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Michigan Soybean Performance Report 1978  
Michigan State University Extension Service  
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# Michigan Soybean Performance Report 1978

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The Michigan Soybean Performance Report — 1978 provides information to farmers on the relative performance of many varieties available in Michigan.

Comprehensive variety trials were conducted in the southern peninsula at two locations, one in southeastern and one in central Michigan. Smaller trials were conducted in five other Michigan soybean growing areas. Results presented in this publication are designed to aid producers in selecting appropriate varieties for planting in 1979.

## Testing procedure

Commercial entries were obtained voluntarily from seed companies or their representatives. Names and addresses of these companies and their varieties are presented in Table 9. Seed of public varieties were supplied by the Michigan Foundation Seed Association. The two comprehensive trials were located in Gratiot and Monroe Counties, the five smaller trials in Bay, Berrien, Calhoun, Macomb, and Tuscola Counties.

Extension and farmer cooperators, planting and harvesting dates, fertilization practices, and soil type at the seven locations are listed in Table 1.

At all locations, each entry was a plot of four rows, 17 feet long. Row spacing was 28 or 30 inches and seeding rate was approximately 8 seeds per foot of row. Planting depth was 1½ inches. Each entry was replicated three times and randomized in the field. Thirteen feet of each of two center rows of a plot were harvested for yield determination.

Four-year yield data is presented for varieties in

the two comprehensive trials. Previous years' trial locations were as follows: 1977 — Monroe and Eaton County; 1976 — Lenawee and Eaton County; and 1975 — Monroe and Ingham County. Testing procedures in previous years were similar to those in 1978.

## Evaluation of characters

Descriptions of varietal characteristics are presented below.

**Yield** — Harvested seed was dried to a uniform moisture. Yields were expressed in bushels per acre at 13% moisture.

**Maturity Date** — An entry was considered mature when the pods had turned brown and would crack under finger pressure. Dates were recorded by month and day.

**Lodging** — Lodging ratings were as follows: 1 = all plants upright; 2 = slight lodging; 3 = plants lodged at 45° angle; 4 = severe lodging; 5 = all plants completely flat. The ratings were made just prior to harvest.

**Height** — Plant height was measured in inches from the soil surface to the top node (with at least one pod) of the main stem. The measurement was made in advance of harvest.

**Seed Size** — The number of seeds per pound was determined as an expression of seed size. The determination of seeds per pound was made on cleaned seed.

## Results

Results of the 1978 variety trials are presented in Tables 2 through 8. Values presented are averages of the three replications at each location.

Growing conditions were extremely variable among locations. Droughty conditions and hail caused poor yields in the Macomb County trial. Hail and severe weed infestations, causing harvesting problems, resulted in incomplete yield data for the Berrien County trial. Deer damage and soil variability among plots in Calhoun County produced variation across replications resulting in no significant differences among varieties.

LSD (least significant difference) values for yield are presented at the bottom of Tables 2 through 8. Two varieties that may have similar genetic potential for yield may nevertheless differ in yield because of variations in soil fertility and other environmental characteristics among plots at trial locations. To determine if two varieties actually differ in their genetic potential for yield, LSD values can be used. If the difference between two varieties is greater than the LSD (.05) value there is 95% or greater probability that those two varieties actually differ in performance. For example, in the Tuscola County trial (see Table 8) the LSD value is 3.5 bu/A. Amsoy 71 yielded 32.3 bu/A whereas Evans yielded 24.3 bu/A. The difference is 8.0 bu/A which is greater than the LSD value, thus Amsoy 71 performed significantly better than Evans. Conversely, the yields of Steele and Evans differ by only 1.1 bu/A which is less than the LSD value. Therefore, the small difference between these two varieties could be the result of environmental factors or experimental error.

### Selecting a variety

Scientifically conducted yield trials on an individual's farm for several years would provide the best information on variety performance. Because such trials are impractical for each farmer to conduct, results of variety trials conducted by the university in combination with other helpful information and past experiences can be used by farmers to select a variety.

The primary consideration in selecting a variety is harvestable yield. Yield performance over several years should be considered, if available, when evaluating a variety. Preference should be given to data obtained in the nearest variety trial. However, all trials should be considered in determining a variety's performance under various environmental conditions.

Considerations other than yield are important in selecting a variety and in some cases result in choosing a variety with only moderate performance. Selecting a variety with a proper maturity date is of

prime importance. From past weather data, farmers can determine the percent probability of when the first frost will occur in the fall. Choosing a variety that will reach maturity (see maturity date definition) just prior to the average date of the first damaging frost will normally result in best yields. Farmers growing soybeans for the first time may wish to contact neighbors to determine what varieties typically mature before frost in their area. If large acreages are planted to soybeans, consider growing varieties of different maturities to provide staggered maturity dates to allow for a longer harvest season.

The degree of lodging varies among varieties. Farmers who have experienced lodging in the past and have had problems combining these beans may want to select a more lodging resistant variety. Alternately, a variety susceptible to lodging may be planted at a slightly lower population in an effort to increase standability. Data on lodging should be evaluated over all locations to determine a particular variety's lodging characteristics.

Seed size should be noted when selecting planting rates. Planting rates based on number of seeds per foot of row eliminates seed size bias.

Several diseases have caused yield reduction in Michigan. Phytophthora root rot has been a serious problem in some areas. Some varieties exhibit field tolerance to one or more of the races of this disease. Seed dealers can usually provide growers with information on Phytophthora and other disease resistant characteristics of the varieties they sell.

It is often beneficial for growers to select a few good varieties for planting each year. Yield determination and careful field evaluation during the growing season will add to the grower's knowledge of varietal performance and allow better selection in following years.

### Use of data

All data presented, except the 1975-1978 average, are of varietal performance in 1978. Order of the varieties in no way implies superiority of one over another.

The presentation of data for the entries tested does not suggest approval or endorsement of varieties by the authors or by those responsible and involved with conducting the performance trials.

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The authors regret any errors that may appear in this bulletin.

**Table 1. Variety Trial Information.**

| County  | Coop. Exten. Service Cooperator   | Farmer Cooperator             | Address                        | Soil Type                   | Planting Date | Fertilization                          | Harvest Date    |
|---------|-----------------------------------|-------------------------------|--------------------------------|-----------------------------|---------------|--|-----------------|
| BAY     | Russel Howes<br>Arenac County     | Wm. Mueller & Son<br>Elevator | Pinconning                     | Kawkawlin loam              | 5-23          | 200 lbs. 9-18-9<br>200 lbs. 15-15-15   | 10-17           |
| BERRIEN | Clare Musgrove                    | Robert Lamberton              | 2902 Creek Rd.<br>Niles        | Ockley-Oshtemo<br>silt loam | 5-26          | 200 lbs. 6-24-24                       | 10-12           |
| CALHOUN | James Swart                       | Jeff Fountain                 | 16086 22½ Mi.<br>Rd., Marshall | Hillsdale sandy<br>loam     | 5-17          | 200 lbs. 9-23-30<br>30 lbs. Sul-Po-Mg. | 9-29            |
| MACOMB  | Simo Pynnonen<br>St. Clair County | Roy Grennia                   | Kronner Road<br>Richmond       | Brookston-Conover           | 5-24          | 200 lbs. 0-0-60<br>25-100-38           | 10-9            |
| TUSCOLA | Don Kebler                        | Charles Witkovsky             | Cleaver Road<br>Caro           | Parkhill silt loam          | 5-24          | 150 lbs. 15-30-15                      | 10-17           |
| GRATIOT | Gregory Varner                    | Clarence Reeves               | Baldwin Road<br>Ithaca         | Parkhill loam               | 5-22          | 250 lbs. 6-24-24                       | 10-5, 28, 29    |
| MONROE  | Paul Nevel                        | Frank Smith Jr.<br>& Sons     | Indian Trail<br>Carleton       | Toledo silty clay<br>loam   | 5-25          | 425 lbs. 6-24-24                       | 9-30, 10-12, 21 |

**Table 2. Southeastern Michigan, 1978 — MONROE COUNTY.**

| Variety      | 1978 Yield (Bu/A) | 1975-1978 Avg. Yield (Bu/A) | Maturity Date | Lodging | Height (inches) | Seed Size (seeds/lb) |
|--------------|-------------------|-----------------------------|---------------|---------|-----------------|----------------------|
| Hark         | 22.2              | 32.5                        | 9-21          | 1.1     | 30              | 2592                 |
| Harosoy 63   | 28.3              | 33.8*                       | 9-19          | 1.4     | 38              | 2291                 |
| Corsoy       | 30.7              | 39.8                        | 9-17          | 1.0     | 34              | 2090                 |
| Beeson       | 30.1              |                             | 9-19          | 1.4     | 33              | 1507                 |
| Amsoy 71     | 30.5              | 37.6                        | 9-21          | 1.5     | 34              | 2387                 |
| Hodgson      | 25.1              | 33.0                        | 9-16          | 1.1     | 28              | 2387                 |
| Evans        | 24.4              | 28.6                        | 9-19          | 1.0     | 31              | 2387                 |
| Steele       | 25.8              | 32.3                        | 9-18          | 1.0     | 30              | 2016                 |
| Coles        | 21.6              |                             | 9-21          | 1.1     | 30              | 2016                 |
| APS150       | 23.1              |                             | 9-23          | 1.3     | 27              | 2387                 |
| APS200       | 25.2              |                             | 9-26          | 1.5     | 30              | 2387                 |
| JFI 114      | 31.9              |                             | 10-2          | 2.0     | 34              | 2160                 |
| JFI 112      | 25.8              |                             | 9-20          | 1.5     | 34              | 2387                 |
| JFI 106 SB4  | 25.6              |                             | 9-25          | 1.4     | 32              | 2520                 |
| JFI 105      | 32.0              |                             | 10-3          | 1.5     | 34              | 2110                 |
| JFI 104      | 29.5              |                             | 9-19          | 1.0     | 31              | 2653                 |
| JFI 103      | 27.9              |                             | 9-19          | 1.1     | 26              | 2362                 |
| SRF 150P     | 24.1              | 34.2                        | 9-19          | 1.1     | 30              | 2835                 |
| SRF 200      | 31.7              | 39.3                        | 9-20          | 1.2     | 34              | 2926                 |
| SRF 307P     | 34.1              |                             | 10-1          | 2.3     | 36              | 2520                 |
| Pfizer CX155 | 26.3              |                             | 9-20          | 1.3     | 30              | 2592                 |
| Pfizer EC179 | 26.1              |                             | 9-20          | 1.3     | 32              | 2653                 |
| Pfizer CX275 | 36.3              |                             | 9-27          | 1.3     | 31              | 2268                 |
| Pfizer CX276 | 30.0              |                             | 9-29          | 1.7     | 34              | 2413                 |
| Pfizer CX290 | 28.0              |                             | 9-24          | 1.5     | 32              | 2362                 |
| Pfizer CB200 | 27.2              |                             | 9-18          | 1.2     | 32              | 2684                 |
| Pfizer CB244 | 24.3              |                             | 9-24          | 1.6     | 34              | 2520                 |
| ACCO 201     | 23.5              |                             | 9-19          | 1.5     | 26              | 2548                 |

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Monroe County, (Continued)

| Variety      | 1978<br>Yield<br>(Bu/A) | 1975-1978<br>Avg. Yield<br>(Bu/A) | Maturity<br>Date | Lodging | Height<br>(inches) | Seed Size<br>(seeds/lb) |
|--------------|-------------------------|-----------------------------------|------------------|---------|--------------------|-------------------------|
| A141         | 24.4                    |                                   | 9-20             | 1.2     | 33                 | 2387                    |
| A143         | 26.5                    |                                   | 9-19             | 1.4     | 33                 | 2452                    |
| A232         | 32.2                    |                                   | 9-26             | 1.8     | 32                 | 2668                    |
| Agripro AP10 | 26.9                    |                                   | 9-18             | 1.0     | 37                 | 2520                    |
| Agripro 14   | 25.2                    |                                   | 9-16             | 1.4     | 29                 | 2637                    |
| Agripro 18   | 25.8                    | 32.5*                             | 9-19             | 1.5     | 33                 | 2160                    |
| Agripro 20   | 26.7                    | 37.1                              | 9-24             | 1.5     | 30                 | 2268                    |
| EX00330      | 29.8                    |                                   | 9-20             | 1.4     | 31                 | 3024                    |
| EX00136      | 26.3                    |                                   | 9-19             | 1.1     | 29                 | 2835                    |
| NK Blend 31  | 23.5                    |                                   | 9-18             | 1.4     | 32                 | 2592                    |
| NK S1492     | 27.4                    | 36.0*                             | 9-22             | 1.1     | 27                 | 2749                    |
| NK S1346     | 18.2                    | 32.0                              | 9-16             | 1.0     | 22                 | 2492                    |
| NK Blend 42  | 23.1                    |                                   | 9-17             | 1.1     | 23                 | 2520                    |
| NK Blend 52  | 27.6                    |                                   | 9-24             | 1.5     | 31                 | 2684                    |
| NK S1474     | 27.4                    | 38.7                              | 9-24             | 2.0     | 34                 | 2668                    |
| Pride B216   | 26.7                    | 38.9                              | 9-20             | 1.3     | 30                 | 2668                    |
| Pride B186   | 17.7                    | 31.1                              | 9-17             | 1.1     | 31                 | 2452                    |
| P0877        | 19.0                    |                                   | 9-17             | 1.0     | 23                 | 2622                    |
| P3100        | 29.9                    |                                   | 9-20             | 1.1     | 30                 | 2835                    |
| P105-P       | 23.8                    |                                   | 9-22             | 1.2     | 35                 | 2592                    |
| P3105        | 31.2                    | 40.1*                             | 9-29             | 1.6     | 33                 | 2520                    |
| P-85         | 19.2                    | 23.9*                             | 9-17             | 1.0     | 22                 | 2387                    |
| P2877        | 28.5                    |                                   | 9-25             | 1.1     | 30                 | 2716                    |
| P118-11      | 24.7                    | 30.2*                             | 9-19             | 1.3     | 28                 | 2668                    |
| P2477        | 27.4                    |                                   | 9-22             | 1.1     | 30                 | 3812                    |
| P1677        | 28.4                    |                                   | 9-17             | 1.0     | 25                 | 2835                    |
| J98          | 26.3                    | 34.9                              | 9-17             | 1.1     | 33                 | 2700                    |
| J102A        | 28.6                    |                                   | 9-19             | 1.3     | 31                 | 2607                    |
| J106         | 23.8                    |                                   | 10-3             | 1.4     | 31                 | 2268                    |
| VS135        | 31.1                    |                                   | 9-20             | 1.0     | 35                 | 2668                    |
| VB200        | 31.2                    |                                   | 9-27             | 1.5     | 34                 | 2592                    |
| VS285        | 31.2                    | 36.8*                             | 10-3             | 2.2     | 35                 | 2326                    |
| Asgrow A1564 | 28.1                    |                                   | 9-17             | 1.3     | 30                 | 2452                    |
| Asgrow A2440 | 27.1                    |                                   | 9-20             | 1.0     | 31                 | 2668                    |
| Asgrow A2575 | 27.7                    |                                   | 9-16             | 1.0     | 31                 | 2668                    |
| Asgrow A2656 | 31.8                    |                                   | 9-20             | 1.5     | 34                 | 2400                    |
| Beam         | 25.7                    |                                   | 9-20             | 1.8     | 32                 | 2871                    |
| Viking       | 30.3                    |                                   | 9-26             | 1.7     | 33                 | 2749                    |
| V.R.6028     | 31.4                    |                                   | 9-25             | 1.6     | 35                 | 2577                    |
| Burr         | 22.1                    |                                   | 9-30             | 1.9     | 34                 | 2452                    |
| Classic I    | 28.3                    |                                   | 9-24             | 1.7     | 32                 | 2835                    |
| FFR 223      | 34.6                    |                                   | 9-21             | 1.7     | 34                 | 2520                    |
| FFR 338      | 35.6                    |                                   | 10-2             | 1.5     | 35                 | 2534                    |
| FFR 1050     | 32.9                    |                                   | 10-2             | 1.9     | 34                 | 2592                    |
| LSD (.05) =  | 7.5                     |                                   |                  |         |                    |                         |

\*1976-78 three year averages only

Table 3. Central Michigan, 1978 — GRATIOT COUNTY.

| Variety      | 1978<br>Yield<br>(Bu/A) | 1975-1978<br>Avg. Yield<br>(Bu/A) | Maturity<br>Date | Lodging | Height<br>(inches) | Seed Size<br>(seeds/lb) |
|--------------|-------------------------|-----------------------------------|------------------|---------|--------------------|-------------------------|
| Hark         | 38.8                    | 34.8                              | 9-23             | 1.3     | 34                 | 2160                    |
| Harosoy 63   | 33.8                    |                                   | 9-28             | 2.0     | 39                 | 1972                    |
| Corsoy       | 42.3                    | 40.1                              | 9-27             | 2.4     | 37                 | 2268                    |
| Beeson       | 53.2                    |                                   | 10-8             | 2.4     | 39                 | 1890                    |
| Amsoy 71     | 40.2                    | 38.2                              | 10-6             | 2.5     | 41                 | 2062                    |
| Hodgson      | 42.4                    | 41.5                              | 9-22             | 2.0     | 35                 | 2268                    |
| Evans        | 34.3                    | 33.6                              | 9-22             | 1.5     | 34                 | 2362                    |
| Steele       | 33.7                    | 33.2                              | 9-22             | 1.8     | 37                 | 2016                    |
| Coles        | 43.8                    |                                   | 9-25             | 2.6     | 39                 | 1898                    |
| APS150       | 38.5                    |                                   | 9-24             | 2.0     | 34                 | 1989                    |
| APS200       | 44.1                    |                                   | 10-8             | 2.3     | 37                 | 2043                    |
| JFI 112      | 39.7                    |                                   | 10-1             | 2.5     | 38                 | 2160                    |
| JFI 106 SB4  | 41.8                    |                                   | 9-29             | 2.8     | 38                 | 2291                    |
| JFI 105      | 44.6                    |                                   | 10-12            | 2.0     | 38                 | 2150                    |
| JFI 104      | 41.2                    |                                   | 9-20             | 1.6     | 34                 | 2268                    |
| JFI 103      | 37.3                    |                                   | 9-22             | 1.5     | 33                 | 2081                    |
| SRF 150P     | 41.6                    | 39.8                              | 9-25             | 1.0     | 34                 | 2268                    |
| SRF 200      | 42.7                    | 36.9                              | 9-30             | 2.3     | 37                 | 2246                    |
| SRF 307P     | 47.8                    |                                   | 10-15            | 5.0     | 45                 | 2268                    |
| Pfizer CX155 | 38.5                    |                                   | 9-28             | 2.3     | 36                 | 2268                    |
| Pfizer EC179 | 37.4                    |                                   | 10-4             | 2.0     | 37                 | 2268                    |
| Pfizer CX275 | 43.4                    |                                   | 10-5             | 3.3     | 40                 | 2160                    |
| Pfizer CX276 | 41.5                    |                                   | 10-5             | 3.0     | 42                 | 2268                    |
| Pfizer CX290 | 41.2                    |                                   | 10-9             | 2.1     | 40                 | 2213                    |
| Pfizer CB200 | 44.2                    |                                   | 10-7             | 3.3     | 42                 | 2387                    |
| Pfizer CB244 | 45.8                    |                                   | 10-12            | 2.5     | 37                 | 2160                    |
| ACCO 101     | 31.2                    |                                   | 9-23             | 1.9     | 36                 | 2062                    |
| ACCO 201     | 38.8                    |                                   | 9-28             | 1.8     | 35                 | 2016                    |
| A141         | 40.9                    |                                   | 9-23             | 2.0     | 37                 | 2150                    |
| Agripro AP10 | 39.4                    |                                   | 9-21             | 1.0     | 32                 | 2213                    |
| Agripro 14   | 41.7                    |                                   | 9-23             | 2.5     | 33                 | 1955                    |
| Agripro 18   | 41.3                    |                                   | 9-27             | 1.9     | 37                 | 2140                    |
| Agripro 20   | 38.4                    |                                   | 10-9             | 2.4     | 38                 | 1930                    |
| NK Blend 31  | 33.0                    |                                   | 9-21             | 2.0     | 35                 | 2520                    |
| NK S1492     | 43.1                    | 40.7*                             | 9-30             | 2.0     | 35                 | 2326                    |
| NK S1346     | 36.8                    | 40.5                              | 9-20             | 1.0     | 27                 | 2268                    |
| NK Blend 42  | 39.7                    |                                   | 9-20             | 1.5     | 34                 | 2268                    |
| NK Blend 52  | 44.8                    |                                   | 10-5             | 2.7     | 38                 | 2268                    |
| NK S1474     | 41.3                    | 41.8                              | 10-5             | 3.6     | 40                 | 2213                    |
| Pride B216   | 43.7                    | 41.2                              | 9-27             | 1.5     | 37                 | 2160                    |
| Pride B186   | 37.7                    | 36.0                              | 9-21             | 1.8     | 36                 | 2268                    |
| P0877        | 27.0                    |                                   | 9-21             | 1.8     | 32                 | 2362                    |
| P3100        | 32.7                    | 37.2*                             | 10-5             | 2.0     | 35                 | 2160                    |
| P105-P       | 45.3                    |                                   | 10-1             | 2.1     | 37                 | 2062                    |
| P3105        | 42.1                    | 39.6*                             | 10-9             | 3.4     | 41                 | 2268                    |
| P-85         | 31.8                    | 32.7*                             | 9-20             | 1.0     | 29                 | 1972                    |
| P2877        | 40.7                    |                                   | 10-7             | 2.1     | 39                 | 2213                    |
| P118-11      | 36.8                    | 37.8*                             | 9-25             | 1.8     | 30                 | 2387                    |

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Gratiot County, (Continued)

| Variety      | 1978<br>Yield<br>(Bu/A) | 1975-1978<br>Avg. Yield<br>(Bu/A) | Maturity<br>Date | Lodging | Height<br>(inches) | Seed Size<br>(seeds/lb) |
|--------------|-------------------------|-----------------------------------|------------------|---------|--------------------|-------------------------|
| P2477        | 43.2                    |                                   | 10-5             | 2.5     | 40                 | 2062                    |
| P1677        | 42.4                    |                                   | 9-26             | 1.4     | 32                 | 2835                    |
| J98          | 41.4                    | 41.7                              | 10-4             | 2.0     | 38                 | 2213                    |
| J102A        | 40.5                    |                                   | 10-2             | 2.2     | 36                 | 2326                    |
| J106         | 42.4                    |                                   | 10-9             | 2.4     | 38                 | 1822                    |
| VB100        | 44.2                    |                                   | 9-24             | 1.8     | 36                 | 2213                    |
| VS135        | 41.5                    |                                   | 9-28             | 2.4     | 38                 | 2303                    |
| VB200        | 44.1                    |                                   | 10-4             | 2.3     | 41                 | 2160                    |
| VS245        | 40.0                    | 38.0*                             | 10-2             | 2.4     | 38                 | 2375                    |
| Asgrow A1564 | 33.2                    |                                   | 9-25             | 1.4     | 34                 | 2110                    |
| Asgrow A2440 | 31.6                    |                                   | 10-4             | 1.9     | 35                 | 2268                    |
| Asgrow A2575 | 40.7                    |                                   | 10-1             | 1.1     | 37                 | 2160                    |
| Asgrow A2656 | 44.8                    |                                   | 10-4             | 2.2     | 35                 | 2062                    |
| Beam         | 36.2                    |                                   | 9-30             | 2.0     | 34                 | 2268                    |
| Viking       | 39.9                    |                                   | 10-5             | 2.2     | 37                 | 2213                    |
| V.R.6028     | 39.9                    |                                   | 10-6             | 2.4     | 41                 | 2062                    |
| LSD(.05) =   | 7.4                     |                                   |                  |         |                    |                         |

\*1976-78 three year averages only

Table 4. BAY COUNTY.

| Variety     | Yield<br>(Bu/A) | Maturity<br>Date | Height<br>(inches) | Lodging |
|-------------|-----------------|------------------|--------------------|---------|
| Amsoy 71    | 37.8            | 9-29             | 42                 | 2.3     |
| Beeson      | 38.5            | 10-1             | 38                 | 1.3     |
| Coles       | 35.6            | 9-20             | 33                 | 1.3     |
| Corsoy      | 36.2            | 9-23             | 41                 | 2.5     |
| Evans       | 36.7            | 9-9              | 32                 | 1.2     |
| Hark        | 34.8            | 9-21             | 36                 | 1.0     |
| Harosoy 63  | 31.0            | 9-22             | 44                 | 3.5     |
| Hodgson     | 42.6            | 9-19             | 33                 | 1.2     |
| Steele      | 41.6            | 9-12             | 34                 | 1.2     |
| SRF 150P    | 44.6            | 9-20             | 34                 | 1.0     |
| Agripro 10  | 38.8            | 9-13             | 34                 | 1.0     |
| Agripro 14  | 42.9            | 9-19             | 38                 | 1.5     |
| Agripro 18  | 40.6            | 9-21             | 35                 | 1.3     |
| Viking      | 35.9            | 9-25             | 40                 | 1.8     |
| Pride 216   | 40.5            | 9-26             | 36                 | 1.3     |
| Beam        | 40.5            | 9-29             | 37                 | 1.3     |
| Wells       | 33.1            | 9-26             | 34                 | 1.3     |
| Jacques 98  | 37.8            | 9-26             | 33                 | 1.5     |
| Jacques 104 | 38.6            | 9-30             | 37                 | 1.8     |
| Asgrow 2440 | 41.8            | 9-25             | 38                 | 1.5     |
| LSD (.05) = | 7.9             |                  |                    |         |

Table 5. BERRIEN COUNTY.

| Variety       | Yield<br>(Bu/A) | Maturity<br>Date | Height<br>(inches) | Lodging |
|---------------|-----------------|------------------|--------------------|---------|
| Amsoy 71      | —               | 9-25             | 34                 | 2.2     |
| Beeson        | —               | 9-27             | 30                 | 1.8     |
| Coles         | 27.3            | 9-21             | 32                 | 2.2     |
| Corsoy        | 27.3            | 9-22             | 34                 | 2.2     |
| Evans         | —               | 9-14             | 29                 | 1.0     |
| Hark          | —               | 9-22             | 30                 | 1.8     |
| Harosoy 63    | —               | 9-23             | 34                 | 2.8     |
| Hodgson       | —               | 9-19             | 28                 | 1.3     |
| Steele        | —               | 9-17             | 32                 | 1.5     |
| SRF 150P      | —               | 9-20             | 27                 | 1.0     |
| SRF 200       | 22.0            | 9-26             | 30                 | 1.3     |
| SRF 307P      | —               | 10-2             | 39                 | 4.0     |
| Peterson 3105 | 25.0            | 10-1             | 35                 | 2.7     |
| Wayne         | 23.4            | 10-2             | 36                 | 3.5     |
| NK S1474      | —               | 9-27             | 34                 | 2.0     |
| Agripro 18    | 23.4            | 9-23             | 32                 | 1.7     |
| Agripro 20    | —               | 9-28             | 31                 | 1.7     |
| McKoy 1100    | —               | 9-23             | 32                 | 1.5     |
| Asgrow 2440   | 20.2            | 9-25             | 34                 | 2.8     |
| Asgrow 2656   | 26.4            | 9-26             | 34                 | 1.8     |
| LSD =         | not calculated  |                  |                    |         |

Table 6. CALHOUN COUNTY.

| Variety                                | Yield<br>(Bu/A) | Maturity<br>Date | Height<br>(inches) | Lodging |
|--|-----------------|------------------|--------------------|---------|
| Amsoy 71                               | 31.9            | 9-19             | 36                 | 1.0     |
| Beeson                                 | 28.6            | 9-20             | 31                 | 1.2     |
| Coles                                  | 30.2            | 9-17             | 33                 | 1.3     |
| Corsoy                                 | 32.0            | 9-18             | 34                 | 1.7     |
| Evans                                  | 26.7            | 9-10             | 26                 | 1.0     |
| Hark                                   | 26.7            | 9-17             | 30                 | 1.0     |
| Harosoy 63                             | 27.8            | 9-19             | 34                 | 1.8     |
| Hodgson                                | 25.2            | 9-15             | 28                 | 1.2     |
| Steele                                 | 23.2            | 9-11             | 28                 | 1.0     |
| SRF 150P                               | 27.7            | 9-15             | 29                 | 1.0     |
| SRF 200                                | 29.0            | 9-18             | 32                 | 1.0     |
| Asgrow 2440                            | 34.0            | 9-19             | 31                 | 1.3     |
| Asgrow 2656                            | 34.0            | 9-18             | 35                 | 1.5     |
| Viking                                 | 24.0            | 9-21             | 32                 | 1.2     |
| Buccaneer                              | 28.3            | 9-22             | 32                 | 1.0     |
| Gutwein 180                            | 24.0            | 9-16             | 26                 | 1.0     |
| Agripro 20                             | 28.1            | 9-22             | 32                 | 1.0     |
| NK S1474                               | 30.2            | 9-21             | 31                 | 1.7     |
| NK S1492                               | 28.4            | 9-20             | 26                 | 1.0     |
| Wells                                  | 28.9            | 9-19             | 30                 | 1.0     |
| LSD (.05) = no significant differences |                 |                  |                    |         |

Table 8. TUSCOLA COUNTY.

| Variety         | Yield<br>(Bu/A) | Maturity<br>Date | Height<br>(inches) | Lodging |
|-----------------|-----------------|------------------|--------------------|---------|
| Amsoy 71        | 32.3            | 10-1             | 36                 | 2.0     |
| Beeson          | 31.2            | 10-4             | 34                 | 2.7     |
| Coles           | 27.7            | 9-23             | 36                 | 2.2     |
| Corsoy          | 32.2            | 9-29             | 35                 | 2.0     |
| Evans           | 24.3            | 9-18             | 26                 | 1.8     |
| Hark            | 28.2            | 9-25             | 30                 | 1.2     |
| Harosoy 63      | 24.3            | 9-29             | 35                 | 2.8     |
| Hodgson         | 33.7            | 9-22             | 30                 | 2.0     |
| Steele          | 25.4            | 9-19             | 30                 | 2.8     |
| SRF 150P        | 28.2            | 9-26             | 30                 | 1.2     |
| SRF 200         | 29.1            | 9-30             | 34                 | 2.2     |
| Asgrow 2440     | 28.9            | 10-1             | 37                 | 2.7     |
| Asgrow 2656     | 34.4            | 10-1             | 34                 | 1.8     |
| FFR 111         | 23.3            | 9-30             | 35                 | 2.3     |
| Agripro 10      | 30.8            | 9-20             | 29                 | 1.5     |
| Jacques 98      | 33.5            | 9-28             | 34                 | 2.0     |
| Jacques 104     | 34.5            | 10-2             | 36                 | 2.7     |
| NK S1474        | 31.9            | 10-3             | 35                 | 2.0     |
| Viking          | 27.6            | 10-1             | 33                 | 3.0     |
| Wells           | 30.3            | 10-1             | 31                 | 1.2     |
| LSD (.05) = 3.5 |                 |                  |                    |         |

Table 7. MACOMB COUNTY.

| Variety         | Yield<br>(Bu/A) | Maturity<br>Date | Height<br>(inches) | Lodging |
|-----------------|-----------------|------------------|--------------------|---------|
| Amsoy 71        | 13.9            | 9-30             | 27                 | 1.0     |
| Beeson          | 20.8            | 10-2             | 28                 | 1.0     |
| Coles           | 17.5            | 9-25             | 25                 | 1.0     |
| Corsoy          | 14.9            | 9-28             | 25                 | 1.0     |
| Evans           | 14.7            | 9-18             | 24                 | 1.0     |
| Hark            | 13.2            | 9-29             | 24                 | 1.0     |
| Harosoy 63      | 14.0            | 9-27             | 29                 | 1.0     |
| Hodgson         | 19.1            | 9-17             | 25                 | 1.0     |
| Steele          | 15.1            | 9-19             | 24                 | 1.3     |
| SRF 150P        | 16.6            | 9-27             | 23                 | 1.0     |
| SRF 200         | 13.1            | 9-30             | 27                 | 1.2     |
| Viking          | 19.0            | 9-28             | 26                 | 1.0     |
| Agripro 14      | 18.5            | 9-23             | 26                 | 1.0     |
| Agripro 18      | 18.7            | 9-30             | 27                 | 1.2     |
| Agripro 20      | 16.7            | 10-1             | 28                 | 1.0     |
| NK S1244        | 14.4            | 9-19             | 25                 | 1.0     |
| NK 51           | 14.9            | 10-1             | 27                 | 1.3     |
| Jacques 98      | 14.7            | 9-29             | 27                 | 1.2     |
| Jacques 104     | 17.8            | 9-30             | 27                 | 1.2     |
| Wells           | 14.6            | 9-29             | 26                 | 1.0     |
| LSD (.05) = 4.1 |                 |                  |                    |         |

Table 9. Seed Sources.

| Source  | Brand    | Entry  |
|---|----------|--|
| Public Releases   |          | Hark, Harosoy 63,<br>Corsoy, Beeson,<br>Amsoy 71,<br>Hodgson, Evans,<br>Steele, Coles,<br>Wayne, Wells |
| ACCO Seed Company<br>Belmond, IA                                      | ACCO     | 101, 201   |
| The Andersons<br>Maumee, OH   | APS      | 150, 200   |
| Asgrow Seed Company<br>Des Moines, IA                                 | Asgrow A | 1564, 2440<br>2575, 2656   |
| Dairyland Research<br>Kewaskum, WI                                    | A        | 141, 143, 232  |
| Farmers Forage Research<br>Cooperative (FFR Coop)<br>W. Lafayette, IN | FFR      | 111, 223,<br>338, 1050   |
| Ferry-Morse Seed Company<br>Genesco, IL                               | McKoy    | 1100   |
| Fred Gutwein and Sons<br>Francesville, IN                             | Gutwein  | 180  |
| Jacob Farms, Inc.<br>Blissfield, MI                                   | JFI      | 103, 104, 105<br>106SB4,<br>112, 114   |
| Jacques Seed Company<br>Prescott, WI                                  | J        | 98, 102A,<br>104, 106  |

Continued, page 8

Seed Sources (Continued)

| Source  | Brand          | Entry   |
|---|----------------|---|
| North American Plant Breeders<br>Ames, IA     | Agripro        | AP10, 10, 14, 18, 20, EX00330, EX00136                  |
| Northrup King Company<br>Washington, IA       | NK<br>Blend, S | 31, 42, 51, 52, 1244, 1346, 1474, 1492                  |
| Peterson Seed Division<br>Grand Rapids, OH    | P              | 0877, 3100, 105-P, 3105, P-85, 2877, 118-11, 2477, 1677 |
| Pfizer Genetics<br>Beaman, IA                 | Pfizer         | CX155, EC179, CX275, CX276, CX290, CB200, CB244         |
| Pride Co., Inc.<br>Glenhaven, WI              | Pride          | B186, B216  |
| Soybean Research Foundation<br>Mason City, IL | SRF            | 150P, 200, 307P   |
| Voris Seeds, Inc.<br>Windfall, IN             | VB, VS         | VB100, VB120, VS135, VB200, VS245                       |
| V. R. Seeds Inc.<br>Flora, IN                 |                | Beam, Buccaneer, Viking, V.R. 6028, Burr, Classic I     |

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1P-1R-6M-1:79-UP, Price 20 cents  
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