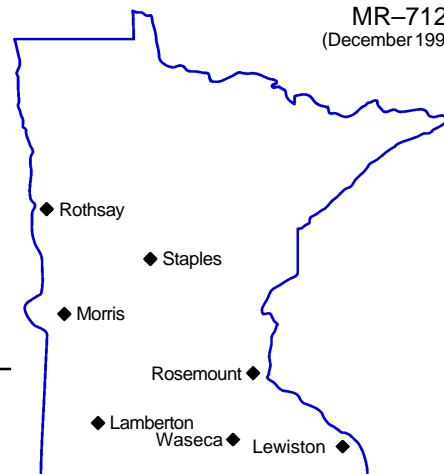


# Minnesota Agricultural Experiment Station

# VARIETY TRIALS

## Corn



Locations of corn trials.

Successful production of corn depends on selecting the best yielding hybrids. The hybrids entered in these trials are compared for yield in test plots on Minnesota Agricultural Experiment Station fields at Rosemount, Waseca, Lewiston, Lambertson, Morris, Rothsay and Staples. These plots are handled so that factors affecting yield are as nearly the same for all hybrids being tested as is possible.

Test results are organized by and reported for three Minnesota growing zones (classified as southern, central and northern), and a variety of relative maturity groupings within each zone.

The companies participating in the 1997 Minnesota Corn Hybrid Evaluation Program, the results of which are communicated in this report, are listed in Table 1. Entry fees paid by those companies partly finance the testing program.

### Interpreting the Tables

The LSD (Least Significant Difference) figures at the bottom of the yield columns in the tables are statistical measures of variability in the trials. This value may be used to determine if the difference between any two hybrids is likely to be a real difference rather than just natural variation.

LSD values of 20 percent are given in several tables. When the difference between the yields of two hybrids is

equal to or greater than the LSD, the conclusion is that there is an 80 percent chance that the yield difference is real and the higher yielding hybrid should be considered the better hybrid from the yield standpoint.

If the yield difference between two hybrids is less than the LSD, the two hybrids probably do not differ in yield potential, and greater attention should be given to other traits important in making your hybrid choices.

### Authors/Researchers

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Publication Chair ..... Deon Stuthman  
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***For Crop Production 1998*** \_\_\_\_\_

# **CORN** **VARIETY TRIALS**

**Minnesota Agricultural Experiment Station — University of Minnesota  
December 1997**

Results of the Minnesota Corn Hybrid Evaluation Program, conducted by the Minnesota Agricultural Experiment Station to provide unbiased information for use by corn growers evaluating which varieties to buy and grow. Compiled by agronomist Dale R. Hicks (phone: 612/625-1796; e-mail: <hicks004@maroon.tc.umn.edu>), Department of Agronomy and Plant Genetics, University of Minnesota, St. Paul, MN 55108. The program was financed in part by entry fees from private seed companies that chose to enter their hybrids for testing.

## **Test Parameters**

Evaluations of corn hybrids submitted for testing were conducted at sites across three Minnesota growing zones (southern, central and northern), and in a variety of relative maturity (RM) groups. The test locations and maturity groupings were:

- Southern Zone: Lamberton, Waseca, and Lewiston
  - Early Maturity Trial — 105 Maturity and earlier
  - Late Maturity Trial — 110 and 115 RM
- Central Zone: Morris and Rosemount
  - Early Maturity Trial — 95 RM and earlier
  - Late Maturity Trial — 100 and 105 RM
- Northern Zone: Staples and Rothsay
  - All entries 90 RM and earlier

Result tables within this report are organized in concordance with these testing groups.

Each participating corn seed company was allowed to submit up to six hybrids per zone for testing. The appropriateness of any entry for a specific trial zone was based on the Relative Maturity (RM) provided by the company. The University of Minnesota Corn Testing Committee was also allowed to choose and enter additional hybrids in each test. For this reason, there may be more than six hybrids for a company in a test.

## **Presentation and Use of Data**

Yields are given for individual locations, and yields and harvest moisture contents are averaged across locations for 1997. Hybrids are ranked within a maturity group by moisture

content averaged across locations for 1997. For hybrids that were tested for the past two years, yields and harvest moisture contents are averaged across years and locations.

The best indication of performance next year comes from the performance shown in the multiple location yield column. Yields from individual locations are given, but more emphasis should be given to the multiple location yield data. Ranking of hybrids on the basis of yield from high to low may change from location to location. However, high yielding hybrids at one location usually are high yielding hybrids at another location and the multiple location average is the best predictor of performance next year at any given location.

Table 1. Companies participating in the 1997 corn variety trials.

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Albert Lea Seed House (Viking Hybrids), Box 127, 1414 W. Main, Albert Lea, MN 56007  
Anderson Seeds, Rt. 3, Box 94, St. Peter, MN 56082  
Asgrow Seed Co., P.O. Box 7570, Des Moines, IA 50322  
Brown Seed Farms, Inc., 279 530th St., Bay City, WI 54723  
Brunner Seed Farm, Rt. 1, Box 34, Durand, WI 54736

Cargill Hybrid Seeds, Box 5645, Minneapolis, MN 55440  
Curry Seed Co., 701 N Walnut, Elk Point, SD 57025  
Dahlman Seed Co., 73504-200th St., Dassel, MN 55325  
Dairyland Seed Co., Inc. Box 958, West Bend, WI 53095  
DeKalb Genetics Corp., 3100 Sycamore Rd., DeKalb, IL 60115

Epley Bros. Hybrids, Inc., 2494 Yale Ave., Shell Rock, IA 50670  
Fontanelle Hybrids, Rt. 1, Box 18, Nickerson, NE 68044  
Garst Seed Co., 3469 330th St., Box 500, Slater, IA 50244  
Hyland Seeds, Blenheim, Ontario, Canada NOP 1A0  
Interstate/Payco, PO Box 338, West Fargo, ND 58078

J.C. Robinson Seed Co., (Golden Harvest) 100 Robinson Blvd. Waterloo, NE 69069  
Jung Farms, Inc., 335 High St., Randolph, WI 53957  
Kaltenberg Seed Farms, Inc. 5506 Hwy 19, Waunakee, WI 53597  
Kruger Seed Co., Box A, Hwy 20 East, Dike, IA 50624  
KSC/Challenger Seed Co., Box A, Dike, IA 50624

L.G. Seeds, Inc., 4001 N. War Memorial Dr., Peoria, IL 61614  
Mycogen Plant Sciences, 720 St. Croix St., Prescott, WI 54021  
NC+, PO Box 4408, Lincoln, NE 68504  
Novartis, PO Box 959, Minneapolis, MN 55440  
Pioneer Hi-Bred Int'l., Inc., 130 SE Willmar Ave, Willmar, MN 56201

Producers Hybrids, Box C, Battle Creek, NE 68715  
Renk Seed Co., 6800 Wilburn Rd., Sun Prairie, WI 53590  
Renze Hybrids, Inc., RR 3, Box 235, Carroll, IA 51401  
Sand Seed Service, PO Box 648, 4765 Hwy 143, Marcus, IA 51035  
Shelby Farms, 2836 Cty F, Blue Mounds, WI 53517

Terning Seeds, 15365 60th St. SW, Cokato, MN 55321  
Terra Industries, Inc., 600 4th St., PO Box 6000, Souix City, IA 51102  
Top Farm Hybrids, Box 850, Cokato, MN 55321  
Trelay, Inc., RR 1, Livingston, WI 53554  
Wensman Seed Co., PO Box 190, Wadena, MN 56482

Wilson Seeds, Inc., PO Box 391, Harlan, IA 51537

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Table 2A. Site production management information, 1997 corn variety trials.

Note Key:

[1] Data not available.

| Location  | Cooperators                  | Previous Crop | Planting Date | Harvest Dates | Target Population |
|-----------|------------------------------|---------------|---------------|---------------|-------------------|
| Lamberton | Steve Quiring<br>Paul Porter | Soybean       | May 1         | Oct 10-11     | 30,000            |
| Waseca    | Tom Hoverstad                | Soybean       | April 25      | Oct 23-24     | 30,000            |
| Lewiston  | Dave Ruprecht                | Soybean       | May 9         | Oct 29-30     | 30,000            |
| Morris    | George Nelson                | Soybean       | May 12-13     | Oct 21-22     | 30,000            |
| Rosemount | Jerry Holz                   | Soybean       | May 5         | Oct 20-21     | 30,000            |
| Staples   | Mel Wiens                    | Edible beans  | May 8         | Oct 14        | 30,000            |
| Rothsay   | Troy Larson                  | [1]           | May 5         | Oct 16        | 30,000            |

Table 2B. Additional site production management information, 1997 corn variety trials.

Note Key:

[1] Data not available.

[2] Pounds of N, P and K, respectively.

| Location  | Tillage | Soil Tests |     |     | Fertilizer Applied Amount and Time [2] |                |
|-----------|---------|------------|-----|-----|--|----------------|
|           |         | PH         | P   | K   |  |                |
| Lamberton | Chisel  | 5.9        | 45  | 145 | 125+0+0                                | Fall           |
| Waseca    | Chisel  | 6.3        | 15  | 144 | 0+125+75<br>160+0+0                    | Fall<br>Spring |
| Lewiston  | Chisel  | 6.6        | 32  | 234 | 160+0+0                                | Spring         |
| Morris    | Chisel  | 8.1        | 18  | 154 | 130+46+60                              | Fall           |
| Rosemount | Chisel  | [1]        | [1] | [1] | 125+0+60                               | Spring         |
| Staples   | Plow    | 6.7        | 18  | 882 | 13+22+90                               | Spring         |
| Rothsay   | [1]     | [1]        | [1] | [1] | [1]                                    | [1]            |

Table 3. Performance of early maturity corn hybrids in 1997 in the Southern Zone (Lamberton, Waseca, Lewiston).

Locations: LAM=Lamberton; WAS=Waseca; LEW=Lewiston; AVG=average across all locations.

| Brand Name                           | Hybrid       | 1996-97 AVG   |               | LAM<br>bu/a | WAS<br>bu/a | LEW<br>bu/a | 1997 AVG      |               |
|--------------------------------------|--------------|---------------|---------------|-------------|-------------|-------------|---------------|---------------|
|                                      |              | Moisture<br>% | Yield<br>bu/a |             |             |             | Moisture<br>% | Yield<br>bu/a |
| <b>95 Relative Maturity Hybrids</b>  |              |               |               |             |             |             |               |               |
| Anderson                             | 7525         | —             | —             | 123         | 167         | 150         | 17.9          | 147           |
| DeKalb                               | DK449        | —             | —             | 134         | 165         | 157         | 17.9          | 152           |
| Dahlman                              | 1599         | —             | —             | 124         | 172         | 160         | 18.0          | 152           |
| Renk                                 | RK546        | —             | —             | 127         | 173         | 155         | 18.7          | 152           |
| Renk                                 | RK552        | —             | —             | 137         | 193         | 182         | 19.3          | 171           |
| KSC/Challenger                       | K-9801       | —             | —             | 133         | 175         | 173         | 20.8          | 160           |
| RM Averages                          |              |               |               | 130         | 174         | 163         | 18.8          | 155           |
| <b>100 Relative Maturity Hybrids</b> |              |               |               |             |             |             |               |               |
| Curry                                | 2102         | —             | —             | 117         | 169         | 163         | 17.8          | 150           |
| Renze                                | 6068         | —             | —             | 148         | 185         | 184         | 18.3          | 172           |
| Golden Harvest                       | H-2315       | —             | —             | 129         | 188         | 156         | 18.4          | 158           |
| DeKalb                               | DK477        | 19.1          | 166           | 140         | 202         | 180         | 18.5          | 174           |
| Dairyland                            | Stealth 1496 | —             | —             | 132         | 183         | 179         | 18.5          | 164           |
| Top Farm                             | TFSX2201     | —             | —             | 133         | 177         | 171         | 18.5          | 160           |
| Renze                                | 6078         | —             | —             | 138         | 188         | 179         | 18.6          | 168           |
| Dahlman                              | 1699         | —             | —             | 134         | 196         | 163         | 18.7          | 164           |
| NC+                                  | 1487         | —             | —             | 121         | 181         | 166         | 18.7          | 156           |
| Viking                               | 6801         | —             | —             | 149         | 181         | 178         | 18.7          | 169           |
| DeKalb                               | DK471        | 19.5          | 165           | 146         | 176         | 175         | 18.7          | 166           |
| Kruger                               | K-9800       | —             | —             | 144         | 187         | 169         | 18.8          | 167           |
| Fontanelle                           | 3946         | —             | —             | 125         | 188         | 164         | 18.9          | 159           |
| Kaltenberg                           | K4807        | —             | —             | 134         | 191         | 183         | 18.9          | 169           |
| Fontanelle                           | 3977         | —             | —             | 150         | 181         | 170         | 19.0          | 167           |
| Anderson                             | 6076         | —             | —             | 139         | 182         | 160         | 19.0          | 160           |
| Dahlman                              | 1640         | 19.6          | 151           | 129         | 169         | 164         | 19.1          | 154           |
| Payco                                | 635          | 20.3          | 159           | 140         | 170         | 168         | 19.1          | 159           |
| Sands                                | SOI 9998     | —             | —             | 135         | 194         | 167         | 19.1          | 165           |
| Payco                                | 607          | —             | —             | 129         | 179         | 169         | 19.1          | 159           |
| Curry                                | 2101         | —             | —             | 135         | 172         | 150         | 19.2          | 152           |
| DeKalb                               | DK493        | 19.8          | 166           | 149         | 215         | 165         | 19.3          | 177           |
| NK                                   | N4242        | —             | —             | 136         | 169         | 166         | 19.4          | 157           |
| Mycogen                              | 2500         | —             | —             | 136         | 176         | 162         | 19.5          | 158           |
| Cargill                              | 3677         | 20.3          | 159           | 144         | 168         | 172         | 19.6          | 161           |
| Cargill                              | 3911         | —             | —             | 132         | 198         | 157         | 19.7          | 162           |
| Mycogen                              | 2545         | —             | —             | 141         | 184         | 183         | 19.9          | 169           |
| Dairyland                            | Stealth 1401 | —             | —             | 146         | 190         | 165         | 20.0          | 167           |
| Viking                               | 6799         | —             | —             | 137         | 181         | 177         | 20.1          | 165           |
| Cargill                              | 4111         | —             | —             | 163         | 214         | 187         | 20.4          | 188           |
| Kaltenberg                           | K5009        | 21.0          | 167           | 146         | 190         | 171         | 20.5          | 169           |
| Kruger                               | K-9802       | 21.2          | 169           | 158         | 201         | 171         | 20.5          | 177           |
| Trelay                               | 5003         | —             | —             | 142         | 198         | 178         | 20.6          | 173           |
| Top Farm                             | TFSX2100     | —             | —             | 138         | 193         | 165         | 20.8          | 165           |
| Sands                                | SOI 9991     | 21.6          | 157           | 132         | 171         | 169         | 20.8          | 157           |

Table 3 continued. Performance of early maturity corn hybrids in 1997 in the Southern Zone (Lamberton, Waseca, Lewiston).

| Brand Name                           | Hybrid       | 1996-97 AVG   |               | LAM<br>bu/a | WAS<br>bu/a | LEW<br>bu/a | 1997 AVG      |               |
|--------------------------------------|--------------|---------------|---------------|-------------|-------------|-------------|---------------|---------------|
|                                      |              | Moisture<br>% | Yield<br>bu/a |             |             |             | Moisture<br>% | Yield<br>bu/a |
| LG Seeds                             | LG2487       | —             | —             | 133         | 184         | 151         | 20.9          | 156           |
| Brown                                | 5180         | —             | —             | 129         | 171         | 149         | 21.0          | 150           |
| NC+                                  | 2395         | —             | —             | 146         | 170         | 160         | 21.1          | 159           |
| Kruger                               | K-9801       | —             | —             | 127         | 179         | 159         | 21.1          | 155           |
| Golden Harvest                       | H-2359       | —             | —             | 121         | 157         | 142         | 21.2          | 140           |
| Asgrow                               | RX490        | —             | —             | 146         | 193         | 173         | 21.4          | 171           |
| Dairyland                            | Stealth 1500 | —             | —             | 138         | 178         | 163         | 21.4          | 160           |
| Pioneer                              | 3730         | 21.9          | 161           | 130         | 183         | 156         | 21.4          | 156           |
| Sands                                | SOI 9027     | 21.5          | 154           | 138         | 161         | 153         | 21.5          | 151           |
| Trelay                               | 5004         | —             | —             | 136         | 169         | 169         | 21.5          | 158           |
| Trelay                               | 5500         | 22.5          | 153           | 128         | 190         | 157         | 22.2          | 158           |
| Garst                                | N4673        | —             | —             | 171         | 200         | 187         | 23.2          | 186           |
| LG Seeds                             | LG2499       | 23.5          | 164           | 149         | 200         | 166         | 23.5          | 172           |
| NK                                   | N4146        | —             | —             | 156         | 199         | 183         | 23.8          | 179           |
| Pioneer                              | 36K27        | —             | —             | 184         | 218         | 204         | 25.1          | 202           |
| 100 RM Averages                      |              |               |               | 140         | 185         | 168         | 20.1          | 164           |
| <b>105 Relative Maturity Hybrids</b> |              |               |               |             |             |             |               |               |
| Curry                                | 2105         | —             | —             | 125         | 194         | 171         | 18.7          | 163           |
| Wilson                               | 1098         | —             | —             | 139         | 186         | 177         | 18.9          | 167           |
| Golden Harvest                       | H-2377       | 21.3          | 155           | 135         | 190         | 156         | 20.5          | 160           |
| Terra                                | TR1026       | —             | —             | 142         | 203         | 161         | 20.5          | 168           |
| Curry                                | 2135         | —             | —             | 144         | 203         | 165         | 20.7          | 171           |
| DeKalb                               | DK521        | —             | —             | 149         | 190         | 166         | 20.7          | 168           |
| Garst                                | 8640         | —             | —             | 151         | 202         | 178         | 21.0          | 177           |
| Dahlman                              | 1702         | 21.8          | 155           | 147         | 165         | 159         | 21.0          | 157           |
| Renze                                | 6167         | 21.2          | 164           | 143         | 192         | 145         | 21.0          | 160           |
| Pioneer                              | 3559         | 22.5          | 155           | 133         | 186         | 164         | 21.0          | 161           |
| Cargill                              | 4127         | 21.6          | 161           | 154         | 189         | 164         | 21.1          | 169           |
| Brown                                | 5140         | —             | —             | 135         | 195         | 182         | 21.1          | 170           |
| KSC/Challenger                       | K-9704       | 21.3          | 162           | 137         | 183         | 168         | 21.3          | 163           |
| DeKalb                               | DK512        | 22.3          | 158           | 156         | 182         | 184         | 21.4          | 174           |
| NK                                   | N4640        | 21.5          | 159           | 136         | 188         | 182         | 21.5          | 169           |
| Asgrow                               | RX530        | —             | —             | 157         | 189         | 191         | 21.7          | 179           |
| Renk                                 | RK671        | —             | —             | 119         | 167         | 162         | 21.8          | 149           |
| Producer's                           | 588          | —             | —             | 134         | 175         | 148         | 21.8          | 152           |
| Jung                                 | 2510         | 22.0          | 153           | 134         | 176         | 155         | 22.0          | 155           |
| KSC/Challenger                       | K-9804       | —             | —             | 120         | 191         | 156         | 22.1          | 156           |
| Renk                                 | RK641        | 22.4          | 156           | 138         | 191         | 126         | 22.1          | 152           |
| Cargill                              | 4811         | —             | —             | 143         | 186         | 164         | 22.1          | 164           |
| Payco                                | 646          | 22.6          | 153           | 134         | 187         | 169         | 22.1          | 163           |
| Mycogen                              | 2620         | —             | —             | 158         | 163         | 169         | 22.4          | 163           |
| Renk                                 | RK672        | 22.8          | 156           | 128         | 191         | 159         | 22.5          | 159           |
| Pioneer                              | 3563         | 23.1          | 157           | 146         | 199         | 165         | 22.5          | 170           |
| Dairyland                            | Stealth 1407 | 24.0          | 159           | 146         | 200         | 181         | 22.7          | 176           |
| Epley                                | EX1500       | 23.4          | 163           | 145         | 190         | 173         | 22.7          | 169           |
| Epley                                | EX2400       | —             | —             | 144         | 174         | 176         | 22.8          | 165           |
| Garst                                | 8605         | —             | —             | 128         | 197         | 174         | 23.2          | 166           |

Table 3 continued. Performance of early maturity corn hybrids in 1997 in the Southern Zone (Lamberton, Waseca, Lewiston).

| Brand Name      | Hybrid       | 1996-97 AVG   |               | LAM<br>bu/a | WAS<br>bu/a | LEW<br>bu/a | 1997 AVG      |               |
|-----------------|--------------|---------------|---------------|-------------|-------------|-------------|---------------|---------------|
|                 |              | Moisture<br>% | Yield<br>bu/a |             |             |             | Moisture<br>% | Yield<br>bu/a |
| Fontanelle      | 4426         | —             | —             | 129         | 195         | 170         | 23.2          | 165           |
| Mycogen         | 2598         | —             | —             | 163         | 208         | 174         | 23.3          | 182           |
| Fontanelle      | 4567         | —             | —             | 141         | 187         | 171         | 23.4          | 166           |
| Pioneer         | 35R57        | —             | —             | 156         | 222         | 165         | 23.5          | 181           |
| Sands           | SOI 9067     | —             | —             | 146         | 176         | 172         | 23.5          | 165           |
| Anderson        | 4028         | —             | —             | 148         | 198         | 153         | 23.6          | 166           |
| Pioneer         | 3522         | 24.5          | 151           | 141         | 200         | 160         | 23.8          | 167           |
| KSC/Challenger  | K-9705       | —             | —             | 137         | 183         | 166         | 23.9          | 162           |
| Anderson        | 6800         | 23.8          | 156           | 144         | 175         | 168         | 23.9          | 162           |
| Viking          | 4420         | 24.1          | 162           | 139         | 192         | 178         | 24.0          | 169           |
| Asgrow          | RX601        | —             | —             | 155         | 164         | 176         | 24.4          | 165           |
| Anderson        | 4000A        | 24.0          | 156           | 130         | 188         | 146         | 24.4          | 155           |
| Garst           | 8660         | —             | —             | 131         | 189         | 160         | 24.4          | 160           |
| Dairyland       | Stealth 1108 | 24.3          | 157           | 135         | 205         | 174         | 24.5          | 172           |
| Dairyland       | Stealth 1406 | —             | —             | 157         | 188         | 170         | 24.5          | 172           |
| Top Farm        | TFSX2103     | 24.6          | 156           | 136         | 193         | 179         | 24.5          | 170           |
| Brunner         | Exp-105      | —             | —             | 144         | 193         | 191         | 24.6          | 176           |
| KSC/Challenger  | K-9906       | —             | —             | 157         | 195         | 178         | 24.6          | 177           |
| Top Farm        | TFSX2104     | 24.6          | 152           | 128         | 183         | 164         | 24.6          | 158           |
| KSC/Challenger  | K-9904       | —             | —             | 153         | 193         | 162         | 24.9          | 169           |
| Terra           | E1047        | —             | —             | 146         | 190         | 177         | 25.1          | 171           |
| Brown           | 6850         | —             | —             | 146         | 195         | 177         | 25.1          | 173           |
| Dairyland       | DST 10408    | —             | —             | 158         | 187         | 164         | 25.1          | 170           |
| Dairyland       | Stealth 1409 | —             | —             | 125         | 173         | 158         | 25.3          | 152           |
| Brunner         | S5474        | —             | —             | 149         | 182         | 177         | 25.3          | 169           |
| Kruger          | K-9806       | —             | —             | 146         | 179         | 187         | 25.4          | 171           |
| Renze           | 6227         | —             | —             | 140         | 193         | 172         | 25.7          | 169           |
| Kaltenberg      | K6301        | —             | —             | 147         | 185         | 175         | 25.9          | 169           |
| Pioneer         | 35M02        | —             | —             | 198         | 193         | 201         | 26.6          | 198           |
| 105 RM Averages |              |               |               | 143         | 189         | 169         | 23.0          | 167           |
| Trial Averages  |              |               |               | 141         | 186         | 168         | 21.5          | 165           |
| LSD 20%         |              |               |               | 11          | 16          | 17          | 0.6           | 9             |



Table 4. Performance of late maturity corn hybrids in 1997 in the Southern Zone (Lamberton, Waseca, Lewiston).

Locations: LAM=Lamberton; WAS=Waseca; LEW=Lewiston; AVG=average across all locations.

| Brand Name                           | Hybrid   | 1996-97 AVG   |               | LAM<br>bu/a | WAS<br>bu/a | LEW<br>bu/a | 1997 AVG      |               |
|--------------------------------------|----------|---------------|---------------|-------------|-------------|-------------|---------------|---------------|
|                                      |          | Moisture<br>% | Yield<br>bu/a |             |             |             | Moisture<br>% | Yield<br>bu/a |
| <b>110 Relative Maturity Hybrids</b> |          |               |               |             |             |             |               |               |
| Shelby Farms                         | VM72xVM2 | —             | —             | 109         | 165         | 138         | 21.3          | 137           |
| DeKalb                               | DK566    | 24.2          | 163           | 163         | 197         | 177         | 23.1          | 179           |
| Jung                                 | 2656     | 24.3          | 165           | 136         | 185         | 146         | 24.3          | 156           |
| Kruger                               | K-9706   | —             | —             | 149         | 188         | 178         | 24.4          | 172           |
| Golden Harvest                       | H-2478   | 25.0          | 144           | 147         | 160         | 163         | 24.7          | 156           |
| Garst                                | 8570IT   | —             | —             | 136         | 172         | 142         | 24.7          | 150           |
| Renk                                 | RK728    | —             | —             | 156         | 190         | 156         | 24.8          | 167           |
| Renk                                 | RK696    | 24.4          | 162           | 137         | 173         | 168         | 25.1          | 159           |
| Jung                                 | 2668     | —             | —             | 166         | 194         | 180         | 25.3          | 180           |
| Top Farm                             | TFSX2111 | —             | —             | 157         | 188         | 151         | 25.4          | 165           |
| Renk                                 | RK775    | —             | —             | 160         | 192         | 173         | 25.4          | 175           |
| Curry                                | 2151     | —             | —             | 138         | 184         | 134         | 25.5          | 152           |
| Sands                                | SOI 9074 | 25.5          | 147           | 119         | 180         | 136         | 25.7          | 145           |
| Terning                              | EXP 110  | —             | —             | 167         | 176         | 193         | 26.3          | 179           |
| Trelay                               | 7005     | —             | —             | 138         | 186         | 178         | 26.3          | 167           |
| Cargill                              | 6303     | 26.2          | 151           | 155         | 191         | 143         | 26.4          | 163           |
| Renze                                | 6287     | 26.7          | 158           | 163         | 179         | 174         | 26.6          | 172           |
| Kruger                               | K-9407+  | —             | —             | 142         | 190         | 150         | 26.7          | 160           |
| Epley                                | EX3242   | 26.9          | 157           | 146         | 174         | 188         | 26.9          | 169           |
| Brown                                | 7050     | 28.5          | 161           | 169         | 203         | 169         | 27.1          | 181           |
| Mycogen                              | 2677     | 26.4          | 146           | 130         | 176         | 149         | 27.2          | 152           |
| Terra                                | TR1087   | —             | —             | 161         | 204         | 161         | 27.4          | 175           |
| Renze                                | 6327     | —             | —             | 162         | 167         | 177         | 28.9          | 169           |
| Dairyland Stealth                    | 1412     | 28.3          | 154           | 179         | 186         | 179         | 29.1          | 181           |
| Terra                                | E1088    | —             | —             | 151         | 179         | 167         | 29.1          | 166           |
| Terra                                | TR1106   | —             | —             | 172         | 186         | 194         | 31.9          | 184           |
| 110 RM Averages                      |          |               |               | 150         | 183         | 164         | 26.1          | 166           |
| Trial Averages                       |          |               |               | 150         | 183         | 164         | 26.1          | 166           |
| LSD 20%                              |          |               |               | 16          | 18          | 21          | 0.9           | 11            |

Table 5. Performance of early maturity corn hybrids in 1997 in the Central Zone (Rosemount, Morris).

Locations: ROS=Rosemount; MOR=Morris; AVG=average across all locations.

| Brand Name                          | Hybrid       | 1996-97 AVG   |               | ROS<br>bu/a | MOR<br>bu/a | 1997 AVG      |               |
|-------------------------------------|--------------|---------------|---------------|-------------|-------------|---------------|---------------|
|                                     |              | Moisture<br>% | Yield<br>bu/a |             |             | Moisture<br>% | Yield<br>bu/a |
| <b>85 Relative Maturity Hybrids</b> |              |               |               |             |             |               |               |
| Dairyland                           | Stealth 1183 | —             | —             | 159         | 146         | 17.6          | 152           |
| Brown                               | 2080         | —             | —             | 148         | 157         | 18.1          | 152           |
| NK                                  | NX2105       | —             | —             | 158         | 149         | 18.8          | 153           |
| 85 RM Averages                      |              |               |               | 155         | 151         | 18.1          | 153           |
| <b>90 Relative Maturity Hybrids</b> |              |               |               |             |             |               |               |
| DeKalb                              | DK385B       | —             | —             | 177         | 175         | 17.3          | 176           |
| Jung                                | 2406         | 19.7          | 160           | 150         | 164         | 17.5          | 157           |
| Dairyland                           | Stealth 1289 | —             | —             | 176         | 173         | 17.5          | 174           |
| Asgrow                              | RX355        | —             | —             | 161         | 164         | 17.6          | 163           |
| Renk                                | RK376        | —             | —             | 161         | 150         | 17.9          | 156           |
| Top Farm                            | TFSX2191     | 18.8          | 156           | 152         | 138         | 18.1          | 145           |
| Pioneer                             | 3893         | 19.1          | 166           | 162         | 171         | 18.3          | 166           |
| Pioneer                             | 38R21        | —             | —             | 159         | 172         | 18.5          | 166           |
| Cargill                             | 2777         | —             | —             | 167         | 152         | 18.8          | 160           |
| Cargill                             | 2427         | —             | —             | 153         | 143         | 18.8          | 148           |
| Payco                               | 3X417        | —             | —             | 146         | 122         | 19.3          | 134           |
| Wensman                             | Max 78       | —             | —             | 187         | 179         | 19.4          | 183           |
| Wensman                             | Max 357      | —             | —             | 178         | 179         | 19.4          | 178           |
| Wensman                             | Max 007      | —             | —             | 170         | 171         | 19.6          | 170           |
| 90 RM Averages                      |              |               |               | 164         | 161         | 18.4          | 163           |
| <b>95 Relative Maturity Hybrids</b> |              |               |               |             |             |               |               |
| DeKalb                              | DK431        | —             | —             | 189         | 175         | 17.5          | 182           |
| Mycogen                             | 2458         | —             | —             | 156         | 150         | 18.1          | 153           |
| Mycogen                             | 2420         | 19.7          | 167           | 156         | 157         | 18.1          | 157           |
| Dairyland                           | Stealth 1495 | 19.7          | 167           | 174         | 155         | 18.2          | 165           |
| Dahlman                             | 1599         | —             | —             | 171         | 179         | 18.6          | 175           |
| DeKalb                              | DK449        | —             | —             | 176         | 192         | 18.8          | 184           |
| Producer's                          | 526          | —             | —             | 160         | 165         | 18.9          | 162           |
| Payco                               | 516          | 20.1          | 170           | 168         | 169         | 19.1          | 169           |
| Garst                               | 8814         | 20.4          | 170           | 163         | 175         | 19.1          | 169           |
| Brown                               | 3680         | —             | —             | 169         | 162         | 19.1          | 165           |
| Renk                                | RK546        | 19.9          | 160           | 181         | 177         | 19.2          | 179           |
| Jung                                | 2460         | —             | —             | 170         | 160         | 19.2          | 165           |
| NK                                  | N3030        | 20.3          | 166           | 162         | 171         | 19.3          | 167           |
| Pioneer                             | 37M81        | —             | —             | 185         | 174         | 19.3          | 179           |
| Jung                                | 2430         | —             | —             | 176         | 173         | 19.4          | 174           |
| Kaltenberg                          | K4501        | —             | —             | 188         | 164         | 19.4          | 176           |
| Renk                                | RK450        | —             | —             | 163         | 170         | 19.4          | 167           |
| Payco                               | 457          | —             | —             | 157         | 175         | 19.5          | 166           |
| Kruger                              | K-9895       | —             | —             | 168         | 165         | 19.6          | 167           |
| Top Farm                            | TFSX2196     | —             | —             | 168         | 154         | 19.6          | 161           |

Table 5. Performance of early maturity corn hybrids in 1997 in the Central Zone (Rosemount, Morris).

Locations: ROS=Rosemount; MOR=Morris; AVG=average across all locations.

| Brand Name     | Hybrid       | 1996-97 AVG   |               | ROS<br>bu/a | MOR<br>bu/a | 1997 AVG      |               |
|----------------|--------------|---------------|---------------|-------------|-------------|---------------|---------------|
|                |              | Moisture<br>% | Yield<br>bu/a |             |             | Moisture<br>% | Yield<br>bu/a |
| Mycogen        | 2395         | 21.2          | 164           | 151         | 163         | 19.7          | 157           |
| Dairyland      | Stealth 1595 | —             | —             | 163         | 175         | 19.7          | 169           |
| Anderson       | 7525         | —             | —             | 159         | 178         | 19.7          | 169           |
| Garst          | 8830         | —             | —             | 164         | 167         | 19.8          | 165           |
| Trelay         | 4002         | —             | —             | 173         | 168         | 19.9          | 170           |
| Trelay         | 4600         | —             | —             | 166         | 176         | 19.9          | 171           |
| Dairyland      | Stealth 1297 | 21.6          | 168           | 153         | 179         | 19.9          | 166           |
| LG Seeds       | LG2442       | —             | —             | 172         | 182         | 20.0          | 177           |
| KSC/Challenger | K-9893       | —             | —             | 174         | 175         | 20.0          | 175           |
| Terning        | TS 8250      | —             | —             | 163         | 156         | 20.1          | 159           |
| Epley          | EX1160       | —             | —             | 161         | 158         | 20.1          | 159           |
| Renk           | RK552        | —             | —             | 167         | 164         | 20.2          | 165           |
| Brown          | 4680         | 20.4          | 174           | 169         | 174         | 20.2          | 172           |
| Kruger         | K-9898       | 20.9          | 182           | 161         | 182         | 20.3          | 172           |
| Hyland         | HLX705       | —             | —             | 157         | 170         | 20.5          | 163           |
| Brunner        | Exp-95       | 20.8          | 163           | 174         | 160         | 20.5          | 167           |
| Garst          | 8751         | 21.6          | 173           | 193         | 157         | 20.9          | 175           |
| Wensman        | Max 127      | —             | —             | 171         | 180         | 21.6          | 175           |
| Wensman        | Max 747      | —             | —             | 175         | 189         | 21.7          | 182           |
| Hyland         | HL2521       | —             | —             | 167         | 176         | 22.1          | 171           |
| Terra          | E987         | —             | —             | 178         | 168         | 23.3          | 173           |
| 95 RM Averages |              |               |               | 168         | 170         | 19.7          | 169           |
| Trial Averages |              |               |               | 167         | 167         | 19.3          | 167           |
| LSD 20%        |              |               |               | 16          | 14          | 0.6           | 10            |

Table 6. Performance of late maturity corn hybrids in 1997 in the Central Zone (Rosemount, Morris).

Locations: ROS=Rosemount; MOR=Morris; AVG=average across all locations.

| Brand Name                           | Hybrid       | 1996-97 AVG   |               | ROS<br>bu/a | MOR<br>bu/a | 1997 AVG      |               |
|--------------------------------------|--------------|---------------|---------------|-------------|-------------|---------------|---------------|
|                                      |              | Moisture<br>% | Yield<br>bu/a |             |             | Moisture<br>% | Yield<br>bu/a |
| <b>100 Relative Maturity Hybrids</b> |              |               |               |             |             |               |               |
| Kruger                               | K-9800       | —             | —             | 163         | 165         | 19.1          | 164           |
| Kaltenberg                           | K4807        | —             | —             | 192         | 159         | 19.2          | 175           |
| Pioneer                              | 3751         | 20.6          | 167           | 170         | 157         | 19.2          | 163           |
| Golden Harvest                       | H-2315       | —             | —             | 168         | 162         | 19.2          | 165           |
| Terning                              | TS 8301      | —             | —             | 158         | 156         | 19.2          | 157           |
| DeKalb                               | DK477        | 20.6          | 180           | 164         | 199         | 19.2          | 181           |
| Jung                                 | 2488         | 20.8          | 154           | 169         | 140         | 19.4          | 154           |
| Dahlman                              | 1640         | 21.5          | 170           | 176         | 173         | 19.5          | 174           |
| Mycogen                              | 2500         | 22.5          | 180           | 166         | 155         | 19.6          | 161           |
| Dahlman                              | 1699         | 20.4          | 176           | 161         | 172         | 19.7          | 166           |
| Dairyland Stealth                    | 1496         | —             | —             | 175         | 157         | 19.7          | 166           |
| DeKalb                               | DK471        | 20.9          | 192           | 199         | 188         | 19.8          | 194           |
| Anderson                             | 6076         | —             | —             | 151         | 154         | 20.0          | 152           |
| Payco                                | 607          | —             | —             | 165         | 151         | 20.0          | 158           |
| Cargill                              | 4111         | —             | —             | 189         | 193         | 20.2          | 191           |
| LG Seeds                             | LG2473       | —             | —             | 170         | 153         | 20.4          | 161           |
| Top Farm                             | TFSX2201     | —             | —             | 171         | 144         | 20.4          | 157           |
| Pioneer                              | 3730         | 22.3          | 171           | 181         | 159         | 20.4          | 170           |
| Payco                                | 635          | —             | —             | 166         | 170         | 20.5          | 168           |
| Cargill                              | 3677         | 21.3          | 185           | 179         | 179         | 20.5          | 179           |
| Top Farm                             | TFSX2101     | 20.8          | 165           | 162         | 160         | 20.5          | 161           |
| DeKalb                               | DK493        | 22.3          | 190           | 188         | 190         | 20.9          | 189           |
| LG Seeds                             | LG2483       | —             | —             | 162         | 172         | 21.0          | 167           |
| Golden Harvest                       | H-2359       | —             | —             | 156         | 148         | 21.0          | 152           |
| Kruger                               | K-9899       | —             | —             | 169         | 181         | 21.0          | 175           |
| Dairyland Stealth                    | 1401         | 23.9          | 162           | 158         | 163         | 21.1          | 160           |
| Jung                                 | 2544         | 22.4          | 169           | 167         | 153         | 21.3          | 160           |
| Cargill                              | 3911         | —             | —             | 178         | 185         | 21.3          | 181           |
| Mycogen                              | 2545         | —             | —             | 175         | 169         | 21.3          | 172           |
| Hyland                               | HL2614       | —             | —             | 174         | 190         | 21.6          | 182           |
| Dairyland Stealth                    | 1402         | —             | —             | 175         | 159         | 21.8          | 167           |
| Kruger                               | K-9801       | —             | —             | 186         | 168         | 21.8          | 177           |
| Trelay                               | 5003         | —             | —             | 175         | 174         | 22.1          | 174           |
| Epley                                | EX1460       | —             | —             | 164         | 168         | 22.1          | 166           |
| Kaltenberg                           | K5009        | —             | —             | 153         | 170         | 22.1          | 161           |
| KSC/Challenger                       | K-9501       | —             | —             | 194         | 174         | 22.2          | 184           |
| Asgrow                               | RX490        | —             | —             | 171         | 171         | 22.2          | 171           |
| Terning                              | TS 8311      | 23.7          | 158           | 155         | 171         | 22.4          | 163           |
| Jung                                 | 2540         | 24.0          | 158           | 151         | 167         | 22.5          | 159           |
| Kruger                               | K-9802       | —             | —             | 172         | 155         | 22.6          | 164           |
| Dairyland                            | Stealth 1500 | —             | —             | 171         | 164         | 22.6          | 167           |
| Brown                                | 5180         | 24.3          | 167           | 175         | 168         | 22.8          | 172           |
| Hyland                               | HL2626       | —             | —             | 194         | 173         | 22.9          | 184           |
| Wensman                              | Max 88       | —             | —             | 171         | 168         | 23.0          | 169           |
| LG Seeds                             | LG2499       | 25.1          | 171           | 185         | 178         | 23.7          | 181           |

Table 6 continued. Performance of late maturity corn hybrids in 1997 in the Central Zone (Rosemount, Morris).

Locations: ROS=Rosemount; MOR=Morris; AVG=average across all locations.

| Brand Name                           | Hybrid       | 1996-97 AVG   |               | ROS<br>bu/a | MOR<br>bu/a | 1997 AVG      |               |
|--------------------------------------|--------------|---------------|---------------|-------------|-------------|---------------|---------------|
|                                      |              | Moisture<br>% | Yield<br>bu/a |             |             | Moisture<br>% | Yield<br>bu/a |
| NK                                   | N4146        | —             | —             | 201         | 202         | 24.2          | 202           |
| Pioneer                              | 36K27        | —             | —             | 222         | 214         | 25.4          | 218           |
| 100 RM Averages                      |              |               |               | 173         | 169         | 21.1          | 171           |
| <b>105 Relative Maturity Hybrids</b> |              |               |               |             |             |               |               |
| Golden Harvest                       | H-2377       | —             | —             | 168         | 154         | 19.8          | 161           |
| Brown                                | 5140         | —             | —             | 195         | 173         | 21.6          | 184           |
| Dairyland                            | DST 10212    | —             | —             | 176         | 171         | 21.7          | 174           |
| Renk                                 | RK671        | —             | —             | 170         | 151         | 21.8          | 161           |
| Terra                                | TR1026       | —             | —             | 168         | 166         | 22.3          | 167           |
| Dahlman                              | 1702         | —             | —             | 172         | 172         | 22.4          | 172           |
| Renk                                 | RK672        | 25.1          | 164           | 157         | 175         | 23.2          | 166           |
| Terra                                | E1047        | —             | —             | 186         | 191         | 23.4          | 188           |
| Renk                                 | RK641        | 25.5          | 161           | 163         | 157         | 23.5          | 160           |
| Asgrow                               | RX530        | —             | —             | 178         | 184         | 24.0          | 181           |
| Dairyland                            | Stealth 1407 | 27.0          | 167           | 171         | 172         | 24.2          | 172           |
| Jung                                 | 2577         | 24.8          | 164           | 179         | 166         | 24.5          | 172           |
| 105 RM Averages                      |              |               |               | 173         | 169         | 22.7          | 171           |
| Trial Averages                       |              |               |               | 173         | 169         | 21.4          | 171           |
| LSD 20%                              |              |               |               | 20          | 15          | 0.8           | 13            |

Table 7. Performance of corn hybrids (all maturities) in 1997 in the Northern Zone (Rothsay, Staples).

Locations: ROT=Rothsay; STA=Staples; AVG=average across all locations.

| Brand Name                          | Hybrid       | 1996-97 AVG   |               | ROT<br>bu/a | STA<br>bu/a | 1997 AVG      |               |
|-------------------------------------|--------------|---------------|---------------|-------------|-------------|---------------|---------------|
|                                     |              | Moisture<br>% | Yield<br>bu/a |             |             | Moisture<br>% | Yield<br>bu/a |
| <b>70 Relative Maturity Hybrids</b> |              |               |               |             |             |               |               |
| Hyland                              | HL2017       | —             | —             | 108         | 112         | 25.2          | 110           |
| <b>75 Relative Maturity Hybrids</b> |              |               |               |             |             |               |               |
| Hyland                              | HL2161       | —             | —             | 144         | 131         | 22.0          | 137           |
| Brunner                             | B-1030       | 22.6          | 139           | 147         | 110         | 22.4          | 129           |
| Mycogen                             | 1376         | 23.3          | 130           | 111         | 124         | 23.4          | 118           |
| Hyland                              | HL2262       | —             | —             | 132         | 118         | 23.5          | 125           |
| Hyland                              | HLX701       | —             | —             | 124         | 122         | 23.7          | 123           |
| Brown                               | 1680         | —             | —             | 145         | 124         | 27.1          | 135           |
| Brunner                             | Exp-75       | —             | —             | 156         | 126         | 27.1          | 141           |
| 75 RM Averages                      |              |               |               | 137         | 122         | 24.2          | 130           |
| <b>80 Relative Maturity Hybrids</b> |              |               |               |             |             |               |               |
| Mycogen                             | 2110         | 22.6          | 142           | 140         | 124         | 22.3          | 132           |
| Hyland                              | HL2241       | 22.7          | 141           | 150         | 132         | 22.4          | 141           |
| Cargill                             | 1527         | —             | —             | 126         | 116         | 22.5          | 121           |
| Payco                               | 155          | 23.3          | 135           | 149         | 133         | 24.0          | 141           |
| Pioneer                             | 3941         | 23.2          | 132           | 136         | 112         | 24.1          | 124           |
| Top Farm                            | TFSX2179     | —             | —             | 137         | 123         | 24.2          | 130           |
| Hyland                              | HL2202       | —             | —             | 154         | 131         | 24.3          | 142           |
| Payco                               | 148          | —             | —             | 127         | 113         | 25.6          | 120           |
| Top Farm                            | TFSX2182     | 24.5          | 139           | 131         | 124         | 25.9          | 128           |
| Hyland                              | HL2184       | 24.2          | 134           | 142         | 118         | 26.1          | 130           |
| Brown                               | 1967         | —             | —             | 127         | 116         | 26.4          | 122           |
| Brown                               | 1880         | —             | —             | 128         | 108         | 27.7          | 118           |
| Dairyland                           | Stealth 1280 | —             | —             | 146         | 124         | 27.8          | 135           |
| NK                                  | N15-B4       | —             | —             | 139         | 112         | 28.0          | 125           |
| LG Seeds                            | LG2378       | 27.0          | 142           | 156         | 131         | 29.1          | 144           |
| 80 RM Averages                      |              |               |               | 139         | 121         | 25.3          | 130           |
| <b>85 Relative Maturity Hybrids</b> |              |               |               |             |             |               |               |
| Cargill                             | 1877         | 23.1          | 148           | 149         | 124         | 23.1          | 137           |
| DeKalb                              | DK345        | —             | —             | 124         | 125         | 24.3          | 124           |
| DeKalb                              | DK343        | 23.8          | 137           | 125         | 126         | 24.4          | 126           |
| Golden Harvest                      | H-2226       | —             | —             | 119         | 132         | 25.2          | 125           |
| Payco                               | 237          | —             | —             | 148         | 128         | 25.6          | 138           |
| Dahlman                             | 1300         | —             | —             | 152         | 124         | 26.4          | 138           |
| Cargill                             | 1907         | 25.5          | 148           | 137         | 141         | 26.5          | 139           |
| Hyland                              | HL2297       | 26.4          | 154           | 157         | 130         | 27.3          | 143           |
| Pioneer                             | 3914         | 25.1          | 147           | 150         | 120         | 27.3          | 135           |
| Renk                                | RK276        | 25.6          | 127           | 128         | 98          | 27.5          | 113           |

Table 7 continued. Performance of corn hybrids (all maturities) in 1997 in the Northern Zone (Rothsay, Staples).

Locations: ROT=Rothsay; STA=Staples; AVG=average across all locations.

| Brand Name                          | Hybrid   | 1996-97 AVG   |               | ROT<br>bu/a | STA<br>bu/a | 1997 AVG      |               |
|-------------------------------------|----------|---------------|---------------|-------------|-------------|---------------|---------------|
|                                     |          | Moisture<br>% | Yield<br>bu/a |             |             | Moisture<br>% | Yield<br>bu/a |
| DeKalb                              | DK365    | —             | —             | 153         | 135         | 28.0          | 144           |
| Payco                               | 326      | 25.6          | 142           | 152         | 110         | 28.0          | 131           |
| Pioneer                             | 3905     | 25.6          | 156           | 157         | 123         | 28.2          | 140           |
| Trelay                              | 1003     | —             | —             | 147         | 109         | 28.5          | 128           |
| Jung                                | 2232     | 26.2          | 137           | 133         | 120         | 28.9          | 126           |
| Renk                                | RK272    | 26.6          | 127           | 123         | 105         | 29.0          | 114           |
| Dahlman                             | 1085     | 27.0          | 130           | 127         | 111         | 29.1          | 119           |
| Payco                               | 307      | —             | —             | 122         | 110         | 29.2          | 116           |
| Top Farm                            | TFSX2184 | 26.9          | 134           | 132         | 117         | 29.4          | 124           |
| Brown                               | 2267     | 26.9          | 163           | 161         | 130         | 29.9          | 146           |
| Hyland                              | HL2240   | —             | —             | 161         | 131         | 30.0          | 146           |
| Brunner                             | B-2495   | —             | —             | 157         | 104         | 30.4          | 130           |
| Terning                             | TS 8170  | 28.2          | 140           | 141         | 100         | 31.5          | 120           |
| Trelay                              | 2006     | —             | —             | 166         | 114         | 31.7          | 140           |
| Dairyland Stealth                   | 1183     | 29.3          | 131           | 147         | 115         | 32.7          | 131           |
| Brown                               | 2080     | 29.7          | 147           | 151         | 112         | 33.4          | 132           |
| 85 RM Averages                      |          |               |               | 143         | 119         | 28.3          | 131           |
| <b>90 Relative Maturity Hybrids</b> |          |               |               |             |             |               |               |
| Cargill                             | 2427     | —             | —             | 145         | 120         | 27.2          | 133           |
| Pioneer                             | 38R21    | —             | —             | 185         | 121         | 27.7          | 153           |
| Golden Harvest                      | H-2274   | 25.6          | 152           | 155         | 125         | 27.7          | 140           |
| Pioneer                             | 3893     | 27.1          | 161           | 181         | 134         | 28.2          | 157           |
| DeKalb                              | DK385B   | —             | —             | 184         | 127         | 28.2          | 155           |
| Jung                                | 2340     | —             | —             | 145         | 109         | 28.9          | 127           |
| Golden Harvest                      | H-2265   | —             | —             | 150         | 114         | 29.7          | 132           |
| Wensman                             | Max 78   | —             | —             | 143         | 135         | 29.7          | 139           |
| Mycogen                             | 2250     | 28.1          | 154           | 160         | 109         | 30.4          | 134           |
| Dahlman                             | 1499     | 28.0          | 137           | 122         | 120         | 30.4          | 121           |
| NK                                  | N2555    | 27.9          | 164           | 161         | 124         | 30.6          | 143           |
| Wensman                             | W 4123   | —             | —             | 174         | 141         | 30.8          | 158           |
| Terning                             | TS 8210  | 27.5          | 152           | 150         | 98          | 31.1          | 124           |
| Cargill                             | 2777     | —             | —             | 134         | 123         | 31.6          | 128           |
| Dahlman                             | 1488     | —             | —             | 138         | 129         | 32.0          | 134           |
| Top Farm                            | TFSX2191 | 28.3          | 155           | 144         | 109         | 32.1          | 126           |
| Jung                                | 2406     | 29.6          | 143           | 160         | 124         | 32.2          | 142           |
| Renk                                | RK376    | —             | —             | 156         | 106         | 32.5          | 131           |
| Wensman                             | Max 357  | —             | —             | 161         | 112         | 32.5          | 136           |
| Terra                               | TR906    | —             | —             | 153         | 116         | 32.5          | 135           |
| Jung                                | 2380     | 30.0          | 139           | 129         | 118         | 32.7          | 124           |
| Wensman                             | Max 007  | —             | —             | 186         | 119         | 33.6          | 153           |
| Payco                               | 3X417    | —             | —             | 99          | 103         | 36.7          | 101           |
| LG Seeds                            | LG2408   | —             | —             | 155         | 127         | 38.2          | 141           |
| 90 RM Averages                      |          |               |               | 153         | 119         | 31.1          | 136           |

Table 7 continued. Performance of corn hybrids (all maturities) in 1997 in the Northern Zone (Rothsay, Staples).

Locations: ROT=Rothsay; STA=Staples; AVG=average across all locations.

| Brand Name                          | Hybrid  | 1996-97 AVG   |               | ROT<br>bu/a | STA<br>bu/a | 1997 AVG      |               |
|-------------------------------------|---------|---------------|---------------|-------------|-------------|---------------|---------------|
|                                     |         | Moisture<br>% | Yield<br>bu/a |             |             | Moisture<br>% | Yield<br>bu/a |
| <b>95 Relative Maturity Hybrids</b> |         |               |               |             |             |               |               |
| DeKalb                              | DK417   | —             | —             | 157         | 139         | 26.2          | 148           |
| Mycogen                             | 2382    | —             | —             | 161         | 130         | 30.3          | 146           |
| Mycogen                             | 2362    | —             | —             | 166         | 131         | 30.8          | 148           |
| Wensman                             | W1120X  | —             | —             | 158         | 162         | 32.6          | 160           |
| Dahlman                             | 1599    | —             | —             | 158         | 117         | 33.3          | 137           |
| Pioneer                             | 37M81   | —             | —             | 183         | 110         | 34.8          | 147           |
| Jung                                | 2430    | —             | —             | 152         | 106         | 35.3          | 129           |
| Jung                                | 2460    | —             | —             | 120         | 115         | 36.6          | 118           |
| Wensman                             | Max 127 | —             | —             | 155         | 122         | 38.3          | 138           |
| Terra                               | E957    | —             | —             | 155         | 104         | 38.8          | 130           |
| 95 RM Averages                      |         |               |               | 157         | 124         | 33.7          | 140           |
| Trial Averages                      |         |               |               | 146         | 120         | 28.8          | 133           |
| LSD 20%                             |         |               |               | 15          | 17          | 1.9           | 11            |

## Corn Planting Rate and Date

Rate is based on normal seedbeds and on normal size, good quality seed. Rate used can vary greatly depending on seed cost, desired stand, expected mortality, emerging ability, seed weight, seed germination, seedbed condition, depth of planting and planting equipment. Weight given is the most widely accepted in the U.S.

| Bushel Weight<br>(pounds) | Seeds/pound<br>(number) | Rate/acre<br>(pounds) | Rate<br>(seeds) | Planting<br>Date     |
|---------------------------|-------------------------|-----------------------|-----------------|----------------------|
| 56                        | 1,400                   | 17                    | 24,000/acre     | Late April/Early May |