

1997 Wheat Performance Trial Results

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1997 MSU Wheat Performance Trial Results

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Wheat variety performance trials are conducted by Michigan State University (MSU) each year at several locations throughout Michigan's winter wheat production area. Entries to the trials include MSU experimental lines, promising lines from neighboring states and commercial varieties from other universities and private seed companies. The primary objective of this testing program is to provide the agronomic data needed to determine which lines to release as commercial varieties. A second objective is to show Michigan wheat growers which varieties perform best in Michigan. This year's results are summarized in the accompanying tables.

Although wheat producers are always interested in how varieties perform in a given year and location, performance in 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.

Multi-Year Performance Summary (Table 1)

Each line in the table has data for a single variety. The column bordered by double lines has this year's average yield. The table is arranged so that the varieties appear in order of '97 average yield with the highest yielding variety first and the lowest yielding variety last. Not all varieties have been tested in all years so the table has several blank cells. To the right of the '97 yield column are multi-year yield averages. Only data for varieties included in the relevant year's tests are included here. See the section titled 'Experimental' for details on how the trials were conducted and more detail on what the data in each column's data represent.

At the bottom of each table are the means, L.S.D.s, and C.V.s for the 1997 data columns. The L.S.D. (least significant difference) is the statistical measure of how big a difference needs to be to be considered real. If the difference between two means is greater than or equal to the L.S.D., then the varieties are probably really different for that trait. Otherwise, there is insufficient evidence to claim that the varieties are actually different. The C.V. (coefficient of variation) is indicative of the trial's precision for a given trait. Lower C.V. values indicate more precise trials.

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 do 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. What you can do is identify a group of varieties whose past performance and agronomic characteristics indicate that they are most likely to be winners in the upcoming season. It is a good idea to plant two or more varieties. That increases the chance of having the best adapted variety for the particular conditions that are likely to prevail during the ensuing season. Selecting two varieties can reduce losses from diseases and insects that occur when a given variety's pest resistance is overcome by a change in the pest population.

Single Site Yield Performance Summary (Table 2)

Columns in this table represent yield (bushels/acre) at each of the eight sites. The last column is the average of all sites. Each row in the Table represents a single variety in the test.

Experimental

The 1997 State Wheat Variety Trial was harvested at eight county sites: Lenawee, Ionia, Saginaw, Kalamazoo, Huron, Tuscola, Sanilac, and Ingham. Plots were 11 feet long and had 7 rows at 6" row spacing. Individual sites were implemented as three replication alpha lattices (15 blocks of 5 plots each). Seeding rates were standardized to 1.8 million seeds per acre. Planting dates were all within normal ranges. Fall fertility varied with cooperators practice. Spring nitrogen was applied as urea (80 lbs/acre) at greenup. No fungicides were applied. All plots at a site are harvested on a single day. Yield was calculated using the entire area of the plot including the wheel tracks between plots. Yield, test weight, and moisture data were acquired electronically on the plot combine at the time of harvest. Yield comparisons are only valid within a column. All scores are based on a 0-9 scale, where 0 is the best possible score. "Septoria leaf blotch" scores are for foliar symptoms only and probably reflect both *S. nordorum* and *S. tritici* infections. Sprouting score data are based on greenhouse evaluation of 5 heads from all three replications at both the Ingham and Ionia county sites. Heads were picked immediately before those sites were harvested. After two days of drying, the heads were subjected to continuous misting for 5 days. Data for 50% pollen shed indicates the number of days past January 1st before that variety reached the point where 1/2 of its heads were flowering. Plant height was measured at the tip of average heads in a plot.

MSU makes no endorsement of any wheat variety or brand. Cooperator support is gratefully acknowledged.

Site summary information:

| County | Cooperator | Nearest Town |
|---------|------------------------|--------------|
| Saginaw | S. Reinbold | Frankenmuth |
| Lenawee | P. Vergote | Blissfield |
| Ingham | MSU | Mason |
| Ionia | MSU | Clarksville |
| Sanilac | A. Stoutenburg | Sandusky |
| Barry | MSU | Delton |
| Tuscola | R. Ackerman | Reese |
| Huron | Huron County Extension | Bad Axe |

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Yield (bushels/acre), Test weight (lbs/bushel), plant height (inches to tip of head).

| name | grain color | yld 1997 | yld 96 / 97 | yld 95 - 97 | yld 94 - 97 | test wt 97 | test wt 96/97 | test wt 95-97 | test wt 94-97 | height 97 | height 96/97 |
|--------------------------|--------------------|-----------------|--------------------|--------------------|--------------------|-------------------|----------------------|----------------------|----------------------|------------------|---------------------|
| Pioneer(R) variety 2552 | R | 84.0 | 64.1 | 70.6 | 71.0 | 59.1 | 58.5 | 59 | 59 | 36.6 | 32.5 |
| Hopewell | R | 81.5 | 66.8 | . | . | 56.6 | 56.9 | . | . | 37.5 | 34.5 |
| Pioneer(R) variety 25R26 | R | 80.1 | . | . | . | 55.9 | . | . | . | 35.9 | . |
| Freedom | R | 79.7 | 63.5 | 68.1 | 68.6 | 56.2 | 56.3 | 56.7 | 56.7 | 39.3 | 36.6 |
| Glory | R | 79.6 | 60.8 | . | . | 57.4 | 56.7 | . | . | 37.3 | 34.6 |
| Pioneer(R) variety 2568 | R | 79.4 | 64.2 | . | . | 57.4 | 57.2 | . | . | 35.9 | 33.4 |
| TW 93211 | W | 79.4 | . | . | . | 57.6 | . | . | . | 41.9 | . |
| Wakefield | R | 79.2 | 63.2 | 68.6 | 70.7 | 57.8 | 57.6 | 57.8 | 57.9 | 39.2 | 36.5 |
| Caledonia | W | 78.7 | . | . | . | 56.6 | . | . | . | 37.3 | . |
| Genesis 95 . 1 | R | 78.6 | 59.9 | . | . | 55.7 | 55.4 | . | . | 39.3 | 36.2 |
| MSU Line D4045 | W | 77.8 | . | . | . | 57.5 | . | . | . | 41.3 | . |
| Emily | R | 77.7 | . | . | . | 60.0 | . | . | . | 39.2 | . |
| GR 962 | R | 77.7 | 55.1 | . | . | 55.6 | 54.9 | . | . | 36.2 | 32.9 |
| MSU Line D2103 | W | 77.5 | 61.5 | 65.5 | . | 56.0 | 55.4 | 55.5 | . | 42.1 | 40.5 |
| Ramrod | W | 76.9 | 62.9 | 66.0 | 66.7 | 55.6 | 55.2 | 55.6 | 55.8 | 40.6 | 38.7 |
| NC RW151 | R | 76.9 | . | . | . | 59.5 | 59.5 | . | . | . | . |
| AC Ron | W | 76.8 | 62.3 | . | . | 56.9 | 56.1 | . | . | 43.0 | 41.2 |
| L15 | R | 76.5 | 61.7 | . | . | 59.7 | 59.4 | . | . | 40.4 | 38.5 |
| Brandy | R | 76.5 | 61.8 | . | . | 59.2 | 59.3 | . | . | 40.7 | 36.9 |
| Terra SR204 | R | 76.4 | 60.3 | . | . | 59.3 | 59.3 | . | . | 38.5 | 36.5 |
| Pioneer(R) variety 2540 | R | 76.4 | 63.4 | . | . | 57.5 | 57.6 | . | . | 37.4 | 33.8 |
| Pioneer(R) variety 25W33 | W | 76.2 | . | . | . | 55.6 | . | . | . | 36.3 | . |
| TW 94104 | W | 76.2 | . | . | . | 57.8 | . | . | . | 41.3 | . |
| Stine 480 | R | 76.0 | 62.8 | . | . | 56.1 | 56.5 | . | . | 40.2 | 37.6 |
| 558 W | R | 76.0 | . | . | . | 57.6 | . | . | . | 39.2 | . |
| Pioneer(R) variety 25R57 | R | 75.9 | . | . | . | 56.5 | . | . | . | 37.3 | . |
| Mendon | R | 75.6 | 60.1 | 65.2 | 67.8 | 55.6 | 55.4 | 55.6 | 55.5 | 43.0 | 40.2 |
| 569 w | R | 75.3 | . | . | . | 56.9 | . | . | . | 40.8 | . |
| 577 W | R | 74.9 | . | . | . | 53.4 | . | . | . | 37.2 | . |
| Foster | R | 74.9 | 62.5 | . | . | 57.3 | 57.1 | . | . | 37.1 | 34.2 |
| Cardinal | R | 74.7 | 61.8 | 64.7 | 65.6 | 57.0 | 56.7 | 57.3 | 57.4 | 40.9 | 37.9 |
| Bavaria | W | 74.5 | 58.5 | 64.1 | 66.7 | 57.5 | 57.0 | 57.3 | 57.3 | 43.4 | 40.9 |
| NC Marilee | W | 74.4 | . | . | . | 55.2 | . | . | . | 40.7 | . |
| NC Harold | R | 74.4 | . | . | . | 57.4 | . | . | . | 39.6 | . |
| Pioneer(R) variety 2737W | W | 74.3 | 59.8 | 64.7 | 64.5 | 55.3 | 55.3 | 55.9 | 55.8 | 38.1 | 35.5 |
| NC Karena | W | 74.3 | . | . | . | 57.2 | . | . | . | 42.3 | . |
| Lowell | W | 74.2 | 60.1 | 64.3 | 66.0 | 55.1 | 54.9 | 55 | 54.9 | 43.8 | 40.9 |
| MSU Line D4081 | W | 74.2 | . | . | . | 56.5 | . | . | . | 44.1 | . |
| Navigator | R | 73.9 | 54.3 | 62.2 | . | 55.0 | 54.8 | 55.9 | . | 34.4 | 31.5 |
| L25 | R | 73.8 | 61.2 | 64.6 | . | 58.7 | 58.4 | 59.1 | . | 46.3 | 42.5 |
| MSU Line D3913 | W | 73.7 | 59.2 | . | . | 55.9 | 55.4 | . | . | 42.2 | 40.4 |
| PS 1359 | R | 73.1 | . | . | . | 56.5 | . | . | . | 37.1 | . |
| MSU Line D4125 | R | 73.1 | . | . | . | 55.8 | . | . | . | 42.3 | . |
| MSU Line D2150 | W | 73.1 | 61.1 | 65.1 | . | 57.0 | 57.4 | 57.4 | . | 41.9 | 40.4 |
| GR 942 | R | 72.9 | 51.7 | 60.9 | . | 55.3 | 54.3 | 55.5 | . | 33.5 | 30.2 |
| MSU Line D3234 | R | 72.9 | 61.1 | . | . | 58.1 | 58.1 | . | . | 43.4 | 40.7 |

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| MSU Line D3991 | M | 72.9 | . | . | . | 56.1 | . | . | . | 41.9 | . |
| RS 927 | R | 72.1 | 59.8 | 62.9 | 64.1 | 59.1 | 59.3 | 57.7 | 58.1 | 40.2 | 37.0 |
| Chelsea | W | 71.8 | 57.7 | 62.8 | 60.9 | 56.8 | 56.2 | 56.6 | 56.9 | 43.4 | 40.2 |
| MSU Line D2295 | W | 71.6 | 58.8 | 62.9 | . | 58.4 | 58.1 | 58.3 | . | 39.6 | 37.4 |
| Harus | W | 71.5 | 57.8 | 61.2 | 62.9 | 57.1 | 57.3 | 57.4 | 57.2 | 42.0 | 39.8 |
| Packard Brand | R | 71.5 | 56.6 | . | . | 53.0 | 53.1 | . | . | 37.7 | 34.9 |
| MSU Line D2088 | W | 71.5 | 57.1 | . | . | 56.0 | 55.3 | . | . | 43.4 | 41.4 |
| Casey | R | 71.2 | 58.0 | . | . | 55.6 | 55.6 | . | . | 39.9 | 38.0 |
| Diana | W | 71.2 | 58.1 | . | . | 56.0 | 54.9 | . | . | 40.6 | 39.8 |
| Cyrus Brand | R | 71.2 | 54.3 | . | . | 54.9 | 54.4 | . | . | 33.2 | 31.3 |
| Absolut | R | 71.0 | . | . | . | 58.7 | . | . | . | 41.5 | . |
| EX 971 | R | 71.0 | . | . | . | 55.9 | . | . | . | 36.7 | . |
| Elkhart | R | 71.0 | 59.3 | . | . | 58.4 | 59.1 | . | . | 39.2 | 36.0 |
| MSU Line D1176 | W | 70.9 | 56.5 | . | . | 57.3 | 56.8 | . | . | 44.6 | 41.0 |
| TW 91203 | W | 70.8 | . | . | . | 55.6 | . | . | . | 43.1 | . |
| 92405R | R | 70.6 | . | . | . | 56.9 | . | . | . | 44.4 | . |
| MSU Line D3176 | R | 69.6 | 56.9 | . | . | 56.0 | 55.4 | . | . | 39.0 | 37.3 |
| SW403 | R | 68.8 | 52.8 | 59.0 | . | 55.8 | 56.1 | 56.7 | . | 39.9 | 36.0 |
| MSU Line D3414 | R | 67.2 | . | . | . | 58.2 | . | . | . | 41.1 | . |
| Terra SR211 (Exp 211) | R | 67.0 | 51.0 | . | . | 55.9 | 56.2 | . | . | 36.3 | 33.1 |
| Patterson | R | 66.9 | . | . | . | 56.3 | . | . | . | 39.6 | . |
| 94334R | R | 66.7 | . | . | . | 58.5 | . | . | . | 44.4 | . |
| Terra SR205 | R | 65.4 | 54.0 | 61.0 | . | 53.2 | 53.9 | 54.9 | . | 37.5 | 35.2 |
| Clemens | R | 64.7 | 54.8 | 59.0 | . | 56.6 | 57.0 | 57.5 | . | 39.7 | 36.6 |
| NC John | W | 64.1 | . | . | . | 54.0 | . | . | . | 41.8 | . |
| Rupp X6-289 | R | 62.9 | . | . | . | 55.7 | . | . | . | 38.9 | . |
| Pontiac | R | 61.1 | 52.0 | 55.5 | . | 56.8 | 57.9 | 58.2 | . | 35.5 | 33.5 |

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| <i>name</i> | <i>lodge 97</i> | <i>lodge 96/97</i> | <i>flowering date 97</i> | <i>flowering date 96/97</i> | <i>moist. At harvest 97</i> | <i>wssv 97</i> | <i>wssv 96/97</i> | <i>powdery mildew 97</i> | <i>powdery mildew 96/97</i> | <i>lower leaf septoria 97</i> | <i>lower leaf septoria 96/97</i> | <i>flag leaf septoria 97</i> | <i>septoria glume blotch 97</i> | <i>awned</i> |
|--------------------------|-----------------|--------------------|--------------------------|-----------------------------|-----------------------------|----------------|-------------------|--------------------------|-----------------------------|-------------------------------|----------------------------------|------------------------------|---------------------------------|--------------|
| Pioneer(R) variety 2552 | 0.7 | 0.9 | 65.0 | 66.2 | 13.6 | 1.5 | 1.8 | 0.6 | 0.8 | 0.9 | 1.6 | 3.5 | 2.5 | awned |
| Hopewell | 0.7 | 0.7 | 65.5 | 66.7 | 12.8 | 1.1 | 1.4 | 3.4 | 2.9 | 3.1 | 3.2 | 4.0 | 5.0 | awnless |
| Pioneer(R) variety 25R26 | 2.0 | . | 65.0 | . | 12.1 | 1.5 | . | 5.4 | . | 2.5 | . | 4.5 | 1.3 | awned |
| Freedom | 3.7 | 2.9 | 65.0 | 66.4 | 13.1 | 4.1 | 3.6 | 5.1 | 4.1 | 4.6 | 3.8 | 3.5 | 2.6 | awnless |
| Glory | 3.7 | 2.4 | 63.5 | 65.3 | 12.6 | 4.3 | 3.2 | 5.5 | 4.8 | 3.7 | 3.1 | 4.0 | 2.2 | awnless |
| Pioneer(R) variety 2568 | 2.0 | 1.7 | 64.0 | 65.4 | 12.6 | 1.3 | 1.5 | 7.1 | 6.3 | 4.6 | 4.3 | 6.5 | 2.6 | awned |
| TW 93211 | 4.7 | . | 68.0 | . | 13.5 | 8.1 | . | 3.9 | . | 4.6 | . | 5.0 | 0.8 | awnless |
| Wakefield | 5.4 | 3.2 | 64.0 | 66.2 | 13.2 | 5.7 | 3.7 | 5.0 | 2.9 | 2.8 | 2.5 | 4.5 | 2.6 | awnless |
| Caledonia | 3.2 | . | 66.0 | . | 12.6 | 3.2 | . | 5.1 | . | 4.6 | . | 4.0 | 2.8 | awnless |
| Genesis 95 .1 | 3.9 | 2.6 | 64.0 | 65.9 | 12.1 | 1.5 | 1.3 | 5.5 | 4.9 | 4.6 | 4.2 | 5.0 | 3.6 | awned |
| MSU Line D4045 | 3.6 | . | 65.0 | . | 13.2 | 3.4 | . | 4.4 | . | 2.7 | . | 3.5 | 2.1 | awnless |
| Emily | 3.4 | . | 64.0 | . | 15.0 | 5.0 | . | 6.6 | . | 5.1 | . | 4.0 | 2.4 | awnless |
| GR 962 | 1.1 | 1.3 | 63.5 | 65.1 | 11.8 | 1.2 | 1.5 | 6.0 | 4.8 | 5.5 | 5.2 | 3.0 | 8.5 | awnless |
| MSU Line D2103 | 3.9 | 3.1 | 66.5 | 68.2 | 12.9 | 6.6 | 4.2 | 5.4 | 4.4 | 4.7 | 4.3 | 4.0 | 2.0 | awnless |

| | | | | | | | | | | | | | | |
|--------------------------|-----|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| Ramrod | 1.7 | 2.2 | 69.0 | 68.9 | 12.6 | 2.2 | 1.6 | 5.2 | 4.5 | 5.3 | 4.7 | 5.5 | 2.9 | awnless |
| NC RW151 | . | . | . | . | 14.9 | 4.1 | . | 4.9 | . | . | . | 2.9 | 2.5 | awnless |
| AC Ron | 3.9 | 2.8 | 66.0 | 67.2 | 12.7 | 7.8 | 5.4 | 5.7 | 4.5 | 4.6 | 4.3 | 3.5 | 2.5 | awnless |
| L15 | 3.6 | 2.8 | 64.5 | 64.9 | 15.4 | 4.0 | 3.2 | 5.7 | 4.7 | 5.6 | 5.7 | 4.0 | 2.2 | awnless |
| Brandy | 4.4 | 3.1 | 64.5 | 65.3 | 14.7 | 4.6 | 4.1 | 6.5 | 5.1 | 4.7 | 4.9 | 3.0 | 2.3 | awnless |
| Terra SR204 | 3.4 | 2.4 | 63.5 | 65.0 | 14.8 | 5.5 | 3.7 | 6.2 | 4.9 | 4.3 | 4.6 | 4.5 | 2.3 | awnless |
| Pioneer(R) variety 2540 | 0.4 | 0.7 | 68.0 | 67.9 | 12.7 | 2.4 | 1.9 | 4.5 | 4.2 | 1.7 | 2.0 | 3.5 | 1.0 | awned |
| Pioneer(R) variety 25W33 | 3.0 | . | 66.0 | . | 11.9 | 1.1 | . | 2.3 | . | 3.7 | . | 5.5 | 2.1 | awned |
| TW 94104 | 3.7 | . | 67.5 | . | 13.2 | 8.7 | . | 5.6 | . | 5.2 | . | 4.0 | 2.1 | awnless |
| Stine 480 | 4.0 | 2.7 | 65.0 | 65.5 | 12.7 | 1.8 | 1.6 | 8.4 | 6.8 | 4.3 | 4.2 | 5.5 | 2.8 | awnless |
| 558 W | 3.1 | . | 66.0 | . | 13.4 | 4.4 | . | 7.3 | . | 6.6 | . | 4.5 | 2.1 | awnless |
| Pioneer(R) variety 25R57 | 3.0 | . | 64.5 | . | 12.4 | 7.1 | . | 3.1 | . | 4.6 | . | 4.0 | 3.0 | awnless |
| Mendon | 4.6 | 3.7 | 64.5 | 65.3 | 12.5 | 1.3 | 1.0 | 7.9 | 6.3 | 2.3 | 3.5 | 3.5 | 2.3 | awnless |
| 569 w | 4.7 | . | 65.0 | . | 13.1 | 2.4 | . | 5.6 | . | 3.1 | . | 4.5 | 3.9 | awnless |
| 577 W | 3.9 | . | 65.0 | . | 11.6 | 7.6 | . | 8.0 | . | 5.2 | . | 3.5 | 3.4 | awnless |
| Foster | 1.9 | 1.8 | 66.0 | 66.0 | 13.0 | 5.7 | 3.8 | 7.0 | 5.6 | 4.6 | 3.7 | 5.0 | 3.4 | awnless |
| Cardinal | 4.7 | 3.2 | 65.0 | 66.3 | 13.1 | 3.2 | 2.9 | 8.0 | 6.3 | 6.0 | 5.3 | 5.0 | 3.5 | awnless |
| Bavaria | 2.4 | 2.1 | 67.5 | 68.1 | 13.1 | 2.6 | 1.8 | 6.9 | 5.6 | 4.8 | 4.6 | 3.0 | 3.1 | awnless |
| NC Marilee | 5.0 | . | 67.5 | . | 13.1 | 7.2 | . | 7.3 | . | 4.6 | . | 3.5 | 2.3 | awnless |
| NC Harold | 4.7 | . | 64.5 | . | 13.3 | 6.6 | . | 5.3 | . | 6.0 | . | 5.0 | 3.2 | awnless |
| Pioneer(R) variety 2737W | 2.0 | 1.7 | 65.0 | 66.4 | 12.0 | 1.7 | 1.4 | 7.1 | 5.7 | 2.3 | 3.5 | 2.5 | 2.3 | awnless |
| NC Karena | 3.6 | . | 68.0 | . | 13.5 | 8.5 | . | 3.2 | . | 3.7 | . | 4.0 | 4.2 | awnless |
| Lowell | 4.3 | 3.0 | 64.5 | 65.1 | 12.3 | 1.4 | 1.4 | 7.2 | 5.3 | 4.0 | 4.6 | 3.0 | 1.3 | awnless |
| MSU Line D4081 | 4.7 | . | 65.0 | . | 12.7 | 3.0 | . | 4.7 | . | 3.3 | . | 4.0 | 4.4 | awnless |
| Navigator | 2.5 | 1.8 | 64.0 | 66.2 | 11.8 | 7.1 | 5.9 | 3.6 | 2.7 | 5.7 | 4.6 | 5.0 | 4.0 | awnless |
| L25 | 4.0 | 4.0 | 65.0 | 66.4 | 14.0 | 2.1 | 1.5 | 9.0 | 7.5 | 4.8 | 4.8 | 4.0 | 1.2 | awnless |
| MSU Line D3913 | 4.4 | 3.2 | 67.5 | 68.3 | 12.7 | 4.2 | 4.8 | 6.1 | 5.0 | 4.6 | 4.7 | 4.0 | 2.9 | awnless |
| PS 1359 | 3.7 | . | 64.0 | . | 12.4 | 2.9 | . | 4.5 | . | 5.0 | . | 4.5 | 4.3 | awnless |
| MSU Line D4125 | 5.3 | . | 64.0 | . | 12.9 | 1.8 | . | 5.5 | . | 5.5 | . | 3.5 | 3.4 | awnless |
| MSU Line D2150 | 3.8 | 2.6 | 63.5 | 65.9 | 12.7 | 7.6 | 4.5 | 5.3 | 4.4 | 4.7 | 4.4 | 3.5 | 4.2 | awnless |
| GR 942 | 2.3 | 1.7 | 65.0 | 66.7 | 11.8 | 6.0 | 5.5 | 3.1 | 3.2 | 5.3 | 4.6 | 4.0 | 4.7 | awnless |
| MSU Line D3234 | 5.2 | 4.3 | 67.5 | 67.8 | 15.7 | 4.2 | 2.8 | 3.0 | 2.2 | 3.2 | 3.8 | 3.0 | 1.0 | awned |
| MSU Line D3991 | 4.7 | . | 68.5 | . | 15.3 | 8.5 | . | 5.7 | . | 4.1 | . | 4.0 | 2.3 | awnless |
| RS 927 | 4.7 | 3.2 | 63.0 | 64.5 | 14.5 | 5.1 | 4.3 | 8.4 | 6.3 | 4.8 | 4.9 | 5.5 | 3.2 | awnless |
| Chelsea | 5.7 | 3.9 | 68.0 | 70.5 | 13.1 | 2.8 | 1.9 | 6.9 | 5.4 | 3.9 | 3.8 | 3.0 | 3.5 | awned |
| MSU Line D2295 | 3.0 | 3.0 | 69.5 | 69.4 | 13.6 | 8.5 | 6.8 | 3.8 | 3.2 | 3.8 | 3.9 | 4.0 | 1.0 | awned |
| Harus | 4.0 | 2.7 | 64.0 | 66.0 | 12.7 | 8.4 | 5.4 | 4.7 | 3.9 | 4.7 | 4.5 | 4.0 | 5.0 | awnless |
| Packard Brand | 4.7 | 3.2 | 65.0 | 66.7 | 11.5 | 7.8 | 6.4 | 7.8 | 6.2 | 4.9 | 4.0 | 3.5 | 3.6 | awnless |
| MSU Line D2088 | 4.4 | 3.6 | 67.5 | 68.5 | 12.8 | 7.6 | 6.3 | 4.7 | 3.8 | 4.0 | 4.5 | 4.5 | 1.0 | awned |
| Casey | 5.0 | 3.2 | 65.5 | 66.8 | 12.2 | 7.1 | 4.6 | 3.0 | 3.4 | 6.8 | 5.4 | 4.0 | 2.5 | awnless |
| Diana | 4.3 | 2.7 | 65.0 | 66.9 | 12.9 | 7.5 | 6.9 | 4.0 | 3.7 | 3.9 | 3.8 | 2.5 | 1.8 | awnless |

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|-----------------------|-----|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| Cyrus Brand | 2.6 | 1.8 | 65.5 | 66.8 | 11.9 | 6.7 | 5.7 | 3.7 | 3.4 | 5.1 | 4.3 | 4.5 | 6.0 | awnless |
| Absolut | 4.8 | . | 62.5 | . | 13.4 | 3.5 | . | 7.9 | . | 4.4 | . | 3.5 | 3.8 | awnless |
| EX 971 | 2.0 | . | 63.5 | . | 12.5 | 2.3 | . | 4.0 | . | 3.8 | . | 6.0 | 4.7 | awnless |
| Elkhart | 5.6 | 3.5 | 65.0 | 65.4 | 12.8 | 5.4 | 5.2 | 5.5 | 4.8 | 4.4 | 3.9 | 5.0 | 3.0 | awned |
| MSU Line D1176 | 4.6 | 3.5 | 68.0 | 69.0 | 13.3 | 3.5 | 2.4 | 3.4 | 2.6 | 4.3 | 4.3 | 4.5 | 1.8 | awned |
| TW 91203 | 3.3 | . | 68.0 | . | 13.1 | 5.3 | . | 6.2 | . | 3.8 | . | 1.5 | 3.2 | awnless |
| 92405R | 4.3 | . | 66.5 | . | 12.6 | 7.4 | . | 7.5 | . | 4.6 | . | 3.0 | 1.2 | awnless |
| MSU Line D3176 | 3.7 | 3.2 | 67.5 | 69.1 | 12.9 | 6.4 | 3.9 | 4.5 | 4.1 | 3.7 | 3.4 | 4.5 | 2.0 | awned |
| SW403 | 4.9 | 3.0 | 62.5 | 64.0 | 12.2 | 3.4 | 2.4 | 8.4 | 6.5 | 3.7 | 3.9 | 5.5 | 6.0 | awnless |
| MSU Line D3414 | 3.6 | . | 63.5 | . | 13.4 | 1.9 | . | 8.8 | . | 5.8 | . | 4.5 | 4.3 | awnless |
| Terra SR211 (Exp 211) | 6.4 | 3.7 | 64.0 | 65.0 | 12.3 | 2.5 | 2.8 | 5.5 | 4.2 | 2.7 | 3.1 | 5.0 | 7.2 | awnless |
| Patterson | 5.3 | . | 63.0 | . | 12.4 | 2.1 | . | 8.7 | . | 4.0 | . | 5.9 | 9.0 | awnless |
| 94334R | 2.5 | . | 69.0 | . | 14.0 | 8.6 | . | 8.4 | . | 3.3 | . | 1.5 | 1.2 | awnless |
| Terra SR205 | 4.8 | 3.2 | 65.0 | 65.7 | 11.2 | 2.0 | 2.0 | 8.6 | 7.2 | 6.4 | 5.7 | 4.5 | 5.7 | awnless |
| Clemens | 5.0 | 3.4 | 66.0 | 67.2 | 12.7 | 6.6 | 6.0 | 7.8 | 6.8 | 5.0 | 4.4 | 4.5 | 2.9 | awnless |
| NC John | 5.4 | . | 67.5 | . | 12.0 | 7.4 | . | 3.0 | . | 3.7 | . | 4.5 | 3.4 | awnless |
| Rupp X6-289 | 4.9 | . | 62.5 | . | 12.2 | 1.6 | . | 8.6 | . | 3.4 | . | 3.5 | 5.6 | awnless |
| Pontiac | 6.1 | 3.9 | 62.0 | 62.7 | 12.3 | 5.1 | 5.4 | 9.2 | 7.7 | 5.0 | 5.2 | 6.9 | 4.7 | awnless |

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| <i>name</i> | <i>scab incidence score 97</i> | <i>scab severity score 97</i> | <i>flour yield 96</i> | <i>% protein 96</i> | <i>alkaline water retention 96</i> | <i>softness eq. 96</i> | <i>sprout 97</i> | <i>sprout 96/97</i> | <i>origin</i> |
|--------------------------|--------------------------------|-------------------------------|-----------------------|---------------------|------------------------------------|------------------------|------------------|---------------------|-----------------------|
| Pioneer(R) variety 2552 | 8.2 | 4.1 | 70.1 | 10.2 | 57.7 | 54.6 | 1.8 | 1.5 | Pioneer Hi-bred Int. |
| Hopewell | 8.0 | 6.3 | 68.9 | 9.6 | 57.1 | 56.7 | 1.4 | 1.4 | Ohio Foundation Seed |
| Pioneer(R) variety 25R26 | 6.9 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | . | Pioneer Hi-bred Int. |
| Freedom | 7.7 | 3.7 | 68.7 | 9.7 | 57.1 | 50.5 | 2.0 | 1.7 | MI. Crop Imp. Assoc. |
| Glory | 7.6 | 5.4 | 68.8 | 9.3 | 58.9 | 53.5 | 3.8 | 3.0 | Ohio Foundation Seed |
| Pioneer(R) variety 2568 | 8.2 | 6.6 | 68.5 | 9.9 | 58.2 | 59.5 | 1.1 | 1.5 | Pioneer Hi-bred Int. |
| TW 93211 | 7.9 | 5.9 | 0.0 | 0.0 | 0.0 | 0.0 | 8.3 | . | Harrington Seeds Inc. |
| Wakefield | 7.6 | 6.3 | 70.4 | 10.1 | 56.1 | 54.9 | 1.2 | 2.1 | MI. Crop Imp. Assoc. |
| Caledonia | 7.6 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | 8.6 | . | GenesisAg-Harrington |
| Genesis 95 . 1 | 7.8 | 6.9 | 71.0 | 9.8 | 56.0 | 60.7 | 1.5 | 1.8 | Genesis Ag Ltd. |
| MSU Line D4045 | 7.7 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.4 | . | |
| Emily | 7.6 | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | . | Harrington Seeds Inc. |
| GR 962 | 7.7 | 6.0 | 67.5 | 10.4 | 57.8 | 57.6 | 1.2 | 1.5 | AGRA Inc. |
| MSU Line D2103 | 8.0 | 6.4 | 66.9 | 10.1 | 57.3 | 56.8 | 8.3 | 6.8 | |
| Ramrod | 7.2 | 3.3 | 68.6 | 10.3 | 57.3 | 54.5 | 7.9 | 7.0 | GHG |
| NC RW151 | 7.6 | 8.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | . | The Andersons |
| AC Ron | 8.3 | 6.8 | 69.6 | 9.2 | 55.9 | 55.0 | 8.0 | 6.9 | MI. Crop Imp. Assoc. |

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|--------------------------|-----|-----|------|------|------|------|-----|-----|-----------------------|
| L15 | 8.0 | 7.6 | 70.4 | 10.3 | 56.9 | 48.6 | 2.0 | 3.5 | Stewart Seed Inc. |
| Brandy | 7.3 | 5.7 | 70.8 | 10.2 | 56.3 | 46.4 | 3.5 | 3.4 | Lakeside States Inc. |
| Terra SR204 | 7.5 | 5.9 | 70.2 | 10.8 | 56.7 | 46.3 | 3.0 | 3.9 | Terra |
| Pioneer(R) variety 2540 | 8.0 | 3.6 | 68.4 | 10.5 | 56.3 | 54.0 | 1.6 | 2.4 | Pioneer Hi-bred Int. |
| Pioneer(R) variety 25W33 | 8.2 | 5.7 | 0.0 | 0.0 | 0.0 | 0.0 | 6.4 | . | Pioneer Hi-bred Int. |
| TW 94104 | 7.3 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | 8.0 | . | Harrington Seeds Inc. |
| Stine 480 | 8.0 | 6.4 | 69.9 | 10.0 | 56.7 | 49.8 | 1.9 | 2.8 | Stine Seed Co. |
| 558 W | 7.2 | 5.3 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 | . | Countrymark Co-op |
| Pioneer(R) variety 25R57 | 8.7 | 7.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | . | Pioneer Hi-bred Int. |
| Mendon | 7.8 | 6.0 | 70.7 | 9.7 | 56.9 | 57.9 | 2.1 | 3.4 | Lakeside States Inc. |
| 569 w | 7.4 | 5.7 | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 | . | Countrymark Co-op |
| 577 W | 7.7 | 7.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | . | Countrymark Co-op |
| Foster | 7.7 | 4.4 | 71.8 | 11.0 | 54.1 | 54.9 | 1.4 | 1.6 | Agripro Seeds Inc. |
| Cardinal | 7.2 | 4.7 | 70.8 | 10.1 | 55.9 | 54.3 | 6.0 | 5.8 | MI. Crop Imp. Assoc. |
| Bavaria | 8.0 | 5.6 | 70.3 | 10.1 | 56.0 | 51.4 | 6.0 | 6.0 | Greater MI Seed |
| NC Marilee | 8.1 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 8.0 | . | The Andersons |
| NC Harold | 7.1 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8 | . | The Andersons |
| Pioneer(R) variety 2737W | 8.4 | 7.4 | 70.4 | 9.7 | 56.1 | 58.1 | 8.0 | 7.2 | Pioneer Hi-bred Int. |
| NC Karena | 7.7 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | 7.4 | . | The Andersons |
| Lowell | 8.7 | 7.5 | 71.0 | 9.2 | 56.6 | 60.1 | 8.5 | 7.9 | MI. Crop Imp. Assoc. |
| MSU Line D4081 | 6.6 | 5.9 | 0.0 | 0.0 | 0.0 | 0.0 | 7.9 | . | |
| Navigator | 7.7 | 3.4 | 68.6 | 8.7 | 60.0 | 61.2 | 1.1 | 1.1 | Wilson Tri State Seed |
| L25 | 6.9 | 5.3 | 71.1 | 9.5 | 57.2 | 53.6 | 4.1 | 4.4 | Stewart Seeds Inc. |
| MSU Line D3913 | 7.0 | 5.7 | 70.8 | 10.0 | 55.9 | 54.4 | 8.6 | 7.8 | |
| PS 1359 | 7.8 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | . | Pro-Seed, Inc. |
| MSU Line D4125 | 7.7 | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 | 4.6 | . | |
| MSU Line D2150 | 7.8 | 5.7 | 70.0 | 10.0 | 55.6 | 53.6 | 7.6 | 6.7 | |
| GR 942 | 7.6 | 3.7 | 68.2 | 9.2 | 59.6 | 60.8 | 1.1 | 1.4 | AGRA Inc. |
| MSU Line D3234 | 6.8 | 3.9 | 68.3 | 10.7 | 58.8 | 49.9 | 6.3 | 5.2 | |
| MSU Line D3991 | 7.0 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 5.5 | . | |
| RS 927 | 7.8 | 5.7 | 70.5 | 10.4 | 56.8 | 48.6 | 2.2 | 2.6 | Rupp Seeds, Inc. |
| Chelsea | 7.7 | 5.1 | 70.9 | 9.6 | 54.5 | 54.3 | 7.8 | 6.7 | MI. Crop Imp. Assoc. |
| MSU Line D2295 | 7.6 | 4.6 | 68.9 | 10.4 | 57.7 | 52.8 | 8.2 | 7.3 | |
| Harus | 7.9 | 5.7 | 69.9 | 10.1 | 55.8 | 54.4 | 7.1 | 6.1 | MI. Crop Imp. Assoc. |
| Packard Brand | 7.8 | 6.3 | 69.3 | 9.7 | 56.7 | 58.5 | 2.0 | 1.7 | Coomer Seeds, Inc. |
| MSU Line D2088 | 8.0 | 5.8 | 69.3 | 9.8 | 57.5 | 50.6 | 8.8 | 7.9 | |
| Casey | 8.4 | 7.4 | 70.1 | 9.4 | 57.7 | 57.3 | 4.2 | 4.4 | Lakeside States Inc. |

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|-----------------------|-----|-----|------|------|------|------|-----|-----|-----------------------|
| Diana | 8.1 | 5.7 | 69.8 | 9.0 | 56.5 | 55.0 | 8.3 | 6.7 | Harrington Seeds Inc. |
| Cyrus Brand | 7.2 | 4.3 | 68.3 | 8.9 | 60.5 | 62.0 | 1.3 | 2.0 | Coomer Seeds, Inc. |
| Absolut | 8.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | . | Lakeside States Inc. |
| EX 971 | 8.2 | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | . | Coomer Seeds, Inc. |
| Elkhart | 7.6 | 6.0 | 70.4 | 11.6 | 57.2 | 51.5 | 1.2 | 1.5 | Agripro Seeds Inc. |
| MSU Line D1176 | 7.0 | 4.4 | 69.6 | 10.9 | 56.5 | 54.0 | 7.1 | 5.2 | |
| TW 91203 | 7.3 | 4.8 | 0.0 | 0.0 | 0.0 | 0.0 | 7.7 | . | Harrington Seeds Inc. |
| 92405R | 6.1 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 8.3 | . | Lakeside States Inc. |
| MSU Line D3176 | 8.0 | 7.0 | 71.0 | 9.8 | 53.7 | 55.2 | 2.2 | 3.6 | |
| SW403 | 7.8 | 7.5 | 69.4 | 10.2 | 55.9 | 56.0 | 2.0 | 1.8 | Stewart Seed Inc. |
| MSU Line D3414 | 8.4 | 7.7 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | . | |
| Terra SR211 (Exp 211) | 8.4 | 6.8 | 69.0 | 10.1 | 57.8 | 58.3 | 2.0 | 1.8 | Terra Industries |
| Patterson | 8.4 | 7.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.2 | . | MI. Crop Imp. Assoc. |
| 94334R | 7.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.3 | . | Lakeside States Inc. |
| Terra SR205 | 8.4 | 6.7 | 69.4 | 9.0 | 57.3 | 52.8 | 2.0 | 3.1 | Terra Industries |
| Clemens | 7.6 | 5.0 | 70.0 | 10.6 | 57.4 | 56.3 | 1.7 | 2.5 | Agripro Seeds Inc. |
| NC John | 8.0 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | 8.2 | . | The Andersons |
| Rupp X6-289 | 7.9 | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 | 3.4 | . | Rupp Seeds, Inc. |
| Pontiac | 8.2 | 7.4 | 68.8 | 10.8 | 58.2 | 50.9 | 4.9 | 3.3 | Agripro Seeds Inc. |

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