.9 | ----- | ----- | 56.1 | 57.1 | ----- | ----- | 13.6 | 14.0 | ----- | ----- | Bio-Town Seeds, Inc. |
| DF 55R | Red | White | Tip Awned | 82.3 | 86.7 | 86.7 | 86.9 | 59.0 | 59.4 | 59.5 | 59.1 | 13.2 | 13.3 | 13.5 | 13.6 | D.F. Seeds, Inc. |
| Pioneer 25R39 | Red | White | Tip Awned | 82.3 | 86.4 | 87.9 | 86.6 | 57.4 | 58.7 | 59.2 | 58.6 | 13.3 | 13.4 | 13.6 | 13.8 | DuPont Pioneer |
| DF EX R-1 | Red | White | Tip Awned | 82.2 | ----- | ----- | ----- | 55.2 | ----- | ----- | ----- | 12.3 | ----- | ----- | ----- | D.F. Seeds, Inc. |
| Shirley | Red | White | Awnletted | 81.8 | 87.4 | 89.6 | ----- | 56.6 | 57.5 | 57.8 | ----- | 12.9 | 13.3 | 13.9 | ----- | Dyna-Gro Seed |
| AgriMAXX Exp 1342 | Red | White | Awned | 81.5 | ----- | ----- | ----- | 58.2 | ----- | ----- | ----- | 13.1 | ----- | ----- | ----- | AgriMAXX Wheat Company |
| MSU Line F0051R | Red | White | Awned | 80.8 | ----- | ----- | ----- | 59.3 | ----- | ----- | ----- | 13.3 | ----- | ----- | ----- | Michigan State University |
| Red Ruby | Red | White | Awned | 79.8 | 83.0 | 85.3 | 86.5 | 57.9 | 59.2 | 59.7 | 59.3 | 13.0 | 13.1 | 13.1 | 13.4 | Michigan Crop Improvement Association |
| VA09W-73 | Red | White | Tip Awned | 79.7 | ----- | ----- | ----- | 59.0 | ----- | ----- | ----- | 13.5 | ----- | ----- | ----- | Virginia Crop Improvement Assc. / VA Tech |
| Merl | Red | White | Tip Awned | 78.9 | 83.7 | 86.0 | 84.7 | 59.5 | 60.2 | 60.4 | 60.0 | 13.4 | 13.9 | 14.1 | 14.2 | Virginia Crop Improvement Assc. / VA Tech |
| DF 45R | Red | White | Tip Awned | 78.3 | ----- | ----- | ----- | 58.9 | ----- | ----- | ----- | 13.0 | ----- | ----- | ----- | D.F. Seeds, Inc. |
| HY116-SRW | Red | White | Awnletted | 77.7 | 79.1 | 82.4 | 82.6 | 56.2 | 57.2 | 57.9 | 57.6 | 12.8 | 13.2 | 13.2 | 13.3 | Hyland Seeds |
| SC 1341™ | Red | White | Awned | 77.2 | ----- | ----- | ----- | 56.1 | ----- | ----- | ----- | 12.4 | ----- | ----- | ----- | Seed Consultants, Inc. |
| AC Mountain | White | White | Awnletted | 86.1 | 87.0 | 87.0 | 86.0 | 56.3 | 56.9 | 57.5 | 57.5 | 12.6 | 12.9 | 12.9 | 13.1 | Michigan Crop Improvement Association |
| Pioneer 25W43 | White | White | Tip Awned | 84.4 | 85.8 | 86.1 | 85.2 | 56.5 | 57.9 | 58.3 | 57.9 | 12.4 | 12.9 | 13.0 | 13.2 | DuPont Pioneer |
| DF 110W | White | White | Awned | 84.1 | 87.3 | ----- | ----- | 57.6 | 59.0 | ----- | ----- | 12.7 | 13.1 | ----- | ----- | D.F. Seeds, Inc. |
| MSU Line E6012 | White | White | Awned | 84.1 | 84.7 | 84.9 | 85.5 | 57.5 | 59.0 | 59.4 | 59.1 | 12.3 | 12.8 | 12.8 | 13.0 | Michigan State University |
| Linebacker | White | White | Awnletted | 84.0 | 82.0 | 84.0 | 84.0 | 56.7 | 57.1 | 57.5 | 57.1 | 13.1 | 14.1 | 14.6 | 15.3 | D.F. Seeds, Inc. |
| Jupiter | White | Bronze | Awnletted | 83.8 | 85.1 | 86.5 | 86.7 | 56.5 | 57.4 | 57.9 | 57.5 | 12.5 | 13.3 | 13.3 | 13.4 | Michigan Crop Improvement Association |
| Ambassador | White | White | Awnletted | 83.5 | 86.3 | 86.6 | 87.4 | 55.2 | 56.7 | 57.3 | 57.2 | 12.0 | 12.5 | 12.5 | 12.7 | D.F. Seeds, Inc. & Co-op Elevator, Pigeon |
| HY319-SWW | White | White | Awnletted | 82.5 | 81.5 | 83.1 | 84.1 | 57.5 | 58.7 | 59.3 | 58.9 | 12.9 | 13.2 | 13.2 | 13.5 | Hyland Seeds |
| VA09W-188WS | White | White | Awned | 82.4 | 86.5 | ----- | ----- | 56.8 | 57.9 | ----- | ----- | 12.9 | 13.1 | ----- | ----- | Virginia Crop Improvement Assc. / VA Tech |
| Ava | White | White | Awnletted | 82.2 | 81.5 | 82.9 | 83.0 | 57.6 | 57.2 | 57.5 | 57.1 | 13.4 | 14.9 | 15.4 | 15.6 | Hyland Seeds |
| MSU Line F0039 | White | White | Awnletted | 81.1 | ----- | ----- | ----- | 56.4 | ----- | ----- | ----- | 12.4 | ----- | ----- | ----- | Michigan State University |
| MSU Line F0065 | White | White | Awnletted | 80.9 | ----- | ----- | ----- | 55.8 | ----- | ----- | ----- | 12.5 | ----- | ----- | ----- | Michigan State University |
| MSU Line F0014 | White | White | Awnletted | 80.6 | ----- | ----- | ----- | 56.6 | ----- | ----- | ----- | 12.3 | ----- | ----- | ----- | Michigan State University |
| 9242W | White | White | Awnletted | 80.4 | 84.9 | 85.2 | ----- | 57.4 | 58.7 | 59.2 | ----- | 13.0 | 13.2 | 13.2 | ----- | Dyna-Gro Seed |
| W1062 | White | White | Tip Awned | 80.4 | 80.3 | 82.9 | 83.2 | 57.2 | 57.5 | 58.0 | 57.6 | 13.3 | 14.0 | 14.4 | 14.7 | Syngenta |
| 9362W | White | White | Tip Awned | 78.8 | ----- | ----- | ----- | 58.3 | ----- | ----- | ----- | 13.1 | ----- | ----- | ----- | Dyna-Gro Seed |
| Aubrey | White | White | Awnletted | 78.1 | 80.9 | 82.2 | 84.3 | 58.3 | 59.0 | 59.9 | 59.7 | 13.0 | 13.2 | 13.3 | 13.6 | D.F. Seeds, Inc. |
| SY 901 | White | White | Awned | 77.3 | ----- | ----- | ----- | 56.5 | ----- | ----- | ----- | 12.5 | ----- | ----- | ----- | Syngenta |
| MEAN (2013 93 Entries) | | | | 85.3 | 87.2 | 87.0 | 86.2 | 57.6 | 58.4 | 58.7 | 58.6 | 13.0 | 13.3 | 13.4 | 13.7 | |
| LSD (0.05) | | | | 2.7 | 5.5 | 4.3 | 3.8 | 0.3 | 1.1 | 1.1 | 0.9 | 0.3 | 0.7 | 0.8 | 0.7 | |
| CV (%) | | | | 5.6 | 3.1 | 3.0 | 3.1 | 1.0 | 0.9 | 1.1 | 1.1 | 3.9 | 2.8 | 3.5 | 3.4 | |

2013 Michigan State University Wheat Performance Trials (Including Experimentals)

Multi-year data are the most informative.

Table 2 : Multi-Year Performance Summary (Note: Tables sorted by 2013 Yield, red wheats grouped before white)

MSU makes no endorsement of any variety or brand.

| Name | Grain Color | Lodging Score (0-9) (0=none) 2013 | Flowering Date (Days Past Jan. 1) Multi-Year Averages | | | | 2013 | Plant Height (Inches) Multi-Year Averages | | | | 2013 | Powdery Mildew Score (0-9) Multi-Year Averages | | | | 2012 | Septoria Leaf Blotch Score (0-9) Multi-Year Averages | | | | Barley Yellow Dwarf Score (0-9) 2013 |
|-----------------|-------------|-----------------------------------------|-------------------------------------------------------------|---------|---------|---------|------|-------------------------------------------------|---------|---------|---------|------|------------------------------------------------------|---------|---------|---------|------|------------------------------------------------------------|---------|---------|---------|--------------------------------------------|
| | | | 2012-13 | 2011-13 | 2010-13 | 2 YR | | 3 YR | 4 YR | 2 YR | 3 YR | | 4 YR | 2 YR | 3 YR | 4 YR | | 2 YR | 3 YR | 4 YR | | |
| | | | 2013 | 2012-13 | 2011-13 | 2010-13 | | 2013 | 2012-13 | 2011-13 | 2010-13 | | 2013 | 2012-13 | 2011-13 | 2010-13 | | 2012 | 2011-12 | 2010-12 | 2009-12 | |
| DF EX-2 | Red | 3.1 | 153.5 | ---- | ---- | ---- | 32.2 | ---- | ---- | ---- | ---- | 1.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.4 | | |
| RS 972 | Red | 3.1 | 154.7 | 148.9 | ---- | ---- | 34.0 | 32.5 | ---- | ---- | ---- | 2.0 | 3.1 | ---- | ---- | 1.3 | ---- | ---- | ---- | 1.5 | | |
| Pioneer 25R40 | Red | 1.8 | 154.7 | 148.7 | ---- | ---- | 31.5 | 30.3 | ---- | ---- | ---- | 0.0 | 0.1 | ---- | ---- | 1.0 | ---- | ---- | ---- | 2.1 | | |
| DF 109R | Red | 3.2 | 155.1 | 149.4 | ---- | ---- | 34.1 | 32.7 | ---- | ---- | ---- | 2.0 | 2.4 | ---- | ---- | 1.9 | ---- | ---- | ---- | 2.0 | | |
| MCIA Red Dragon | Red | 2.0 | 154.0 | 148.2 | 149.8 | 148.9 | 38.1 | 36.0 | 36.8 | 36.9 | 3.0 | 1.6 | 1.3 | 1.8 | 1.0 | 3.1 | 2.9 | ---- | 1.2 | | | |
| W 123 | Red | 3.1 | 153.4 | 147.4 | 149.2 | ---- | 39.2 | 36.5 | 35.3 | ---- | 3.0 | 3.1 | 2.0 | ---- | 2.3 | 3.4 | ---- | ---- | 1.9 | | | |
| HS 284R | Red | 1.8 | 154.1 | ---- | ---- | ---- | 38.4 | ---- | ---- | ---- | 2.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 1.9 | | |
| MCIA EXP A | Red | 4.4 | 153.1 | ---- | ---- | ---- | 34.2 | ---- | ---- | ---- | 4.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 2.8 | | |
| RS 907 | Red | 2.6 | 153.6 | ---- | ---- | ---- | 33.2 | ---- | ---- | ---- | 1.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 2.0 | | |
| W 206 | Red | 1.6 | 153.6 | ---- | ---- | ---- | 35.4 | ---- | ---- | ---- | 1.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 1.2 | | |
| MCIA EXP B | Red | 3.3 | 153.5 | ---- | ---- | ---- | 34.4 | ---- | ---- | ---- | 4.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 3.3 | | |
| W 125 | Red | 2.1 | 154.0 | 148.2 | ---- | ---- | 38.3 | 36.1 | ---- | ---- | 2.0 | 2.2 | ---- | ---- | 2.5 | ---- | ---- | ---- | ---- | 2.7 | | |
| W 207 | Red | 2.2 | 155.3 | ---- | ---- | ---- | 35.1 | ---- | ---- | ---- | 4.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 2.5 | | |
| DF Sienna | Red | 1.7 | 153.6 | ---- | ---- | ---- | 39.3 | ---- | ---- | ---- | 2.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 2.1 | | |
| 9223 | Red | 2.6 | 154.8 | 149.2 | ---- | ---- | 34.1 | 33.0 | ---- | ---- | 3.0 | 3.8 | ---- | ---- | 2.0 | ---- | ---- | ---- | ---- | 3.8 | | |
| Heilman | Red | 2.7 | 154.2 | 148.1 | ---- | ---- | 39.1 | 36.6 | ---- | ---- | 0.0 | 0.0 | ---- | ---- | 2.2 | ---- | ---- | ---- | ---- | 1.3 | | |
| Hunker | Red | 2.8 | 155.5 | 149.4 | ---- | ---- | 34.9 | 33.3 | ---- | ---- | 0.0 | 1.6 | ---- | ---- | 0.8 | ---- | ---- | ---- | ---- | 2.3 | | |
| W 205 | Red | 1.0 | 157.6 | ---- | ---- | ---- | 34.3 | ---- | ---- | ---- | 2.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 1.0 | | |
| AgriMAXX 438 | Red | 3.9 | 154.3 | ---- | ---- | ---- | 34.9 | ---- | ---- | ---- | 2.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 3.1 | | |
| SC 1342™ | Red | 1.9 | 154.2 | ---- | ---- | ---- | 34.8 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 2.1 | | |
| D 512W | Red | 2.7 | 154.7 | ---- | ---- | ---- | 34.2 | ---- | ---- | ---- | 4.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 1.3 | | |
| LCS 38686 | Red | 4.8 | 152.6 | ---- | ---- | ---- | 33.8 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 2.0 | | |
| Sienna | Red | 1.7 | 153.6 | 148.0 | 149.7 | ---- | 38.5 | 36.2 | 37.4 | ---- | 2.0 | 1.3 | 1.1 | ---- | 2.1 | 2.6 | ---- | ---- | 0.9 | | | |
| Pioneer 25R34 | Red | 4.3 | 154.0 | 147.9 | 149.7 | ---- | 35.3 | 33.3 | 33.5 | ---- | 5.0 | 5.1 | 4.7 | ---- | 1.1 | 2.1 | ---- | ---- | 1.3 | | | |
| DF EX-23 | Red | 1.0 | 153.1 | ---- | ---- | ---- | 32.2 | ---- | ---- | ---- | 4.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 1.1 | | |
| LCS 34969 | Red | 3.5 | 152.8 | ---- | ---- | ---- | 35.9 | ---- | ---- | ---- | 3.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 1.1 | | |
| AgriMAXX 413 | Red | 2.8 | 152.8 | 147.0 | ---- | ---- | 32.1 | 31.1 | ---- | ---- | 0.0 | 1.8 | ---- | ---- | 4.1 | ---- | ---- | ---- | ---- | 2.9 | | |
| MCIA EXP4 | Red | 2.4 | 156.2 | 150.2 | ---- | ---- | 36.3 | 34.9 | ---- | ---- | 0.0 | 0.0 | ---- | ---- | 3.0 | ---- | ---- | ---- | ---- | 1.5 | | |
| Sunburst | Red | 1.9 | 156.1 | 149.6 | 150.8 | 150.4 | 31.6 | 29.5 | 31.0 | 31.2 | 0.0 | 0.1 | 0.6 | 0.7 | 1.9 | 2.2 | 2.6 | 2.8 | 2.5 | | | |
| DF EX-L1 | Red | 5.2 | 154.0 | ---- | ---- | ---- | 36.4 | ---- | ---- | ---- | 1.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 2.2 | | |
| DF 111R EX | Red | 1.3 | 154.5 | ---- | ---- | ---- | 35.5 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 1.9 | | |
| MCIA Whale | Red | 1.2 | 156.7 | ---- | ---- | ---- | 34.9 | ---- | ---- | ---- | 4.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 2.0 | | |
| RS 979 | Red | 4.1 | 153.2 | 147.4 | ---- | ---- | 33.9 | 32.2 | ---- | ---- | 2.0 | 3.4 | ---- | ---- | 2.6 | ---- | ---- | ---- | ---- | 1.8 | | |
| 9042 | Red | 1.5 | 153.9 | 147.9 | 150.0 | 149.5 | 32.5 | 31.2 | 31.6 | 31.7 | 1.0 | 2.4 | 2.2 | 2.3 | 4.3 | 3.5 | 2.9 | ---- | 2.1 | | | |
| GB 1202 | Red | 2.8 | 152.9 | ---- | ---- | ---- | 31.7 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 2.0 | | |
| W 208 | Red | 3.2 | 154.2 | 148.7 | ---- | ---- | 35.1 | 34.6 | ---- | ---- | 1.0 | 0.6 | ---- | ---- | 1.8 | ---- | ---- | ---- | ---- | 1.2 | | |
| AgriMAXX 427 | Red | 4.2 | 153.4 | ---- | ---- | ---- | 34.0 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 1.6 | | |
| MCIA Blazer | Red | 2.9 | 153.2 | 147.0 | ---- | ---- | 33.4 | 32.5 | ---- | ---- | 0.0 | 0.7 | ---- | ---- | 1.9 | ---- | ---- | ---- | ---- | 2.0 | | |
| AgriMAXX 434 | Red | 2.9 | 153.6 | ---- | ---- | ---- | 32.0 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 1.4 | | |
| SY 483 | Red | 3.0 | 155.9 | ---- | ---- | ---- | 34.6 | ---- | ---- | ---- | 1.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 1.0 | | |
| DF 105R | Red | 2.1 | 153.0 | 147.1 | 149.3 | ---- | 32.4 | 30.5 | 31.2 | ---- | 1.0 | 3.3 | 3.1 | ---- | 3.6 | 4.6 | ---- | ---- | ---- | 2.9 | | |
| EXP 101 | Red | 2.9 | 154.4 | ---- | ---- | ---- | 35.6 | ---- | ---- | ---- | 4.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 1.8 | | |
| D 492W | Red | 2.6 | 153.2 | 147.7 | ---- | ---- | 33.1 | 31.0 | ---- | ---- | 1.0 | 2.0 | ---- | ---- | 2.1 | ---- | ---- | ---- | ---- | 3.4 | | |
| SC 1321™ | Red | 2.2 | 153.5 | ---- | ---- | ---- | 32.0 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 2.8 | | |
| MCIA Red Devil | Red | 2.3 | 154.9 | 148.6 | 150.4 | 149.5 | 34.3 | 32.3 | 33.4 | 33.6 | 0.0 | 0.6 | 0.7 | 0.6 | 1.3 | 1.6 | 1.7 | ---- | 1.8 | | | |
| Emmit | Red | 3.7 | 156.4 | 150.7 | 152.2 | 151.4 | 36.6 | 34.0 | 35.1 | 35.4 | 1.0 | 0.7 | 1.6 | 2.2 | 3.2 | 3.3 | 3.0 | 3.0 | ---- | 2.9 | | |

2013 Michigan State University Wheat Performance Trials (Including Experimentals)

Multi-year data are the most informative.

Table 2 : Multi-Year Performance Summary (Note: Tables sorted by 2013 Yield, red wheats grouped before white)

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| Name | Grain Color | Lodging Score (0-9) (0=none) 2013 | Flowering Date (Days Past Jan. 1) Multi-Year Averages | | | | Plant Height (Inches) Multi-Year Averages | | | | Powdery Mildew Score (0-9) Multi-Year Averages | | | | Septoria Leaf Blotch Score (0-9) Multi-Year Averages | | | | Barley Yellow Dwarf Score (0-9) 2013 |
|-------------------------------|-------------|-----------------------------------------|-------------------------------------------------------------|--------------|--------------|--------------|-------------------------------------------------|-------------|-------------|-------------|------------------------------------------------------|-------------|-------------|-------------|------------------------------------------------------------|-------------|-------------|-------------|--------------------------------------------|
| | | | 2013 | 2 YR | 3 YR | 4 YR | 2013 | 2 YR | 3 YR | 4 YR | 2013 | 2 YR | 3 YR | 4 YR | 2012 | 2 YR | 3 YR | 4 YR | |
| | | | 2012-13 | 2011-13 | 2010-13 | 2012-13 | 2011-13 | 2010-13 | 2012-13 | 2011-13 | 2010-13 | 2012-13 | 2011-13 | 2010-13 | 2011-12 | 2010-12 | 2009-12 | | |
| LCS 37773 | Red | 6.4 | 152.4 | ---- | ---- | ---- | 34.5 | ---- | ---- | ---- | 3.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 2.2 |
| S-1100 | Red | 2.3 | 153.2 | ---- | ---- | ---- | 32.0 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 2.6 |
| S-1200 | Red | 4.6 | 153.5 | ---- | ---- | ---- | 34.6 | ---- | ---- | ---- | 3.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 1.1 |
| Pierson | Red | 3.3 | 153.8 | ---- | ---- | ---- | 35.6 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 3.2 |
| Branson | Red | 3.4 | 153.5 | ---- | ---- | ---- | 33.0 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 1.4 |
| GB 1102 | Red | 4.6 | 153.2 | ---- | ---- | ---- | 33.5 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 1.3 |
| 9053 | Red | 2.8 | 154.9 | 148.8 | 150.7 | ---- | 32.5 | 31.3 | 32.0 | ---- | 2.0 | 4.1 | 3.4 | ---- | 3.2 | 4.2 | ---- | ---- | 1.6 |
| Hopewell | Red | 1.6 | 154.7 | 149.3 | 151.1 | 150.4 | 35.9 | 34.2 | 34.4 | 34.8 | 1.0 | 0.7 | 0.9 | 1.3 | 4.4 | 5.0 | 3.9 | 3.5 | 3.5 |
| MSU Line F0036R | Red | 1.1 | 155.1 | ---- | ---- | ---- | 30.6 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 1.6 |
| Malabar | Red | 1.8 | 153.9 | 149.5 | 150.8 | 150.2 | 37.2 | 35.0 | 35.8 | 36.2 | 3.0 | 2.1 | 1.4 | 1.8 | 3.8 | 4.6 | 3.8 | 3.4 | 1.1 |
| SC 1302™ | Red | 4.1 | 153.0 | ---- | ---- | ---- | 32.5 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 2.1 |
| DANW1001 | Red | 2.2 | 158.7 | ---- | ---- | ---- | 35.2 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 3.2 |
| D 506W | Red | 3.7 | 153.7 | 147.9 | ---- | ---- | 34.1 | 32.4 | ---- | ---- | 0.0 | 1.3 | ---- | ---- | 2.3 | ---- | ---- | ---- | 1.2 |
| DF 55R | Red | 4.9 | 155.3 | 149.1 | 150.9 | 150.2 | 34.9 | 33.0 | 33.3 | 33.7 | 0.0 | 0.0 | 0.5 | 0.8 | 3.1 | 3.4 | 3.1 | 3.1 | 4.1 |
| Pioneer 25R39 | Red | 3.9 | 156.8 | 150.1 | 151.7 | 151.2 | 34.5 | 32.4 | 33.0 | 33.5 | 5.0 | 4.2 | 3.5 | 3.8 | 2.6 | 3.8 | 3.3 | 3.3 | 1.1 |
| DF EX R-1 | Red | 2.2 | 155.2 | ---- | ---- | ---- | 35.3 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 2.6 |
| Shirley | Red | 1.2 | 156.3 | 149.6 | 151.3 | ---- | 30.5 | 29.3 | 30.1 | ---- | 0.0 | 0.0 | 0.0 | ---- | 2.7 | 2.7 | ---- | ---- | 1.2 |
| AgriMAXX Exp 1342 | Red | 1.3 | 156.0 | ---- | ---- | ---- | 31.3 | ---- | ---- | ---- | 1.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 1.7 |
| MSU Line F0051R | Red | 1.4 | 156.0 | ---- | ---- | ---- | 33.7 | ---- | ---- | ---- | 1.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 4.1 |
| Red Ruby | Red | 2.2 | 155.2 | 149.1 | 150.9 | 150.4 | 33.6 | 32.4 | 33.1 | 33.9 | 0.0 | 0.9 | 0.7 | 1.2 | 4.4 | 4.8 | 3.6 | 3.4 | 0.9 |
| VA09W-73 | Red | 2.0 | 155.8 | ---- | ---- | ---- | 32.6 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.2 |
| Merl | Red | 1.0 | 153.4 | 147.1 | 149.0 | 148.4 | 32.5 | 31.8 | 32.4 | 32.5 | 1.0 | 0.5 | 1.1 | 1.1 | 4.3 | 3.6 | 3.6 | 3.3 | 3.7 |
| DF 45R | Red | 2.6 | 153.9 | ---- | ---- | ---- | 33.9 | ---- | ---- | ---- | 3.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 1.5 |
| HY116-SRW | Red | 4.1 | 155.9 | 150.6 | 152.1 | 151.5 | 36.3 | 34.0 | 35.3 | 35.5 | 0.0 | 0.2 | 0.7 | 0.6 | 2.1 | 2.3 | 2.0 | 1.9 | 4.4 |
| SC 1341™ | Red | 3.3 | 153.9 | ---- | ---- | ---- | 30.4 | ---- | ---- | ---- | 3.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0 |
| AC Mountain | White | 3.9 | 155.8 | 150.7 | 152.0 | 151.4 | 38.9 | 36.7 | 36.6 | 37.1 | 1.0 | 0.5 | 1.4 | 1.8 | 2.9 | 4.1 | 3.4 | 3.3 | 3.1 |
| Pioneer 25W43 | White | 3.9 | 154.2 | 148.3 | 150.0 | 149.3 | 33.6 | 31.6 | 32.0 | 32.3 | 2.0 | 3.5 | 3.2 | 3.3 | 3.2 | 3.1 | 2.8 | 2.9 | 3.4 |
| DF 110W | White | 2.7 | 155.3 | 149.2 | ---- | ---- | 32.8 | 30.9 | ---- | ---- | 1.0 | 0.9 | ---- | ---- | 2.6 | ---- | ---- | ---- | 1.2 |
| MSU Line E6012 | White | 3.1 | 154.3 | 148.5 | 150.5 | 149.9 | 33.5 | 32.5 | 32.6 | 33.2 | 0.0 | 1.2 | 1.8 | 1.9 | 2.1 | 2.8 | 2.7 | 2.8 | 0.2 |
| Linebacker | White | 2.8 | 156.9 | 151.2 | 152.7 | 151.8 | 37.0 | 35.0 | 35.4 | 36.0 | 3.0 | 1.9 | 2.6 | 3.0 | 2.1 | 3.3 | 3.0 | 3.2 | 0.0 |
| Jupiter | White | 2.3 | 156.0 | 150.6 | 152.1 | 151.4 | 33.2 | 31.8 | 32.2 | 32.2 | 3.0 | 1.6 | 1.8 | 1.7 | 5.6 | 6.1 | 4.9 | 4.4 | 0.8 |
| Ambassador | White | 2.2 | 154.7 | 148.2 | 150.0 | 149.3 | 34.4 | 32.8 | 33.4 | 34.2 | 0.0 | 0.0 | 0.1 | 0.9 | 6.4 | 6.0 | 4.8 | 4.3 | 2.1 |
| HY319-SWW | White | 2.3 | 156.2 | 151.0 | 152.5 | 151.8 | 36.7 | 35.2 | 36.0 | 36.6 | 1.0 | 0.7 | 1.2 | 1.7 | 2.4 | 2.3 | 2.0 | ---- | 3.8 |
| VA09W-188WS | White | 2.9 | 153.8 | 147.3 | ---- | ---- | 35.1 | 33.6 | ---- | ---- | 0.0 | 0.4 | ---- | ---- | 3.9 | ---- | ---- | ---- | 0.0 |
| Ava | White | 3.6 | 158.0 | 152.1 | 153.4 | 152.8 | 37.1 | 35.8 | 36.6 | 36.6 | 3.0 | 1.5 | 1.5 | 1.9 | 1.7 | 2.8 | 2.7 | 2.9 | 2.5 |
| MSU Line F0039 | White | 0.9 | 155.7 | ---- | ---- | ---- | 33.6 | ---- | ---- | ---- | 3.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 1.4 |
| MSU Line F0065 | White | 2.1 | 156.1 | ---- | ---- | ---- | 34.5 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 1.9 |
| MSU Line F0014 | White | 1.5 | 155.2 | ---- | ---- | ---- | 31.7 | ---- | ---- | ---- | 1.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 2.9 |
| 9242W | White | 2.0 | 155.3 | 149.1 | 150.7 | ---- | 34.2 | 32.5 | 33.4 | ---- | 0.0 | 0.3 | 0.8 | ---- | 1.7 | 2.3 | ---- | ---- | 2.7 |
| W1062 | White | 4.4 | 155.6 | 150.0 | 151.7 | 150.9 | 34.8 | 33.2 | 33.9 | 34.3 | 3.0 | 2.8 | 2.1 | 2.4 | 2.6 | 3.0 | 2.7 | 2.8 | 1.0 |
| 9362W | White | 1.7 | 155.6 | ---- | ---- | ---- | 33.0 | ---- | ---- | ---- | 3.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 1.7 |
| Aubrey | White | 1.9 | 153.8 | 147.8 | 149.7 | 149.0 | 35.1 | 33.7 | 34.4 | 34.8 | 0.0 | 0.0 | 0.8 | 0.8 | 4.3 | 3.9 | 3.3 | 3.1 | 2.7 |
| SY 901 | White | 4.0 | 156.4 | ---- | ---- | ---- | 33.4 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 2.1 |
| MEAN (2013 93 Entries) | | 2.7 | 154.6 | 148.9 | 150.9 | 150.4 | 34.3 | 33.1 | 33.8 | 34.4 | 1.3 | 1.5 | 1.6 | 1.7 | 2.7 | 3.4 | 3.1 | 3.2 | 1.9 |
| LSD (0.05) | | 1.0 | 0.6 | 1.2 | 1.1 | 0.9 | 1.2 | 1.5 | 1.6 | 1.1 | 1.0 | 2.6 | 2.2 | 1.6 | 1.3 | 1.9 | 1.7 | 1.3 | 1.1 |
| CV (%) | | 39.4 | 0.4 | 0.4 | 0.4 | 0.4 | 3.7 | 2.2 | 2.9 | 2.3 | 108.5 | 86.3 | 83.0 | 66.8 | 29.0 | 26.8 | 32.8 | 28.5 | 33.8 |

2013 Michigan State University Wheat Performance Trials (Including Experimentals)

Multi-year data are the most informative.

Table 3 : Multi-Year Performance Summary (Note: Tables sorted by 2013 Yield, red wheats grouped before white)

MSU makes no endorsement of any variety or brand.

| Name | Grain Color | Stripe Rust Score (0-9) | | | | Leaf Rust Score (0-9) | | | Stem Rust Score (0-9) | FHB (Scab) : Field Observation | | | | DON (ppm) in grain | | | | Black Point (tip) Percent | |
|-----------------|-------------|-------------------------|---------|---------|---------|-----------------------|---------|---------|-----------------------|--------------------------------|----------------------------|-----------------------------|-----------------|---------------------|------|---------|------|---------------------------|---------|
| | | Multi-Year Averages | | | | Multi-Year Averages | | | | Incidence (% of spikes) | Severity (% within spikes) | Index (% overall infection) | FHB Score (0-5) | Multi-Year Averages | | | 2012 | 2011-12 | |
| | | 2 YR | 3 YR | 4 YR | 2 YR | 3 YR | 2 YR | 3 YR | | | | | | 4 YR | | | | | |
| | | 2013 | 2012-13 | 2011-13 | 2010-13 | 2013 | 2012-13 | 2011-13 | | | | | | 2013 | 2012 | 2011-12 | | | 2010-12 |
| DF EX-2 | Red | 0.3 | ---- | ---- | ---- | 2.2 | ---- | ---- | ---- | 55.2 | 42.4 | 21.5 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| RS 972 | Red | 1.6 | 0.8 | ---- | ---- | 1.2 | 2.0 | ---- | ---- | 27.9 | 32.7 | 7.9 | 2.4 | 0.3 | ---- | ---- | ---- | 2.3 | ---- |
| Pioneer 25R40 | Red | 0.0 | 0.2 | ---- | ---- | 0.1 | 0.8 | ---- | ---- | 51.9 | 53.2 | 24.3 | 1.5 | 0.4 | ---- | ---- | ---- | 5.7 | ---- |
| DF 109R | Red | 0.0 | 0.1 | ---- | ---- | 0.1 | 1.0 | ---- | ---- | 40.5 | 40.0 | 18.1 | 1.4 | 0.3 | ---- | ---- | ---- | 5.6 | ---- |
| MCIA Red Dragon | Red | 3.2 | 3.1 | 2.1 | 2.0 | 0.9 | 1.8 | 2.0 | ---- | 13.5 | 46.4 | 8.8 | 2.0 | 0.2 | 0.4 | 4.0 | ---- | 3.2 | 5.7 |
| W 123 | Red | 3.8 | 3.8 | 2.5 | ---- | 0.8 | 1.4 | 2.5 | ---- | 12.1 | 60.3 | 8.2 | 1.4 | 0.4 | 0.6 | ---- | ---- | 5.4 | 14.2 |
| HS 284R | Red | 2.5 | ---- | ---- | ---- | 2.4 | ---- | ---- | ---- | 10.0 | 36.2 | 4.7 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MCIA EXP A | Red | 1.5 | ---- | ---- | ---- | 0.9 | ---- | ---- | ---- | 24.5 | 38.7 | 7.5 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| RS 907 | Red | 1.3 | ---- | ---- | ---- | 0.6 | ---- | ---- | ---- | 40.0 | 33.1 | 15.5 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| W 206 | Red | 3.2 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | 15.8 | 29.5 | 6.6 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MCIA EXP B | Red | 0.0 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | 32.8 | 32.1 | 12.5 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| W 125 | Red | 2.2 | 2.5 | ---- | ---- | 0.6 | 1.5 | ---- | ---- | 17.9 | 39.3 | 8.6 | 1.4 | 0.3 | ---- | ---- | ---- | 2.3 | ---- |
| W 207 | Red | 1.0 | ---- | ---- | ---- | 0.5 | ---- | ---- | ---- | 38.9 | 39.4 | 14.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| DF Sienna | Red | 2.4 | ---- | ---- | ---- | 1.0 | ---- | ---- | ---- | 12.9 | 56.2 | 10.3 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 9223 | Red | 0.3 | 1.0 | ---- | ---- | 1.2 | 1.6 | ---- | ---- | 26.7 | 46.0 | 12.8 | 1.5 | 0.3 | ---- | ---- | ---- | 4.8 | ---- |
| Heilman | Red | 3.2 | 3.6 | ---- | ---- | 0.8 | 2.4 | ---- | ---- | 8.2 | 32.0 | 2.5 | 1.8 | 0.2 | ---- | ---- | ---- | 3.2 | ---- |
| Hunker | Red | 0.5 | 0.8 | ---- | ---- | 0.2 | 0.4 | ---- | ---- | 27.7 | 37.4 | 12.0 | 1.4 | 0.2 | ---- | ---- | ---- | 3.0 | ---- |
| W 205 | Red | 0.8 | ---- | ---- | ---- | 0.4 | ---- | ---- | ---- | 35.5 | 25.9 | 10.7 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| AgriMAXX 438 | Red | 1.2 | ---- | ---- | ---- | 1.3 | ---- | ---- | ---- | 54.4 | 47.3 | 26.2 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| SC 1342™ | Red | 0.8 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | 44.3 | 42.5 | 20.3 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| D 512W | Red | 0.0 | ---- | ---- | ---- | 0.2 | ---- | ---- | ---- | 10.7 | 26.2 | 0.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| LCS 38686 | Red | 1.4 | ---- | ---- | ---- | 0.3 | ---- | ---- | ---- | 30.1 | 44.2 | 14.3 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Sienna | Red | 5.1 | 4.3 | 2.9 | ---- | 0.3 | 1.1 | 1.9 | ---- | 44.4 | 53.5 | 23.7 | 1.5 | 0.3 | 0.4 | ---- | ---- | 4.3 | 7.7 |
| Pioneer 25R34 | Red | 0.2 | 1.0 | 0.6 | ---- | 0.0 | 0.5 | 1.0 | ---- | 36.7 | 41.2 | 19.6 | 2.4 | 0.0 | 0.2 | ---- | ---- | 0.9 | 3.6 |
| DF EX-23 | Red | 4.5 | ---- | ---- | ---- | 0.3 | ---- | ---- | ---- | 40.1 | 30.9 | 12.5 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| LCS 34969 | Red | 2.8 | ---- | ---- | ---- | 0.7 | ---- | ---- | ---- | 18.0 | 45.2 | 6.1 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| AgriMAXX 413 | Red | 0.0 | 0.0 | ---- | ---- | 1.9 | 1.5 | ---- | ---- | 45.0 | 46.9 | 24.2 | 0.8 | 0.2 | ---- | ---- | ---- | 3.5 | ---- |
| MCIA EXP4 | Red | 2.1 | 2.0 | ---- | ---- | 0.4 | 1.5 | ---- | ---- | 30.3 | 43.2 | 14.0 | 1.7 | 0.2 | ---- | ---- | ---- | 2.0 | ---- |
| Sunburst | Red | 0.0 | 0.4 | 0.2 | 0.4 | 1.6 | 1.5 | 2.5 | 0.0 | 53.8 | 38.6 | 21.6 | 2.0 | 0.3 | 0.7 | 3.4 | 3.4 | 4.2 | 8.7 |
| DF EX-L1 | Red | 3.1 | ---- | ---- | ---- | 0.2 | ---- | ---- | ---- | 5.8 | 29.9 | 6.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| DF 111R EX | Red | 4.8 | ---- | ---- | ---- | 0.4 | ---- | ---- | ---- | 2.2 | 18.0 | 0.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MCIA Whale | Red | 0.0 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | 37.0 | 38.4 | 17.5 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| RS 979 | Red | 0.9 | 0.9 | ---- | ---- | 0.7 | 1.2 | ---- | ---- | 34.7 | 22.8 | 11.8 | 1.9 | 0.1 | ---- | ---- | ---- | 2.2 | ---- |
| 9042 | Red | 0.5 | 0.3 | 0.2 | 0.1 | 1.5 | 3.0 | 2.8 | ---- | 50.3 | 41.8 | 23.5 | 1.2 | 0.2 | 0.3 | 3.0 | ---- | 3.2 | 7.3 |
| GB 1202 | Red | 0.0 | ---- | ---- | ---- | 1.9 | ---- | ---- | ---- | 30.1 | 45.1 | 12.7 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| W 208 | Red | 5.3 | 6.1 | ---- | ---- | 0.0 | 0.5 | ---- | ---- | 0.0 | 31.3 | 0.2 | 2.0 | 0.2 | ---- | ---- | ---- | 4.7 | ---- |
| AgriMAXX 427 | Red | 1.2 | ---- | ---- | ---- | 1.3 | ---- | ---- | ---- | 37.6 | 48.0 | 20.2 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MCIA Blazer | Red | 0.8 | 1.9 | ---- | ---- | 0.2 | 0.5 | ---- | ---- | 51.3 | 36.3 | 20.3 | 1.9 | 0.2 | ---- | ---- | ---- | 2.8 | ---- |
| AgriMAXX 434 | Red | 2.9 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | 40.1 | 29.0 | 15.4 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| SY 483 | Red | 0.0 | ---- | ---- | ---- | 0.5 | ---- | ---- | ---- | 23.4 | 33.5 | 9.5 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| DF 105R | Red | 0.6 | 0.7 | 0.4 | ---- | 1.4 | 1.4 | 1.2 | ---- | 34.8 | 22.0 | 9.0 | 1.1 | 0.2 | 0.5 | ---- | ---- | 3.2 | 13.0 |
| EXP 101 | Red | 4.0 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | 0.0 | 18.1 | 0.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| D 492W | Red | 0.0 | 0.2 | ---- | ---- | 0.4 | 0.8 | ---- | ---- | 37.6 | 37.0 | 9.3 | 1.5 | 0.2 | ---- | ---- | ---- | 2.7 | ---- |
| SC 1321™ | Red | 0.0 | ---- | ---- | ---- | 1.1 | ---- | ---- | ---- | 23.5 | 50.1 | 12.1 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MCIA Red Devil | Red | 1.0 | 1.6 | 1.7 | 1.4 | 0.0 | 0.4 | 0.5 | ---- | 16.5 | 31.0 | 8.2 | 2.0 | 0.1 | 0.4 | 4.5 | ---- | 3.6 | 17.1 |
| Emmit | Red | 5.3 | 6.3 | 4.7 | 4.5 | 0.0 | 0.9 | 1.6 | 1.9 | 13.6 | 32.7 | 6.0 | 1.3 | 0.3 | 0.5 | 4.1 | 4.2 | 8.5 | 27.3 |

2013 Michigan State University Wheat Performance Trials (Including Experimentals)

Multi-year data are the most informative.

Table 3 : Multi-Year Performance Summary (Note: Tables sorted by 2013 Yield, red wheats grouped before white)

MSU makes no endorsement of any variety or brand.

| Name | Grain Color | Stripe Rust Score (0-9) | | | | Leaf Rust Score (0-9) | | | Stem Rust Score (0-9) | FHB (Scab) : Field Observation | | | | DON (ppm) in grain | | | | Black Point (tip) Percent | |
|-------------------------------|-------------|-------------------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-----------------------|--------------------------------|----------------------------|-----------------------------|-----------------|---------------------|-------------|-------------|-------------|---------------------------|-------------|
| | | Multi-Year Averages | | | | Multi-Year Averages | | | | Incidence (% of spikes) | Severity (% within spikes) | Index (% overall infection) | FHB Score (0-5) | Multi-Year Averages | | | Multi-Yr | | |
| | | 2013 | 2012-13 | 2011-13 | 2010-13 | 2013 | 2012-13 | 2011-13 | | | | | | 2012 | 2011-12 | 2010-12 | | 2009-12 | 2012 |
| | | 2 YR | 3 YR | 4 YR | 2 YR | 3 YR | 2009 | 2013 | | 2013 | 2013 | 2012 | 2012 | 2 YR | 3 YR | 4 YR | 2012 | 2011-12 | |
| LCS 37773 | Red | 0.0 | ---- | ---- | ---- | 1.0 | ---- | ---- | ---- | 33.3 | 51.6 | 12.8 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| S-1100 | Red | 1.4 | ---- | ---- | ---- | 0.5 | ---- | ---- | ---- | 23.8 | 28.1 | 6.4 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| S-1200 | Red | 0.7 | ---- | ---- | ---- | 0.9 | ---- | ---- | ---- | 44.2 | 25.8 | 14.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Pierson | Red | 6.5 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | 8.1 | 20.5 | 2.5 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Branson | Red | 0.4 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | 32.6 | 44.8 | 14.4 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| GB 1102 | Red | 1.1 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | 51.9 | 42.6 | 22.8 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 9053 | Red | 0.0 | 1.1 | 0.7 | ---- | 1.1 | 1.6 | 1.6 | ---- | 35.6 | 38.0 | 13.2 | 1.9 | 0.4 | 0.8 | ---- | ---- | 5.6 | 15.0 |
| Hopewell | Red | 3.0 | 3.5 | 2.3 | 1.9 | 0.7 | 2.3 | 2.6 | 1.5 | 28.0 | 41.2 | 10.7 | 1.2 | 0.5 | 0.8 | 6.6 | 7.1 | 3.1 | 4.2 |
| MSU Line F0036R | Red | 0.0 | ---- | ---- | ---- | 0.1 | ---- | ---- | ---- | 33.1 | 48.4 | 15.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Malabar | Red | 6.7 | 6.4 | 4.3 | 3.8 | 1.5 | 2.3 | 3.7 | 5.3 | 20.2 | 14.7 | 1.9 | 1.6 | 0.2 | 0.2 | 3.1 | 3.3 | 2.2 | 3.8 |
| SC 1302™ | Red | 2.0 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | 51.6 | 46.0 | 21.3 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| DANW1001 | Red | 2.4 | ---- | ---- | ---- | 0.4 | ---- | ---- | ---- | 0.0 | 19.7 | 0.0 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| D 506W | Red | 1.3 | 1.0 | ---- | ---- | 0.6 | 1.2 | ---- | ---- | 27.9 | 40.4 | 8.7 | 0.7 | 0.1 | ---- | ---- | ---- | 5.8 | ---- |
| DF 55R | Red | 4.8 | 5.1 | 3.4 | 2.9 | 0.3 | 0.5 | 0.6 | 0.7 | 56.7 | 52.2 | 29.3 | 2.2 | 0.2 | 0.5 | 2.9 | 2.8 | 4.4 | 12.3 |
| Pioneer 25R39 | Red | 0.0 | 0.1 | 0.5 | 0.6 | 0.9 | 1.2 | 1.4 | 0.6 | 22.9 | 40.2 | 11.8 | 1.6 | 0.3 | 0.4 | 3.8 | 4.2 | 1.9 | 3.6 |
| DF EX R-1 | Red | 6.2 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | 30.7 | 64.5 | 24.7 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Shirley | Red | 4.1 | 5.4 | 4.4 | ---- | 0.3 | 1.5 | 1.3 | ---- | 45.5 | 42.5 | 19.7 | 3.2 | 0.4 | 1.0 | ---- | ---- | 15.1 | 26.2 |
| AgriMAXX Exp 1342 | Red | 6.4 | ---- | ---- | ---- | 1.0 | ---- | ---- | ---- | 20.7 | 34.5 | 10.3 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MSU Line F0051R | Red | 0.0 | ---- | ---- | ---- | 0.8 | ---- | ---- | ---- | 16.3 | 28.7 | 4.8 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Red Ruby | Red | 6.0 | 6.8 | 5.4 | 4.8 | 0.2 | 2.0 | 2.4 | 4.4 | 47.0 | 50.6 | 23.8 | 1.6 | 0.2 | 0.5 | 5.1 | 5.7 | 7.4 | 8.1 |
| VA09W-73 | Red | 1.5 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | 37.2 | 46.8 | 19.3 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Merl | Red | 0.0 | 1.2 | 0.8 | 0.9 | 0.1 | 0.4 | 0.8 | 1.8 | 40.5 | 65.4 | 27.0 | 2.9 | 0.6 | 0.7 | 5.3 | 6.5 | 3.8 | 11.9 |
| DF 45R | Red | 8.5 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | 18.5 | 56.7 | 9.6 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| HY116-SRW | Red | 5.2 | 5.7 | 5.0 | 4.2 | 0.2 | 0.4 | 0.6 | 0.0 | 13.0 | 20.0 | 3.1 | 2.3 | 0.4 | 0.6 | 4.1 | 3.5 | 2.2 | 10.4 |
| SC 1341™ | Red | 1.2 | ---- | ---- | ---- | 0.7 | ---- | ---- | ---- | 12.7 | 43.5 | 3.7 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| AC Mountain | White | 5.8 | 6.1 | 5.2 | 4.4 | 0.4 | 1.0 | 1.8 | 4.2 | 19.9 | 43.6 | 10.2 | 2.6 | 0.5 | 1.1 | 6.6 | 6.6 | 5.6 | 17.6 |
| Pioneer 25W43 | White | 1.4 | 2.6 | 1.7 | 1.3 | 0.5 | 0.7 | 1.1 | 0.0 | 35.2 | 41.7 | 14.5 | 1.3 | 0.2 | 0.5 | 3.5 | 3.6 | 2.6 | 6.2 |
| DF 110W | White | 0.6 | 1.5 | ---- | ---- | 0.4 | 2.4 | ---- | ---- | 22.5 | 25.4 | 4.6 | 2.3 | 0.2 | ---- | ---- | ---- | 3.6 | ---- |
| MSU Line E6012 | White | 0.0 | 0.2 | 0.1 | 0.2 | 1.6 | 2.9 | 3.1 | 3.2 | 21.8 | 37.8 | 6.4 | 1.5 | 0.2 | 0.4 | 3.9 | 3.7 | 1.8 | 3.3 |
| Linebacker | White | 4.9 | 5.5 | 3.7 | 3.2 | 0.4 | 2.1 | 2.7 | 4.4 | 24.6 | 37.2 | 12.4 | 0.9 | 0.2 | 0.6 | 4.1 | 4.3 | 4.1 | 7.9 |
| Jupiter | White | 2.2 | 3.4 | 2.2 | 1.7 | 0.1 | 1.1 | 1.6 | 4.4 | 36.3 | 35.1 | 10.1 | 1.9 | 0.8 | 1.5 | 5.9 | 6.1 | 4.0 | 5.7 |
| Ambassador | White | 5.4 | 6.4 | 4.2 | 3.9 | 0.6 | 1.2 | 1.6 | 4.9 | 36.5 | 60.8 | 23.7 | 2.7 | 0.7 | 1.5 | 7.8 | 8.4 | 3.1 | 5.7 |
| HY319-SWW | White | 4.6 | 4.4 | 2.9 | 2.3 | 0.3 | 0.3 | 0.3 | ---- | 0.0 | 34.0 | 0.0 | 3.1 | 1.2 | 1.6 | 8.3 | ---- | 5.5 | 15.7 |
| VA09W-188WS | White | 0.1 | 0.3 | ---- | ---- | 0.2 | 0.7 | ---- | ---- | 47.8 | 47.0 | 20.5 | 2.3 | 0.4 | ---- | ---- | ---- | 1.1 | ---- |
| Ava | White | 4.1 | 3.1 | 2.0 | 1.8 | 0.6 | 1.0 | 1.2 | 4.0 | 0.0 | 10.1 | 0.0 | 1.2 | 0.1 | 0.5 | 2.0 | 2.1 | 3.7 | 25.4 |
| MSU Line F0039 | White | 5.6 | ---- | ---- | ---- | 0.6 | ---- | ---- | ---- | 21.4 | 42.3 | 6.6 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MSU Line F0065 | White | 3.9 | ---- | ---- | ---- | 0.0 | ---- | ---- | ---- | 35.2 | 41.7 | 17.4 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MSU Line F0014 | White | 0.0 | ---- | ---- | ---- | 0.7 | ---- | ---- | ---- | 49.9 | 47.2 | 23.7 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 9242W | White | 4.4 | 5.0 | 4.0 | ---- | 1.5 | 1.6 | 1.6 | ---- | 0.0 | 13.9 | 0.0 | 1.6 | 0.1 | 0.3 | ---- | ---- | 1.9 | 25.1 |
| W1062 | White | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.7 | 4.1 | 33.5 | 41.4 | 16.6 | 2.7 | 2.1 | 2.1 | 6.2 | 6.6 | 1.2 | 8.3 |
| 9362W | White | 0.6 | ---- | ---- | ---- | 0.5 | ---- | ---- | ---- | 7.5 | 17.3 | 1.4 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Aubrey | White | 5.6 | 5.8 | 3.9 | 3.1 | 0.2 | 1.7 | 2.0 | 3.9 | 29.1 | 48.2 | 11.6 | 2.1 | 0.1 | 0.8 | 6.0 | 5.4 | 1.4 | 15.0 |
| SY 901 | White | 0.0 | ---- | ---- | ---- | 1.3 | ---- | ---- | ---- | 41.9 | 32.8 | 15.2 | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MEAN (2013 93 Entries) | | 2.1 | 2.7 | 2.5 | 2.2 | 0.5 | 1.3 | 1.7 | 2.6 | 27.9 | 37.7 | 11.7 | 1.7 | 0.3 | 0.7 | 4.8 | 4.9 | 3.9 | 11.6 |
| LSD (0.05) | | 2.5 | 1.5 | 2.2 | 1.9 | 0.9 | 1.5 | 1.4 | 1.1 | 17.6 | 14.6 | 9.4 | 0.9 | 0.4 | 0.6 | 3.7 | 2.8 | 4.1 | 17.9 |
| CV (%) | | 86.3 | 28.2 | 54.9 | 59.5 | 104.9 | 60.5 | 51.8 | 25.7 | 54.1 | 33.2 | 68.4 | 38.4 | 106.3 | 41.7 | 47.4 | 40.5 | 64.4 | 75.5 |

2013 Michigan State University Wheat Performance Trials (Including Experimentals)

Multi-year data are the most informative.

Table 4 : Multi-Year Performance Summary (Note: Tables sorted by 2013 Yield, red wheats grouped before white)

MSU makes no endorsement of any variety or brand.

| Name | Grain Color | Milling and Baking Properties (2012 Crop and Earlier) | | | | | | | | | | | | | | | | | | |
|-----------------|-------------|-------------------------------------------------------|------|------|------|-----------------------------------|------|------|------|-----------------------------|------|------|------|----------------------|------|------|------|------------------------------|---------|------|
| | | Percent Flour Yield | | | | Percent Protein In Flour (at 14%) | | | | Softness Equivalent Percent | | | | Cookie Diameter (cm) | | | | Whole Grain Protein (at 12%) | | |
| | | Multi-Year Averages | | | | Multi-Year Averages | | | | Multi-Year Averages | | | | Multi-Year Averages | | | | Multi-Year Averages | | |
| | | 2012 | 2 YR | 3 YR | 4 YR | 2012 | 2 YR | 3 YR | 4 YR | 2012 | 2 YR | 3 YR | 4 YR | 2012 | 2 YR | 3 YR | 4 YR | 2012 | 2011-12 | 2 YR |
| DF EX-2 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | |
| RS 972 | Red | 72.4 | ---- | ---- | ---- | 6.1 | ---- | ---- | ---- | 65.6 | ---- | ---- | ---- | 19.5 | ---- | ---- | ---- | 7.2 | ---- | ---- |
| Pioneer 25R40 | Red | 69.4 | ---- | ---- | ---- | 6.3 | ---- | ---- | ---- | 61.8 | ---- | ---- | ---- | 18.7 | ---- | ---- | ---- | 7.8 | ---- | ---- |
| DF 109R | Red | 72.1 | ---- | ---- | ---- | 6.5 | ---- | ---- | ---- | 65.7 | ---- | ---- | ---- | 19.1 | ---- | ---- | ---- | 8.0 | ---- | ---- |
| MCIA Red Dragon | Red | 71.4 | 71.2 | 71.2 | ---- | 6.3 | 6.3 | 6.3 | ---- | 64.2 | 63.9 | 63.7 | ---- | 18.3 | 18.9 | 18.9 | ---- | 7.9 | 8.0 | 8.1 |
| W 123 | Red | 71.5 | 71.8 | ---- | ---- | 6.2 | 6.3 | ---- | ---- | 64.5 | 64.9 | ---- | ---- | 18.5 | 19.2 | ---- | ---- | 7.8 | 8.0 | ---- |
| HS 284R | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MCIA EXP A | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| RS 907 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| W 206 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MCIA EXP B | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| W 125 | Red | 71.5 | ---- | ---- | ---- | 6.6 | ---- | ---- | ---- | 64.4 | ---- | ---- | ---- | 19.1 | ---- | ---- | ---- | 7.9 | ---- | ---- |
| W 207 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| DF Sienna | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 9223 | Red | 72.5 | ---- | ---- | ---- | 6.1 | ---- | ---- | ---- | 66.3 | ---- | ---- | ---- | 19.3 | ---- | ---- | ---- | 7.6 | ---- | ---- |
| Heilman | Red | 70.9 | ---- | ---- | ---- | 6.4 | ---- | ---- | ---- | 63.6 | ---- | ---- | ---- | 19.0 | ---- | ---- | ---- | 8.0 | ---- | ---- |
| Hunker | Red | 72.1 | ---- | ---- | ---- | 5.9 | ---- | ---- | ---- | 65.2 | ---- | ---- | ---- | 19.4 | ---- | ---- | ---- | 7.3 | ---- | ---- |
| W 205 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| AgriMAXX 438 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| SC 1342™ | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| D 512W | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| LCS 38686 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Sienna | Red | 71.4 | 71.6 | ---- | ---- | 6.5 | 6.5 | ---- | ---- | 64.3 | 63.6 | ---- | ---- | 18.9 | 19.2 | ---- | ---- | 8.2 | 8.3 | ---- |
| Pioneer 25R34 | Red | 70.7 | 71.0 | ---- | ---- | 5.8 | 6.2 | ---- | ---- | 63.9 | 63.7 | ---- | ---- | 19.5 | 19.8 | ---- | ---- | 7.2 | 7.6 | ---- |
| DF EX-23 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| LCS 34969 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| AgriMAXX 413 | Red | 71.7 | ---- | ---- | ---- | 6.7 | ---- | ---- | ---- | 58.7 | ---- | ---- | ---- | 19.4 | ---- | ---- | ---- | 8.4 | ---- | ---- |
| MCIA EXP4 | Red | 69.5 | ---- | ---- | ---- | 7.0 | ---- | ---- | ---- | 57.1 | ---- | ---- | ---- | 18.5 | ---- | ---- | ---- | 9.0 | ---- | ---- |
| Sunburst | Red | 65.4 | 68.7 | 67.5 | 67.0 | 6.7 | 6.6 | 6.6 | 6.7 | 51.1 | 58.2 | 57.4 | 55.3 | 17.3 | 18.4 | 18.4 | 18.2 | 8.5 | 8.4 | 8.4 |
| DF EX-L1 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| DF 111R EX | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MCIA Whale | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| RS 979 | Red | 69.6 | ---- | ---- | ---- | 5.7 | ---- | ---- | ---- | 65.6 | ---- | ---- | ---- | 19.8 | ---- | ---- | ---- | 7.2 | ---- | ---- |
| 9042 | Red | 69.6 | 69.6 | 69.4 | ---- | 6.7 | 6.6 | 6.5 | ---- | 59.6 | 60.4 | 60.8 | ---- | 18.6 | 18.9 | 18.9 | ---- | 7.9 | 7.8 | 7.9 |
| GB 1202 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| W 208 | Red | 69.0 | ---- | ---- | ---- | 6.5 | ---- | ---- | ---- | 62.2 | ---- | ---- | ---- | 19.0 | ---- | ---- | ---- | 7.8 | ---- | ---- |
| AgriMAXX 427 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MCIA Blazer | Red | 67.8 | ---- | ---- | ---- | 7.0 | ---- | ---- | ---- | 48.1 | ---- | ---- | ---- | 17.5 | ---- | ---- | ---- | 9.1 | ---- | ---- |
| AgriMAXX 434 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| SY 483 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| DF 105R | Red | 71.2 | 71.7 | ---- | ---- | 6.5 | 6.4 | ---- | ---- | 59.6 | 60.2 | ---- | ---- | 19.1 | 19.5 | ---- | ---- | 7.9 | 7.9 | ---- |
| EXP 101 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| D 492W | Red | 71.2 | ---- | ---- | ---- | 6.5 | ---- | ---- | ---- | 60.7 | ---- | ---- | ---- | 19.6 | ---- | ---- | ---- | 8.1 | ---- | ---- |
| SC 1321™ | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MCIA Red Devil | Red | 68.2 | 68.6 | 68.8 | ---- | 6.2 | 6.2 | 6.3 | ---- | 62.6 | 63.8 | 62.7 | ---- | 18.8 | 19.1 | 19.1 | ---- | 7.7 | 7.6 | 7.9 |
| Emmit | Red | 70.9 | 71.1 | 71.3 | 71.6 | 6.8 | 6.6 | 6.6 | 6.7 | 57.8 | 58.5 | 58.3 | 57.8 | 18.7 | 19.0 | 19.2 | 19.2 | 8.8 | 8.8 | 8.8 |

2013 Michigan State University Wheat Performance Trials (Including Experimentals)

Multi-year data are the most informative.

MSU makes no endorsement of any variety or brand.

Table 4 : Multi-Year Performance Summary (Note: Tables sorted by 2013 Yield, red wheats grouped before white)

| Name | Grain Color | Milling and Baking Properties (2012 Crop and Earlier) | | | | | | | | | | | | | | | | | | |
|-------------------------------|-------------|-------------------------------------------------------|-------------|-------------|-------------|-----------------------------------|------------|------------|------------|-----------------------------|-------------|-------------|-------------|----------------------|-------------|-------------|-------------|------------------------------|------------|------------|
| | | Percent Flour Yield | | | | Percent Protein In Flour (at 14%) | | | | Softness Equivalent Percent | | | | Cookie Diameter (cm) | | | | Whole Grain Protein (at 12%) | | |
| | | Multi-Year Averages | | | | Multi-Year Averages | | | | Multi-Year Averages | | | | Multi-Year Averages | | | | Multi-Year Averages | | |
| | | 2012 | 2011-12 | 2010-12 | 2009-12 | 2012 | 2011-12 | 2010-12 | 2009-12 | 2012 | 2011-12 | 2010-12 | 2009-12 | 2012 | 2011-12 | 2010-12 | 2009-12 | 2012 | 2011-12 | 2010-12 |
| LCS 37773 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| S-1100 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| S-1200 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Pierson | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Branson | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| GB 1102 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 9053 | Red | 69.7 | 69.8 | ---- | ---- | 6.5 | 6.3 | ---- | ---- | 62.1 | 63.0 | ---- | ---- | 19.1 | 19.4 | ---- | ---- | 7.7 | 7.6 | ---- |
| Hopewell | Red | 68.6 | 68.6 | 68.4 | 68.5 | 6.5 | 6.7 | 6.7 | 6.7 | 61.9 | 61.2 | 61.9 | 61.7 | 18.8 | 19.2 | 19.3 | 19.2 | 8.5 | 8.6 | 8.8 |
| MSU Line F0036R | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Malabar | Red | 70.3 | 69.9 | 69.9 | 69.9 | 6.2 | 6.2 | 6.3 | 6.4 | 60.3 | 60.0 | 60.1 | 59.6 | 18.9 | 19.1 | 19.1 | 19.2 | 8.0 | 8.0 | 8.2 |
| SC 1302™ | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| DANW1001 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| D 506W | Red | 69.5 | ---- | ---- | ---- | 6.6 | ---- | ---- | ---- | 64.7 | ---- | ---- | ---- | 18.5 | ---- | ---- | ---- | 8.4 | ---- | ---- |
| DF 55R | Red | 71.4 | 71.5 | 71.3 | 71.4 | 6.9 | 6.7 | 6.7 | 6.8 | 57.7 | 58.6 | 59.1 | 58.7 | 19.0 | 19.2 | 19.4 | 19.3 | 9.3 | 9.0 | 8.9 |
| Pioneer 25R39 | Red | 69.6 | 69.8 | 69.6 | 69.6 | 5.9 | 6.2 | 6.1 | 6.2 | 60.3 | 59.5 | 59.5 | 59.1 | 18.4 | 18.8 | 18.8 | 18.6 | 7.5 | 7.9 | 8.0 |
| DF EX R-1 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Shirley | Red | 70.1 | 70.2 | ---- | ---- | 6.6 | 6.5 | ---- | ---- | 57.0 | 57.2 | ---- | ---- | 19.3 | 19.5 | ---- | ---- | 8.7 | 8.6 | ---- |
| AgriMAXX Exp 1342 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MSU Line F0051R | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Red Ruby | Red | 70.2 | 70.0 | 70.0 | 70.1 | 6.2 | 6.5 | 6.6 | 6.6 | 64.3 | 63.5 | 63.1 | 62.7 | 18.9 | 19.1 | 19.3 | 19.3 | 8.1 | 8.4 | 8.5 |
| VA09W-73 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Merl | Red | 70.0 | 70.3 | 70.4 | 70.5 | 6.5 | 6.7 | 6.8 | 6.9 | 60.4 | 59.7 | 59.3 | 59.1 | 19.1 | 19.2 | 19.2 | 19.2 | 7.7 | 8.1 | 8.3 |
| DF 45R | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| HY116-SRW | Red | 67.6 | 67.6 | 67.6 | 67.8 | 6.4 | 6.5 | 6.6 | 6.7 | 56.2 | 56.0 | 56.3 | 55.0 | 18.4 | 18.9 | 19.1 | 19.1 | 8.5 | 8.7 | 8.7 |
| SC 1341™ | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| AC Mountain | White | 70.7 | 71.1 | 71.1 | 71.2 | 6.1 | 6.3 | 6.3 | 6.3 | 63.4 | 62.1 | 62.1 | 62.2 | 19.1 | 19.3 | 19.4 | 19.5 | 7.6 | 7.9 | 8.0 |
| Pioneer 25W43 | White | 69.7 | 70.0 | 70.1 | 70.0 | 6.5 | 6.6 | 6.8 | 6.8 | 61.3 | 60.1 | 59.6 | 59.6 | 19.3 | 19.3 | 19.2 | 19.3 | 7.8 | 8.1 | 8.3 |
| DF 110W | White | 71.3 | ---- | ---- | ---- | 7.0 | ---- | ---- | ---- | 58.9 | ---- | ---- | ---- | 18.8 | ---- | ---- | ---- | 9.1 | ---- | ---- |
| MSU Line E6012 | White | 71.6 | 71.8 | 71.8 | 71.7 | 6.4 | 6.6 | 6.6 | 6.5 | 63.7 | 63.2 | 63.2 | 62.5 | 19.1 | 19.5 | 19.2 | 19.4 | 7.9 | 8.2 | 8.3 |
| Linebacker | White | 69.9 | 70.5 | 70.5 | 70.5 | 6.7 | 6.6 | 6.7 | 6.6 | 62.0 | 61.5 | 61.1 | 61.6 | 19.2 | 19.6 | 19.5 | 19.6 | 8.5 | 8.4 | 8.4 |
| Jupiter | White | 71.6 | 71.7 | 71.8 | 71.7 | 5.5 | 5.6 | 5.6 | 5.7 | 63.6 | 63.6 | 63.4 | 63.4 | 19.2 | 19.4 | 19.4 | 19.4 | 7.0 | 7.2 | 7.3 |
| Ambassador | White | 73.0 | 73.0 | 72.5 | 72.5 | 6.1 | 6.1 | 6.2 | 6.3 | 63.2 | 62.8 | 62.8 | 61.8 | 19.6 | 19.7 | 19.7 | 19.6 | 7.8 | 8.0 | 8.0 |
| HY319-SWW | White | 69.2 | 69.7 | 69.7 | ---- | 6.6 | 6.6 | 6.7 | ---- | 58.7 | 58.8 | 59.0 | ---- | 18.3 | 18.8 | 18.9 | ---- | 8.5 | 8.6 | 8.7 |
| VA09W-188WS | White | 71.5 | ---- | ---- | ---- | 6.1 | ---- | ---- | ---- | 59.6 | ---- | ---- | ---- | 18.2 | ---- | ---- | ---- | 7.7 | ---- | ---- |
| Ava | White | 69.7 | 69.9 | 70.0 | 70.1 | 6.0 | 6.1 | 6.2 | 6.2 | 65.9 | 65.0 | 64.2 | 63.9 | 19.2 | 19.5 | 19.6 | 19.6 | 7.5 | 7.7 | 7.9 |
| MSU Line F0039 | White | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MSU Line F0065 | White | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MSU Line F0014 | White | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 9242W | White | 69.5 | 69.8 | ---- | ---- | 5.9 | 6.2 | ---- | ---- | 63.6 | 62.9 | ---- | ---- | 19.5 | 19.7 | ---- | ---- | 7.8 | 8.0 | ---- |
| W1062 | White | 72.2 | 72.6 | 72.5 | 72.5 | 6.0 | 6.1 | 6.2 | 6.2 | 66.6 | 65.6 | 65.4 | 65.3 | 19.2 | 19.6 | 19.9 | 20.0 | 7.4 | 7.7 | 7.8 |
| 9362W | White | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Aubrey | White | 70.2 | 70.6 | 71.0 | 71.1 | 6.6 | 6.9 | 6.9 | 7.0 | 62.8 | 60.7 | 61.8 | 61.6 | 18.2 | 18.4 | 18.5 | 18.6 | 8.6 | 8.8 | 8.8 |
| SY 901 | White | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MEAN (2013 93 Entries) | | 70.4 | 70.5 | 70.3 | 70.4 | 6.4 | 6.4 | 6.5 | 6.5 | 61.5 | 61.5 | 61.1 | 60.6 | 18.9 | 19.2 | 19.2 | 19.2 | 8.0 | 8.1 | 8.3 |
| LSD (0.05) | | ---- | 1.8 | 1.5 | 1.2 | ---- | 0.5 | 0.3 | 0.3 | ---- | 4.5 | 3.3 | 3.0 | ---- | 0.6 | 0.5 | 0.5 | ---- | 0.5 | 0.4 |
| CV (%) | | ---- | 1.3 | 1.3 | 1.2 | ---- | 3.6 | 2.8 | 3.1 | ---- | 3.6 | 3.2 | 3.4 | ---- | 1.4 | 1.5 | 1.7 | ---- | 3.2 | 3.0 |

2013 Michigan State University Wheat Performance Trials (Including Experimentals)

Multi-year data are the most informative.

MSU makes no endorsement of any variety or brand.

Table 5 : Multi-Year Performance Summary (Note: Tables sorted by 2013 Yield, red wheats grouped before white)

| Name | Grain Color | Milling and Baking Properties (2012 Crop and Earlier) | | | | | | | | | | | | | | | | | | |
|-----------------|-------------|-------------------------------------------------------|------|------|------|--------------------------|------|------|------|---------------------|------|------|------|---------------------------|-------|-------|------|------------------------------|---------|------|
| | | Water SRC (%) | | | | Sodium Carbonate SRC (%) | | | | Sucrose SRC (%) | | | | As Is Lactic Acid SRC (%) | | | | Whole Grain Hardness (0-100) | | |
| | | Multi-Year Averages | | | | Multi-Year Averages | | | | Multi-Year Averages | | | | Multi-Year Averages | | | | Multi-Year Averages | | |
| | | 2012 | 2 YR | 3 YR | 4 YR | 2012 | 2 YR | 3 YR | 4 YR | 2012 | 2 YR | 3 YR | 4 YR | 2012 | 2 YR | 3 YR | 4 YR | 2012 | 2011-12 | 2 YR |
| DF EX-2 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | |
| RS 972 | Red | 51.2 | ---- | ---- | ---- | 63.9 | ---- | ---- | ---- | 79.1 | ---- | ---- | ---- | 97.8 | ---- | ---- | ---- | 7.6 | ---- | |
| Pioneer 25R40 | Red | 54.4 | ---- | ---- | ---- | 68.8 | ---- | ---- | ---- | 87.0 | ---- | ---- | ---- | 102.6 | ---- | ---- | ---- | 12.4 | ---- | |
| DF 109R | Red | 51.3 | ---- | ---- | ---- | 65.1 | ---- | ---- | ---- | 78.8 | ---- | ---- | ---- | 99.9 | ---- | ---- | ---- | 9.5 | ---- | |
| MCIA Red Dragon | Red | 51.6 | 53.6 | 53.3 | ---- | 66.4 | 66.5 | 66.5 | ---- | 86.4 | 84.3 | 83.8 | ---- | 102.7 | 96.4 | 92.2 | ---- | 3.9 | 4.0 | 7.0 |
| W 123 | Red | 52.9 | 52.7 | ---- | ---- | 67.6 | 66.9 | ---- | ---- | 87.1 | 84.5 | ---- | ---- | 99.4 | 98.9 | ---- | ---- | 5.3 | 9.2 | ---- |
| HS 284R | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MCIA EXP A | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| RS 907 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| W 206 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MCIA EXP B | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| W 125 | Red | 52.3 | ---- | ---- | ---- | 66.4 | ---- | ---- | ---- | 86.1 | ---- | ---- | ---- | 107.2 | ---- | ---- | ---- | 5.4 | ---- | ---- |
| W 207 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| DF Sienna | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 9223 | Red | 51.9 | ---- | ---- | ---- | 65.6 | ---- | ---- | ---- | 80.9 | ---- | ---- | ---- | 99.2 | ---- | ---- | ---- | 8.0 | ---- | ---- |
| Heilman | Red | 51.7 | ---- | ---- | ---- | 65.7 | ---- | ---- | ---- | 85.7 | ---- | ---- | ---- | 101.6 | ---- | ---- | ---- | 5.1 | ---- | ---- |
| Hunker | Red | 51.9 | ---- | ---- | ---- | 65.4 | ---- | ---- | ---- | 80.4 | ---- | ---- | ---- | 96.0 | ---- | ---- | ---- | 7.1 | ---- | ---- |
| W 205 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| AgriMAXX 438 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| SC 1342™ | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| D 512W | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| LCS 38686 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Sienna | Red | 52.4 | 52.6 | ---- | ---- | 67.5 | 66.7 | ---- | ---- | 84.7 | 85.1 | ---- | ---- | 108.3 | 101.2 | ---- | ---- | 5.4 | 4.3 | ---- |
| Pioneer 25R34 | Red | 51.3 | 51.9 | ---- | ---- | 64.7 | 64.6 | ---- | ---- | 84.2 | 81.2 | ---- | ---- | 93.4 | 92.7 | ---- | ---- | 7.9 | 7.1 | ---- |
| DF EX-23 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| LCS 34969 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| AgriMAXX 413 | Red | 51.9 | ---- | ---- | ---- | 65.5 | ---- | ---- | ---- | 80.2 | ---- | ---- | ---- | 85.4 | ---- | ---- | ---- | 20.8 | ---- | ---- |
| MCIA EXP4 | Red | 52.8 | ---- | ---- | ---- | 65.8 | ---- | ---- | ---- | 88.6 | ---- | ---- | ---- | 118.3 | ---- | ---- | ---- | 20.2 | ---- | ---- |
| Sunburst | Red | 59.4 | 56.0 | 57.0 | 57.6 | 77.1 | 71.3 | 72.1 | 73.0 | 96.2 | 89.1 | 89.5 | 90.4 | 98.0 | 98.0 | 93.2 | 92.3 | 30.9 | 22.0 | 24.4 |
| DF EX-L1 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| DF 111R EX | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MCIA Whale | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| RS 979 | Red | 54.4 | ---- | ---- | ---- | 66.9 | ---- | ---- | ---- | 81.9 | ---- | ---- | ---- | 81.0 | ---- | ---- | ---- | 15.5 | ---- | ---- |
| 9042 | Red | 54.7 | 55.4 | 55.5 | ---- | 72.9 | 72.2 | 72.2 | ---- | 92.0 | 90.7 | 89.7 | ---- | 112.2 | 111.0 | 108.1 | ---- | 19.4 | 17.3 | 19.7 |
| GB 1202 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| W 208 | Red | 54.0 | ---- | ---- | ---- | 64.8 | ---- | ---- | ---- | 84.0 | ---- | ---- | ---- | 82.3 | ---- | ---- | ---- | 7.4 | ---- | ---- |
| AgriMAXX 427 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MCIA Blazer | Red | 57.7 | ---- | ---- | ---- | 70.8 | ---- | ---- | ---- | 95.3 | ---- | ---- | ---- | 106.7 | ---- | ---- | ---- | 17.6 | ---- | ---- |
| AgriMAXX 434 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| SY 483 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| DF 105R | Red | 51.8 | 52.3 | ---- | ---- | 66.6 | 66.8 | ---- | ---- | 79.6 | 80.7 | ---- | ---- | 86.9 | 82.0 | ---- | ---- | 21.6 | 19.6 | ---- |
| EXP 101 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| D 492W | Red | 51.4 | ---- | ---- | ---- | 66.3 | ---- | ---- | ---- | 80.6 | ---- | ---- | ---- | 86.3 | ---- | ---- | ---- | 20.7 | ---- | ---- |
| SC 1321™ | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MCIA Red Devil | Red | 54.7 | 55.2 | 55.3 | ---- | 69.3 | 68.6 | 68.0 | ---- | 87.9 | 85.0 | 84.9 | ---- | 91.7 | 89.1 | 87.1 | ---- | 17.6 | 15.3 | 17.0 |
| Emmit | Red | 53.6 | 53.7 | 54.0 | 53.5 | 67.9 | 67.9 | 66.8 | 66.6 | 83.6 | 83.6 | 82.5 | 81.6 | 79.1 | 79.3 | 74.8 | 75.8 | 20.5 | 16.4 | 17.9 |

2013 Michigan State University Wheat Performance Trials (Including Experimentals)

Multi-year data are the most informative.

MSU makes no endorsement of any variety or brand.

Table 5 : Multi-Year Performance Summary (Note: Tables sorted by 2013 Yield, red wheats grouped before white)

| Name | Grain Color | Milling and Baking Properties (2012 Crop and Earlier) | | | | | | | | | | | | | | | | | | |
|-------------------------------|-------------|-------------------------------------------------------|-------------|-------------|-------------|--------------------------|-------------|-------------|-------------|---------------------|-------------|-------------|-------------|---------------------------|-------------|-------------|-------------|------------------------------|-------------|-------------|
| | | Water SRC (%) | | | | Sodium Carbonate SRC (%) | | | | Sucrose SRC (%) | | | | As Is Lactic Acid SRC (%) | | | | Whole Grain Hardness (0-100) | | |
| | | Multi-Year Averages | | | | Multi-Year Averages | | | | Multi-Year Averages | | | | Multi-Year Averages | | | | Multi-Year Averages | | |
| | | 2012 | 2 YR | 3 YR | 4 YR | 2012 | 2 YR | 3 YR | 4 YR | 2012 | 2 YR | 3 YR | 4 YR | 2012 | 2 YR | 3 YR | 4 YR | 2012 | 2011-12 | 2 YR |
| LCS 37773 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| S-1100 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| S-1200 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Pierson | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Branson | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| GB 1102 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 9053 | Red | 53.3 | 53.7 | ---- | ---- | 69.4 | 70.0 | ---- | ---- | 88.5 | 87.9 | ---- | ---- | 89.8 | 90.1 | ---- | ---- | 18.8 | 15.6 | ---- |
| Hopewell | Red | 54.3 | 54.6 | 54.3 | 54.1 | 69.1 | 69.2 | 68.7 | 68.6 | 83.9 | 83.2 | 83.3 | 83.3 | 102.4 | 101.4 | 99.8 | 100.7 | 16.9 | 16.1 | 17.9 |
| MSU Line F0036R | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Malabar | Red | 55.2 | 55.5 | 55.0 | 54.7 | 68.8 | 68.7 | 68.0 | 67.9 | 84.9 | 83.5 | 83.6 | 83.8 | 93.0 | 92.0 | 91.4 | 94.4 | 10.7 | 9.9 | 11.6 |
| SC 1302™ | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| DANW1001 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| D 506W | Red | 52.0 | ---- | ---- | ---- | 66.3 | ---- | ---- | ---- | 80.9 | ---- | ---- | ---- | 87.6 | ---- | ---- | ---- | 21.3 | ---- | ---- |
| DF 55R | Red | 53.2 | 53.7 | 53.4 | 53.1 | 64.8 | 65.6 | 64.7 | 64.7 | 82.7 | 84.5 | 83.8 | 83.2 | 95.3 | 92.3 | 90.0 | 90.4 | 8.1 | 6.2 | 9.5 |
| Pioneer 25R39 | Red | 56.8 | 57.2 | 56.8 | 56.5 | 71.9 | 71.1 | 70.3 | 70.2 | 87.9 | 86.3 | 84.8 | 85.1 | 86.1 | 85.7 | 82.3 | 83.8 | 10.5 | 10.6 | 11.8 |
| DF EX R-1 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Shirley | Red | 55.0 | 55.6 | ---- | ---- | 69.6 | 70.1 | ---- | ---- | 86.7 | 86.4 | ---- | ---- | 77.1 | 77.7 | ---- | ---- | 19.5 | 17.7 | ---- |
| AgriMAXX Exp 1342 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MSU Line F0051R | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Red Ruby | Red | 53.3 | 54.0 | 54.0 | 54.1 | 67.7 | 67.6 | 67.2 | 67.3 | 84.1 | 83.7 | 83.3 | 83.5 | 94.2 | 96.5 | 94.5 | 96.6 | 7.8 | 7.5 | 10.8 |
| VA09W-73 | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Merl | Red | 53.9 | 54.8 | 54.8 | 54.6 | 70.3 | 70.0 | 69.8 | 69.8 | 85.1 | 84.5 | 83.4 | 83.6 | 87.0 | 87.2 | 86.5 | 88.3 | 22.3 | 22.6 | 24.5 |
| DF 45R | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| HY116-SRW | Red | 55.2 | 55.6 | 55.5 | 55.1 | 68.8 | 69.4 | 68.7 | 68.5 | 85.0 | 86.0 | 84.7 | 84.4 | 83.8 | 81.7 | 78.8 | 80.2 | 19.8 | 18.8 | 20.6 |
| SC 1341™ | Red | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| AC Mountain | White | 51.0 | 51.2 | 51.4 | 51.5 | 63.4 | 64.1 | 63.5 | 63.4 | 79.2 | 79.5 | 78.7 | 78.5 | 81.9 | 80.4 | 77.0 | 79.6 | 9.1 | 6.8 | 7.9 |
| Pioneer 25W43 | White | 53.4 | 53.3 | 53.0 | 52.7 | 66.6 | 65.7 | 65.0 | 65.3 | 83.7 | 83.7 | 82.8 | 82.7 | 99.3 | 98.6 | 98.5 | 98.2 | 9.4 | 9.0 | 10.9 |
| DF 110W | White | 53.1 | ---- | ---- | ---- | 66.4 | ---- | ---- | ---- | 82.6 | ---- | ---- | ---- | 80.1 | ---- | ---- | ---- | 15.9 | ---- | ---- |
| MSU Line E6012 | White | 52.7 | 53.0 | 53.0 | 53.0 | 66.4 | 65.6 | 65.3 | 65.8 | 82.7 | 81.4 | 81.5 | 81.3 | 95.0 | 94.2 | 92.7 | 92.9 | 14.1 | 14.1 | 16.3 |
| Linebacker | White | 50.8 | 51.2 | 51.1 | 51.3 | 63.6 | 64.3 | 63.7 | 63.9 | 77.8 | 79.3 | 79.0 | 78.6 | 85.2 | 84.1 | 80.3 | 83.9 | 9.7 | 9.6 | 13.2 |
| Jupiter | White | 54.9 | 55.5 | 55.2 | 55.5 | 68.8 | 68.4 | 67.6 | 67.8 | 81.2 | 80.8 | 80.2 | 80.2 | 82.8 | 84.5 | 82.5 | 88.6 | 10.1 | 9.9 | 11.8 |
| Ambassador | White | 51.7 | 51.7 | 51.6 | 51.3 | 64.7 | 65.4 | 64.9 | 64.8 | 77.8 | 79.1 | 78.8 | 78.7 | 83.3 | 81.0 | 78.2 | 80.1 | -0.1 | -2.1 | 1.1 |
| HY319-SWW | White | 54.5 | 55.5 | 55.4 | ---- | 69.5 | 70.0 | 69.3 | ---- | 84.7 | 84.8 | 83.9 | ---- | 89.0 | 87.1 | 84.5 | ---- | 18.0 | 17.9 | 19.6 |
| VA09W-188WS | White | 55.6 | ---- | ---- | ---- | 70.0 | ---- | ---- | ---- | 85.7 | ---- | ---- | ---- | 82.6 | ---- | ---- | ---- | 14.5 | ---- | ---- |
| Ava | White | 51.5 | 52.1 | 52.2 | 51.9 | 64.6 | 64.7 | 64.4 | 64.2 | 80.3 | 80.9 | 80.4 | 79.8 | 78.1 | 77.2 | 73.1 | 76.0 | 0.3 | 0.4 | 4.9 |
| MSU Line F0039 | White | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MSU Line F0065 | White | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MSU Line F0014 | White | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 9242W | White | 55.3 | 54.7 | ---- | ---- | 67.8 | 67.3 | ---- | ---- | 81.1 | 82.0 | ---- | ---- | 83.5 | 84.8 | ---- | ---- | 3.7 | 3.0 | ---- |
| W1062 | White | 50.8 | 51.4 | 51.3 | 51.2 | 63.2 | 63.7 | 63.1 | 62.9 | 78.5 | 78.5 | 78.2 | 77.9 | 92.3 | 95.5 | 92.1 | 95.3 | 10.0 | 10.1 | 13.9 |
| 9362W | White | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Aubrey | White | 53.2 | 53.2 | 53.0 | 52.4 | 67.8 | 68.7 | 68.1 | 67.6 | 83.1 | 85.3 | 85.0 | 83.9 | 93.2 | 94.3 | 93.2 | 93.7 | 8.5 | 9.0 | 10.0 |
| SY 901 | White | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| MEAN (2013 93 Entries) | | 53.3 | 53.8 | 53.9 | 53.6 | 67.3 | 67.6 | 67.2 | 66.8 | 84.0 | 83.6 | 83.0 | 82.3 | 92.4 | 90.2 | 87.8 | 88.4 | 12.5 | 11.3 | 13.7 |
| LSD (0.05) | | ---- | 2.5 | 1.8 | 1.5 | ---- | 3.6 | 2.5 | 2.1 | ---- | 5.4 | 3.5 | 3.0 | ---- | 6.6 | 5.0 | 5.8 | ---- | 6.0 | 4.4 |
| CV (%) | | ---- | 2.2 | 2.0 | 2.0 | ---- | 2.6 | 2.3 | 2.3 | ---- | 3.1 | 2.6 | 2.5 | ---- | 3.6 | 3.4 | 4.6 | ---- | 26.0 | 19.3 |

2013 Michigan State University Wheat Performance Trials (Including Experimentals)

Multi-year data are the most informative.

Table 6 : Tuscola High Management: Single Site Summary (Note: Tables sorted by 2013 Yield, red wheats grouped before white)

MSU makes no endorsement of any variety or brand.

| Name | Grain Color | Commercially Available | Yield: Bushels/Acre | Test Weight: lbs/Bushel | % Grain Moisture at Harvest | Lodging Score (0-9) (0=none) | Organization |
|-----------------------|-------------|------------------------|---------------------|-------------------------|-----------------------------|------------------------------|------------------------------------------|
| MCIA Red Dragon | Red | Yes | 123.4 | 59.6 | 12.5 | 2.4 | Michigan Crop Improvement Association |
| MCIA Whale | Red | No | 122.4 | 61.0 | 13.3 | 2.2 | Michigan Crop Improvement Association |
| DF Sienna | Red | Yes | 121.8 | 59.7 | 12.5 | 1.6 | D.F. Seeds, Inc. |
| Sienna | Red | Yes | 120.2 | 59.9 | 12.6 | 2.1 | Direct Enterprises |
| GB 1202 | Red | Yes | 120.0 | 60.5 | 11.8 | 1.7 | G.B. Seeds and Service |
| Sunburst | Red | Yes | 120.0 | 63.2 | 13.2 | 1.3 | Michigan Crop Improvement Association |
| D 492W | Red | Yes | 119.8 | 59.2 | 12.5 | 2.2 | Bio-Town Seeds, Inc. |
| W 206 | Red | Yes | 119.7 | 61.9 | 12.7 | 1.5 | Wellman Seeds, Inc. |
| DF 111R EX | Red | Yes | 119.5 | 61.3 | 12.4 | 3.1 | D.F. Seeds, Inc. |
| AgriMAXX 434 | Red | Yes | 119.4 | 59.9 | 12.2 | 1.7 | AgriMAXX Wheat Company |
| W 125 | Red | Yes | 119.3 | 60.1 | 12.3 | 1.7 | Wellman Seeds, Inc. |
| LCS 38686 | Red | No | 118.3 | 61.7 | 12.6 | 5.0 | Limagrain Cereal Seeds |
| W 205 | Red | No | 118.3 | 60.5 | 13.6 | 2.5 | Wellman Seeds, Inc. |
| Heilman | Red | Yes | 118.1 | 59.8 | 12.2 | 4.3 | Steyer Seeds |
| DF EX R-1 | Red | No | 117.7 | 58.6 | 11.9 | 3.8 | D.F. Seeds, Inc. |
| AgriMAXX 438 | Red | Yes | 117.2 | 58.9 | 12.7 | 5.0 | AgriMAXX Wheat Company |
| Pioneer 25R34 | Red | Yes | 117.1 | 59.6 | 12.4 | 5.1 | DuPont Pioneer |
| W 207 | Red | Yes | 117.1 | 58.3 | 12.8 | 3.8 | Wellman Seeds, Inc. |
| D 512W | Red | No | 116.9 | 59.3 | 12.7 | 4.6 | Bio-Town Seeds, Inc. |
| DF EX-23 | Red | No | 116.9 | 61.3 | 12.3 | 0.9 | D.F. Seeds, Inc. |
| SC 1342 TM | Red | Yes | 116.7 | 58.3 | 12.9 | 7.2 | Seed Consultants, Inc. |
| 9042 | Red | Yes | 116.6 | 60.9 | 11.8 | 2.7 | Dyna-Gro Seed |
| DF EX-2 | Red | No | 116.5 | 59.1 | 11.9 | 5.9 | D.F. Seeds, Inc. |
| HS 284R | Red | Yes | 116.5 | 59.8 | 12.4 | 3.0 | Harrington Seeds, Inc. |
| DF 105R | Red | Yes | 115.8 | 59.8 | 12.0 | 2.5 | D.F. Seeds, Inc. |
| S-1100 | Red | Yes | 115.7 | 60.1 | 11.9 | 2.4 | Sunstar Hybrids |
| 9223 | Red | Yes | 115.3 | 58.3 | 14.0 | 4.6 | Dyna-Gro Seed |
| SY 483 | Red | No | 114.9 | 60.3 | 12.9 | 2.6 | Syngenta |
| LCS 34969 | Red | No | 114.1 | 60.3 | 12.4 | 4.0 | Limagrain Cereal Seeds |
| Malabar | Red | Yes | 114.1 | 60.6 | 12.5 | 1.9 | Ohio Seed Improvement Association |
| RS 907 | Red | Yes | 114.1 | 61.2 | 12.5 | 5.0 | Rupp Seeds, Inc. |
| Pioneer 25R40 | Red | Yes | 113.8 | 60.8 | 12.5 | 2.5 | DuPont Pioneer |
| Shirley | Red | Yes | 113.6 | 59.1 | 13.0 | 1.9 | Dyna-Gro Seed |
| RS 972 | Red | Yes | 113.6 | 58.8 | 12.6 | 6.5 | Rupp Seeds, Inc. |
| SC 1321 TM | Red | Yes | 113.5 | 59.7 | 12.0 | 3.1 | Seed Consultants, Inc. |
| W 208 | Red | Yes | 113.2 | 60.1 | 13.3 | 3.2 | Wellman Seeds, Inc. |
| AgriMAXX 413 | Red | Yes | 113.1 | 59.3 | 12.2 | 2.9 | AgriMAXX Wheat Company |
| Hopewell | Red | Yes | 112.6 | 60.9 | 12.6 | 2.0 | Michigan Crop Improvement Association |
| EXP 101 | Red | No | 112.4 | 60.2 | 13.1 | 3.2 | Direct Enterprises |
| MCIA EXP B | Red | No | 112.2 | 58.9 | 12.4 | 3.8 | Michigan Crop Improvement Association |
| Pierson | Red | No | 112.0 | 60.9 | 12.6 | 4.1 | Steyer Seeds |
| DF 55R | Red | Yes | 111.8 | 61.7 | 12.8 | 3.8 | D.F. Seeds, Inc. |
| MSU Line F0036R | Red | No | 111.6 | 60.1 | 12.3 | 2.0 | Michigan State University |
| DF 109R | Red | Yes | 111.5 | 58.2 | 12.4 | 7.1 | D.F. Seeds, Inc. |
| Merl | Red | Yes | 110.9 | 62.2 | 13.2 | 0.4 | Virginia Crop Improvement Ass. / VA Tech |
| MCIA EXP4 | Red | Yes | 110.5 | 59.7 | 13.3 | 2.3 | Michigan Crop Improvement Association |

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Table 6 : Tuscola High Management: Single Site Summary (Note: Tables sorted by 2013 Yield, red wheats grouped before white)

MSU makes no endorsement of any variety or brand.

| Name | Grain Color | Commercially Available | Yield: Bushels/Acre | Test Weight: lbs/Bushel | % Grain Moisture at Harvest | Lodging Score (0-9) (0=none) | Organization |
|-------------------------------|-------------|------------------------|---------------------|-------------------------|-----------------------------|------------------------------|---------------------------------------------|
| GB 1102 | Red | Yes | 110.0 | 58.9 | 12.6 | 4.6 | G.B. Seeds and Service |
| 9053 | Red | Yes | 109.8 | 57.8 | 11.9 | 2.4 | Dyna-Gro Seed |
| MSU Line F0051R | Red | No | 109.6 | 61.5 | 12.5 | 2.1 | Michigan State University |
| LCS 37773 | Red | No | 109.4 | 62.7 | 12.8 | 6.5 | Limagrain Cereal Seeds |
| W 123 | Red | Yes | 109.4 | 59.7 | 12.2 | 3.9 | Wellman Seeds, Inc. |
| D 506W | Red | Yes | 109.2 | 58.3 | 12.9 | 4.2 | Bio-Town Seeds, Inc. |
| Branson | Red | Yes | 108.9 | 59.7 | 12.3 | 4.9 | Syngenta |
| AgriMAXX 427 | Red | Yes | 108.8 | 58.4 | 12.8 | 6.2 | AgriMAXX Wheat Company |
| Pioneer 25R39 | Red | Yes | 108.7 | 59.7 | 12.5 | 5.7 | DuPont Pioneer |
| RS 979 | Red | Yes | 108.6 | 58.1 | 12.8 | 5.1 | Rupp Seeds, Inc. |
| DF EX-L1 | Red | Yes | 108.5 | 60.8 | 12.8 | 5.4 | D.F. Seeds, Inc. |
| DF 45R | Red | Yes | 108.4 | 61.4 | 12.7 | 2.4 | D.F. Seeds, Inc. |
| Red Ruby | Red | Yes | 107.9 | 60.4 | 12.4 | 3.0 | Michigan Crop Improvement Association |
| MCIA EXP A | Red | No | 107.9 | 60.3 | 12.3 | 7.2 | Michigan Crop Improvement Association |
| Hunker | Red | Yes | 107.5 | 58.9 | 12.6 | 6.6 | Steyer Seeds |
| VA09W-73 | Red | No | 107.2 | 60.7 | 13.9 | 3.0 | Virginia Crop Improvement Assc. / VA Tech |
| Emmit | Red | Yes | 107.0 | 59.6 | 12.9 | 2.8 | Hyland Seeds |
| DANW1001 | Red | No | 106.3 | 57.7 | 18.9 | 3.6 | Hyland Seeds |
| MCIA Blazer | Red | Yes | 105.7 | 62.3 | 12.4 | 3.4 | Michigan Crop Improvement Association |
| SC 1302 TM | Red | Yes | 105.7 | 62.3 | 12.7 | 3.2 | Seed Consultants, Inc. |
| AgriMAXX Exp 1342 | Red | No | 105.6 | 59.8 | 12.7 | 3.6 | AgriMAXX Wheat Company |
| S-1200 | Red | Yes | 104.5 | 58.4 | 12.7 | 4.2 | Sunstar Hybrids |
| HY116-SRW | Red | Yes | 104.0 | 58.3 | 12.0 | 7.1 | Hyland Seeds |
| MCIA Red Devil | Red | Yes | 103.2 | 59.8 | 12.3 | 1.9 | Michigan Crop Improvement Association |
| SC 1341 TM | Red | Yes | 100.4 | 58.7 | 11.8 | 6.5 | Seed Consultants, Inc. |
| Jupiter | White | Yes | 121.3 | 59.6 | 12.4 | 2.8 | Michigan Crop Improvement Association |
| Ambassador | White | Yes | 120.7 | 58.2 | 12.0 | 2.0 | D.F. Seeds, Inc. & Co-op Elevevator, Pigeon |
| MSU Line F0065 | White | No | 117.1 | 59.5 | 12.1 | 2.8 | Michigan State University |
| 9242W | White | Yes | 116.3 | 60.7 | 12.3 | 2.4 | Dyna-Gro Seed |
| Linebacker | White | Yes | 114.7 | 59.1 | 14.3 | 2.4 | D.F. Seeds, Inc. |
| MSU Line F0039 | White | No | 114.1 | 60.0 | 12.0 | 1.5 | Michigan State University |
| MSU Line F0014 | White | No | 112.4 | 60.0 | 12.3 | 1.2 | Michigan State University |
| Pioneer 25W43 | White | Yes | 111.5 | 58.8 | 12.3 | 3.6 | DuPont Pioneer |
| DF 110W | White | Yes | 110.0 | 60.3 | 12.2 | 5.7 | D.F. Seeds, Inc. |
| Aubrey | White | Yes | 109.9 | 60.3 | 12.7 | 3.1 | D.F. Seeds, Inc. |
| 9362W | White | No | 109.9 | 60.9 | 12.6 | 2.0 | Dyna-Gro Seed |
| AC Mountain | White | Yes | 109.4 | 58.7 | 11.7 | 6.8 | Michigan Crop Improvement Association |
| MSU Line E6012 | White | No | 109.2 | 60.0 | 11.9 | 4.1 | Michigan State University |
| SY 901 | White | No | 106.3 | 59.2 | 11.7 | 5.3 | Syngenta |
| VA09W-188WS | White | No | 102.2 | 58.7 | 12.1 | 2.6 | Virginia Crop Improvement Assc. / VA Tech |
| Ava | White | Yes | 102.0 | 58.9 | 13.7 | 6.4 | Hyland Seeds |
| HY319-SWW | White | Yes | 100.8 | 59.5 | 12.2 | 4.5 | Hyland Seeds |
| W1062 | White | Yes | 96.3 | 57.7 | 12.4 | 7.8 | Syngenta |
| MEAN (2013 93 Entries) | | | 112.3 | 59.9 | 12.6 | 3.6 | |
| LSD (0.05) | | | 5.1 | 0.6 | 0.5 | 1.5 | |
| CV (%) | | | 3.9 | 0.8 | 3.5 | 36.8 | |