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2005 Precision Planted Performance Trials: Corn

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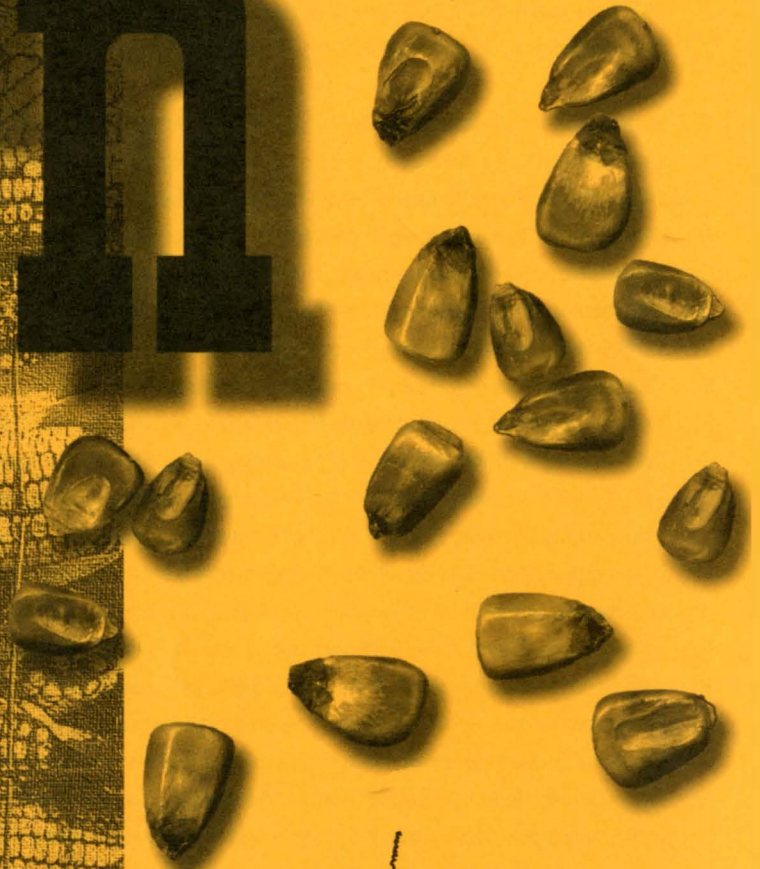
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CORN

2005 Precision Planted Performance Trials



South Dakota State University • Cooperative Extension Service • U.S. Department of Agriculture

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2005 Precision Planted Corn Performance Trials

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This publication reports the performance of entries in the 2005 South Dakota corn hybrid performance trials for both non-Roundup-Ready™ and Roundup-Ready™ hybrids. Information includes both the most recent 2-year and 1-year grain yields in bushels per acre (bu/a); and 1-year bushel weight, grain moisture at harvest, percent stand at harvest, and stalk lodge percentages. These performance trials are conducted by the South Dakota Crop Performance Testing (CPT) program at South Dakota State University.

Test Trial Locations

Trial locations, soil types, seedbed and previous crop history, and soil fertility yield goals are indicated in Table A, while cooperators and seeding dates are shown in Table B. Seeding started May 3 and was completed May 16, 2005.

Weather Conditions

Weather data (Table C) for the past growing season was obtained from 2005 USDA-South Dakota Crop-Weather reports and the South Dakota-Automatic Weather Data Network (SD-AWDN).

Heat unit or growing degree-day accumulations are reported for the nearest test site in place of temperatures. Corn hybrids typically express a certain thermal or heat unit requirement from emergence to black-layer formation (physiological maturity). The heat unit totals across test locations varied from a high of 3322 GDD at Armour (nearest site to Delmont) to a low of 2604 GDD at Brookings.

Precipitation varied greatly across test locations. Seasonal total precipitation from April 3 through the end of September was highest at Brookings and Armour and lowest at Aberdeen. Seasonal precipitation accumulations were above average at all locations, except for Watertown where it was nearly normal. Accumulations by the end of July were average or above for all locations. It must be noted the cooperator at Delmont indicated they had received less rainfall than was indicated by the nearest reporting station at Armour during July and August. In summary, seasonal moisture and heat units appeared to be fairly well distributed and at average or above average for all locations, except for moisture at Delmont.

The assistance of the following is appreciated: Jim Smolik and Allen Heuer at the NE Research Farm, Todd Bortnem and the Brookings Agronomy Farm staff, and Bob Berg and the SE

Research Farm staff; and farmer-cooperators Richard Luebke (Delmont), Erland Weerts (Bancroft), and Allen and Inel Ryckman (Warner).

General Test Procedures

Participating companies pick the test locations where their entries are tested. Entries are placed into “early” or “late” maturity trials. The arbitrary relative maturity breaks between the early and late tests are as follows:

95 days for Warner and South Shore,
100 days for Yale and Brookings,
105 days for Delmont, and
110 days for Beresford.

A hybrid is assigned to a maturity trial based on its relative maturity rating reported by the participating seed company. **This testing program does not guarantee that all entries are placed in the proper maturity trial.** In some trials, borderline entries with relative maturity ratings at or near the arbitrary break between the early and late trials may crossover at a given location. In some cases this may be indicated by exceptionally high or low grain moisture contents at harvest. A higher than average moisture content may indicate the hybrid is later in relative maturity than indicated. Likewise, a lower than average moisture may indicate the hybrid is earlier in relative maturity than indicated.

A fee was charged for all entries at each location. A list of participating seed companies for 2005 is presented in Table G.

Experimental Procedures

Entries were seeded in three replications with each hybrid randomly located within each trial. Plots consisted of four 30-inch rows 20 feet long. The center two rows were harvested for yield. A Monosem precision row crop planter was used for seeding plots at all locations. In 2005, this precision planter was calibrated to deliver 27,878 seeds per acre, regardless of seed quality and germination percentage. No seeding rate adjustment was made for low germination. Therefore, the percent stand is an indication of initial seed quality and the ability of the seed to cope with the production environment from seeding to harvest.

Soil type, land preparation and previous crop history, and fertility yield goal at each test site are outlined in table A. Seedbed preparation was good at all locations. A starter fertilizer of 100

lb/a of 37-18-00 was applied 2 inches below and 2 inches to the side (2 x 2) of the seed row. Force insecticide was applied down the seed tube at label rates for corn rootworm control this year. In addition, Pounce granular was applied (except at Beresford) at label rates down the whorl with a tractor mounted granular applicator just prior to canopy closure. The weed control herbicides applied at recommended label rates are indicated in Table D for both the non-Roundup Ready™ and the Roundup Ready™ hybrid corn trials.

Measurements of Performance

Yield. Yields are an average of three replications and are expressed as bushels per acre (bu/a), adjusted to 15.5% moisture on a dry-matter basis and a bushel weight of 56 lb.

Hybrids of equal potential may yield differently because of variations in slope, soil fertility, and stand. Statistical tests were conducted to determine whether differences obtained were caused by variations in environment or were true variety differences. In 2005, the coefficient of variation (CV) for yield was very good across all locations except Delmont.

The CV value in a given test trial is a measure of experimental error associated with the test trial. Ideally, this value should not exceed 15%. In cases where the CV value exceeds 15% it is recommended that the test data be used with caution in selecting hybrids. Experimental error may be the result of several factors including test methods or factors such as moisture, temperature, soil variations, or agronomic factors (like seeding date, reseeding), or seed quality factors, all of which may or may not be controllable in a given year. At Delmont, the CV values exceeded 15% and were likely the result of limited moisture during July and August at this location.

Grain moisture content. Moisture content is expressed as the percentage of moisture in the shelled corn at harvest. Moisture is inversely related to maturity. Because maturity is of prime importance in South Dakota, moisture figures are of considerable importance in the evaluation of the trial entries. Hybrids that provide satisfactory yields and can be stored without additional drying are desirable. During harvest, random moisture values as determined by the on-board moisture meter on the combine are checked with a Dickey-John GAC II to verify that the on-board moisture meter is within calibration limits.

Use of tables. Check for the “Least significant difference” (Lsd) value at the bottom of each column of data averages. The Lsd value indicates how much a variable such as yield must differ between two hybrids before there is a real yield difference. An Lsd value is given at the bottom of every column where there is significant difference among the averages within a given column. If there are no real differences among the averages within a given column a “non-significant” (NS) difference designation is indicated.

The Lsd values reported in this publication can be used in two ways. In this publication the Lsd value is used primarily to identify the top group for current year and 2-year yields, bushel weight, grain moisture at harvest, percent stand (percent of seeded population), and stalk lodging below the ear percentage for each test trial.

For example, at Warner (Table 1a) the highest current year yield was 202 bu/a for Keltgen/AV4880CB. To determine whether it is the only top yielding hybrid at Warner, use the Lsd value of 14 bu/a indicated at the bottom of the 2005 yield column. For hybrids to be in the top yield group they must yield 188 bu/a ($202 - 14 = 188$) or higher. Technically, a yield value of 189 bu/a is in the top yield group while a value of 188 bu/a is not in the top yield group. However, since all yields and Lsd values are rounded to the nearest whole number, we can say 188 bu/a, because of the rounding-off, is the more appropriate minimum value for the top yield group.

Likewise, the minimum top group value is indicated for the 2-year (2004-05) yield column unless there were no significant yield differences. Top yield hybrids for 2005 are those hybrids that are equal or higher than the minimum top group value indicated at the bottom of the 2005 yield column. **The minimum yield value that a hybrid must attain to qualify for the top performance group for yield for 2005 or for 2004-05 is indicated and shaded at the bottom of each yield column.** If hybrid yield differences are not significant (NS), then by definition all hybrids in the test are in the top yield group for the stated 1- or 2-year yield average.

The top group for other performance factors like bushel weight, percent grain moisture at harvest, percent stalk lodging below the ear, and percent stand (percent of seeded population) also can be determined. For example, at Warner in 2005 (Table 1a), to qualify for the top performance group (TPG), a hybrid must have a bushel weight of 62 lb or higher and a percent of stand value of 96% or more. Likewise, in order to qualify for the TYG, a hybrid must have a grain moisture of 16% or less and a lodging value of 1% or less.

Note that yield, bushel weight, and percent stand top group values must be greater than a certain yield, bushel weight, or percent stand value; while grain moisture and lodging below ear percentages must be equal to or less than certain a percentage to qualify for the TPG. **Again, as with hybrid yields, if there are no hybrid differences for a given performance factor, then by definition all hybrids in the test are in the top group for that performance factor for the current year.**

The top yield group Lsd values can also be used to determine whether two hybrids differ in performance. For example, in the early test at Warner (Table 1a); the Lsd value of 14 bu/a can be used to compare the yields of any two hybrids in the trial. If hybrid A yields 202 bu/a and hybrid B yields 188 bu/a their yield difference is 14 bu/a ($202 - 188 = 14$). In this case the two hybrids do not differ in yield because their yield difference of 14 bu/a is equal to or less than the reported Lsd value of 14 bu/a.

In contrast, if hybrid C yields 184 bu/a, the yield difference between hybrids A and C is 18 bu/a ($202 - 184 = 18$). In this case the yield difference of 18 bu/a is more than the reported Lsd value of 14 bu/a; therefore hybrid A would have a significantly higher yield than hybrid C. Similarly, the Lsd values for bushel weight, grain moisture, stalk lodging below the ear, and percent stand can be used to determine if any two hybrids differ in these performance factors.

PERFORMANCE TRIAL RESULTS BY LOCATIONS

The performance trial results for 2 years (2004-05) and 1 year (2005) are summarized below.

Northern Locations

Warner

Early Non-Roundup Ready™, Table 1a. The test trial yield average (Table 1a) was 192 bu/a for year 2005 and 213 bu/a for 2 years (2004-05). Hybrids that yielded 188 bu/a or more in 2005 and 206 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 14 bu/a in 2005 and by 10 bu/a for 2 years to be significantly different from one another. In 2005, bushel weights averaged 61 lb, grain moisture averaged 16%, lodging averaged 0%, and the final percent stand averaged 98. For hybrids to be in the top performance group for these factors they had to equal 62 lb or more in bushel weight, 16% or less in grain moisture, 1% or less in stalk lodging, and 96% or more for percent stand.

Late Non-Roundup Ready™, Table 1b. The test trial yield average (Table 1b) was 195 bu/a for year 2005 and 210 bu/a for 2 years (2004-05). Hybrids that yielded 192 bu/a or more in 2005 qualified for the top yield group. Only one hybrid was tested for 2 years; therefore no hybrid comparisons can be made for 2 years. Hybrids had to differ in yield by 16 bu/a in 2005 to be significantly different from one another. In 2005, bushel weights averaged 59 lb, grain moisture averaged 17%, lodging averaged 0%, and the final percent stand averaged 98. For hybrids to be in the top performance group for these factors they had to equal 59 lb or more in bushel weight, 17% or less in grain moisture, 1% or less in stalk lodging, and 95% or more for percent stand.

Early Roundup Ready™, Table 1c. The test trial yield average (Table 1c) was 195 bu/a for year 2005 and 211 bu/a for 2 years (2004-05). Hybrids that yielded 193 bu/a or more in 2005 and 199 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 14 bu/a in 2005 to be significantly different from one another. There was no difference between 2-year yield averages for those hybrids tested 2 years. In 2005, bushel weights averaged 60 lb, grain moisture averaged 16%, lodging averaged 1%, and the final percent stand averaged 96. For hybrids to be in the top performance group for these factors they had to equal 61 lb or more in bushel weight, 16% or less in grain moisture, 3% or less in stalk lodging, and 95% or more for percent stand.

Late Roundup Ready™, Table 1d. The test trial yield average (Table 1d) was 191 bu/a for year 2005 and 205 bu/a for 2 years (2004-05). Hybrids that yielded 188 bu/a or more in 2005 and 200 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 18 bu/a in 2005. There was no difference between 2-year yield averages for those hybrids tested 2 years. In 2005, bushel weights averaged 60 lb, grain moisture averaged 18%, lodging averaged 1%, and the final percent stand averaged 97. For hybrids to be in the top performance group for these factors they had to equal 61 lb or more in bushel weight, 18% or less in grain moisture, 2% or less in stalk lodging, and 92% or more for percent stand.

South Shore

Early Non-Roundup Ready™, Table 2a. The test trial yield average (Table 2a) was 159 bu/a for year 2005 and 156 bu/a for 2 years (2004-05). Hybrids that yielded 146 bu/a or more in 2005 and 145 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 20 bu/a in 2005 and by 16 bu/a for 2 years to be significantly different from one another. In 2005, bushel weights averaged 57 lb, grain moisture averaged 15%, lodging averaged 1%, and the final percent stand averaged 99. For hybrids to be in the top performance group for these factors they had to equal 56 lb or more in bushel weight, 15% or less in grain moisture, 2% or less in stalk lodging, and 97% or more for percent stand.

Late Non-Roundup Ready™, Table 2b. The test trial yield average (Table 2b) was 168 bu/a for year 2005. Hybrids that yielded 162 bu/a or more in 2005 qualified for the top yield group. Hybrids had to differ in yield by 15 bu/a in 2005 to be significantly different from one another. In 2005, bushel weights averaged 57 lb, grain moisture averaged 19%, lodging averaged 0%, and the final percent stand averaged 99. For hybrids to be in the top performance group for these factors they had to equal 57 lb or more in bushel weight, 19% or less in grain moisture, 1% or less in stalk lodging, and 97% or more for percent stand.

Early Roundup Ready™, Table 2c. The test trial yield average (Table 2c) was 178 bu/a for year 2005 and 164 bu/a for 2 years (2004-05). Hybrids that yielded 181 bu/a or more in 2005 and 160 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 13 bu/a in 2005 and 11 bu/a for 2 years to be significantly different from one another. In 2005, bushel weights averaged 58 lb, grain moisture averaged 17%, lodging averaged 0%, and the final percent stand averaged 97. For hybrids to be in the top performance group for these factors they had to equal 58 lb or more in bushel weight, 17% or less in grain moisture, 2% or less in stalk lodging, and 97% or more for percent stand.

Late Roundup Ready™, Table 2d. The test trial yield average (Table 2d) was 172 bu/a for year 2005 and 160 bu/a for 2 years (2004-05). Hybrids that yielded 167 bu/a or more in 2005 and 156 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 19 bu/a in 2005. There was no difference between 2-year yield averages for those hybrids tested 2 years. In 2005, bushel weights averaged 58 lb, grain moisture averaged 19%, lodging averaged 0%, and the final percent stand averaged 97. For hybrids to be in the top performance group for these factors they had to equal 59 lb or more in bushel weight, 18% or less in grain moisture, 2% or less in stalk lodging, and 93% or more for percent stand.

Central Locations

Bancroft

Early Non-Roundup Ready™, Table 3a. The test trial yield average (Table 3a) was 193 bu/a for year 2005 and 198 bu/a for 2 years (2004-05). Hybrids that yielded 195 bu/a or more in 2005 and 193 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 11 bu/a in 2005 to be significantly different from one another. There was no difference between 2-year yield averages for those hybrids tested 2 years. In 2005, bushel weights averaged 61 lb, grain moisture averaged 18%, lodging averaged 0%, and the final percent stand averaged 99. For hybrids to be in the top performance group for these factors they had to equal 59 lb or more in bushel weight, 17% or less in grain moisture, 1% or less in stalk lodging, and 98% or more for percent stand.

Late Non-Roundup Ready™, Table 3b. The test trial yield average (Table 3a) was 195 bu/a for year 2005 and 206 bu/a for 2 years (2004-05). Hybrids that yielded 186 bu/a or more in 2005 and 199 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 22 bu/a in 2005. There was no difference between 2-year yield averages for those hybrids tested 2 years. In 2005, bushel weights averaged 58 lb, grain moisture averaged 21%, lodging averaged 0%, and the final percent stand averaged 98. For hybrids to be in the top performance group for these factors they had to equal 58 lb or more in bushel weight, 19% or less in grain moisture, 1% or less in stalk lodging, and 97% or more for percent stand.

Early Roundup Ready™, Table 3c. The test trial yield average (Table 3c) was 190 bu/a for year 2005 and 189 bu/a for 2 years (2004-05). Hybrids that yielded 199 bu/a or more in 2005 and 188 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 22 bu/a in 2005 and 23 bu/a for 2 years to be significantly different from one another. In 2005, bushel weights averaged 60 lb, grain moisture averaged 18%, lodging averaged 0%, and the final percent stand averaged 98. For hybrids to be in the top performance group for these factors they had to equal 61 lb or more in bushel weight, 17% or less in grain moisture, 1% or less in stalk lodging, and 96% or more for percent stand.

Late Roundup Ready™, Table 3d. The test trial yield average (Table 3d) was 195 bu/a for year 2005 and 198 bu/a for 2 years (2004-05). Hybrids that yielded 193 bu/a or more in 2005 or for 2 years qualified for the top yield group. Hybrids had to differ in yield by 21 bu/a in 2005 and 20 bu/a for 2 years to be significantly different from one another. In 2005, bushel weights averaged 59 lb, grain moisture averaged 22%, lodging averaged 0%, and the final percent stand averaged 97. For hybrids to be in the top performance group for these factors they had to equal 60 lb or more in bushel weight, 21% or less in grain moisture, 1% or less in stalk lodging, and 96% or more for percent stand.

Brookings

Early Non-Roundup Ready™, Table 4a. The test trial yield average (Table 4a) was 231 bu/a for year 2005 and 211 bu/a for 2 years (2004-05). Hybrids that yielded 230 bu/a or more in 2005 and 200 bu/a or more for two years qualified for the top yield group. Hybrids had to differ in yield by 16 bu/a in 2005 to be significantly different from one another. There was no difference

between 2-year yield averages for those hybrids tested 2 years. In 2005, bushel weights averaged 60 lb, grain moisture averaged 18%, lodging averaged 1%, and the final percent stand averaged 97. For hybrids to be in the top performance group for these factors they had to equal 61 lb or more in bushel weight, 18% or less in grain moisture, 2% or less in stalk lodging, and 96% or more for percent stand.

Late Non-Roundup Ready™, Table 4b. The test trial yield average (Table 4b) was 235 bu/a for year 2005 and 213 bu/a for 2 years (2004-05). Hybrids that yielded 234 bu/a or more in 2005 and 199 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 16 bu/a in 2005. There was no difference between 2-year yield averages for those hybrids tested 2 years. In 2005, bushel weights averaged 59 lb, grain moisture averaged 20%, lodging averaged 0%, and the final percent stand averaged 97. For hybrids to be in the top performance group for these factors they had to equal 59 lb or more in bushel weight, 19% or less in grain moisture, 1% or less in stalk lodging, and 92% or more for percent stand.

Early Roundup Ready™, Table 4c. The test trial yield average (Table 4c) was 219 bu/a for year 2005 and 216 bu/a for 2 years (2004-05). Hybrids that yielded 230 bu/a or more in 2005 and 201 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 14 bu/a in 2005 to be significantly different from one another. There was no difference between 2-year yield averages for those hybrids tested 2 years. In 2005, bushel weights averaged 61 lb, grain moisture averaged 17%, lodging averaged 1%, and the final percent stand averaged 97. For hybrids to be in the top performance group for these factors they had to equal 61 lb or more in bushel weight, 16% or less in grain moisture, 2% or less in stalk lodging, and 95% or more for percent stand.

Late Roundup Ready™, Table 4d. The test trial yield average (Table 4d) was 227 bu/a for year 2005 and 212 bu/a for 2 years (2004-05). Hybrids that yielded 229 bu/a or more in 2005 and 216 bu/a for 2 years qualified for the top yield group. Hybrids had to differ in yield by 13 bu/a in 2005 and 14 bu/a for 2 years to be significantly different from one another. In 2005, bushel weights averaged 59 lbs, grain moisture averaged 20%, lodging averaged 0%, and the final percent stand averaged 97. For hybrids to be in the top performance group for these factors they had to equal 59 lb or more in bushel weight, 18% or less in grain moisture, 1% or less in stalk lodging, and 96% or more for percent stand.

Southern Locations

Delmont

Note: At this location CV values were higher than at the other test locations. This indicates more experimental error was associated with these trials. During late July and August, moisture became a limiting factor, which caused more stress compared to the other test sites.

Early Non-Roundup Ready™, Table 5a. The test trial yield average (Table 5a) was 113 bu/a for year 2005 and 123 bu/a for 2 years (2004-05). Hybrids that yielded 111 bu/a or more in 2005 and 116 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 21 bu/a in 2005 and by 18 bu/a for 2 years to be significantly different from one another. In 2005, bushel weights averaged 58 lb, grain moisture averaged 15%,

lodging averaged 1%, and the final percent stand averaged 97. For hybrids to be in the top performance group for these factors they had to equal 60 lb or more in bushel weight, 14% or less in grain moisture, 3% or less in stalk lodging, and 90% or more for percent stand.

Late Non-Roundup Ready™, Table 5b. The test trial yield average (Table 5b) was 109 bu/a for year 2005 and 117 bu/a for 2 years (2004-05). Hybrids that yielded 125 bu/a or more in 2005 and 98 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 17 bu/a in 2005. There was no difference between 2-year yield averages for those hybrids tested 2 years. In 2005, bushel weights averaged 59 lb, grain moisture averaged 15%, lodging averaged 1%, and the final percent stand averaged 97. For hybrids to be in the top performance group for these factors they had to equal 58 lb or more in bushel weight, 14% or less in grain moisture, 3% or less in stalk lodging, and 96% or more for percent stand.

Early Roundup Ready™, Table 5c. The test trial yield average (Table 5c) was 109 bu/a for year 2005 and 115 bu/a for 2 years (2004-05). Hybrids that yielded 113 bu/a or more in 2005 and 101 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 19 bu/a in 2005 to be significantly different from one another. There was no difference between 2-year yield averages for those hybrids tested 2 years. In 2005, bushel weights averaged 60 lb, grain moisture averaged 15%, lodging averaged 1%, and the final percent stand averaged 96. For hybrids to be in the top performance group for these factors they had to equal 60 lb or more in bushel weight, 15% or less in grain moisture, 3% or less in stalk lodging, and 96% or more for percent stand.

Late Roundup Ready™, Table 5d. The test trial yield average (Table 5d) was 97 bu/a for year 2005 and 113 bu/a for 2 years (2004-05). Hybrids that yielded 83 bu/a or more in 2005 and 97 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 28 bu/a in 2005 to be significantly different from one another. There was no difference between 2-year yield averages for those hybrids tested 2 years. In 2005, bushel weights averaged 59 lb, grain moisture averaged 15%, lodging averaged 1%, and the final percent stand averaged 95. For hybrids to be in the top performance group for these factors they had to equal 59 lb or more in bushel weight, 15% or less in grain moisture, 3% or less in stalk lodging, and 93% or more for percent stand.

Beresford

Early Non-Roundup Ready™, Table 6a. The test trial yield average (Table 6a) was 205 bu/a for year 2005 and 223 bu/a for 2 years (2004-05). Hybrids that yielded 203 bu/a or more in 2005

and 224 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 19 bu/a in 2005 and by 12 bu/a for 2 years to be significantly different from one another. In 2005, bushel weights averaged 58 lb, grain moisture averaged 15%, lodging averaged 1%, and the final percent stand averaged 98. For hybrids to be in the top performance group for these factors they had to equal 58 lb or more in bushel weight, 16% or less in grain moisture, 2% or less in stalk lodging, and 96% or more for percent stand.

Late Non-Roundup Ready™, Table 6b. The test trial yield average (Table 6b) was 192 bu/a for year 2005 and 221 bu/a for 2 years (2004-05). Hybrids that yielded 193 bu/a or more in 2005 and 212 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 20 bu/a in 2005. There was no difference between 2-year yield averages for those hybrids tested 2 years. In 2005, bushel weights averaged 59 lb, grain moisture averaged 16%, lodging averaged 1%, and the final percent stand averaged 98. For hybrids to be in the top performance group for these factors they had to equal 59 lb or more in bushel weight, 16% or less in grain moisture, 2% or less in stalk lodging, and 93% or more for percent stand.

Early Roundup Ready™, Table 6c. The test trial yield average (Table 6c) was 191 bu/a for year 2005 and 213 bu/a for 2 years (2004-05). Hybrids that yielded 193 bu/a or more in 2005 and 200 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 16 bu/a in 2005 to be significantly different from one another. There was no difference between 2-year yield averages for those hybrids tested 2 years. In 2005, bushel weights averaged 59 lb, grain moisture averaged 16%, lodging averaged 1%, and the final percent stand averaged 97. For hybrids to be in the top performance group for these factors they had to equal 58 lb or more in bushel weight, 16% or less in grain moisture, 1% or less in stalk lodging, and 93% or more for percent stand.

Late Roundup Ready™, Table 6d. The test trial yield average (Table 6d) was 203 bu/a for year 2005 and 217 bu/a for 2 years (2004-05). Hybrids that yielded 216 bu/a or more in 2005 and 196 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 20 bu/a in 2005 to be significantly different from one another. There was no difference between 2-year yield averages for those hybrids tested 2 years. In 2005, bushel weights averaged 60 lb, grain moisture averaged 16%, lodging averaged 1%, and the final percent stand averaged 96. For hybrids to be in the top performance group for these factors they had to equal 60 lb or more in bushel weight, 16% or less in grain moisture, 2% or less in stalk lodging, and 93% or more for percent stand.

Table A. Site -soil classification, percent slope, & previous crop.

| Site | Soil type | Seedbed, previous crop | Fertility Yield goal |
|-------------|--|---------------------------|----------------------|
| Warner | Great Bend-Putney silt loams, 0-2% sl. | Min-till, s.wheat stubble | 200 bu/a |
| South Shore | Brookings sil.cl.loam, 0-3% sl. | Conventional, soybeans | 180 bu/a |
| Bancroft | Houdek-Stickney-Tetonka, 0-1% sl. | No-till, soybeans | 150 bu/a |
| Brookings | Brandt sil. cl., 0-2% sl. | Conventional, soybean | 200 bu/a |
| Delmont | Clarno-Prosper loam, 0-2% sl. | No-till, soybean stubble | 200 bu/a |
| Beresford | Egan-Clarno-Trent complex, 0-2% sl. | Conventional, soybean | 210 bu/a |

Table B. Year 2004 trial cooperators, locations, and dates seeded.

| Cooperators | Location* | Date Seeded |
|----------------------|-------------|-------------|
| Allen & Inel Ryckman | Warner | 16-May |
| NE Research Farm | South Shore | 18-May |
| Erland Weerts | Bancroft | 5-May |
| SDSU Agronomy Farm | Brookings | 6-May |
| Richard Luebke | Delmont | 4-May |
| SE Research Farm | Beresford | 3-May |

* Plots were all seeded at 27,878 seeds per acre.

Table C. Nearest weather station precipitation and growing degree day (GDD) accumulations for 2005 and their departures from normal (DFN).

Source: USDA-SD-Crop-Weather report & SD Automatic Weather Data Network.

| Station | Variable | Data is accumulated from April 1 up to date stated: | | | | | |
|-----------------------------|------------------|---|-------|---------|---------|---------|----------|
| | | Apr. 3 | May 1 | June 26 | July 31 | Aug. 28 | Sept. 25 |
| Aberdeen Airport | Precip.- in. '05 | 0.00 | 0.38 | 7.28 | 11.28 | 14.10 | 14.99 |
| | DFN* | -0.18 | -1.64 | 0.17 | 1.02 | 1.92 | 1.00 |
| | GDD's '05 | 0 | 104 | 853 | 1677 | 2210 | 2701 |
| | DFN | -3 | 41 | 130 | 159 | 112 | 287 |
| Watertown Airport | Precip.- in. '05 | 0.00 | 1.50 | 9.12 | 10.34 | 13.02 | 16.11 |
| | DFN | -0.18 | -0.76 | 0.82 | -1.45 | 1.25 | -0.06 |
| | GDD's '05 | 0 | 100 | 822 | 1660 | 2224 | 2720 |
| | DFN | 0 | 50 | 108 | 170 | 155 | 334 |
| Huron Airport | Precip.- in. '05 | 0.00 | 0.67 | 9.08 | 10.50 | 13.02 | 19.55 |
| | DFN | -0.18 | -1.50 | 1.20 | -0.48 | 0.25 | 5.13 |
| | GDD's '05 | 0 | 138 | 956 | 1902 | 2555 | 3136 |
| | DFN | -3 | 71 | 185 | 288 | 317 | 576 |
| Brookings 2NE | Precip.- in. '05 | 0.00 | 2.03 | 11.50 | 15.32 | 18.34 | 25.91 |
| | DFN | -0.18 | -0.12 | 2.72 | 2.66 | 3.16 | 8.20 |
| | GDD's '05 | 0 | 98 | 819 | 1613 | 2126 | 2604 |
| | DFN | 0 | 56 | 174 | 251 | 249 | 448 |
| Centerville 6 SE Airport | Precip.- in. '05 | 0.00 | 2.73 | 14.45 | 16.60 | 17.85 | 21.11 |
| | DFN | -0.18 | 0.37 | 5.05 | 3.29 | 1.89 | 2.63 |
| | GDD's '05 | 0 | 142 | 988 | 1891 | 2523 | 3118 |
| | DFN | -3 | 66 | 132 | 211 | 251 | 493 |
| Armour Airport | Precip.- in. '05 | 0.00 | 2.69 | 14.30 | 17.17 | 17.90 | 23.23 |
| | DFN | -0.21 | 0.26 | 5.41 | 4.65 | 3.43 | 6.55 |
| | GDD's '05 | 2 | 148 | 987 | 1934 | 2638 | 3322 |
| | DFN | -2 | 50 | 59 | 113 | 149 | 421 |

* DFN - how much a variable for year 2005 is greater or less (-) than the long-term average.

Table D. Pre-and post-emergence herbicides used in corn performance trials for 2005.

All herbicide were applied at recommended label rates.

| Location | Non-Roundup Ready™ | | Roundup Ready™ | |
|-------------|--------------------|----------------|--------------------|----------------|
| | Pre-emergence | Post-emergence | Pre-emergence | Post-emergence |
| Warner | Gmax + Balance Pro | Accent/Buctril | Gmax + Balance Pro | Roundup Ultra |
| South Shore | Harness | None | Harness | None |
| Bancroft | Surpass | Accent/Buctril | Surpass | Roundup Ultra |
| Brookings | Harness | Accent/Buctril | Harness | Roundup Ultra |
| Delmont | Outlook | Accent/Calisto | Outlook | Roundup Ultra |
| Beresford | Dual Clarity | None | Dual Clarity | None |

Table E. 2005 Non-Roundup Ready™ corn hybrid entries by brand/hybrid and performance table number(s).

| Brand / Hybrid | Table No. | Brand / Hybrid | Table No. |
|------------------------|------------------|-----------------------|------------------|
| AGVENTURE/AV4004CB | 2a | KRUGER/5514YGCB | 6b |
| AGVENTURE/AV4880CB | 1a,2a | KRUGER/5517YGCB | 6b |
| AGVENTURE/AVEXP5613CB | 1b,2b | KRUGER/8414HX | 6b |
| DAIRYLAND/STEALTH-5007 | 5b,6a | KRUGER/8602HX | 1b,2b,3b,4b,5a |
| DAIRYLAND/STEALTH-5010 | 6b | KRUGER/8609HX | 5b,6a |
| DAIRYLAND/STEALTH-5104 | 4b,5a | KRUGER/9111YGCB | 5b,6b |
| DAIRYLAND/STEALTH-5194 | 1a,2a | KRUGER/9115YGCB | 6b |
| DAIRYLAND/STEALTH-5201 | 3b,4b,5a | KRUGER/9212YGCB | 5b,6b |
| DAIRYLAND/STEALTH-5204 | 4b,5a | KRUGER/9310YGCB | 5b,6a |
| DAIRYLAND/STEALTH-5497 | 1b,3a,4a | KRUGER/9313YGCB | 6b |
| DAIRYLAND/STEALTH-5611 | 6b | KRUGER/9407YGCB | 3b,4b,5a,6a |
| DEKALB/DKC52-45 (YGCB) | 5a | KRUGER/9496YGCB | 1a,2a,3a,4a |
| DEKALB/DKC53-11 (YGCB) | 5a,6a | KRUGER/9910YGCB | 5b,6a |
| DEKALB/DKC54-51 (YGCB) | 5a,6a | KRUGER/EXP0600 | 3a,4a |
| DEKALB/DKC62-31 (YGCB) | 6b | KRUGER/EXP0603A | 4b,5a |
| DEKALB/DKC64-81 (YGCB) | 6b | KRUGER/EXP0603B | 4b,5a |
| EPLEY/E1157 | 3a,4a | KRUGER/EXP0605A | 4b,5a |
| EPLEY/E1214 | 3a,4a | KRUGER/EXP0605B | 4b,5a |
| EPLEY/E1430YGCB | 3b,4b,5a | KRUGER/EXP0608A | 5b,6a |
| EPLEY/E1442 | 3b,4b,5a | KRUGER/EXP0610 | 5b,6a |
| EPLEY/E14H07HX | 3a,4a,5a | KRUGER/EXP0614A | 6b |
| EPLEY/E2490YGCB | 3b,4b,5b | KRUGER/EXP0614B | 6b |
| EPLEY/E3670YGCB | 5b | KRUGER/EXP0617A | 6b |
| GOLD COUNTRY/100-05CB | 2b,3a,4a | KRUGER/EXP0692 | 1a,2a |
| GOLD COUNTRY/100-06 | 3a,4a | KRUGER/EXP5405YGCB | 4b,5a |
| GOLD COUNTRY/110-07CB | 5b,6a | KRUGER/EXP5510YGCB | 5b,6a |
| GOLD COUNTRY/94-01CB | 2a,3a,4a | KRUGER/EXP5602YGCB | 3b,4b |
| GOLD COUNTRY/94-02CBLL | 1a,2a | KRUGER/EXP5606YGCB | 4b,5b |
| HEINE/H728YGCB | 6a | KRUGER/EXP5608YGCB | 5b,6a |
| HEINE/H750YGCB | 6a | KRUGER/EXP5609YGCB | 5b,6a |
| HEINE/H818YGCB | 6a | KRUGER/EXP5613YGCB | 6b |
| HEINE/H820YGCB | 6a | KRUGER/EXP5692BT/LL | 1,2a |
| HEINE/H851YGCB | 6b | KRUGER/EXP8605HX | 4b,5a |
| HEINE/H8600YGCB | 6b | KRUGER/EXP8607HX | 4b,5b |
| JUNG/6432YGCB | 4a | KRUGER/EXP8614HX | 6b |
| JUNG/6545YGCB | 4b | KRUGER/EXP8616HX | 6b |
| KAYSTAR/KX-8615B | 6b | SEEDS 2000/2953BT | 1a,2a,3a,4a |
| KRUGER/0508 | 5b,6a | WENSMAN/W 5117BT | 1a,2a |
| KRUGER/5410YGCB | 5b,6a | WENSMAN/W 5212BT | 1a,2a,3a,4a |
| KRUGER/5415YGCB | 6b | WENSMAN/W 5303BT | 1b,2b,3a,4a,5a |
| KRUGER/5416YGCB | 6b | WENSMAN/W 5349BT | 3b,4b,5a |
| KRUGER/5504YGCB | 1b,2b,3b,4b,5a | WENSMAN/W 5417BT | 5b,6a |
| KRUGER/5505YGCB | 1b,2b,3b,4b,5a | WENSMAN/W 5437BT | 5b,6a |

Table F. 2005 Roundup Ready™ corn hybrid entries by brand/hybrid and performance table number(s).

| Brand / Variety | Table No. | Brand / Variety | Table No. |
|------------------------|----------------|-----------------------|----------------|
| AGVENTURE/AV3919R2CB | 2c | GOLD COUNTRY/83-01CBR | 1c |
| AGVENTURE/AV4005R2CB | 2c | GOLD COUNTRY/92-01CBR | 2c |
| AGVENTURE/AV4882R2 | 2c | GOLD COUNTRY/94-01RR | 3c,4c |
| AGVENTURE/AV4883R2RW | 2c | HEINE/H625RR/YGCB | 1c |
| AGVENTURE/AV6231R2CB | 1d,3d | HEINE/H627RR/YGCB | 1c,3c |
| AGVENTURE/EXP5612RR | 1c,2c,3c | HEINE/H630RR | 1c,3c |
| ASGROW/RX715RR2YGCB | 6d | HEINE/H710RR | 3c,5c |
| CHANNEL/4S502 | 1d,2d,3c,4c | HEINE/H723RR/YGCB | 3c,5c |
| CHANNEL/6925RB | 1c,2c | HEINE/H724RR/YGCB | 3c,5c |
| CHANNEL/6965 R | 1c,2c | HEINE/H728RR/YGCB | 5c,6c |
| CHANNEL/7135RB | 1d,2d,3d,4d,5c | HEINE/H746RR | 3d,5c |
| CHANNEL/7R432 | 5d,6c | HEINE/H748RR/YGCB | 6c |
| CHANNEL/EXP X50941RB | 1c,2c | HEINE/H750RR/YGCB | 3d,5c,6c |
| CHANNEL/EXP X51001RB | 1d,2d,3c,4c | HEINE/H820RR/YGCB | 6c |
| CHANNEL/EXP X51021RB | 3d,4d,5c | HEINE/H851RR/YGCB | 6d |
| CHANNEL/EXP X51101RB | 5d,6c | HEINE/H8600RR/YGCB | 6d |
| DAIRYLAND/STEALTH-1606 | 5d,6c | INTEGRA/INT 6193RRYG | 1c,2c,3c |
| DAIRYLAND/STEALTH-6497 | 1d,2d,3c,4c | INTEGRA/INT 6395RR | 1c,2c,3c,4c |
| DAIRYLAND/STEALTH-7191 | 1c | INTEGRA/INT 63F90RRYG | 1c,2c,3c |
| DEKALB/DKC40-08RR2YGCB | 1c,2c | INTEGRA/INT 6506RRYG | 5c |
| DEKALB/DKC41-64RR2YGCB | 1c,2c | INTEGRA/INT 6602RRYG | 3c,4c |
| DEKALB/DKC42-95RR2YGCB | 1c,2c | INTEGRA/INT 6603RRYG | 3d,4d,5c |
| DEKALB/DKC47-10RR2YGCB | 1d,2d,3c,4c | INTEGRA/INT 6609RRYG | 5d,6c |
| DEKALB/DKC48-52 (RR2) | 5c | INTEGRA/INT 6696RR | 1d,3c,4c |
| DEKALB/DKC48-53RR2YGCB | 1d,2d,3c,4c | KALTENBERG/K2717RRBT | 2c |
| DEKALB/DKC50-20RR2YGCB | 1d,2d,3c,4c,5c | KALTENBERG/K3919RRBT | 2c |
| DEKALB/DKC52-47RR2YGCB | 3d,4d,5c,6c | KALTENBERG/K4666RR | 2d,4c |
| DEKALB/DKC55-82 (RR2) | 3d,4d,5c,6c | KALTENBERG/K5244RRBT | 4d |
| DEKALB/DKC58-80RR2YGCB | 5d,6c | KALTENBERG/K5717RRBT | 4d,5c,6c |
| DEKALB/DKC60-19RR2YGCB | 6c | KALTENBERG/K6744RRBT | 6c |
| DEKALB/DKC61-72 (RR2) | 5d,6d | KAYSTAR/KX-4250RRBT | 1c |
| DEKALB/DKC63-81RR2YGCB | 6d | KAYSTAR/KX-5150RR | 1c,3c |
| EPLEY/E1145RR | 3c,4c | KAYSTAR/KX-5800RR | 3c,4c |
| EPLEY/E1165RR | 3c,4c,5c | KAYSTAR/KX-5900RR | 3c,4c |
| EPLEY/E12R45YGCB | 3d,4d,5c | KRUGER/1500RR | 1d,2d,3c,4c,5c |
| EPLEY/E1445RR | 3c,4c,5c | KRUGER/2410RR/YGCB | 5d,6c |
| EPLEY/E1465RR | 3d,4d,5c | KRUGER/2506RR/YGCB | 3d,4d,5d,6c |
| EPLEY/E1475RR | 3d,4d,5c | KRUGER/2517RR/YGCB | 6d |
| EPLEY/E14R95YGCB | 3d,4d,5d | KRUGER/2600RR/YGCB | 1d,2d |
| EPLEY/E15R45YGCB | 3d,4d,5c | KRUGER/2697RR/YGCB | 1d,2d,3c,4c |
| EPLEY/E24R90YGCB | 4d,5d | KRUGER/3503TS | 1d,2d,3d,4d,5c |
| EPLEY/E36R65YGCB | 5d | KRUGER/4501RR/YGRW | 1d,2d,3c,4c,5c |
| GOLD COUNTRY/1016RRBT | 4d | KRUGER/9115RR/YGCB | 5d,6d |
| GOLD COUNTRY/103-02CBR | 3d,4d,5c | KRUGER/9203RR/YGCB | 1d,2d,3d,4d,5c |
| GOLD COUNTRY/105-04CBR | 4d,5d | KRUGER/9212RR/YGCB | 5d,6d |

Table F. 2005 Roundup Ready™ corn hybrid entries by brand/hybrid and performance table number(s) (continued).

| Brand / Variety | Table No. | Brand / Variety | Table No. |
|------------------------|-------------|-------------------------|-------------------|
| KRUGER/9308RR/YGCB | 5d,6d | NUTECH/NT-5212+RR/YGCB | 6c |
| KRUGER/9313RR/YGCB | 5d,6d | NUTECH/NT-5303 RR/YGCB | 3d,4d,5c |
| KRUGER/9392RR/YGCB | 1c,2c | NUTECH/NT-5507 RR/YGCB | 5c,6c |
| KRUGER/9496RR | 1c,2c,3c,4c | NUTECH/NT-5507+RR/YGCB | 4d,5c |
| KRUGER/9593RR/YGCB | 1c,2c | NUTECH/NT-5889 RR/YGCB | 1c,2c |
| KRUGER/EXP1597RR | 1d,2d | NUTECH/NT-7595 RR | 3c,4c |
| KRUGER/EXP1697RR | 1d,2d | NUTECH/NT-9191+RRYGPLUS | 1c,2c |
| KRUGER/EXP2605RR/YGCB | 3d,4d,5c,6c | SEEDS 2000/2944RR/BT | 1c,2c |
| NUTECH/NT-3408 RR | 4d,5c | SEEDS 2000/2953RR | 1c,2c,4c |
| NUTECH/NT-3505 RR | 3d,4d,5c,6c | SEEDS 2000/3122RR/BT | 1d,3d,4d |
| NUTECH/NT-3505+RR | 1d,2d,3d,4d | SEEDS 2000/EXP3123RR | 1d,3d,4d |
| NUTECH/NT-3595 RR | 1c,2c,3c,4c | WENSMAN/W 6117BTTR | 1c,2c,3c,4c |
| NUTECH/NT-3696 RR | 1c,2c,3c,4c | WENSMAN/W 6194BTTR | 1c,2c,3c,4c |
| NUTECH/NT-3898 RR | 1d,2d,3c,4c | WENSMAN/W 6212RR | 1c,2c,3c,4c |
| NUTECH/NT-3999 RR | 1d,2d,3c,4c | WENSMAN/W 6266BTTR | 1d,2d,3c,4c |
| NUTECH/NT-3999+RR | 1d,2d,3c,4c | WENSMAN/W 6315BTTR | 1d,2d,3d,4d,5c,6c |
| NUTECH/NT-5005 RR/YGCB | 3d,4d | WENSMAN/W 6318BTTR | 3d,4d,5c,6c |
| NUTECH/NT-5101 RR/YGCB | 1d,2d,3d,4d | WENSMAN/W 6422BTTR | 5d,6c |
| NUTECH/NT-5191+RR/YGCB | 1c,2c,3c,4c | | |
| NUTECH/NT-5212 RR/YGCB | 6c | | |

Table G. Seed companies entered in the 2005 corn hybrid trials by seed brand name.

| Seed brand | Mailing address |
|--------------|---|
| Asgrow | Monsanto, 4312 Carol Ave., Courtland, IL 60112 |
| Channel | Channel Bio Corp., PO Box 278, Madison, WI 53711 |
| Dairyland | Dairyland Seed Co., Inc., 9728 S.Clinton Corners Rd., Clinton, WI 53525 |
| Dekalb | Monsanto, 4312 Carol Ave., Courtland, IL 60112 |
| Epley Bros. | Epley Bros. Hybrids Inc., PO Box 310, Shell Rock, IA 50670 |
| Gold Country | Gold Country Seed Inc., PO Box 604, Hutchinson, MN 55350 |
| Heine | Heine Hybrid Seed Corn, 1020 E. 320th St., Vermillion, SD 57064 |
| Integra Seed | Integra Seed, Ltd., PO Box 40, Bozeman, MT 59718 |
| Jung | Jung Seed Genetics, 341 S. High St., Randolph, WI 53956 |
| Kaltenberg | Kaltenberg Seeds, PO Box 278, Waunakee, WI 53597 |
| Kaystar | Kaystar Seed, PO Box 947, Huron, SD 57350 |
| Agventure | Keltgen Inc. Seed, 302 South Spruce St., Henry, SD 57243 |
| Kruger | Kruger Seed Co., 33938 160th Ave., Dike, IA 50624 |
| Seeds 2000 | Seeds 2000, PO Box 200, Breckenridge, MN 56520 |
| NuTech | Nutech Seed, LC, 6131 N. Fork Rd., Ames, IA 50010 |
| Wensman | Wensman Seed Co., PO Box 190, Wadena, MN 56482 |

Table 1a. Early maturity Non-Roundup Ready™ corn hybrid test trial results. Allen & Inel Ryckman Farm, Warner, SD, 2004-2005.

| Brand/Hybrid (By 2-year then '05 yields) | Brand Rel Mat | Hybrid performance variable at harvest | | | | | |
|--|---------------|--|----------------|----------------|-----------------|----------------|----------------|
| | | 2-year Yield bu/a | '05 Yield bu/a | '05 Bu. Wt. lb | '05 Grain Mst % | '05 Lodg-ing % | '05 Pct* Stand |
| TWO-YEAR ENTRIES: | | | | | | | |
| KELTGEN/AV4880CB | 95 | 216 | 202 | 61 | 16 | 0 | 99 |
| KRUGER/9496YGCB | 94 | 216 | 197 | 60 | 16 | 1 | 100 |
| WENSMAN/W 5117BT | 91 | 215 | 199 | 61 | 16 | 0 | 99 |
| WENSMAN/W 5212BT | 95 | 211 | 195 | 59 | 16 | 1 | 97 |
| SEEDS 2000/2953BT | 95 | 211 | 190 | 61 | 16 | 1 | 100 |
| DAIRYLAND/STEALTH-5194 | 94 | 209 | 195 | 61 | 16 | 0 | 95 |
| ONE-YEAR ENTRIES: | | | | | | | |
| GOLD COUNTRY/94-02CBLL | 94 | | 188 | 63 | 16 | 1 | 99 |
| KRUGER/EXP0692 | 92 | | 184 | 61 | 16 | 0 | 97 |
| KRUGER/EXP5692BT/LL | 92 | | 180 | 63 | 17 | 0 | 96 |
| Trial avg.: | 94 | 213 | 192 | 61 | 16 | 0 | 98 |
| Highest (H)-avg.: | 95 | 216 | 202 | 63 | 17 | 1 | 100 |
| Lowest (L)-avg.: | 91 | 209 | 180 | 59 | 16 | 0 | 95 |
| H-L avg. difference: | 4 | 7 | 22 | 3 | 1 | 1 | 5 |
| ** Lsd (.05): | | 10 | 14 | 1 | 0 | NS | 4 |
| # Min. TPG-value: | | 206 | 188 | 62 | | | 96 |
| ## Max. TPG-value: | | | | | 16 | 1 | |
| + Coef. of var.: | | 3 | 4 | 1 | 1 | | 3 |
| No. of entries: | | 6 | 9 | 9 | 9 | 9 | 9 |

* Seeded May 16, 2005 at 28,750 seeds per acre.

** Lsd= the amount values in a column must differ to be significantly different.

If Lsd = NS then differences among values in a column are non-significant (NS).

Min. TPG-value= minimum value required for the top performance group.

Max. TPG-value= maximum value required for the top performance group.

+ Coef. of Variation = a measure of trial experimental error, 15% or less is best.

Table 1b. Late maturity Non-Roundup Ready™ corn hybrid test trial results. Allen & Inel Ryckman Farm, Warner, SD, 2004-2005.

| Brand/Hybrid (By 2-year then '05 yields) | Brand Rel. Mat. | Hybrid performance variable at harvest | | | | | |
|--|-----------------|--|----------------|----------------|--------------------|---------------|-----------------|
| | | 2-year Yield bu/a | '05 Yield bu/a | '05 Bu. Wt. lb | '05 Grain Moist. % | '05 Lodging % | '05 Pct.* Stand |
| TWO-YEAR ENTRIES: | | | | | | | |
| DAIRYLAND/STEALTH-5497 | 97 | 210 | 197 | 58 | 16 | 1 | 100 |
| ONE-YEAR ENTRIES: | | | | | | | |
| KRUGER/5504YGCB | 104 | | 208 | 60 | 18 | 0 | 97 |
| KRUGER/8602HX | 102 | | 199 | 58 | 18 | 0 | 99 |
| KRUGER/5505YGCB | 105 | | 199 | 59 | 23 | 0 | 97 |
| WENSMAN/W 5303BT | 99 | | 194 | 59 | 18 | 1 | 95 |
| AGVENTURE/AVEXP5613CB | 96 | | 172 | 61 | 18 | 0 | 99 |
| Trial avg.: | 101 | 210 | 195 | 59 | 18 | 0 | 98 |
| Highest (H)-avg: | 105 | 210 | 208 | 61 | 23 | 1 | 100 |
| Lowest (L)-avg.: | 96 | 210 | 172 | 58 | 16 | 0 | 95 |
| H-L avg. difference: | 9 | 0 | 36 | 3 | 7 | 1 | 5 |
| ** Lsd (.05): | | | 16 | 2 | 1 | NS | NS |
| # Min. TPG-value: | | | 192 | 59 | | | 95 |
| ## Max. TPG-value: | | | | | 17 | 1 | |
| + Coef. of var.: | | | 5 | 1 | 4 | | 3 |
| No. of entries: | 6 | 1 | 6 | 6 | 6 | 6 | 6 |

* Seeded May 16, 2005 at 28,750 seeds per acre.

** Lsd= the amount values in a column must differ to be significantly different.

If Lsd = NS then differences among values in a column are non-significant (NS).

Min. TPG-value= minimum value required for the top performance group.

Max. TPG-value= maximum value required for the top performance group.

+ Coef. of Variation = a measure of trial experimental error, 15% or less is best.

Table 1c. Early maturity Roundup Ready™ corn hybrid test trial results. Allen & Inel Ryckman Farm, Warner, SD, 2004-2005.

| Brand/Hybrid (By 2-year then '05 yields) | Brand Rel. Mat. | Test trial variable at harvest | | | | | |
|--|-----------------|--------------------------------|----------------|----------------|--------------------|--------------|----------------|
| | | 2-year Yield bu/a | '05 Yield bu/a | '05 Bu. Wt. lb | '05 Grain Moist. % | 05 Lodging % | 05 Pct.* Stand |
| TWO-YEAR ENTRIES: | | | | | | | |
| DEKALB/DKC42-95RR2YGCB | 92 | 219 | 204 | 60 | 16 | 1 | 97 |
| WENSMAN/W 6212RR | 90 | 219 | 200 | 59 | 16 | 1 | 95 |
| NUTECH/NT-3595 RR | 95 | 218 | 205 | 60 | 16 | 0 | 96 |
| WENSMAN/W 6117BTRR | 91 | 214 | 207 | 62 | 16 | 1 | 97 |
| INTEGRA/INT 6395RR | 94 | 213 | 196 | 61 | 16 | 1 | 96 |
| SEEDS 2000/2944RRBT | 94 | 212 | 195 | 61 | 16 | 1 | 96 |
| HEINE/H625RR/YGCB | 91 | 212 | 192 | 60 | 16 | 1 | 85 |
| KAYSTAR/KX-5150RR | 94 | 211 | 189 | 60 | 16 | 3 | 95 |
| CHANNEL/6965 R | 95 | 210 | 192 | 59 | 16 | 2 | 95 |
| KRUGER/9496RR | 94 | 210 | 191 | 59 | 16 | 3 | 93 |
| KRUGER/9392RR/YGCB | 92 | 210 | 180 | 61 | 16 | 0 | 96 |
| HEINE/H630RR | 95 | 209 | 192 | 59 | 16 | 1 | 98 |
| SEEDS 2000/2953RR | 95 | 207 | 191 | 61 | 16 | 2 | 100 |
| CHANNEL/6925RB | 92 | 207 | 188 | 61 | 16 | 0 | 94 |
| INTEGRA/INT 6193RRYG | 92 | 199 | 191 | 61 | 16 | 3 | 94 |
| ONE-YEAR ENTRIES: | | | | | | | |
| CHANNEL/EXP X50941RB | 94 | | 205 | 59 | 16 | 0 | 97 |
| DAIRYLAND/STEALTH-7191 | 91 | | 203 | 60 | 16 | 1 | 96 |
| KRUGER/9593RR/YGCB | 93 | | 201 | 62 | 16 | 1 | 98 |
| WENSMAN/W 6194BTRR | 93 | | 201 | 60 | 17 | 0 | 93 |
| HEINE/H627RR/YGCB | 91 | | 201 | 61 | 17 | 1 | 96 |
| NUTECH/NT-5191+RR/YGCB | 91 | | 199 | 61 | 16 | 1 | 92 |
| INTEGRA/INT 63F90RRYG | 90 | | 197 | 62 | 17 | 0 | 94 |
| DEKALB/DKC41-64RR2YGCB | 91 | | 196 | 61 | 16 | 0 | 98 |
| NUTECH/NT-5889 RR/YGCB | 90 | | 196 | 61 | 16 | 1 | 99 |
| NUTECH/NT-9191+RRYGPLUS | 91 | | 194 | 61 | 17 | 1 | 96 |
| KAYSTAR/KX-4250RRBT | 93 | | 194 | 61 | 16 | 1 | 94 |
| AGVENTURE/EXP5612RR | 95 | | 192 | 59 | 16 | 3 | 99 |
| NUTECH/NT-3696 RR | 95 | | 191 | 59 | 16 | 2 | 95 |
| DEKALB/DKC40-08RR2YGCB | 90 | | 189 | 61 | 16 | 1 | 96 |
| GOLD COUNTRY/83-01CBR | 83 | | 176 | 60 | 16 | 1 | 98 |
| Trial avg.: | 92 | 211 | 195 | 60 | 16 | 1 | 96 |
| Highest (H)-avg.: | 95 | 219 | 207 | 62 | 17 | 3 | 100 |
| Lowest (L)-avg.: | 83 | 199 | 176 | 59 | 16 | 0 | 85 |
| H-L avg. difference: | 12 | 20 | 31 | 3 | 2 | 3 | 15 |
| ** Lsd (.05): | | NS | 14 | 1 | 0 | NS | 5 |
| # Min. TPG-value: | | 199 | 193 | 61 | | | 95 |
| ## Max. TPG-value: | | | | | 16 | 3 | |
| + Coef. of var.: | | 4 | 4 | 1 | 1 | | 3 |
| No. of entries: | 30 | 15 | 30 | 30 | 30 | 30 | 30 |

* Seeded May 16, 2005 at 28,750 seeds per acre.

** Lsd= the amount values in a column must differ to be significantly different.

If Lsd = NS then differences among values in a column are non-significant (NS).

Min. TPG-value= minimum value required for the top performance group.

Max. TPG-value= maximum value required for the top performance group.

+ Coef. of Variation = a measure of trial experimental error, 15% or less is best.

Table 1d. Late maturity Roundup Ready™ corn hybrid test trial results. Allen & Inel Ryckman Farm, Warner, SD, 2004-2005.

| Brand/Hybrid (By 2-year then '05 yields) | Brand Rel. Mat. | Test trial variable at harvest | | | | | |
|--|-----------------|--------------------------------|----------------|----------------|--------------------|--------------|----------------|
| | | 2-year Yield bu/a | '05 Yield bu/a | '05 Bu. Wt. lb | '05 Grain Moist. % | 05 Lodging % | 05 Pct.* Stand |
| TWO-YEAR ENTRIES: | | | | | | | |
| DEKALB/DKC50-20RR2YGCB | 100 | 210 | 202 | 60 | 17 | 1 | 100 |
| DEKALB/DKC47-10RR2YGCB | 97 | 209 | 195 | 62 | 16 | 1 | 99 |
| SEEDS 2000/3122RRBT | 102 | 206 | 193 | 58 | 19 | 0 | 97 |
| NUTECH/NT-5101 RR/YGCB | 101 | 204 | 194 | 57 | 19 | 1 | 96 |
| KRUGER/9203RR/YGCB | 103 | 201 | 188 | 58 | 19 | 1 | 96 |
| DAIRYLAND/STEALTH-6497 | 97 | 200 | 186 | 60 | 16 | 2 | 95 |
| ONE-YEAR ENTRIES: | | | | | | | |
| DEKALB/DKC48-53RR2YGCB | 98 | | 206 | 59 | 17 | 1 | 97 |
| KRUGER/3503TS | 103 | | 204 | 62 | 19 | 0 | 97 |
| WENSMAN/W 6266BTRR | 96 | | 200 | 61 | 17 | 0 | 97 |
| NUTECH/NT-3505+RR | 102 | | 199 | 60 | 22 | 1 | 98 |
| CHANNEL/4S502 | 97 | | 197 | 61 | 17 | 0 | 99 |
| KRUGER/2697RR/YGCB | 97 | | 196 | 61 | 17 | 1 | 94 |
| WENSMAN/W 6315BTRR | 101 | | 196 | 58 | 20 | 0 | 95 |
| KRUGER/1500RR | 100 | | 195 | 60 | 16 | 1 | 99 |
| KRUGER/EXP1697RR | 97 | | 194 | 59 | 16 | 1 | 98 |
| KRUGER/EXP1597RR | 97 | | 192 | 60 | 16 | 0 | 99 |
| CHANNEL/7135RB | 102 | | 192 | 58 | 19 | 1 | 98 |
| NUTECH/NT-3999+RR | 99 | | 189 | 61 | 18 | 0 | 94 |
| NUTECH/NT-3999 RR | 99 | | 184 | 61 | 18 | 1 | 93 |
| CHANNEL/EXP X51001RB | 100 | | 184 | 61 | 19 | 0 | 100 |
| INTEGRA/INT 6696RR | 97 | | 183 | 61 | 18 | 5 | 99 |
| NUTECH/NT-3898 RR | 98 | | 182 | 59 | 20 | 2 | 92 |
| AGVENTURE/AV6231R2CB | 102 | | 180 | 60 | 16 | 1 | 96 |
| SEEDS 2000/EXP3123RR | 102 | | 178 | 58 | 20 | 1 | 94 |
| KRUGER/2600RR/YGCB | 99 | | 175 | 60 | 21 | 0 | 96 |
| KRUGER/4501RR/YGRW | 100 | | 169 | 60 | 18 | 1 | 97 |
| Trial avg.: | 99 | 205 | 191 | 60 | 18 | 1 | 97 |
| Highest (H)-avg.: | 103 | 210 | 206 | 62 | 22 | 5 | 100 |
| Lowest (L)-avg.: | 96 | 200 | 169 | 57 | 16 | 0 | 92 |
| H-L avg. difference: | 7 | 10 | 37 | 4 | 6 | 5 | 8 |
| ** Lsd (.05): | | NS | 18 | 1 | 2 | 2 | NS |
| # Min. TPG-value: | | 200 | 188 | 61 | | | 92 |
| ## Max. TPG-value: | | | | | 18 | 2 | |
| + Coef. of var.: | | 5 | 6 | 1 | 5 | | 3 |
| No. of entries: | 26 | 6 | 26 | 26 | 26 | 26 | 26 |

* Seeded May 16, 2005 at 28,750 seeds per acre.

** Lsd= the amount values in a column must differ to be significantly different.

If Lsd = NS then differences among values in a column are non-significant (NS).

Min. TPG-value= minimum value required for the top performance group.

Max. TPG-value= maximum value required for the top performance group.

+ Coef. of Variation = a measure of trial experimental error, 15% or less is best.

Table 2a. Early maturity Non-Roundup Ready™ corn hybrid test trial results. NE Research Farm, South Shore, SD, 2004-2005.

| Brand/Hybrid (By 2-year then '05 yields) | Brand Rel. Mat. | Hybrid performance variable at harvest | | | | | |
|--|-----------------|--|----------------|----------------|--------------------|--------------|----------------|
| | | 2-year Yield bu/a | '05 Yield bu/a | '05 Bu. Wt. lb | '05 Grain Moist. % | 05 Lodging % | 05 Pct.* Stand |
| TWO-YEAR ENTRIES: | | | | | | | |
| WENSMAN/W 5212BT | 95 | 161 | 164 | 57 | 16 | 1 | 99 |
| SEEDS 2000/2953BT | 95 | 159 | 166 | 56 | 16 | 1 | 100 |
| KRUGER/9496YGCB | 94 | 159 | 165 | 56 | 15 | 2 | 100 |
| KELTGEN/AV4880CB | 95 | 157 | 163 | 56 | 16 | 0 | 100 |
| GOLD COUNTRY/94-01CB | 94 | 157 | 163 | 55 | 15 | 1 | 100 |
| WENSMAN/W 5117BT | 91 | 155 | 152 | 57 | 14 | 0 | 99 |
| DAIRYLAND/STEALTH-5194 | 94 | 146 | 158 | 57 | 15 | 1 | 99 |
| ONE-YEAR ENTRIES: | | | | | | | |
| KRUGER/EXP0692 | 92 | | 159 | 57 | 15 | 2 | 99 |
| AGVENTURE/AV4004CB | 92 | | 157 | 57 | 15 | 0 | 99 |
| KRUGER/EXP5692BT/LL | 92 | | 156 | 58 | 15 | 1 | 99 |
| GOLD COUNTRY/94-02CBLL | 94 | | 149 | 58 | 15 | 0 | 97 |
| Trial avg.: | 93 | 156 | 159 | 57 | 15 | 1 | 99 |
| Highest (H)-avg.: | 95 | 161 | 166 | 58 | 16 | 2 | 100 |
| Lowest (L)-avg.: | 91 | 146 | 149 | 55 | 14 | 0 | 97 |
| H-L avg. difference: | 4 | 15 | 17 | 4 | 2 | 2 | 3 |
| ** Lsd (.05): | | 16 | 20 | 2 | 1 | NS | NS |
| # Min. TPG-value: | | 145 | 146 | 56 | | | 97 |
| ## Max. TPG-value: | | | | | 15 | 2 | |
| + Coef. of var.: | | 4 | 7 | 2 | 6 | | 2 |
| No. of entries: | 11 | 7 | 11 | 11 | 11 | 11 | 11 |

* Seeded May 18, 2005 at 28,750 seeds per acre.

** Lsd= the amount values in a column must differ to be significantly different.

If Lsd = NS then differences among values in a column are non-significant (NS).

Min. TPG-value= minimum value required for the top performance group.

Max. TPG-value= maximum value required for the top performance group.

+ Coef.of Variation = a measure of trial experimental error, 15% or less is best.

Table 2b. Late maturity Non-Roundup Ready™ corn hybrid test trial results. NE Research Farm, South Shore, SD, 2004-2005.

| Brand/Hybrid (By 2-year then '05 yields) | Brand Rel. Mat. | Hybrid performance variable at harvest | | | | | |
|--|-----------------|--|----------------|----------------|--------------------|--------------|----------------|
| | | 2-year Yield bu/a | '05 Yield bu/a | '05 Bu. Wt. lb | '05 Grain Moist. % | 05 Lodging % | 05 Pct.* Stand |
| ONE-YEAR ENTRIES: | | | | | | | |
| KRUGER/5505YGCB | 105 | | 177 | 56 | 23 | 0 | 100 |
| GOLD COUNTRY/100-05CB | 100 | | 174 | 57 | 19 | 1 | 99 |
| WENSMAN/W 5303BT | 99 | | 169 | 57 | 17 | 0 | 98 |
| AGVENTURE/AVEXP5613CB | 96 | | 166 | 59 | 20 | 0 | 98 |
| KRUGER/8602HX | 102 | | 161 | 55 | 19 | 1 | 99 |
| KRUGER/5504YGCB | 104 | | 159 | 57 | 17 | 0 | 99 |
| Trial avg.: | 101 | | 168 | 57 | 19 | 0 | 99 |
| Highest (H)-avg.: | 105 | | 177 | 59 | 23 | 1 | 100 |
| Lowest (L)-avg.: | 96 | | 159 | 55 | 17 | 0 | 98 |
| H-L avg. difference: | 9 | | 18 | 5 | 7 | 1 | 2 |
| ** Lsd (.05): | | | 15 | 2 | 2 | NS | 3 |
| # Min. TPG-value: | | | 162 | 57 | | | 97 |
| ## Max. TPG-value: | | | | | 19 | 1 | |
| + Coef. of var.: | | | 5 | 2 | 6 | | 2 |
| No. of entries: | 6 | 0 | 6 | 6 | 6 | 6 | 6 |

* Seeded May 18, 2005 at 28,750 seeds per acre.

** Lsd= the amount values in a column must differ to be significantly different.

If Lsd = NS then differences among values in a column are non-significant (NS).

Min. TPG-value= minimum value required for the top performance group.

Max. TPG-value= maximum value required for the top performance group.

+ Coef. of Variation = a measure of trial experimental error, 15% or less is best.

Table 2c. Early maturity Roundup Ready™ corn hybrid test trial results. NE Research Farm, South Shore, SD, 2004-2005.

| Brand/Hybrid (By 2-year then '05 yields) | Brand Rel. Mat. | Test trial variable at harvest | | | | | |
|--|-----------------|--------------------------------|----------------|----------------|--------------------|--------------|----------------|
| | | 2-year Yield bu/a | '05 Yield bu/a | '05 Bu. Wt. lb | '05 Grain Moist. % | 05 Lodging % | 05 Pct.* Stand |
| TWO-YEAR ENTRIES: | | | | | | | |
| INTEGRA/INT 6395RR | 94 | 171 | 188 | 59 | 17 | 1 | 98 |
| KRUGER/9392RR/YGCB | 92 | 170 | 186 | 59 | 17 | 0 | 97 |
| DEKALB/DKC42-95RR2YGCB | 92 | 170 | 184 | 59 | 17 | 0 | 99 |
| KRUGER/9496RR | 94 | 168 | 186 | 58 | 17 | 2 | 99 |
| SEEDS 2000/2953RR | 95 | 168 | 185 | 57 | 17 | 1 | 100 |
| NUTECH/NT-3595 RR | 95 | 167 | 186 | 58 | 19 | 0 | 94 |
| WENSMAN/W 6212RR | 90 | 166 | 183 | 57 | 18 | 0 | 99 |
| WENSMAN/W 6117BTRR | 91 | 165 | 183 | 59 | 16 | 0 | 100 |
| CHANNEL/6965 R | 95 | 164 | 186 | 58 | 18 | 1 | 95 |
| KELTGEN/AV4005R2CB | 92 | 163 | 183 | 58 | 17 | 0 | 93 |
| GOLD COUNTRY/92-01CBR | 92 | 161 | 180 | 59 | 17 | 0 | 97 |
| SEEDS 2000/2944RRBT | 94 | 160 | 170 | 59 | 16 | 1 | 98 |
| KELTGEN/AV4882R2 | 94 | 158 | 175 | 59 | 16 | 1 | 97 |
| CHANNEL/6925RB | 92 | 157 | 167 | 59 | 16 | 0 | 92 |
| INTEGRA/INT 6193RRYG | 92 | 150 | 160 | 57 | 15 | 2 | 98 |
| ONE-YEAR ENTRIES: | | | | | | | |
| CHANNEL/EXP X50941RB | 94 | | 194 | 58 | 17 | 0 | 100 |
| INTEGRA/INT 63F90RRYG | 90 | | 193 | 59 | 18 | 0 | 99 |
| DEKALB/DKC41-64RR2YGCB | 91 | | 186 | 59 | 16 | 0 | 98 |
| KRUGER/9593RR/YGCB | 93 | | 183 | 59 | 16 | 1 | 99 |
| NUTECH/NT-5191+RR/YGCB | 91 | | 179 | 59 | 17 | 0 | 96 |
| WENSMAN/W 6194BTRR | 93 | | 176 | 60 | 17 | 0 | 99 |
| AGVENTURE/EXP5612RR | 95 | | 174 | 57 | 16 | 1 | 100 |
| NUTECH/NT-5889 RR/YGCB | 90 | | 174 | 59 | 17 | 0 | 98 |
| NUTECH/NT-9191+RRYGPLUS | 91 | | 174 | 59 | 17 | 0 | 96 |
| KALTENBERG/K3919RRBT | 92 | | 174 | 58 | 17 | 0 | 97 |
| DEKALB/DKC40-08RR2YGCB | 90 | | 172 | 59 | 15 | 0 | 100 |
| AGVENTURE/AV4883R2RW | 94 | | 172 | 57 | 18 | 1 | 93 |
| NUTECH/NT-3696 RR | 95 | | 168 | 56 | 15 | 2 | 98 |
| KALTENBERG/K2717RRBT | 85 | | 168 | 58 | 16 | 1 | 98 |
| AGVENTURE/AV3919R2CB | 90 | | 165 | 58 | 15 | 1 | 98 |
| Trial avg.: | 92 | 164 | 178 | 58 | 17 | 0 | 97 |
| Highest (H)-avg.: | 95 | 171 | 194 | 60 | 19 | 2 | 100 |
| Lowest (L)-avg: | 85 | 150 | 160 | 56 | 15 | 0 | 92 |
| H-L avg. difference: | 10 | 21 | 34 | 4 | 4 | 2 | 8 |
| ** Lsd (.05): | | 11 | 13 | 2 | 2 | NS | 3 |
| # Min. TPG-value: | | 160 | 181 | 58 | | | 97 |
| ## Max. TPG-value: | | | | | 17 | 2 | |
| + Coef. of var.: | | 4 | 5 | 2 | 6 | | 2 |
| No. of entries: | 30 | 15 | 30 | 30 | 30 | 30 | 30 |

* Seeded May 18, 2005 at 28,750 seeds per acre.

** Lsd= the amount values in a column must differ to be significantly different.

If Lsd = NS then differences among values in a column are non-significant (NS).

Min. TPG-value= minimum value required for the top performance group.

Max. TPG-value= maximum value required for the top performance group.

+ Coef. of Variation = a measure of trial experimental error, 15% or less is best.

Table 2d. Late maturity Roundup Ready™ corn hybrid test trial results. NE Research Farm, South Shore, SD, 2004-2005.

| Brand/Hybrid (By 2-year then '05 yields) | Brand Rel. Mat. | Test trial variable at harvest | | | | | |
|--|-----------------|--------------------------------|----------------|----------------|--------------------|--------------|----------------|
| | | 2-year Yield bu/a | '05 Yield bu/a | '05 Bu. Wt. lb | '05 Grain Moist. % | 05 Lodging % | 05 Pct.* Stand |
| TWO-YEAR ENTRIES: | | | | | | | |
| DEKALB/DKC47-10RR2YGCB | 97 | 168 | 186 | 61 | 18 | 0 | 97 |
| DAIRYLAND/STEALTH-6497 | 97 | 162 | 175 | 58 | 18 | 1 | 96 |
| NUTECH/NT-5101 RR/YGCB | 101 | 160 | 181 | 56 | 19 | 0 | 99 |
| KRUGER/1500RR | 100 | 159 | 178 | 58 | 16 | 2 | 100 |
| KRUGER/9203RR/YGCB | 103 | 156 | 177 | 56 | 21 | 0 | 99 |
| CHANNEL/7135RB | 102 | 156 | 176 | 56 | 20 | 0 | 99 |
| ONE-YEAR ENTRIES: | | | | | | | |
| DEKALB/DKC50-20RR2YGCB | 100 | | 185 | 57 | 16 | 0 | 97 |
| WENSMAN/W 6266BTRR | 96 | | 183 | 60 | 18 | 0 | 100 |
| DEKALB/DKC48-53RR2YGCB | 98 | | 179 | 58 | 19 | 0 | 98 |
| KRUGER/2697RR/YGCB | 97 | | 178 | 59 | 18 | 0 | 98 |
| NUTECH/NT-3505+RR | 102 | | 176 | 57 | 24 | 1 | 95 |
| WENSMAN/W 6315BTRR | 101 | | 176 | 55 | 18 | 1 | 100 |
| CHANNEL/4S502 | 97 | | 174 | 57 | 17 | 0 | 98 |
| KALTENBERG/K4666RR | 96 | | 173 | 57 | 18 | 1 | 94 |
| KRUGER/EXP1697RR | 97 | | 172 | 57 | 16 | 1 | 96 |
| NUTECH/NT-3999+RR | 99 | | 169 | 59 | 18 | 0 | 95 |
| KRUGER/2600RR/YGCB | 99 | | 169 | 58 | 22 | 0 | 100 |
| NUTECH/NT-3999 RR | 99 | | 167 | 58 | 17 | 0 | 95 |
| NUTECH/NT-3898 RR | 98 | | 162 | 56 | 22 | 0 | 93 |
| KRUGER/EXP1597RR | 97 | | 162 | 57 | 16 | 1 | 97 |
| KRUGER/3503TS | 103 | | 160 | 58 | 18 | 0 | 98 |
| CHANNEL/EXP X51001RB | 100 | | 158 | 58 | 21 | 1 | 96 |
| KRUGER/4501RR/YGRW | 100 | | 150 | 58 | 20 | 1 | 100 |
| Trial avg.: | 99 | 160 | 172 | 58 | 19 | 0 | 97 |
| Highest (H)-avg.: | 103 | 168 | 186 | 61 | 24 | 2 | 100 |
| Lowest (L)-avg.: | 96 | 156 | 150 | 55 | 16 | 0 | 93 |
| H-L avg. difference: | 7 | 12 | 36 | 5 | 8 | 2 | 7 |
| ** Lsd (.05): | | NS | 19 | 2 | 2 | NS | NS |
| # Min. TPG-value: | | 156 | 167 | 59 | | | 93 |
| ## Max. TPG-value: | | | | | 18 | 2 | |
| + Coef. of var.: | | 5 | 7 | 2 | 6 | | 3 |
| No. of entries: | 23 | 6 | 23 | 23 | 23 | 23 | 23 |

* Seeded May 18, 2005 at 28,750 seeds per acre.

** Lsd= the amount values in a column must differ to be significantly different.

If Lsd = NS then differences among values in a column are non-significant (NS).

Min. TPG-value= minimum value required for the top performance group.

Max. TPG-value= maximum value required for the top performance group.

+ Coef. of Variation = a measure of trial experimental error, 15% or less is best.

Table 3a. Early maturity Non-Roundup Ready™ corn hybrid test trial results. Erland Weerts Farm, Bancroft, SD, 2004-2005.

| Brand/Hybrid (By 2-year then '05 yields) | Brand Rel. Mat. | Hybrid performance variable at harvest | | | | | |
|--|-----------------|--|----------------|----------------|--------------------|--------------|----------------|
| | | 2-year Yield bu/a | '05 Yield bu/a | '05 Bu. Wt. lb | '05 Grain Moist. % | 05 Lodging % | 05 Pct.* Stand |
| TWO-YEAR ENTRIES: | | | | | | | |
| WENSMAN/W 5212BT | 95 | 205 | 191 | 60 | 17 | 0 | 99 |
| GOLD COUNTRY/94-01CB | 94 | 200 | 189 | 60 | 17 | 0 | 100 |
| KRUGER/9496YGCB | 94 | 199 | 198 | 61 | 16 | 0 | 99 |
| EPLEY/E1157 | 95 | 197 | 206 | 59 | 19 | 1 | 99 |
| DAIRYLAND/STEALTH-5497 | 97 | 197 | 197 | 61 | 17 | 0 | 100 |
| EPLEY/E14H07HX | 100 | 196 | 193 | 59 | 20 | 0 | 98 |
| SEEDS 2000/2953BT | 95 | 193 | 191 | 60 | 17 | 0 | 100 |
| ONE-YEAR ENTRIES: | | | | | | | |
| GOLD COUNTRY/100-05CB | 100 | | 198 | 61 | 19 | 0 | 100 |
| GOLD COUNTRY/100-06 | 100 | | 194 | 62 | 19 | 1 | 99 |
| EPLEY/E1214 | 99 | | 191 | 62 | 19 | 0 | 99 |
| WENSMAN/W 5303BT | 99 | | 190 | 60 | 18 | 0 | 100 |
| KRUGER/EXP0600 | 100 | | 179 | 63 | 18 | 2 | 100 |
| Trial avg.: | 97 | 198 | 193 | 61 | 18 | 0 | 99 |
| Highest (H)-avg.: | 100 | 205 | 206 | 63 | 20 | 2 | 100 |
| Lowest (L)-avg.: | 94 | 193 | 179 | 59 | 16 | 0 | 98 |
| H-L avg. difference: | 6 | 12 | 27 | 3 | 3 | 2 | 3 |
| ** Lsd (.05): | | NS | 11 | NS | 1 | 1 | NS |
| # Min. TPG-value: | | 193 | 195 | 59 | | | 98 |
| ## Max. TPG-value: | | | | | 17 | 1 | |
| + Coef. of var.: | | 5 | 3 | 4 | 2 | | 1 |
| No. of entries: | 12 | 7 | 12 | 12 | 12 | 12 | 12 |

* Seeded May 5, 2005 at 28,750 seeds per acre.

** Lsd= the amount values in a column must differ to be significantly different.

If Lsd = NS then differences among values in a column are non-significant (NS).

Min. TPG-value= minimum value required for the top performance group.

Max. TPG-value= maximum value required for the top performance group.

+ Coef. of Variation = a measure of trial experimental error, 15% or less is best.

Table 3b. Late maturity Non-Roundup Ready™ corn hybrid test trial results. Erland Weerts Farm, Bancroft, SD, 2004-2005.

| Brand/Hybrid (By 2-year then '05 yields) | Brand Rel. Mat. | Hybrid performance variable at harvest | | | | | |
|--|-----------------|--|----------------|----------------|--------------------|--------------|----------------|
| | | 2-year Yield bu/a | '05 Yield bu/a | '05 Bu. Wt. lb | '05 Grain Moist. % | 05 Lodging % | 05 Pct.* Stand |
| TWO-YEAR ENTRIES: | | | | | | | |
| EPLEY/E1442 | 102 | 215 | 197 | 58 | 21 | 1 | 94 |
| EPLEY/E1430YGCB | 103 | 203 | 207 | 57 | 24 | 0 | 97 |
| KRUGER/9407YGCB | 105 | 199 | 194 | 60 | 21 | 0 | 99 |
| ONE-YEAR ENTRIES: | | | | | | | |
| DAIRYLAND/STEALTH-5201 | 101 | | 208 | 59 | 19 | 0 | 100 |
| WENSMAN/W 5349BT | 101 | | 208 | 60 | 20 | 0 | 100 |
| KRUGER/5504YGCB | 104 | | 196 | 59 | 21 | 0 | 99 |
| KRUGER/5505YGCB | 105 | | 194 | 59 | 24 | 0 | 96 |
| KRUGER/8602HX | 102 | | 190 | 57 | 20 | 0 | 98 |
| KRUGER/EXP5602YGCB | 102 | | 182 | 60 | 18 | 0 | 97 |
| EPLEY/E2490YGCB | 110 | | 170 | 56 | 21 | 0 | 100 |
| Trial avg.: | 104 | 206 | 195 | 58 | 21 | 0 | 98 |
| Highest (H)-avg.: | 110 | 215 | 208 | 60 | 24 | 1 | 100 |
| Lowest (L)-avg.: | 101 | 199 | 170 | 56 | 18 | 0 | 94 |
| H-L avg. difference: | 9 | 16 | 38 | 4 | 5 | 1 | 6 |
| ** Lsd (.05): | | NS | 22 | 2 | 1 | NS | 3 |
| # Min. TPG-value: | | 199 | 186 | 58 | | | 97 |
| ## Max. TPG-value: | | | | | 19 | 1 | |
| + Coef. of var.: | | 10 | 6 | 2 | 3 | | 2 |
| No. of entries: | 10 | 3 | 10 | 10 | 10 | 10 | 10 |

* Seeded May 5, 2005 at 28,750 seeds per acre.

** Lsd= the amount values in a column must differ to be significantly different.

If Lsd = NS then differences among values in a column are non-significant (NS).

Min. TPG-value= minimum value required for the top performance group.

Max. TPG-value= maximum value required for the top performance group.

+ Coef. of Variation = a measure of trial experimental error, 15% or less is best.

Table 3c. Early maturity Roundup Ready™ corn hybrid test trial results. Erland Weerts Farm, Bancroft, SD, 2004-2005.

| Brand/Hybrid (By 2-year then '05 yields) | Brand Rel. Mat. | Test trial variable at harvest | | | | | |
|--|-----------------|--------------------------------|----------------|----------------|--------------------|---------------|-----------------|
| | | 2-year Yield bu/a | '05 Yield bu/a | '05 Bu. Wt. lb | '05 Grain Moist. % | '05 Lodging % | '05 Pct.* Stand |
| TWO-YEAR ENTRIES: | | | | | | | |
| DEKALB/DKC50-20RR2YGCB | 100 | 211 | 221 | 61 | 19 | 0 | 99 |
| INTEGRA/INT 6395RR | 94 | 208 | 209 | 60 | 17 | 1 | 100 |
| WENSMAN/W 6212RR | 90 | 196 | 197 | 60 | 18 | 2 | 98 |
| HEINE/H630RR | 95 | 196 | 192 | 61 | 17 | 0 | 99 |
| KRUGER/1500RR | 100 | 191 | 200 | 62 | 18 | 0 | 100 |
| NUTECH/NT-3595 RR | 95 | 191 | 191 | 61 | 17 | 0 | 94 |
| KAYSTAR/KX-5900RR | 99 | 191 | 187 | 58 | 19 | 0 | 99 |
| EPLEY/E1165RR | 95 | 188 | 187 | 60 | 17 | 0 | 99 |
| INTEGRA/INT 6193RRYG | 92 | 186 | 185 | 60 | 17 | 0 | 90 |
| DEKALB/DKC47-10RR2YGCB | 97 | 184 | 195 | 61 | 17 | 0 | 100 |
| DAIRYLAND/STEALTH-6497 | 97 | 183 | 168 | 60 | 18 | 0 | 96 |
| KAYSTAR/KX-5150RR | 94 | 181 | 192 | 61 | 17 | 0 | 99 |
| WENSMAN/W 6117BTRR | 91 | 180 | 192 | 62 | 18 | 0 | 98 |
| HEINE/H723RR/YGCB | 100 | 166 | 166 | 60 | 19 | 0 | 94 |
| ONE-YEAR ENTRIES: | | | | | | | |
| CHANNEL/4S502 | 97 | | 216 | 63 | 19 | 0 | 99 |
| WENSMAN/W 6266BTRR | 96 | | 213 | 62 | 19 | 0 | 100 |
| DEKALB/DKC48-53RR2YGCB | 98 | | 202 | 60 | 19 | 0 | 99 |
| KAYSTAR/KX-5800RR | 97 | | 201 | 60 | 20 | 1 | 100 |
| KRUGER/2697RR/YGCB | 97 | | 201 | 61 | 19 | 0 | 96 |
| CHANNEL/EXP X51001RB | 100 | | 198 | 61 | 20 | 0 | 99 |
| WENSMAN/W 6194BTRR | 93 | | 197 | 61 | 19 | 0 | 95 |
| HEINE/H627RR/YGCB | 91 | | 196 | 61 | 17 | 0 | 100 |
| KRUGER/9496RR | 94 | | 194 | 61 | 18 | 1 | 99 |
| GOLD COUNTRY/94-01RR | 94 | | 192 | 61 | 17 | 0 | 100 |
| INTEGRA/INT 63F90RRYG | 90 | | 192 | 62 | 18 | 0 | 99 |
| INTEGRA/INT 6696RR | 97 | | 191 | 62 | 19 | 1 | 98 |
| INTEGRA/INT 6602RRYG | 100 | | 189 | 58 | 18 | 0 | 100 |
| NUTECH/NT-5191+RR/YGCB | 91 | | 188 | 61 | 17 | 0 | 95 |
| NUTECH/NT-3898 RR | 98 | | 188 | 59 | 20 | 0 | 95 |
| NUTECH/NT-7595 RR | 95 | | 186 | 60 | 18 | 1 | 98 |
| KRUGER/4501RR/YGRW | 100 | | 183 | 60 | 19 | 0 | 100 |
| HEINE/H710RR | 100 | | 180 | 57 | 21 | 1 | 99 |
| NUTECH/NT-3999+RR | 99 | | 178 | 61 | 20 | 0 | 96 |
| EPLEY/E1445RR | 100 | | 177 | 59 | 22 | 0 | 95 |
| AGVENTURE/EXP5612RR | 95 | | 174 | 59 | 17 | 0 | 96 |
| | | | | | | | |

Table 3c. Early maturity Roundup Ready™ corn hybrid test trial results. Erland Weerts Farm, Bancroft, SD (continued).

| Brand/Hybrid (By 2-year then '05 yields) | Brand Rel. Mat. | Test trial variable at harvest | | | | | |
|--|-----------------|--------------------------------|----------------|----------------|--------------------|---------------|-----------------|
| | | 2-year Yield bu/a | '05 Yield bu/a | '05 Bu. Wt. lb | '05 Grain Moist. % | '05 Lodging % | '05 Pct.* Stand |
| HEINE/H724RR/YGCB | 100 | | 174 | 56 | 21 | 0 | 100 |
| NUTECH/NT-3696 RR | 95 | | 172 | 59 | 17 | 0 | 96 |
| NUTECH/NT-3999 RR | 99 | | 170 | 61 | 20 | 0 | 94 |
| EPLEY/E1145RR | 90 | | 158 | 61 | 16 | 0 | 95 |
| Trial avg.: | 96 | 189 | 190 | 60 | 18 | 0 | 98 |
| Highest (H)-avg.: | 100 | 211 | 221 | 63 | 22 | 2 | 100 |
| Lowest (L)-avg.: | 90 | 166 | 158 | 56 | 16 | 0 | 90 |
| H-L avg. difference: | 10 | 45 | 63 | 6 | 6 | 2 | 10 |
| ** Lsd (.05): | | 23 | 22 | 2 | 1 | 1 | 4 |
| # Min. TPG-value: | | 188 | 199 | 61 | | | 96 |
| ## Max. TPG-value: | | | | | 17 | 1 | |
| + Coef. of var.: | | 11 | 7 | 2 | 4 | | 2 |
| No. of entries: | 39 | 14 | 39 | 39 | 39 | 39 | 39 |

* Seeded May 5, 2005 at 28,750 seeds per acre.

** Lsd= the amount values in a column must differ to be significantly different.

If Lsd = NS then differences among values in a column are non-significant (NS).

Min. TPG-value= minimum value required for the top performance group.

Max. TPG-value= maximum value required for the top performance group.

+ Coef. of Variation = a measure of trial experimental error, 15% or less is best.

Table 3d. Late maturity Roundup Ready™ corn hybrid test trial results. Erland Weerts Farm, Bancroft, SD, 2004-2005.

| Brand/Hybrid (By 2-year then '05 yields) | Brand Rel. Mat. | Test trial variable at harvest | | | | | |
|--|-----------------|--------------------------------|----------------|----------------|--------------------|---------------|-----------------|
| | | 2-year Yield bu/a | '05 Yield bu/a | '05 Bu. Wt. lb | '05 Grain Moist. % | '05 Lodging % | '05 Pct.* Stand |
| TWO-YEAR ENTRIES: | | | | | | | |
| HEINE/H750RR/YGCB | 105 | 213 | 214 | 58 | 25 | 0 | 98 |
| SEEDS 2000/3122RRBT | 102 | 206 | 199 | 59 | 21 | 0 | 99 |
| CHANNEL/7135RB | 102 | 203 | 197 | 57 | 21 | 1 | 99 |
| KRUGER/9203RR/YGCB | 103 | 202 | 209 | 58 | 21 | 0 | 99 |
| DEKALB/DKC52-47RR2YGCB | 102 | 198 | 205 | 60 | 19 | 0 | 99 |
| WENSMAN/W 6315BTRR | 101 | 195 | 200 | 58 | 21 | 0 | 96 |
| EPLEY/E1475RR | 103 | 192 | 195 | 61 | 19 | 1 | 98 |
| EPLEY/E1465RR | 103 | 174 | 168 | 61 | 19 | 1 | 91 |
| ONE-YEAR ENTRIES: | | | | | | | |
| KRUGER/3503TS | 103 | | 211 | 61 | 19 | 0 | 94 |
| KRUGER/EXP2605RR/YGCB | 105 | | 211 | 58 | 25 | 0 | 98 |
| NUTECH/NT-5101 RR/YGCB | 101 | | 209 | 59 | 20 | 0 | 95 |
| INTEGRA/INT 6603RRYG | 103 | | 209 | 60 | 25 | 0 | 98 |
| CHANNEL/EXP X51021RB | 102 | | 204 | 60 | 20 | 0 | 99 |
| NUTECH/NT-5005 RR/YGCB | 105 | | 203 | 59 | 24 | 0 | 97 |
| WENSMAN/W 6318BTRR | 103 | | 200 | 58 | 26 | 0 | 95 |
| NUTECH/NT-3505 RR | 105 | | 197 | 60 | 22 | 0 | 98 |
| NUTECH/NT-5303 RR/YGCB | 103 | | 195 | 59 | 24 | 0 | 99 |
| NUTECH/NT-3505+RR | 102 | | 194 | 61 | 22 | 0 | 96 |
| KRUGER/2506RR/YGCB | 106 | | 194 | 60 | 23 | 0 | 94 |
| EPLEY/E12R45YGCB | 102 | | 193 | 58 | 22 | 0 | 98 |
| EPLEY/E15R45YGCB | 103 | | 192 | 60 | 20 | 0 | 99 |
| DEKALB/DKC55-82 (RR2) | 105 | | 191 | 59 | 22 | 1 | 99 |
| AGVENTURE/AV6231R2CB | 102 | | 185 | 61 | 19 | 0 | 100 |
| GOLD COUNTRY/103-02CBR | 103 | | 182 | 58 | 25 | 0 | 96 |
| HEINE/H746RR | 104 | | 181 | 57 | 22 | 0 | 94 |
| EPLEY/E14R95YGCB | 106 | | 177 | 59 | 22 | 0 | 97 |
| SEEDS 2000/EXP3123RR | 102 | | 157 | 57 | 21 | 1 | 93 |
| Trial avg.: | 103 | 198 | 195 | 59 | 22 | 0 | 97 |
| Highest (H)-avg.: | 106 | 213 | 214 | 61 | 26 | 1 | 100 |
| Lowest (L)-avg.: | 101 | 174 | 157 | 57 | 19 | 0 | 91 |
| H-L avg. difference: | 5 | 39 | 57 | 5 | 7 | 1 | 8 |
| ** Lsd (.05): | | 20 | 21 | 1 | 2 | NS | 4 |
| # Min. TPG-value: | | 193 | 193 | 60 | | | 96 |
| ## Max. TPG-value: | | | | | 21 | 1 | |
| + Coef. of var.: | | 10 | 7 | 2 | 4 | | 3 |
| No. of entries: | 27 | 8 | 27 | 27 | 27 | 27 | 27 |

* Seeded May 5, 2005 at 28,750 seeds per acre.

** Lsd= the amount values in a column must differ to be significantly different.

If Lsd = NS then differences among values in a column are non-significant (NS).

Min. TPG-value= minimum value required for the top performance group.

Max. TPG-value= maximum value required for the top performance group.

+ Coef. of Variation = a measure of trial experimental error, 15% or less is best.

Table 4a. Early maturity Non-Roundup Ready™ corn hybrid test trial results. SDSU Plant Science Research Farm, Brookings, SD, 2004-2005.

| Brand/Hybrid (By 2-year then '05 yields) | Brand Rel. Mat. | Hybrid performance variable at harvest | | | | | |
|--|-----------------|--|----------------|----------------|-----------|--------------|----------------|
| | | 2-year Yield bu/a | '05 Yield bu/a | '05 Bu. Wt. lb | '05 Grain | 05 Lodging % | 05 Pct.* Stand |
| TWO-YEAR ENTRIES: | | | | | | | |
| SEEDS 2000/2953BT | 95 | 218 | 237 | 60 | 18 | 0 | 100 |
| JUNG/6432YGCB | 95 | 217 | 236 | 61 | 18 | 0 | 99 |
| KRUGER/9496YGCB | 94 | 214 | 232 | 61 | 18 | 0 | 100 |
| EPLEY/E14H07HX | 100 | 212 | 234 | 59 | 20 | 0 | 93 |
| WENSMAN/W 5212BT | 95 | 212 | 227 | 61 | 17 | 0 | 97 |
| DAIRYLAND/STEALTH-5497 | 97 | 205 | 223 | 61 | 18 | 0 | 95 |
| EPLEY/E1157 | 95 | 200 | 228 | 59 | 18 | 5 | 96 |
| ONE-YEAR ENTRIES: | | | | | | | |
| GOLD COUNTRY/100-05CB | 100 | | 246 | 61 | 20 | 0 | 96 |
| WENSMAN/W 5303BT | 99 | | 241 | 61 | 18 | 1 | 99 |
| GOLD COUNTRY/94-01CB | 94 | | 240 | 61 | 18 | 0 | 98 |
| GOLD COUNTRY/100-06 | 100 | | 221 | 62 | 18 | 3 | 95 |
| KRUGER/EXP0600 | 100 | | 217 | 61 | 19 | 0 | 100 |
| EPLEY/E1214 | 99 | | 215 | 60 | 18 | 3 | 96 |
| Trial avg.: | 97 | 211 | 231 | 60 | 18 | 1 | 97 |
| Highest (H)-avg.: | 100 | 218 | 246 | 62 | 20 | 5 | 100 |
| Lowest (L)-avg.: | 94 | 200 | 215 | 59 | 17 | 0 | 93 |
| H-L avg. difference: | 6 | 18 | 31 | 3 | 2 | 5 | 6 |
| ** Lsd (.05): | | NS | 16 | 1 | 1 | 2 | 4 |
| # Min. TPG-value: | | 200 | 230 | 61 | | | 96 |
| ## Max. TPG-value: | | | | | 18 | 2 | |
| + Coef. of var.: | | 4 | 4 | 1 | 3 | | 2 |
| No. of entries: | 13 | 7 | 13 | 13 | 13 | 13 | 13 |

* Seeded May 6, 2005 at 28,750 seeds per acre.

** Lsd= the amount values in a column must differ to be significantly different.

If Lsd = NS then differences among values in a column are non-significant (NS).

Min. TPG-value= minimum value required for the top performance group.

Max. TPG-value= maximum value required for the top performance group.

+ Coef. of Variation = a measure of trial experimental error, 15% or less is best.

Table 4b. Late maturity Non-Roundup Ready™ corn hybrid test trial results. SDSU Plant Science Research Farm, Brookings, SD, 2004-2005.

| Brand/Hybrid (By 2-year then '05 yields) | Brand Rel. Mat. | Hybrid performance variable at harvest | | | | | |
|--|-----------------|--|----------------|----------------|--------------------|--------------|----------------|
| | | 2-year Yield bu/a | '05 Yield bu/a | '05 Bu. Wt. lb | '05 Grain Moist. % | 05 Lodging % | 05 Pct.* Stand |
| TWO-YEAR ENTRIES: | | | | | | | |
| DAIRYLAND/STEALTH-5104 | 104 | 220 | 247 | 60 | 21 | 0 | 98 |
| JUNG/6545YGCB | 105 | 218 | 233 | 60 | 21 | 0 | 96 |
| EPLEY/E2490YGCB | 110 | 214 | 238 | 59 | 22 | 0 | 99 |
| KRUGER/9407YGCB | 105 | 199 | 228 | 61 | 21 | 0 | 98 |
| ONE-YEAR ENTRIES: | | | | | | | |
| EPLEY/E1430YGCB | 103 | | 250 | 58 | 21 | 1 | 94 |
| KRUGER/EXP5405YGCB | 105 | | 249 | 59 | 21 | 0 | 98 |
| KRUGER/8602HX | 102 | | 241 | 58 | 20 | 0 | 98 |
| KRUGER/EXP5606YGCB | 106 | | 241 | 59 | 22 | 0 | 98 |
| DAIRYLAND/STEALTH-5201 | 101 | | 238 | 60 | 20 | 1 | 96 |
| KRUGER/EXP0605B | 105 | | 238 | 59 | 20 | 1 | 96 |
| DAIRYLAND/STEALTH-5204 | 104 | | 237 | 59 | 21 | 0 | 93 |
| KRUGER/5504YGCB | 104 | | 237 | 60 | 21 | 0 | 97 |
| KRUGER/EXP0605A | 105 | | 236 | 57 | 20 | 1 | 99 |
| KRUGER/EXP8607HX | 107 | | 236 | 57 | 23 | 0 | 99 |
| WENSMAN/W 5349BT | 101 | | 236 | 60 | 19 | 0 | 99 |
| EPLEY/E1442 | 102 | | 234 | 59 | 20 | 3 | 97 |
| KRUGER/5505YGCB | 105 | | 227 | 59 | 21 | 1 | 98 |
| KRUGER/EXP5602YGCB | 102 | | 227 | 61 | 19 | 0 | 99 |
| KRUGER/EXP0603A | 103 | | 227 | 61 | 20 | 2 | 99 |
| KRUGER/EXP0603B | 103 | | 221 | 58 | 18 | 1 | 96 |
| KRUGER/EXP8605HX | 105 | | 215 | 58 | 21 | 0 | 92 |
| Trial avg.: | 104 | 213 | 235 | 59 | 20 | 0 | 97 |
| Highest (H)-avg.: | 110 | 220 | 250 | 61 | 23 | 3 | 99 |
| Lowest (L)-avg.: | 101 | 199 | 215 | 57 | 18 | 0 | 92 |
| H-L avg. difference: | 9 | 21 | 35 | 4 | 5 | 3 | 7 |
| ** Lsd (.05): | | NS | 16 | 2 | 1 | 1 | NS |
| # Min. TPG-value: | | 199 | 234 | 59 | | | 92 |
| ## Max. TPG-value: | | | | | 19 | 1 | |
| + Coef. of var.: | | 8 | 4 | 2 | 3 | | 3 |
| No. of entries: | 21 | 4 | 21 | 21 | 21 | 21 | 21 |

* Seeded May 6, 2005 at 28,750 seeds per acre.

** Lsd= the amount values in a column must differ to be significantly different.

If Lsd = NS then differences among values in a column are non-significant (NS).

Min. TPG-value= minimum value required for the top performance group.

Max. TPG-value= maximum value required for the top performance group.

+ Coef. of Variation = a measure of trial experimental error, 15% or less is best.

Table 4c. Early maturity Roundup Ready™ corn hybrid test trial results. SDSU Plant Science Research Farm, Brookings, SD, 2004-2005.

| Brand/Hybrid (By 2-year then '05 yields) | Brand Rel. Mat. | Test trial variable at harvest | | | | | |
|--|-----------------|--------------------------------|----------------|----------------|-----------|---------------|-----------------|
| | | 2-year Yield bu/a | '05 Yield bu/a | '05 Bu. Wt. lb | '05 Grain | '05 Lodging % | '05 Pct.* Stand |
| TWO-YEAR ENTRIES: | | | | | | | |
| KRUGER/1500RR | 100 | 227 | 232 | 61 | 15 | 5 | 100 |
| DEKALB/DKC50-20RR2YGCB | 100 | 225 | 242 | 62 | 17 | 0 | 98 |
| DEKALB/DKC47-10RR2YGCB | 97 | 221 | 218 | 63 | 16 | 1 | 99 |
| WENSMAN/W 6212RR | 90 | 219 | 221 | 61 | 15 | 1 | 100 |
| SEEDS 2000/2953RR | 95 | 217 | 221 | 61 | 16 | 3 | 97 |
| KAYSTAR/KX-5900RR | 99 | 215 | 225 | 59 | 19 | 1 | 96 |
| DAIRYLAND/STEALTH-6497 | 97 | 214 | 219 | 61 | 15 | 2 | 97 |
| EPLEY/E1165RR | 95 | 213 | 214 | 60 | 15 | 1 | 94 |
| NUTECH/NT-3595 RR | 95 | 210 | 207 | 61 | 16 | 3 | 94 |
| INTEGRA/INT 6395RR | 94 | 209 | 207 | 62 | 15 | 1 | 98 |
| KALTENBERG/K4666RR | 96 | 201 | 195 | 61 | 16 | 2 | 93 |
| ONE-YEAR ENTRIES: | | | | | | | |
| CHANNEL/4S502 | 97 | | 244 | 61 | 17 | 1 | 99 |
| WENSMAN/W 6266BTRR | 96 | | 240 | 63 | 17 | 0 | 96 |
| INTEGRA/INT 6602RRYG | 100 | | 237 | 58 | 19 | 0 | 100 |
| KRUGER/2697RR/YGCB | 97 | | 234 | 61 | 17 | 0 | 96 |
| DEKALB/DKC48-53RR2YGCB | 98 | | 231 | 62 | 18 | 1 | 99 |
| WENSMAN/W 6117BTRR | 91 | | 230 | 62 | 16 | 1 | 96 |
| KAYSTAR/KX-5800RR | 97 | | 227 | 60 | 18 | 3 | 98 |
| NUTECH/NT-7595 RR | 95 | | 225 | 60 | 16 | 1 | 99 |
| NUTECH/NT-3898 RR | 98 | | 222 | 62 | 18 | 5 | 96 |
| NUTECH/NT-3999+RR | 99 | | 220 | 63 | 18 | 2 | 95 |
| EPLEY/E1445RR | 100 | | 220 | 60 | 19 | 2 | 95 |
| WENSMAN/W 6194BTRR | 93 | | 219 | 62 | 17 | 0 | 96 |
| CHANNEL/EXP X51001RB | 100 | | 219 | 63 | 19 | 0 | 99 |
| KRUGER/9496RR | 94 | | 217 | 61 | 15 | 2 | 96 |
| NUTECH/NT-3999 RR | 99 | | 215 | 62 | 18 | 1 | 90 |
| KRUGER/4501RR/YGRW | 100 | | 212 | 62 | 17 | 1 | 94 |
| GOLD COUNTRY/94-01RR | 94 | | 210 | 61 | 16 | 2 | 100 |
| NUTECH/NT-3696 RR | 95 | | 202 | 60 | 15 | 1 | 95 |
| INTEGRA/INT 6696RR | 97 | | 202 | 62 | 17 | 1 | 98 |
| NUTECH/NT-5191+RR/YGCB | 91 | | 200 | 62 | 17 | 0 | 91 |
| EPLEY/E1145RR | 90 | | 185 | 62 | 15 | 4 | 96 |
| Trial avg.: | 96 | 216 | 219 | 61 | 17 | 1 | 97 |
| Highest (H)-avg.: | 100 | 227 | 244 | 63 | 19 | 5 | 100 |
| Lowest (L)-avg.: | 90 | 201 | 185 | 58 | 15 | 0 | 90 |
| H-L avg. difference: | 10 | 26 | 59 | 5 | 4 | 5 | 10 |
| ** Lsd (.05): | | NS | 14 | 2 | 1 | 2 | 5 |
| # Min. TPG-value: | | 201 | 230 | 61 | | | 95 |
| ## Max. TPG-value: | | | | | 16 | 2 | |
| + Coef. of var.: | | 4 | 4 | 2 | 3 | | 3 |
| No. of entries: | 32 | 11 | 32 | 32 | 32 | 32 | 32 |

* Seeded May 6, 2005 at 28,750 seeds per acre.

** Lsd= the amount values in a column must differ to be significantly different.

If Lsd = NS then differences among values in a column are non-significant (NS).

Min. TPG-value= minimum value required for the top performance group.

Max. TPG-value= maximum value required for the top performance group.

+ Coef. of Variation = a measure of trial experimental error, 15% or less is best.

Table 4d. Late maturity Roundup Ready™ corn hybrid test trial results. SDSU Plant Science Research Farm, Brookings, SD, 2004-2005.

| Brand/Hybrid (By 2-year then '05 yields) | Brand Rel. Mat. | Test trial variable at harvest | | | | | |
|--|-----------------|--------------------------------|----------------|----------------|--------------------|--------------|----------------|
| | | 2-year Yield bu/a | '05 Yield bu/a | '05 Bu. Wt. lb | '05 Grain Moist. % | 05 Lodging % | 05 Pct.* Stand |
| TWO-YEAR ENTRIES: | | | | | | | |
| DEKALB/DKC52-47RR2YGCB | 102 | 230 | 240 | 59 | 17 | 0 | 97 |
| CHANNEL/7135RB | 102 | 219 | 231 | 59 | 19 | 0 | 100 |
| KRUGER/9203RR/YGCB | 103 | 218 | 234 | 58 | 19 | 0 | 99 |
| WENSMAN/W 6315BTRR | 101 | 216 | 230 | 59 | 19 | 0 | 100 |
| SEEDS 2000/3122RRBT | 102 | 215 | 232 | 58 | 19 | 0 | 98 |
| KALTENBERG/K5244RRBT | 102 | 214 | 220 | 59 | 20 | 0 | 92 |
| GOLD COUNTRY/1016RRBT | 104 | 213 | 231 | 59 | 18 | 1 | 97 |
| KALTENBERG/K5717RRBT | 105 | 203 | 212 | 57 | 21 | 0 | 98 |
| EPLEY/E1475RR | 103 | 198 | 213 | 60 | 17 | 1 | 99 |
| EPLEY/E1465RR | 103 | 192 | 199 | 59 | 18 | 1 | 93 |
| ONE-YEAR ENTRIES: | | | | | | | |
| DEKALB/DKC55-82 (RR2) | 105 | | 242 | 61 | 20 | 0 | 96 |
| INTEGRA/INT 6603RRYG | 103 | | 240 | 60 | 21 | 0 | 99 |
| GOLD COUNTRY/105-04CBR | 106 | | 239 | 60 | 21 | 0 | 96 |
| NUTECH/NT-5005 RR/YGCB | 105 | | 237 | 59 | 21 | 0 | 98 |
| NUTECH/NT-3505 RR | 105 | | 234 | 61 | 21 | 1 | 97 |
| KRUGER/EXP2605RR/YGCB | 105 | | 234 | 59 | 20 | 0 | 96 |
| EPLEY/E14R95YGCB | 106 | | 234 | 59 | 21 | 1 | 97 |
| EPLEY/E24R90YGCB | 110 | | 232 | 59 | 21 | 0 | 100 |
| NUTECH/NT-5101 RR/YGCB | 101 | | 231 | 58 | 19 | 0 | 100 |
| NUTECH/NT-5507+RR/YGCB | 105 | | 229 | 57 | 21 | 0 | 100 |
| KRUGER/3503TS | 103 | | 226 | 60 | 18 | 0 | 93 |
| EPLEY/E12R45YGCB | 102 | | 226 | 58 | 19 | 0 | 93 |
| GOLD COUNTRY/103-02CBR | 103 | | 226 | 61 | 22 | 0 | 97 |
| NUTECH/NT-3505+RR | 102 | | 225 | 61 | 20 | 0 | 99 |
| NUTECH/NT-5303 RR/YGCB | 103 | | 225 | 60 | 23 | 0 | 98 |
| NUTECH/NT-3408 RR | 105 | | 225 | 59 | 21 | 1 | 92 |
| WENSMAN/W 6318BTRR | 103 | | 225 | 59 | 21 | 0 | 95 |
| KRUGER/2506RR/YGCB | 106 | | 222 | 60 | 21 | 0 | 95 |
| CHANNEL/EXP X51021RB | 102 | | 219 | 59 | 20 | 0 | 100 |
| EPLEY/E15R45YGCB | 103 | | 212 | 60 | 19 | 1 | 99 |
| SEEDS 2000/EXP3123RR | 102 | | 209 | 58 | 19 | 0 | 97 |
| Trial avg.: | 104 | 212 | 227 | 59 | 20 | 0 | 97 |
| Highest (H)-avg.: | 110 | 230 | 242 | 61 | 23 | 1 | 100 |
| Lowest (L)-avg.: | 101 | 192 | 199 | 57 | 17 | 0 | 92 |
| H-L avg. difference: | 9 | 38 | 43 | 5 | 6 | 1 | 8 |
| ** Lsd (.05): | | 14 | 13 | 2 | 1 | 1 | 4 |
| # Min. TPG-value: | | 216 | 229 | 59 | | | 96 |
| ## Max. TPG-value: | | | | | 18 | 1 | |
| + Coef. of var.: | | 3 | 3 | 2 | 4 | | 2 |
| No. of entries: | 31 | 10 | 31 | 31 | 31 | 31 | 31 |

* Seeded May 6, 2005 at 28,750 seeds per acre.

** Lsd= the amount values in a column must differ to be significantly different.

If Lsd = NS then differences among values in a column are non-significant (NS).

Min. TPG-value= minimum value required for the top performance group.

Max. TPG-value= maximum value required for the top performance group.

+ Coef. of Variation = a measure of trial experimental error, 15% or less is best.

Table 5a. Early maturity Non-Roundup Ready™ corn hybrid test trial results. Richard Luebke Farm, Delmont, SD, 2004-2005.

| Brand/Hybrid (By 2-year then '05 yields) | Brand Rel. Mat. | Hybrid performance variable at harvest | | | | | |
|--|-----------------|--|----------------|----------------|-----------|---------------|-----------------|
| | | 2-year Yield bu/a | '05 Yield bu/a | '05 Bu. Wt. lb | '05 Grain | '05 Lodging % | '05 Pct.* Stand |
| TWO-YEAR ENTRIES: | | | | | | | |
| DEKALB/DKC52-45 (YGCB) | 102 | 134 | 132 | 57 | 15 | 1 | 94 |
| DEKALB/DKC54-51 (YGCB) | 104 | 128 | 124 | 59 | 15 | 3 | 98 |
| DAIRYLAND/STEALTH-5104 | 104 | 120 | 110 | 59 | 15 | 0 | 99 |
| KRUGER/9407YGCB | 105 | 109 | 101 | 59 | 15 | 5 | 99 |
| ONE-YEAR ENTRIES: | | | | | | | |
| EPLEY/E14H07HX | 100 | | 130 | 57 | 15 | 0 | 96 |
| DEKALB/DKC53-11 (YGCB) | 103 | | 126 | 62 | 15 | 7 | 99 |
| EPLEY/E1442 | 102 | | 124 | 59 | 15 | 0 | 95 |
| KRUGER/EXP0605B | 105 | | 121 | 59 | 16 | 1 | 99 |
| KRUGER/EXP0605A | 105 | | 118 | 56 | 14 | 0 | 98 |
| WENSMAN/W 5303BT | 99 | | 117 | 57 | 14 | 1 | 99 |
| DAIRYLAND/STEALTH-5201 | 101 | | 116 | 60 | 15 | 1 | 95 |
| EPLEY/E1430YGCB | 103 | | 114 | 59 | 15 | 0 | 99 |
| WENSMAN/W 5349BT | 101 | | 114 | 61 | 15 | 1 | 98 |
| KRUGER/EXP0603B | 103 | | 113 | 57 | 15 | 1 | 96 |
| KRUGER/EXP5405YGCB | 105 | | 109 | 58 | 15 | 1 | 98 |
| KRUGER/5505YGCB | 105 | | 104 | 58 | 15 | 1 | 98 |
| DAIRYLAND/STEALTH-5204 | 104 | | 103 | 59 | 15 | 0 | 97 |
| KRUGER/8602HX | 102 | | 101 | 57 | 15 | 0 | 99 |
| KRUGER/EXP0603A | 103 | | 100 | 58 | 15 | 3 | 96 |
| KRUGER/5504YGCB | 104 | | 97 | 59 | 15 | 0 | 99 |
| KRUGER/EXP8605HX | 105 | | 96 | 57 | 15 | 0 | 90 |
| Trial avg.: | 103 | 123 | 113 | 58 | 15 | 1 | 97 |
| Highest (H)-avg.: | 105 | 134 | 132 | 62 | 16 | 7 | 99 |
| Lowest (L)-avg.: | 99 | 109 | 96 | 56 | 14 | 0 | 90 |
| H-L avg. difference: | 6 | 25 | 36 | 6 | 2 | 7 | 9 |
| ** Lsd (.05): | | 18 | 21 | 2 | 0 | 3 | NS |
| # Min. TPG-value: | | 116 | 111 | 60 | | | 90 |
| ## Max. TPG-value: | | | | | 14 | 3 | |
| + Coef. of var.: | | 15 | 12 | 2 | 2 | | 3 |
| No. of entries: | 21 | 4 | 21 | 21 | 21 | 21 | 21 |

* Seeded May 4, 2005 at 28,750 seeds per acre.

** Lsd= the amount values in a column must differ to be significantly different.

If Lsd = NS then differences among values in a column are non-significant (NS).

Min. TPG-value= minimum value required for the top performance group.

Max. TPG-value= maximum value required for the top performance group.

+ Coef. of Variation = a measure of trial experimental error, 15% or less is best.

Table 5b. Late maturity Non-Roundup Ready™ corn hybrid test trial results. Richard Luebke Farm, Delmont, SD, 2004-2005.

| Brand/Hybrid (By 2-year then '05 yields) | Brand Rel. Mat. | Hybrid performance variable at harvest | | | | | |
|--|-----------------|--|----------------|----------------|--------------------|--------------|----------------|
| | | 2-year Yield bu/a | '05 Yield bu/a | '05 Bu. Wt. lb | '05 Grain Moist. % | 05 Lodging % | 05 Pct.* Stand |
| TWO-YEAR ENTRIES: | | | | | | | |
| WENSMAN/W 5437BT | 110 | 137 | 142 | 59 | 15 | 1 | 95 |
| WENSMAN/W 5417BT | 107 | 122 | 113 | 59 | 15 | 1 | 91 |
| EPLEY/E2490YGCB | 110 | 116 | 108 | 58 | 15 | 1 | 100 |
| KRUGER/9212YGCB | 112 | 113 | 106 | 59 | 15 | 1 | 98 |
| KRUGER/9111YGCB | 111 | 98 | 84 | 58 | 15 | 1 | 100 |
| ONE-YEAR ENTRIES: | | | | | | | |
| KRUGER/EXP0608A | 108 | | 128 | 60 | 15 | 0 | 99 |
| GOLD COUNTRY/110-07CB | 110 | | 124 | 59 | 15 | 0 | 94 |
| KRUGER/9310YGCB | 110 | | 122 | 59 | 15 | 1 | 100 |
| KRUGER/0508 | 108 | | 117 | 60 | 15 | 1 | 100 |
| KRUGER/5410YGCB | 110 | | 117 | 60 | 15 | 0 | 99 |
| KRUGER/9910YGCB | 108 | | 116 | 57 | 14 | 3 | 99 |
| KRUGER/8609HX | 109 | | 114 | 56 | 14 | 2 | 91 |
| DAIRYLAND/STEALTH-5007 | 107 | | 109 | 56 | 14 | 3 | 96 |
| KRUGER/EXP5606YGCB | 106 | | 108 | 58 | 15 | 2 | 99 |
| KRUGER/EXP8607HX | 107 | | 99 | 58 | 15 | 1 | 98 |
| KRUGER/EXP5608YGCB | 108 | | 99 | 61 | 16 | 3 | 100 |
| KRUGER/EXP0610 | 110 | | 98 | 60 | 15 | 1 | 97 |
| EPLEY/E3670YGCB | 116 | | 97 | 59 | 15 | 1 | 95 |
| KRUGER/EXP5609YGCB | 109 | | 96 | 56 | 15 | 1 | 99 |
| KRUGER/EXP5510YGCB | 110 | | 91 | 59 | 15 | 1 | 94 |
| Trial avg.: | 109 | 117 | 109 | 59 | 15 | 1 | 97 |
| Highest (H)-avg.: | 116 | 137 | 142 | 61 | 16 | 3 | 100 |
| Lowest (L)-avg.: | 106 | 98 | 84 | 56 | 14 | 0 | 91 |
| H-L avg. difference: | 10 | 39 | 58 | 5 | 2 | 3 | 9 |
| ** Lsd (.05): | | NS | 17 | 3 | 0 | NS | 4 |
| # Min. TPG-value: | | 98 | 125 | 58 | | | 96 |
| ## Max. TPG-value: | | | | | 14 | 3 | |
| + Coef. of var.: | | 15 | 10 | 3 | 2 | | 3 |
| No. of entries: | 20 | 5 | 20 | 20 | 20 | 20 | 20 |

* Seeded May 4, 2005 at 28,750 seeds per acre.

** Lsd= the amount values in a column must differ to be significantly different.

If Lsd = NS then differences among values in a column are non-significant (NS).

Min. TPG-value= minimum value required for the top performance group.

Max. TPG-value= maximum value required for the top performance group.

+ Coef. of Variation = a measure of trial experimental error, 15% or less is best.

Table 5c. Early maturity Roundup Ready™ corn hybrid test trial results. Richard Luebke Farm, Delmont, SD, 2004-2005.

| Brand/Hybrid (By 2-year then '05 yields) | Brand Rel. Mat. | Test trial variable at harvest | | | | | |
|--|-----------------------|--------------------------------|-------------------|-------------------|-----------------------|------------------|--------------------|
| | | 2-year Yield bu/a | '05 Yield bu/a | '05 Bu. Wt. lb | '05 Grain Moist. % | '05 Lodging % | '05 Pct.* Stand |
| TWO-YEAR ENTRIES: | | | | | | | |
| DEKALB/DKC48-52 (RR2) | 98 | 123 | 119 | 59 | 14 | 1 | 95 |
| DEKALB/DKC50-20RR2YGCB | 100 | 122 | 126 | 59 | 15 | 1 | 98 |
| EPLEY/E1475RR | 103 | 120 | 119 | 61 | 15 | 0 | 96 |
| CHANNEL/7135RB | 102 | 118 | 113 | 59 | 14 | 1 | 98 |
| EPLEY/E1465RR | 103 | 117 | 118 | 61 | 15 | 2 | 91 |
| KALTENBERG/K5717RRBT | 105 | 117 | 113 | 59 | 15 | 1 | 95 |
| WENSMAN/W 6315BTRR | 101 | 115 | 120 | 58 | 14 | 1 | 99 |
| KRUGER/9203RR/YGCB | 103 | 114 | 126 | 57 | 14 | 1 | 96 |
| HEINE/H723RR/YGCB | 100 | 111 | 99 | 59 | 15 | 0 | 95 |
| HEINE/H750RR/YGCB | 105 | 109 | 103 | 60 | 15 | 0 | 100 |
| HEINE/H728RR/YGCB | 100 | 101 | 104 | 61 | 16 | 0 | 97 |
| ONE-YEAR ENTRIES: | | | | | | | |
| KRUGER/3503TS | 103 | | 132 | 62 | 15 | 0 | 98 |
| DEKALB/DKC52-47RR2YGCB | 102 | | 130 | 59 | 15 | 0 | 99 |
| NUTECH/NT-5507+RR/YGCB | 105 | | 119 | 59 | 15 | 0 | 99 |
| KRUGER/1500RR | 100 | | 119 | 60 | 15 | 3 | 96 |
| EPLEY/E1165RR | 95 | | 119 | 59 | 15 | 0 | 95 |
| HEINE/H724RR/YGCB | 100 | | 118 | 59 | 15 | 2 | 100 |
| NUTECH/NT-5507 RR/YGCB | 105 | | 116 | 59 | 16 | 0 | 98 |
| EPLEY/E15R45YGCB | 103 | | 115 | 62 | 15 | 1 | 94 |
| EPLEY/E12R45YGCB | 102 | | 113 | 58 | 14 | 0 | 97 |
| KRUGER/4501RR/YGRW | 100 | | 111 | 62 | 15 | 1 | 94 |
| KRUGER/EXP2605RR/YGCB | 105 | | 111 | 60 | 15 | 1 | 95 |
| CHANNEL/EXP X51021RB | 102 | | 109 | 59 | 15 | 0 | 95 |
| NUTECH/NT-3505 RR | 105 | | 104 | 61 | 16 | 2 | 97 |
| WENSMAN/W 6318BTRR | 103 | | 104 | 59 | 15 | 1 | 96 |
| HEINE/H746RR | 104 | | 104 | 60 | 15 | 1 | 90 |
| HEINE/H710RR | 100 | | 103 | 60 | 15 | 0 | 99 |
| DEKALB/DKC55-82 (RR2) | 105 | | 102 | 60 | 15 | 0 | 99 |
| NUTECH/NT-3408 RR | 105 | | 94 | 60 | 15 | 0 | 95 |
| INTEGRA/INT 6603RRYG | 103 | | 93 | 60 | 15 | 0 | 100 |
| INTEGRA/INT 6506RRYG | 105 | | 88 | 61 | 16 | 0 | 94 |
| NUTECH/NT-5303 RR/YGCB | 103 | | 87 | 62 | 17 | 0 | 95 |
| GOLD COUNTRY/103-02CBR | 103 | | 85 | 61 | 16 | 1 | 94 |
| EPLEY/E1445RR | 100 | | 74 | 60 | 16 | 1 | 96 |
| Trial avg.: | 102 | 115 | 109 | 60 | 15 | 1 | 96 |
| Highest (H)-avg.: | 105 | 123 | 132 | 62 | 17 | 3 | 100 |
| Lowest (L)-avg.: | 95 | 101 | 74 | 57 | 14 | 0 | 90 |
| H-L avg. difference: | 10 | 22 | 58 | 5 | 3 | 3 | 10 |
| ** Lsd (.05): | | NS | 19 | 2 | 1 | NS | 4 |
| # Min. TPG-value: | | 101 | 113 | 60 | | | 96 |
| ## Max. TPG-value: | | | | | 15 | 3 | |
| + Coef. of var.: | | 12 | 11 | 2 | 3 | | 3 |
| No. of entries: | 34 | 11 | 34 | 34 | 34 | 34 | 34 |

* Seeded May 4, 2005 at 28,750 seeds per acre.

** Lsd= the amount values in a column must differ to be significantly different.

If Lsd = NS then differences among values in a column are non-significant (NS).

Min. TPG-value= minimum value required for the top performance group.

Max. TPG-value= maximum value required for the top performance group.

+ Coef. of Variation = a measure of trial experimental error, 15% or less is best.

Table 5d. Late maturity Roundup Ready™ corn hybrid test trial results. Richard Luebke Farm, Delmont, SD, 2004-2005.

| Brand/Hybrid (By 2-year then '05 yields) | Brand Rel. Mat. | Test trial variable at harvest | | | | | |
|--|-----------------|--------------------------------|----------------|----------------|--------------------|--------------|----------------|
| | | 2-year Yield bu/a | '05 Yield bu/a | '05 Bu. Wt. lb | '05 Grain Moist. % | 05 Lodging % | 05 Pct.* Stand |
| TWO-YEAR ENTRIES: | | | | | | | |
| DEKALB/DKC58-80RR2YGCB | 108 | 119 | 104 | 57 | 14 | 1 | 92 |
| WENSMAN/W 6422BTRR | 107 | 119 | 104 | 58 | 15 | 0 | 94 |
| DAIRYLAND/STEALTH-1606 | 107 | 119 | 91 | 58 | 15 | 1 | 98 |
| KRUGER/9115RR/YGCB | 115 | 113 | 93 | 61 | 15 | 1 | 93 |
| KRUGER/9308RR/YGCB | 111 | 109 | 103 | 56 | 14 | 3 | 95 |
| KRUGER/9212RR/YGCB | 112 | 97 | 66 | 59 | 15 | 0 | 95 |
| ONE-YEAR ENTRIES: | | | | | | | |
| DEKALB/DKC61-72 (RR2) | 111 | | 111 | 60 | 15 | 3 | 92 |
| EPLEY/E14R95YGCB | 106 | | 109 | 59 | 15 | 1 | 88 |
| KRUGER/9313RR/YGCB | 113 | | 106 | 57 | 15 | 2 | 95 |
| KRUGER/2410RR/YGCB | 110 | | 104 | 60 | 15 | 1 | 96 |
| GOLD COUNTRY/105-04CBR | 106 | | 103 | 60 | 15 | 1 | 99 |
| EPLEY/E24R90YGCB | 110 | | 102 | 58 | 15 | 1 | 100 |
| CHANNEL/7R432 | 110 | | 101 | 61 | 15 | 1 | 94 |
| INTEGRA/INT 6609RRYG | 108 | | 101 | 59 | 15 | 2 | 99 |
| KRUGER/2506RR/YGCB | 106 | | 94 | 61 | 15 | 0 | 96 |
| CHANNEL/EXP X51101RB | 110 | | 91 | 59 | 15 | 0 | 100 |
| EPLEY/E36R65YGCB | 115 | | 62 | 57 | 17 | 1 | 93 |
| Trial avg.: | 110 | 113 | 97 | 59 | 15 | 1 | 95 |
| Highest (H)-avg.: | 115 | 119 | 111 | 61 | 17 | 3 | 100 |
| Lowest (L)-avg.: | 106 | 97 | 62 | 56 | 14 | 0 | 88 |
| H-L avg. difference: | 9 | 22 | 49 | 5 | 3 | 3 | 12 |
| ** Lsd (.05): | | NS | 28 | 2 | 1 | NS | 7 |
| # Min. TPG-value: | | 97 | 83 | 59 | | | 93 |
| ## Max. TPG-value: | | | | | 15 | 3 | |
| + Coef. of var.: | | 19 | 17 | 2 | 4 | | 4 |
| No. of entries: | 17 | 6 | 17 | 17 | 17 | 17 | 17 |

* Seeded May 4, 2005 at 28,750 seeds per acre.

** Lsd= the amount values in a column must differ to be significantly different.

If Lsd = NS then differences among values in a column are non-significant (NS).

Min. TPG-value= minimum value required for the top performance group.

Max. TPG-value= maximum value required for the top performance group.

+ Coef. of Variation = a measure of trial experimental error, 15% or less is best.

Table 6a. Early maturity Non-Roundup Ready™ corn hybrid test trial results. SE Research Farm, Beresford, SD, 2004-2005.

| Brand/Hybrid (By 2-year then '05 yields) | Brand Rel. Mat. | Hybrid performance variable at harvest | | | | | |
|--|-----------------|--|----------------|----------------|--------------------|--------------|----------------|
| | | 2-year Yield bu/a | '05 Yield bu/a | '05 Bu. Wt. lb | '05 Grain Moist. % | 05 Lodging % | 05 Pct.* Stand |
| TWO-YEAR ENTRIES: | | | | | | | |
| GOLD COUNTRY/110-07CB | 110 | 236 | 213 | 57 | 16 | 1 | 93 |
| HEINE/H820YGCB | 109 | 228 | 205 | 58 | 16 | 1 | 98 |
| WENSMAN/W 5437BT | 110 | 224 | 205 | 56 | 15 | 0 | 93 |
| HEINE/H728YGCB | 103 | 220 | 204 | 58 | 15 | 0 | 99 |
| WENSMAN/W 5417BT | 107 | 215 | 197 | 58 | 15 | 0 | 98 |
| DEKALB/DKC54-51 (YGCB) | 104 | 213 | 196 | 59 | 15 | 3 | 97 |
| ONE-YEAR ENTRIES: | | | | | | | |
| HEINE/H818YGCB | 109 | | 222 | 59 | 15 | 1 | 94 |
| KRUGER/EXP0608A | 108 | | 220 | 59 | 16 | 1 | 99 |
| KRUGER/EXP0610 | 110 | | 215 | 58 | 15 | 5 | 100 |
| DEKALB/DKC53-11 (YGCB) | 103 | | 214 | 59 | 16 | 1 | 99 |
| KRUGER/9310YGCB | 110 | | 209 | 57 | 15 | 1 | 97 |
| KRUGER/9910YGCB | 108 | | 205 | 57 | 15 | 0 | 100 |
| KRUGER/8609HX | 109 | | 202 | 58 | 16 | 0 | 97 |
| KRUGER/EXP5609YGCB | 109 | | 202 | 59 | 16 | 1 | 98 |
| KRUGER/EXP5608YGCB | 108 | | 201 | 59 | 16 | 1 | 99 |
| DAIRYLAND/STEALTH-5007 | 107 | | 200 | 56 | 15 | 1 | 100 |
| KRUGER/9407YGCB | 105 | | 200 | 60 | 15 | 2 | 99 |
| KRUGER/5410YGCB | 110 | | 200 | 59 | 15 | 0 | 98 |
| HEINE/H750YGCB | 105 | | 200 | 58 | 15 | 1 | 99 |
| KRUGER/EXP5510YGCB | 110 | | 197 | 58 | 16 | 1 | 100 |
| KRUGER/0508 | 108 | | 193 | 58 | 15 | 0 | 99 |
| Trial avg.: | 108 | 223 | 205 | 58 | 15 | 1 | 98 |
| Highest (H)-avg.: | 110 | 236 | 222 | 60 | 16 | 5 | 100 |
| Lowest (L)-avg.: | 103 | 213 | 193 | 56 | 15 | 0 | 93 |
| H-L avg. difference: | 7 | 23 | 29 | 4 | 1 | 5 | 7 |
| ** Lsd (.05): | | 12 | 19 | 2 | NS | 2 | 4 |
| # Min. TPG-value: | | 224 | 203 | 58 | | | 96 |
| ## Max. TPG-value: | | | | | 16 | 2 | |
| + Coef. of var.: | | 5 | 6 | 2 | 2 | | 2 |
| No. of entries: | 21 | 6 | 21 | 21 | 21 | 21 | 21 |

* Seeded May 3, 2005 at 28,750 seeds per acre.

** Lsd= the amount values in a column must differ to be significantly different.

If Lsd = NS then differences among values in a column are non-significant (NS).

Min. TPG-value= minimum value required for the top performance group.

Max. TPG-value= maximum value required for the top performance group.

+ Coef. of Variation = a measure of trial experimental error, 15% or less is best.

Table 6b. Late maturity Non-Roundup Ready™ corn hybrid test trial results. SE Research Farm, Beresford, SD, 2004-2005.

| Brand/Hybrid (By 2-year then '05 yields) | Brand Rel. Mat. | Hybrid performance variable at harvest | | | | | |
|--|-----------------|--|----------------|----------------|--------------------|---------------|-----------------|
| | | 2-year Yield bu/a | '05 Yield bu/a | '05 Bu. Wt. lb | '05 Grain Moist. % | '05 Lodging % | '05 Pct.* Stand |
| TWO-YEAR ENTRIES: | | | | | | | |
| HEINE/H8600YGCB | 112 | 230 | 198 | 60 | 16 | 2 | 99 |
| KRUGER/9115YGCB | 115 | 228 | 201 | 60 | 16 | 0 | 100 |
| KRUGER/9111YGCB | 111 | 222 | 200 | 57 | 15 | 0 | 99 |
| KAYSTAR/KX-8615BT | 112 | 222 | 196 | 58 | 16 | 1 | 98 |
| DAIRYLAND/STEALTH-5611 | 112 | 219 | 183 | 59 | 15 | 1 | 96 |
| KRUGER/9212YGCB | 112 | 219 | 181 | 58 | 15 | 0 | 98 |
| KRUGER/5416YGCB | 115 | 216 | 195 | 59 | 16 | 1 | 97 |
| KRUGER/5514YGCB | 114 | 212 | 189 | 58 | 16 | 1 | 98 |
| ONE-YEAR ENTRIES: | | | | | | | |
| KRUGER/EXP8616HX | 116 | | 213 | 59 | 17 | 0 | 97 |
| DEKALB/DKC62-31 (YGCB) | 112 | | 207 | 60 | 18 | 0 | 99 |
| KRUGER/EXP0614B | 114 | | 201 | 60 | 17 | 0 | 97 |
| DEKALB/DKC64-81 (YGCB) | 114 | | 195 | 59 | 16 | 2 | 97 |
| KRUGER/EXP5613YGCB | 113 | | 194 | 58 | 17 | 0 | 100 |
| DAIRYLAND/STEALTH-5010 | 112 | | 192 | 61 | 16 | 0 | 100 |
| KRUGER/9313YGCB | 113 | | 191 | 58 | 15 | 1 | 100 |
| KRUGER/8414HX | 114 | | 191 | 59 | 16 | 0 | 98 |
| KRUGER/EXP8614HX | 114 | | 191 | 59 | 17 | 0 | 95 |
| HEINE/H851YGCB | 112 | | 188 | 59 | 16 | 0 | 98 |
| KRUGER/EXP0614A | 114 | | 186 | 59 | 16 | 0 | 100 |
| KRUGER/EXP0617A | 116 | | 186 | 60 | 16 | 1 | 93 |
| KRUGER/5517YGCB | 116 | | 179 | 57 | 17 | 6 | 98 |
| KRUGER/5415YGCB | 114 | | 161 | 58 | 17 | 2 | 93 |
| Trial avg.: | 114 | 221 | 192 | 59 | 16 | 1 | 98 |
| Highest (H)-avg.: | 116 | 230 | 213 | 61 | 18 | 6 | 100 |
| Lowest (L)-avg.: | 111 | 212 | 161 | 57 | 15 | 0 | 93 |
| H-L avg. difference: | 5 | 18 | 52 | 4 | 2 | 6 | 7 |
| ** Lsd (.05): | | NS | 20 | 2 | 1 | 2 | NS |
| # Min. TPG-value: | | 212 | 193 | 59 | | | 93 |
| ## Max. TPG-value: | | | | | 16 | 2 | |
| + Coef. of var.: | | 5 | 6 | 2 | 4 | | 3 |
| No. of entries: | 22 | 8 | 22 | 22 | 22 | 22 | 22 |

* Seeded May 3, 2005 at 28,750 seeds per acre.

** Lsd= the amount values in a column must differ to be significantly different.

If Lsd = NS then differences among values in a column are non-significant (NS).

Min. TPG-value= minimum value required for the top performance group.

Max. TPG-value= maximum value required for the top performance group.

+ Coef. of Variation = a measure of trial experimental error, 15% or less is best.

Table 6c. Early maturity Roundup Ready™ corn hybrid test trial results. SE Research Farm, Beresford, SD, 2004-2005.

| Brand/Hybrid (By 2-year then '05 yields) | Brand Rel. Mat. | Test trial variable at harvest | | | | | |
|--|-----------------|--------------------------------|----------------|----------------|--------------------|---------------|-----------------|
| | | 2-year Yield bu/a | '05 Yield bu/a | '05 Bu. Wt. lb | '05 Grain Moist. % | '05 Lodging % | '05 Pct.* Stand |
| TWO-YEAR ENTRIES: | | | | | | | |
| DEKALB/DKC60-19RR2YGCB | 110 | 223 | 203 | 60 | 16 | 0 | 94 |
| HEINE/H750RR/YGCB | 105 | 218 | 198 | 59 | 16 | 1 | 99 |
| DAIRYLAND/STEALTH-1606 | 107 | 216 | 192 | 58 | 15 | 1 | 99 |
| WENSMAN/W 6422BTRR | 107 | 210 | 193 | 59 | 16 | 0 | 96 |
| DEKALB/DKC58-80RR2YGCB | 108 | 208 | 191 | 58 | 15 | 0 | 96 |
| HEINE/H728RR/YGCB | 100 | 200 | 191 | 60 | 17 | 1 | 94 |
| ONE-YEAR ENTRIES: | | | | | | | |
| DEKALB/DKC52-47RR2YGCB | 102 | | 209 | 58 | 15 | 1 | 97 |
| NUTECH/NT-5507 RR/YGCB | 105 | | 203 | 59 | 16 | 0 | 99 |
| HEINE/H748RR/YGCB | 105 | | 198 | 60 | 15 | 0 | 98 |
| DEKALB/DKC55-82 (RR2) | 105 | | 196 | 60 | 16 | 0 | 95 |
| NUTECH/NT-3505 RR | 105 | | 194 | 60 | 16 | 0 | 99 |
| INTEGRA/INT 6609RRYG | 108 | | 193 | 59 | 15 | 3 | 96 |
| KRUGER/2410RR/YGCB | 110 | | 192 | 60 | 16 | 0 | 98 |
| WENSMAN/W 6315BTRR | 101 | | 191 | 58 | 15 | 1 | 93 |
| KRUGER/2506RR/YGCB | 106 | | 190 | 60 | 16 | 0 | 100 |
| KALTENBERG/K5717RRBT | 105 | | 189 | 58 | 15 | 0 | 96 |
| CHANNEL/EXP X51101RB | 110 | | 188 | 59 | 15 | 2 | 98 |
| CHANNEL/7R432 | 110 | | 188 | 60 | 16 | 0 | 97 |
| KALTENBERG/K6744RRBT | 108 | | 187 | 58 | 15 | 0 | 94 |
| KRUGER/EXP2605RR/YGCB | 105 | | 187 | 59 | 16 | 1 | 97 |
| NUTECH/NT-5212 RR/YGCB | 110 | | 182 | 59 | 15 | 0 | 96 |
| WENSMAN/W 6318BTRR | 103 | | 182 | 59 | 15 | 1 | 95 |
| HEINE/H820RR/YGCB | 109 | | 176 | 58 | 15 | 1 | 96 |
| NUTECH/NT-5212+RR/YGCB | 110 | | 159 | 58 | 15 | 1 | 96 |
| Trial avg.: | 106 | 213 | 191 | 59 | 16 | 1 | 97 |
| Highest (H)-avg.: | 110 | 223 | 209 | 60 | 17 | 3 | 100 |
| Lowest (L)-avg.: | 100 | 200 | 159 | 58 | 15 | 0 | 93 |
| H-L avg. difference: | 10 | 23 | 50 | 3 | 2 | 3 | 7 |
| ** Lsd (.05): | | NS | 16 | 2 | 1 | 1 | NS |
| # Min. TPG-value: | | 200 | 193 | 58 | | | 93 |
| ## Max. TPG-value: | | | | | 16 | 1 | |
| + Coef. of var.: | | 4 | 5 | 2 | 3 | | 3 |
| No. of entries: | 24 | 6 | 24 | 24 | 24 | 24 | 24 |

* Seeded May 3, 2005 at 28,750 seeds per acre.

** Lsd= the amount values in a column must differ to be significantly different.

If Lsd = NS then differences among values in a column are non-significant (NS).

Min. TPG-value= minimum value required for the top performance group.

Max. TPG-value= maximum value required for the top performance group.

+ Coef. of Variation = a measure of trial experimental error, 15% or less is best.

Table 6d. Late maturity Roundup Ready™ corn hybrid test trial results. SE Research Farm, Beresford, SD, 2004-2005.

| Brand/Hybrid (By 2-year then '05 yields) | Brand Rel. Mat. | Test trial variable at harvest | | | | | |
|--|-----------------|--------------------------------|----------------|----------------|--------------------|---------------|-----------------|
| | | 2-year Yield bu/a | '05 Yield bu/a | '05 Bu. Wt. lb | '05 Grain Moist. % | '05 Lodging % | '05 Pct.* Stand |
| TWO-YEAR ENTRIES: | | | | | | | |
| DEKALB/DKC63-81RR2YGCB | 113 | 231 | 227 | 61 | 18 | 0 | 98 |
| HEINE/H851RR/YGCB | 113 | 230 | 215 | 60 | 17 | 0 | 98 |
| KRUGER/9115RR/YGCB | 115 | 222 | 211 | 60 | 16 | 0 | 96 |
| HEINE/H8600RR/YGCB | 112 | 212 | 193 | 59 | 16 | 1 | 93 |
| KRUGER/9212RR/YGCB | 112 | 210 | 181 | 59 | 15 | 1 | 97 |
| KRUGER/9308RR/YGCB | 111 | 196 | 191 | 59 | 15 | 0 | 99 |
| ONE-YEAR ENTRIES: | | | | | | | |
| ASGROW/RX715RR2YGCB | 111 | | 236 | 61 | 19 | 1 | 93 |
| DEKALB/DKC61-72 (RR2) | 111 | | 216 | 60 | 15 | 0 | 97 |
| KRUGER/2517RR/YGCB | 116 | | 183 | 60 | 17 | 2 | 95 |
| KRUGER/9313RR/YGCB | 113 | | 172 | 59 | 16 | 0 | 94 |
| Trial avg.: | 113 | 217 | 203 | 60 | 16 | 1 | 96 |
| Highest (H)-avg.: | 116 | 231 | 236 | 61 | 19 | 2 | 99 |
| Lowest (L)-avg.: | 111 | 196 | 172 | 59 | 15 | 0 | 93 |
| H-L avg. difference: | 5 | 35 | 64 | 2 | 4 | 2 | 6 |
| ** Lsd (.05): | | NS | 20 | 1 | 1 | NS | NS |
| # Min. TPG-value: | | 196 | 216 | 60 | | | 93 |
| ## Max. TPG-value: | | | | | 16 | 2 | |
| + Coef. of var.: | | 6 | 6 | 1 | 4 | | 2 |
| No. of entries: | 10 | 6 | 10 | 10 | 10 | 10 | 10 |

* Seeded May 3, 2005 at 28,750 seeds per acre.

** Lsd= the amount values in a column must differ to be significantly different.

If Lsd = NS then differences among values in a column are non-significant (NS).

Min. TPG-value= minimum value required for the top performance group.

Max. TPG-value= maximum value required for the top performance group.

+ Coef. of Variation = a measure of trial experimental error, 15% or less is best.

