

2005 Precision Planted Performance Trials

CORN



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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
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
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
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
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
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 6117BTRR	1c,2c,3c,4c
NUTECH/NT-3696 RR	1c,2c,3c,4c	WENSMAN/W 6194BTRR	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 6266BTRR	1d,2d,3c,4c
NUTECH/NT-3999+RR	1d,2d,3c,4c	WENSMAN/W 6315BTRR	1d,2d,3d,4d,5c,6c
NUTECH/NT-5005 RR/YGCB	3d,4d	WENSMAN/W 6318BTRR	3d,4d,5c,6c
NUTECH/NT-5101 RR/YGCB	1d,2d,3d,4d	WENSMAN/W 6422BTRR	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 Lodging %	'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 6117BTTR	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 6194BTTR	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 Lod-ging %	'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
EPLLEY/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
EPLLEY/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.

