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2006 Precision Planted Performance Trials: Corn

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2006 Precision Planted Performance Trials

CORN



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

The crop performance trials are available at <http://plantsci.sdstate.edu/varietytrials/vartrial.html>

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C253—Precision Planted Corn 2006 Crop Performance Results

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2006 Precision Planted Corn Performance Trials

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Performance of entries in the 2006 South Dakota corn hybrid performance trials for both non-Roundup-Ready and Roundup-Ready™ hybrids is reported. Information includes both the most recent 2-year and 1-year grain yields in bushels per acre 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, soil fertility yield goals, and seeding dates are in Table A.

The participation and efforts of our cooperators—Allen and Inel Ryckman at Warner, James Smolik and Al Heuer at South Shore (Northeast Research Farm), Erland Weerts at Bancroft, Todd Bortnem at Brookings (SDSU Plant Science Research Farm), Curtis Sybesma at Geddes, and Robert Berg and staff at Beresford (Southeast Experiment Station)—are gratefully acknowledged.

Weather Conditions

Weather data (Table B) for the growing season were obtained from the South Dakota Office of Climate and Weather.

Average daily temperatures across test locations were average to above average from April to September. In both July and August, daily averages varied greatly across locations. In July the daily average temperature ranged from 3.3°F above normal at South Shore and Centerville to 6.6°F above normal at Huron. Likewise, in August, daily average temperature varied from nearly normal (0.4°F) at Brookings to a high of 13.0°F above normal at Huron.

Heat unit totals across test locations varied from a high of 3,030 GDD at Centerville to a low of 2,557 GDD at Brookings. In August and September, the GDD accumulations at all sites were about 9 to 10% higher than average.

Precipitation varied greatly across test locations. Monthly precipitation from April through September was below average in at least one month at all locations. Monthly averages were particularly low for Aberdeen and South Shore. Both locations were 2 to 3 inches below average in precipitation in June and July with little rainfall in August. The Geddes area (Platte) received above normal precipitation in May and June, but was 2.7 inches below

normal for July and near normal for August. Other locations were somewhat below average in precipitation in June and/or July but received higher than normal rainfall in August (Iroquois and Brookings) or likely had adequate levels of subsoil moisture to sustain growth during limited rainfall (Centerville).

In summary, seasonal moisture, average daily temperatures, and heat units varied across test locations. In many cases July and August temperatures were above normal, resulting in GDD seasonal accumulations that were about 9 to 10% above average. All sites experienced below average rainfall during at least one month; the lack of rainfall at Aberdeen and South Shore was more severe than at the other locations.

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 Geddes; 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 content 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 2006 is presented in Table E.

Experimental Procedures

Entries were seeded in three replications with each hybrid randomly located within each trial. Plots consisted of four 30-inch rows that were 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 2006, this precision planter was calibrated and delivered 27,878 seeds per acre, regardless of seed quality and

germination percentage. No seeding rate adjustment was made for low germination. Therefore, 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 is 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 in-furrow at label rates for corn rootworm control this year. The weed control herbicides applied at recommended label rates are indicated in Table A for both the non-Roundup Ready™ and the Roundup Ready™ hybrid corn trials.

Measurements of Performance

Yields are obtained from the South Dakota Crop Performance Testing Program (CPT). Current-year yields are included for each entry tested at a given location. In addition, 2-year averages are included where hybrids have been tested for 2 years. Yields, test averages, and least significant difference (Lsd) values are printed at the bottom of each yield column for each location and are rounded off to the nearest bushel.

Use Lsd values to identify the best-yielding hybrids. The Lsd value indicated at the bottom of each yield column is used to calculate the minimum top yield value. For example, if the highest yield within a column is 130 bu and the Lsd value for that yield column is 15 bu, then the minimum top yield value equals 115 bu (130-15 = 115). Within a yield column, hybrids with yields equal to or higher than this minimum top-yield value are the best yielding hybrids.

Entries in all tables are sorted from highest to lowest values according to the variable(s) listed in the Brand/Hybrid column of each performance table. Note: Entries tested for 2 years may also have a top yield group value in the 2006 yield column.

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 hybrid differences. In 2006, the coefficient of variation (CV) values (a measure of experimental error) for yield was quite variable across the state. At Warner, South Shore, and Geddes the CV values was quite high in both the Non-Roundup Ready™ and Roundup Ready™ test trials. At these locations, the yield CV values varied from a low of 22% at Geddes to a high of 76% at Warner.

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 20%. In cases where the CV value exceeds 20% it is recommended that the test data be used with caution in making hybrid selection decisions. In 2006, the exceptionally high CV values at Warner, South Shore, and Geddes indicate there is way too much error associated with the test trial to make any determination of which hybrids should be in the top performance group for yield. In addition, it is impossible to determine if any two hybrids that are relatively close in yield are actually similar or different in yield potential.

Experimental error may be the result of several factors including test methods; factors such as moisture, temperature, soil variations; or agronomic factors like seeding date, reseeding, or seed quality factors. All may or may not be controllable in a given year.

Clearly, this year, seasonal moisture distribution and/or sub-soil moisture conditions along with elevated high temperatures were the two factors that affected the yielding potential of corn hybrids under test.

The sites with high levels of experimental error (Warner, South Shore, and Geddes) had many plots that showed a lack of pollination and/or ear development. In many plots, a lack of pollination resulted in no ear at all. In a few cases, an ear started to develop but quit, and only a “nubbin” was formed.

Within a hybrid entry, not all plots showed a lack of pollination. For a few hybrids, all plots appeared normal. For other hybrids, one or more plots showed a lack of pollination. Within the performance tables for Warner, South Shore, and Geddes; hybrids with high averages pollinated normally, while plots with the lower yield averages experienced moderate to severe problems with pollination and/or ear development. As indicated in Table B, these sites were exposed to above normal temperatures in July. Air temperatures of 95°F or higher can have a profound and negative effect on corn pollination.

All test locations likely were exposed to some degree of moisture stress this year (see Weather conditions). In most cases where high CV values were evident, it is difficult to say how high temperatures and a lack of moisture may have affected pollination and/or ear development. It is important to note that even though high temperatures and moisture stress can work together to affect pollination, high temperatures alone, without the influence of moisture stress, can severely affect pollination and reduce yields.

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 were 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 performance group (TPG) for current year and 2-year yields, bushel weight, grain moisture at harvest, and stalk lodging below the ear percentage for each test trial.

To determine which hybrids are in the TPG for yield, use the Lsd value indicated at the bottom of each yield column in any

yield table. For example, say the column Lsd value equals 15 (bu/a) and the highest yield for that column equals 155 bu/a. Subtract the column Lsd value from the highest yield ($155 - 15 = 140$) to obtain the minimum value for the TPG for yield or 140 bu/a. Technically, a yield value of 141 bu/a should be included in the TPG while a value of 140 bu/a should not. However, because all yields and Lsd values are rounded to the nearest whole number, we can say 140 bu/a, because of the rounding-off, is the more appropriate minimum value for the TPG for yield. These minimum TPG values for yield are indicated at the bottom of each yield column unless too much experimental error (high CV values) is associated with the test.

Top yield hybrids are those hybrids that are equal or higher than the minimum TPG value (shaded) reported at the bottom of each yield column. If hybrid yield differences are not significant (NS) and the CV values are 20% or less, then, by definition, all hybrids in the test are in the top-yield group. In contrast, if the column CV value is greater than 20%, then no minimum TPG value is indicated because there is too much experimental error associated with the test to make a valid determination of the TPG for yield.

Likewise, the TPG 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) can be determined.

For example, at any location and test trial, in order to qualify for the TPG, a hybrid must have a bushel weight value and a percent of stand value that is equal to or greater than the minimum reported TPG value for that bushel weight or percent of stand. Likewise, to qualify for the TYG a hybrid must have a grain moisture value and a lodging value that is equal to or less than the maximum reported TPG value for that grain moisture or lodging

percentage.

Note that yield, bushel weight, and percent stand TPG 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 a certain percentage to qualify for the TPG. Again, as with hybrid yields, if there are no hybrid differences for a performance factor, then, by definition, all hybrids in the test are in the TPG for that performance factor.

In addition, the Lsd values for the TPG can be used to determine if two hybrids differ in performance. For example, if a test trial Lsd value equals 16 bu/a and hybrid A yields 132 bu/a while hybrid B yields 118 bu/a, then their yield difference is 14 bu/a ($132 - 118 = 14$). In this case the two hybrids do not differ in yield because their yield difference of 14 bu/ac is equal to or less than the reported Lsd value of 16 bu/a. In contrast, if hybrid C yields 114 bu/a, the yield difference between hybrids A and C is 18 bu/a ($132 - 114 = 18$). In this case the yield difference of 18 bu/a is higher than the reported Lsd value of 16 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. For example, if a test trial grain moisture Lsd value equals 2%, and hybrid A measures 18% and hybrid B measures 16%, their yield difference is 2% ($18 - 16 = 2$). In this case the two hybrids do not differ in grain moisture because their moisture difference of 2% is equal to or less than the reported Lsd value of 2%. In contrast, if hybrid C measures 15%, the grain moisture difference between hybrids A and C is 3% ($18 - 15 = 3$). In this case the grain difference of 3% is more than the reported Lsd value of 2%; therefore, hybrid A is significantly higher in grain moisture than hybrid C.

PERFORMANCE TRIAL RESULTS BY LOCATIONS

The performance trial results for 2 years (2005–06) and one year (2006) are summarized below:

Northern Locations

Note: At both of these northern locations the CV values for yield were higher than 20%; this means we believe the experimental error at both Warner and South Shore are too high to be considered as valid or acceptable for South Dakota conditions.

The high levels of experimental error at these two locations are thought to be the result of uneven seasonal moisture distribution and/or high temperatures during pollination (see discussion in Weather conditions).

Warner

Early, Non-Roundup Ready™, Table 1a. The test trial yield average was 44 bu/a in 2006 and 121 bu/a for 2 years. Hybrids that yielded 108 bu/a over 2 years qualified for the top yield group. Hybrid differences had to exceed 26 bu/a to significantly differ from one another over the 2-year period. The high level of experimental error (CV =44%) prevented the valid determination of the top performance group for yield and the determination of hybrid yield differences among entries in 2006.

In 2006, bushel weights averaged 59 lb, grain moisture averaged 17%, lodging averaged nearly 0%, and the final percent stand averaged 99%. For a hybrid to be in the top performance group for these factors it had to equal 57 lb or more in bushel weight, 17% or less in grain moisture, 2% or less in stalk lodging, and 98% or more for percent stand.

Late, Non-Roundup Ready™, Table 1b. The test trial yield average was 56 bu/a in 2006 and 129 bu/a for 2 years. There was no significant difference in yield average among entries tested for 2 years, so all three entries qualified for the top yield group. The high level of experimental error (CV =30%) prevented the valid determination of the top performance group for yield and the determination of hybrid yield differences among the entries tested in 2006.

In 2006, bushel weights averaged 56 lb, grain moisture averaged 21%, lodging averaged 1%, and the final percent stand averaged 99%. For a hybrid to be in the top performance group for these factors it had to equal 57 lb or more in bushel weight, 18% or less in grain moisture, 2% or less in stalk lodging, and 99% or more for percent stand.

Early, Roundup Ready™, Table 1c. The test trial yield average was 71 bu/a in 2006 and 134 bu/a for 2 years. In both 2006 and for the 2-year period there were high levels of experimental error. CV values of 76 and 29%, respectively, prevented the valid determination of the top performance group for yield and the determination of hybrid yield differences.

In 2006, bushel weights averaged 58 lb, grain moisture averaged 16%, lodging averaged 1%, and the final percent stand averaged 99%. For a hybrid to be in the top performance group for these factors it had to equal 58 lb or more in bushel weight, 16% or less in grain moisture, 3% or less in stalk lodging, and 98% or more for percent stand.

Late, Roundup Ready™, Table 1d. The test trial yield average was 48 bu/a in 2006 and 122 bu/a for 2 years. There was no significant difference in yield average among the hybrids tested for

2 years, so all nine entries qualified for the top yield group. The high level of experimental error (CV =35%) prevented the valid determination of the top performance group for yield and the determination of hybrid yield differences among the entries tested in 2006.

In 2006, bushel weights averaged 57 lb, grain moisture averaged 18%, lodging averaged 1%, and the final percent stand averaged 100%. For a hybrid to be in the top performance group for these factors it had to equal 57 lb or more in bushel weight, 17% or less in grain moisture, 3% or less in stalk lodging, and 98% or more for percent stand.

South Shore

Early, Non-Roundup Ready™, Table 2a. The test trial yield average was 54 bu/a in 2006 and 114 bu/a for 2 years. There was no significant difference in yield average among the entries tested for 2 years so six entries qualified for the top yield group. The high level of experimental error (CV =45%) prevented the valid determination of the top performance group for yield and the determination of hybrid yield differences among the entries tested in 2006.

In 2006, bushel weights averaged 57 lb, grain moisture averaged 17%, lodging averaged 1%, and the final percent stand averaged 100%. For a hybrid to be in the top performance group for these factors it had to equal 57 lb or more in bushel weight, 18% or less in grain moisture, 2% or less in stalk lodging, and 98% or more for percent stand.

Late, Non-Roundup Ready™, Table 2b. The test trial yield average was 40 bu/a in year 2006 and 86 bu/a for 2 years. There was no significant difference in yield average among the hybrids tested for 2 years so both entries qualified for the top yield group. The high level of experimental error (CV =58%) prevented the valid determination of the top performance group for yield and the determination of hybrid yield differences between the entries tested in 2006.

In 2006, bushel weights averaged 55 lb, grain moisture averaged 20%, lodging averaged 0%, and the final percent stand averaged 99%. For a hybrid to be in the top performance group for these factors it had to equal 56 lb or more in bushel weight, 18% or less in grain moisture, 2% or less in stalk lodging, and 98% or more for percent stand.

Early, Roundup Ready™, Table 2c. The test trial yield average was 70 bu/a in 2006 and 129 bu/a for 2 years. There was no significant difference in yield average among the hybrids tested for 2 years so all 14 entries qualified for the top yield group. The high level of experimental error (CV =30%) prevented the valid determination of the top performance group for yield and the determination of hybrid yield differences among the entries tested in 2006.

In 2006, bushel weights averaged 56 lb, grain moisture averaged 17%, lodging averaged 1%, and the final percent stand averaged 98%. For a hybrid to be in the top performance group for these factors it had to equal 57 lb or more in bushel weight, 16% or less in grain moisture, 2% or less in stalk lodging, and 98% or more for percent stand.

Late, Roundup Ready™, Table 2d. The test trial yield aver-

age was 77 bu/a in 2006 and 127 bu/a for 2 years. There was no significant difference in yield average among the hybrids tested for 2 years so all eight entries qualified for the top yield group. The high level of experimental error (CV =39%) prevented the valid determination of the top performance group for yield and the determination of hybrid yield differences among the entries tested in 2006.

In 2006, bushel weights averaged 55 lb, grain moisture averaged 19%, lodging averaged 1%, and the final percent stand averaged 99%. For a hybrid to be in the top performance group for these factors it had to equal 57 lb or more in bushel weight, 17% or less in grain moisture, 3% or less in stalk lodging, and 95% or more for percent stand.

Central Locations Bancroft

Early, Non-Roundup Ready™, Table 3a. The test trial yield average was 144 bu/a in 2006 and 168 bu/a for 2 years. Hybrids that yielded 136 bu/a or more in 2006 and 165 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 24 bu/a in 2006 to be significantly different from one another. There were no difference in yield averages among the six hybrids tested 2 years.

In 2006, bushel weights averaged 59 lb, grain moisture averaged 18%, lodging averaged 2%, and the final percent stand averaged 98%. For a hybrid to be in the top performance group for these factors it had to equal 59 lb or more in bushel weight, 17% or less in grain moisture, 4% or less in stalk lodging, and 95% or more for percent stand.

Late, Non-Roundup Ready™, Table 3b. The test trial yield average was 139 bu/a in 2006 and 173 bu/a for 2 years. Hybrids that yielded 136 bu/a or more in 2006 and 166 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 25 bu/a in 2006 to be significantly different from one another. There were no difference in yield averages among the five hybrids tested 2 years.

In 2006, bushel weights averaged 57 lb, grain moisture averaged 22%, lodging averaged 8%, and the final percent stand averaged 98%. For a hybrid to be in the top performance group for these factors it had to equal 57 lb or more in bushel weight, 21% or less in grain moisture, 16% or less in stalk lodging, and 94% or more for percent stand.

Early, Roundup Ready™, Table 3c. The test trial yield average was 154 bu/a in 2006 and 176 bu/a for 2 years. Hybrids that yielded 146 bu/a or more in 2006 and 184 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 26 bu/a in 2006 to be significantly different from one another.

In 2006, bushel weights averaged 58 lb, grain moisture averaged 17%, lodging averaged 1%, and the final percent stand averaged 97%. For a hybrid to be in the top performance group for these factors it had to equal 58 lb or more in bushel weight, 16% or less in grain moisture, 3% or less in stalk lodging, and 96% or more for percent stand.

Late, Roundup Ready™, Table 3d. The test trial yield average was 156 bu/a in 2006 and 182 bu/a for 2 years. Hybrids that yielded 156 bu/a or more in 2006 and 175 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 19 bu/a in 2006 to be significantly different from one another. There was no difference in yield averages among the ten

hybrids tested 2 years.

In 2006, bushel weights averaged 57 lb, grain moisture averaged 20%, lodging averaged 2%, and the final percent stand averaged 97%. In order for a hybrid to be in the top performance group for these factors it had to equal 59 lb or more in bushel weight, 19% or less in grain moisture, 4% or less in stalk lodging, and 96% or more for percent stand.

Brookings

Early, Non-Roundup Ready™, Table 4a. The test trial yield average was 168 bu/a in 2006 and 204 bu/a for 2 years. Hybrids that yielded 163 bu/a or more in 2006 and 199 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 24 bu/a in 2006 to be significantly different from one another. There was no difference in yield averages among the five hybrids tested 2 years.

In 2006, bushel weights averaged 55 lb, grain moisture averaged 19%, lodging averaged 1%, and the final percent stand averaged 100%. For a hybrid to be in the top performance group for these factors it had to equal 55 lb or more in bushel weight, 19% or less in grain moisture, 2% or less in stalk lodging, and 100% or more for percent stand.

Late, Non-Roundup Ready™, Table 4b. The test trial yield average was 177 bu/a in 2006 and 207 bu/a for 2 years. Hybrids that yielded 177 bu/a or more in 2006 and 194 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 29 bu/a in 2006 and 31 bu/a for the 2-year period to be significantly different from one another.

In 2006, bushel weights averaged 55 lb, grain moisture averaged 22%, lodging averaged 1%, and the final percent stand averaged 98%. For a hybrid to be in the top performance group for these factors it had to equal 55 lb or more in bushel weight, 21% or less in grain moisture, 3% or less in stalk lodging, and 96% or more for percent stand.

Early, Roundup Ready™, Table 4c. The test trial yield average was 162 bu/a in 2006 and 194 bu/a for 2 years. Hybrids that yielded 164 bu/a or more in 2006 and 190 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 20 bu/a in 2006 and 17 bu/a for the 2-year period to be significantly different from one another.

In 2006, bushel weights averaged 55 lb, grain moisture averaged 18%, lodging averaged 1%, and the final percent stand averaged 98%. In order for a hybrid to be in the top performance group for these factors it had to equal 56 lb or more in bushel weight, 17% or less in grain moisture, 2% or less in stalk lodging, and 96% or more for percent stand.

Late, Roundup Ready™, Table 4d. The test trial yield average was 189 bu/a in 2006 and 214 bu/a for 2 years. Hybrids that yielded 198 bu/a or more in 2006 and 208 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 16 bu/a in 2006 to be significantly different from one another. There was no difference in yield averages among the 11 hybrids tested 2 years.

In 2006, bushel weights averaged 55 lb, grain moisture averaged 20%, lodging averaged nearly 0%, and the final percent stand averaged 97%. For a hybrid to be in the top performance group for these factors it had to equal 56 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.

Southern Locations

Geddes

Note: At this southern location, the CV values for yield were higher than 20%; this means we believe the experimental error associated with the trials at Geddes are too high to be considered valid or acceptable for hybrid selection decisions. The high levels of experimental error are thought to be the result of the uneven seasonal moisture distribution and/or high temperatures at this location, especially during pollination (see discussion in Weather conditions).

Early, Non-Roundup Ready™, Table 5a. The test trial yield average was 60 bu/a in 2006 and 85 bu/a for 2 years. In both 2006 and for the 2-year period there were high levels of experimental error, CV values of 48 and 24%, respectively, that prevented the valid determination of the top performance group for yield and the determination of hybrid yield differences.

In 2006, bushel weights averaged 56 lb, grain moisture averaged 21%, lodging averaged 2%, and the final percent stand averaged 97%. For a hybrid to be in the top performance group for these factors it had to equal 56 lb or more in bushel weight, 19% or less in grain moisture, 4% or less in stalk lodging, and 92% or more for percent stand.

Late, Non-Roundup Ready™, Table 5b. The test trial yield average was 94 bu/a in both 2006 and for 2 years. In both 2006 and for the 2-year period there were high levels of experimental error, CV values of 33 and 27%, respectively, that prevented the valid determination of the top performance group for yield and the determination of hybrid yield differences.

In 2006, bushel weights averaged 55 lb, grain moisture averaged 22%, lodging averaged 1%, and the final percent stand averaged 96%. For a hybrid to be in the top performance group for these factors it had to equal 53 lb or more in bushel weight, 21% or less in grain moisture, 3% or less in stalk lodging, and 92% or more for percent stand.

Early Roundup Ready™, Table 5c. The test trial yield average was 97 bu/a in 2006 and 103 bu/a for 2 years. Hybrids that yielded 102 bu/a for 2 years qualified for the top yield group. Hybrid differences had to exceed 23 bu/a to be significantly different from one another over the 2-year period. In 2006 the high level of experimental error (CV =22%) prevented the valid determination of the top performance group for yield and the determination of hybrid yield differences.

In 2006, bushel weights averaged 56 lb, grain moisture averaged 21%, lodging averaged nearly 1%, and the final percent stand averaged 96%. For a hybrid to be in the top performance group for these factors it had to equal 58 lb or more in bushel weight, 17% or less in grain moisture, 3% or less in stalk lodging, and 93% or more for percent stand.

Late Roundup Ready™, Table 5d. The test trial yield average was 86 bu/a in 2006 and 91 bu/a for 2 years. Hybrid yield averages were not significantly different among the four entries tested for 2 years, therefore all four of the hybrids tested were in the top yield group. In 2006 the high level of experimental error (CV =23%) prevented the valid determination of the top performance group for yield and the determination of hybrid yield differences between the entries.

In 2006, bushel weights averaged 53 lb, grain moisture averaged 23%, lodging averaged 2%, and the final percent stand

averaged 97%. In order for a hybrid to be in the top performance group for these factors it had to equal 54 lb or more in bushel weight, 20% or less in grain moisture, 4% or less in stalk lodging, and 93% or more for percent stand.

Beresford

Early, Non-Roundup Ready™, Table 6a. The test trial yield average was 159 bu/a in 2006 and 184 bu/a for 2 years. Hybrids that yielded 167 bu/a or more in 2006 and 166 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 23 bu/a in 2006 to be significantly different from one another. There was no difference in yield averages among the five hybrids tested 2 years.

In 2006, bushel weights averaged 60 lb, grain moisture averaged 17%, lodging averaged 11%, and the final percent stand averaged 98%. For a hybrid to be in the top performance group for these factors it had to equal 60 lb or more in bushel weight, 16% or less in grain moisture, 12% or less in stalk lodging, and 97% or more for percent stand.

Late, Non-Roundup Ready™, Table 6b. The test trial yield average was 188 bu/a in 2006 and 192 bu/a for 2 years. Hybrids that yielded 184 bu/a or more in 2006 and 174 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 26 bu/a in 2006 to be significantly different from one another. There was no difference in yield averages among the ten hybrids tested 2 years.

In 2006, bushel weights averaged 59 lb, grain moisture averaged 19%, lodging averaged 18%, and the final percent stand averaged 96%. For a hybrid to be in the top performance group for these factors it had to equal 58 lb or more in bushel weight, 17% or less in grain moisture, 17% or less in stalk lodging, and 96% or more for percent stand.

Early, Roundup Ready™, Table 6c. The test trial yield average was 171 bu/a in 2006 and 181 bu/a for 2 years. Hybrids that yielded 170 bu/a or more in 2006 and 172 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 33 bu/a in 2006 to be significantly different from one another. There was no difference in yield averages among the nine hybrids tested 2 years.

In 2006, bushel weights averaged 60 lb, grain moisture averaged 17%, lodging averaged 15%, and the final percent stand averaged 97%. For a hybrid to be in the top performance group for these factors it had to equal 61 lb or more in bushel weight, 16% or less in grain moisture, 19% or less in stalk lodging, and 91% or more for percent stand.

Late, Roundup Ready™, Table 6d. The test trial yield average was 188 bu/a in 2006 and 195 bu/a for 2 years. Hybrids that yielded 192 bu/a or more in 2006 and 179 bu/a or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 21 bu/a in 2006 to be significantly different from one another. There was no difference in yield average among the five hybrids tested 2 years.

In 2006, bushel weights averaged 60 lb, grain moisture averaged 19%, lodging averaged 9%, and the final percent stand averaged 96%. For a hybrid to be in the top performance group for these factors it had to equal 60 lb or more in bushel weight, 17% or less in grain moisture, 8% or less in stalk lodging, and 93% or more for percent stand.

Table A. Description of trial locations- soil type, tillage methods, previous crop, herbicides and insecticides used, and seeding dates.

Location (County)	Soils & Management			Herbicides				Force Insecticide	Fertility Yield Goal bu/a	Date seeded
				Applied at label rates						
	Type	Tillage Method	Previous crop	Roundup Ready™		Non- Roundup Ready		In furrow at label rate		
				Pre	Post	Pre	Post			
Warner (Brown)	Harmony-Aberdeen silty clay loam, 0-2% slope	Mid. till	S. Wheat	Harness Xtra	None	Harness Xtra 1.8 qt	None	Yes	200	May 3
South Shore (Codington)	Kransburg silty clay loam, 3-6% slope	Conven- tional	S. Wheat	Harness	Roundup once	Harness	Single light cult.	Yes	180	May 23
Bancroft (Kingsbury)	Houdek-Stickney- Tetonka loam, 0-3% slope	No-till	Soybean	Fall Dual	Roundup once	Fall Dual	Accent/ Buctril	Yes	150	May 12
Brookings (Brookings)	Barnes clay loam, 0-2% slope	Conven- tional	Soybean	Dual-	Roundup once	Dual-	Accent/ Buctril	Yes	200	May 19
Geddes (Chas. Mix)	Highmore-Walke silt loam, 0-2% slope	No-till	S. Wheat	None	Roundup once	None	Steadfast Atrazine	Yes	200	May 16
Beresford (Clay)	Egan-Clarno-Trent silty clay loam, 0-2% slope	Conven- tional	Soybean	Dual- Python	Roundup once	Dual- Python	None	Yes	210	May 8

Note: All plots were seeded at 27,878 seeds per acre.

Table B. Nearest weather station precipitation, temperature average, and growing degree day accumulation for each growing season month for 2006 and their departures from normal (DFN).

Source: South Dakota Office of Climate and Weather.

Station	Variable		Precipitation and temperature monthly averages, GDD's from April 1					
			April 30	May 31	June 30	July 31	Aug 31	Sept 30
Aberdeen Airport	Precip.	'06	2.41	2.16	3.21	0.71	2.47	2.67
	(inches)	DFN*	0.58	-0.53	-2.8	-2.21	0.07	0.86
	Avg. Temp.	'06	51	58	69	77	72	57
	(F.°)	DFN	5.6	0.1	2.2	4.8	1.5	-2.8
	Accum. GDD's	'06	207	512	1,059	1,760	2,405	2,666
		DFN	95	129	173	209	219	161
South Shore (NE Farm)	Precip.	'06	2.53	1.99	0.95	0.83	1.93	5.66
	(inches)	DFN	0.53	-0.73	-2.88	-0.244	0.53	3.77
	Avg. Temp.	'06	48	56	66	73	69	58
	(F.°)	DFN	5.0	0.2	1.3	3.3	1.2	-0.1
	Accum. GDD's	'06	160	460	934	1,595	2,200	2,580
		DFN	81	95	109	134	181	247
Iroquois**/ Huron#, ##	Precip.	'06	1.73	0.98	1.3	0.6	5.68	4.61
	(inches)	DFN	0.51	-1.89	-2.06	2.53	3.6	2.59
	Avg. Temp.	'06	53	59	70	80	74	58
	(F.°)	DFN	6.9	0.8	2.1	6.6	13.0	10.1
	Accum. GDD's	'06	214	544	1,137	1,893	2,588	2,861
		DFN	89	142	197	255	269	204
Brookings 2NE (SDSU Farm)	Precip.	'06	2.65	2.02	2.35	0.23	5.65	4.09
	(inches)	DFN	0.62	-0.93	-1.88	-2.88	2.71	1.61
	Avg. Temp.	'06	49	58	67	74	69	55
	(F.°)	DFN	4.8	1.3	0.9	3.3	0.4	-4.1
	Accum. GDD's	'06	166	500	1,016	1,709	2,307	2,557
		DFN	-26	107	137	188	207	118
Centerville (Expt. Stn.)	Precip.	'06	3.44	1.51	3.72	0.39	3.23	7.81
	(inches)	DFN	0.97	-2.14	-0.23	-2.96	0.4	5.55
	Avg. Temp.	'06	53	61	70	77	72	58
	(F.°)	DFN	5.8	0.5	0.6	3.3	9.7	8.3
	Accum. GDD's	'06	230	656	1,265	2,025	2,701	3,030
		DFN	88	166	184	197	198	122
Platte**/ Academy# Mitchell##	Precip.	'06	3.62	0.89	2.36	0.47	2.35	NA
	(inches)	DFN	1.01	2.91	1.05	-2.69	0.12	-
	Avg. Temp.	'06	52	60	70	79	73	58
	(F.°)	DFN	6.5	2.4	2.6	5.5	1.6	-3.7
	Accum. GDD's	'06	235	600	1,226	1,998	2,705	2,988
		DFN	114	178	228	278	292	206

* DFN - how much a variable for year 2006 is greater or less (-) than the long-term average.

** Precipitation data.

Avg. Temp. data.

GDD data.

Table C. 2006 Non-Roundup Ready™ corn hybrid entries by brand/hybrid and performance table number.

Brand / Hybrid	Table No.	Brand / Hybrid	Table No.
AGVENTURE/ AV4880CB	1a	KRUGER/ 8609HX	5b, 6a
AGVENTURE/ AV5544CB	2b, 3a	KRUGER/ 8616HX	6b
AGVENTURE/ AVEXP5544CB	1b	KRUGER/ 9111YGCB	5b, 6b
DAIRYLAND/ STEALTH-1806	6a	KRUGER/ 9115YGCB	6b
DAIRYLAND/ STEALTH-5007	5b	KRUGER/ 9212YGCB	6b
DAIRYLAND/ STEALTH-5194	1a, 2a	KRUGER/ 9310YG+	5b, 6a
DAIRYLAND/ STEALTH-5201	3b, 4b, 5a	KRUGER/ 9313YGCB	6b
DAIRYLAND/ STEALTH-5204	3b, 4b, 5a	KRUGER/ 9496YGCB	1a, 2a, 3a, 4a
DAIRYLAND/ STEALTH-5497	1b, 3a	KRUGER/ EXP0191	1a, 2a
DEKALB/ DKC52-45 (YGCB)	5a	KRUGER/ EXP0192	1a, 2a
DEKALB/ DKC55-12 (YGCB)	5a, 6a	KRUGER/ EXP0309	6a
DEKALB/ DKC62-31 (YGCB)	6b	KRUGER/ EXP0404	3b, 4b, 5a
EPLEY/ E1157	3a, 5a	KRUGER/ EXP0408	5b
EPLEY/ E1231	3a, 4a, 5a	KRUGER/ EXP0599	1b, 2b, 3a, 4a
EPLEY/ E1407HXLL	3a, 4a, 5a	KRUGER/ EXP0605B	3b, 4b, 5a
EPLEY/ E1430YGCB	3b, 4b, 5a	KRUGER/ EXP0610	5b, 6a
EPLEY/ E2407HXLL	3b, 4b, 5b	KRUGER/ EXP0692	1a, 2a
EPLEY/ E2492YGPL	4b, 5b	KRUGER/ EXP5310YGCB	5b, 6a
FARM ADVANTAGE/ 1065	5a, 6a	KRUGER/ EXP5494BTLL	1a, 2a
FARM ADVANTAGE/ 5406	5b, 6a	KRUGER/ EXP5497YGCB	1b, 2b, 3a, 4a
FARM ADVANTAGE/ 9699L	3a, 4a	KRUGER/ EXP5498YGCB	1b, 2b, 3a, 4a
GOLD COUNTRY/ 94-01CB	1a, 2a, 4a	KRUGER/ EXP5593BTLL	1a, 2a
GOLD COUNTRY/ 95-03CB	1a, 2a, 4a	KRUGER/ EXP5596BTLL	1a, 2a
HEINE/ H818YGCB	6a	KRUGER/ EXP5597BTLL	1b, 2b, 3a, 4a
HEINE/ H820YGCB	6a	KRUGER/ EXP5693YGCB	1a, 2a
HEINE/ H822	6b	KRUGER/ EXP8204HX	3b, 4b, 5a
HEINE/ H824YGCB	6a	KRUGER/ EXP8502HX	1b, 2b, 4b, 5a
HEINE/ H851YGCB	6b	KRUGER/ EXP8508HX	6a
HEINE/ H856YGCB	6b	KRUGER/ EXP8601HX	1b, 2b, 4b, 5a
KALTENBERG/ K4688BT	2b, 4a	KRUGER/ EXP8605HX	3b, 4b, 5a
KRUGER/ 0409	5b, 6a	MYCOGEN/ 2C727	6b
KRUGER/ 0508	5b, 6a	MYCOGEN/ 2G677	6a
KRUGER/ 0603	1b, 2b, 3b, 4b, 5a	MYCOGEN/ 2K717	6b
KRUGER/ 0612	6b	MYCOGEN/ 2R570	6a
KRUGER/ 5109YGCB	5b, 6a	MYCOGEN/ 2T780	6b
KRUGER/ 5416YGCB	6b	RENK/ RK488YGCB	2b, 3a, 4a
KRUGER/ 5504YGCB	1b, 2b, 3b, 4b, 5a	RENK/ RK575YGPL	2b, 3a, 4a
KRUGER/ 5505YGCB	3b, 4b, 5a	RENK/ RK789YGPL	6b
KRUGER/ 5509YGCB	5b, 6a	RENK/ RK888YGCB	6b
KRUGER/ 5517YGCB	6b	SEEDS 2000/ 2953BT	1a, 2a, 3a, 4a
KRUGER/ 7613YG+	6b	WENSMAN/ W 5212BT	1a, 2a, 3a, 4a
KRUGER/ 8414HX	6b	WENSMAN/ W4190	1a, 2a
KRUGER/ 8602HX	1b, 2b, 3b, 4b, 5a		

Table D. 2006 Roundup Ready™ corn hybrid entries by brand/hybrid and performance table number.

Brand / Hybrid	Table No.	Brand / Hybrid	Table No.
AGVENTURE/ AV4006YPRR	1c, 2c	HEINE/ H725/RRYGCB	5c
AGVENTURE/ AV4883R2RW	2c	HEINE/ H749RR/YGCB	5c, 6c
AGVENTURE/ AV5016R2CB	1c, 2c	HEINE/ H750RR/YGCB	5c, 6c
ASGROW/ RX674RR2	6c	HEINE/ H766RRYGPL	6c
ASGROW/ RX715RR2YGCB	6d	HEINE/ H785RR	5d, 6c
CROWS/ 1699T	1c, 2c	HEINE/ H796RR	5d, 6c
CROWS/ 1705S	1d, 2d	HEINE/ H818RR	5d, 6c
CROWS/ 2121S	4d, 5c	HEINE/ H851RR/YGCB	5d, 6d
CROWS/ 4843X	5d, 6c	HEINE/ H851RRYGPL	6d
CROWS/ 4940T	6d	INTEGRA/ INT 6395RRYG	1c, 2c, 3c
CROWS/ 4982X	6d	INTEGRA/ INT 63F90RRYG	1c, 2c, 3c
CROWS/ 4S502	1d, 2d, 3c, 4c	INTEGRA/ INT 6506RRYG	4d, 5c
DAIRYLAND/ STEALTH-1606	5d, 6c	INTEGRA/ INT 6602RRYG	1d, 2d, 3c, 4c, 5c
DAIRYLAND/ STEALTH-4006	6c	INTEGRA/ INT 6603RRYG	3d, 4d, 5c
DAIRYLAND/ STEALTH-6497	2d	INTEGRA/ INT 6609RRYG	5d, 6c
DAIRYLAND/ STEALTH-7191	1c	INTEGRA/ INT 6698RRYG	2d, 3c, 4c
DAIRYLAND/ STEALTH-7196	1d, 2d, 3c, 4c	INTEGRA/ INT 6710RRYG	6c
DAIRYLAND/ STEALTH-7201	1d, 2d	INTEGRA/ INT 6799RRYG	1d, 3c, 4c
DEKALB/ DKC41-64RR2YGCB	1c, 2c	KALTENBERG/ K2405RRBT	2c
DEKALB/ DKC42-95RR2YGCB	1c, 2c	KALTENBERG/ K3919RRBT	2c
DEKALB/ DKC44-92 (RR2)	1c, 2c	KALTENBERG/ K5244RRBT	4d
DEKALB/ DKC46-22RR2YGPL	2d, 4c	KALTENBERG/ K5685RRBT	4d, 5c, 6c
DEKALB/ DKC47-10RR2YGCB	1d	KALTENBERG/ K6744RRBT	6c
DEKALB/ DKC48-53RR2YGCB	1d, 2d, 3c, 4c, 5c	KRUGER/ 1195RR	1c, 2c, 3c, 4c
DEKALB/ DKC50-20RR2YGCB	1d, 2d, 3c, 4c, 5c	KRUGER/ 1500RR	1d, 2d, 3c, 4c, 5c
DEKALB/ DKC50-48RR2YGCB	1d, 3c, 4c, 5c	KRUGER/ 1587RR	1c, 2c
DEKALB/ DKC51-39RR2YGPL	5c	KRUGER/ 1603RR	1d, 2d, 3d, 4d, 5c
DEKALB/ DKC52-47RR2YGCB	3d, 4d, 5c, 6c	KRUGER/ 1606RR	3d, 4d, 5d, 6c
DEKALB/ DKC52-63RR2YGCB	3d, 4d, 5c	KRUGER/ 2288RR/YGCB	1c, 2c
DEKALB/ DKC58-19 (RR2)	5d, 6c	KRUGER/ 2499RR/YGCB	1d, 2d, 3c, 4c
DEKALB/ DKC60-19RR2YGCB	6c	KRUGER/ 2506RR/YGCB	3d, 4d, 5d, 6c
DEKALB/ DKC61-22 (RR2)	6d	KRUGER/ 2509RR/YGCB	5d, 6c
DEKALB/ DKC61-72 (RR2)	5d, 6d	KRUGER/ 2517RR/YGCB	6d
EPLEY/ E1165RR	2c, 3c, 4c	KRUGER/ 2613RR/YGCB	5d, 6d
EPLEY/ E1185RR	2d, 3c, 4c	KRUGER/ 2697RR/YGCB	1d, 2d, 3c, 4c
EPLEY/ E1195RR	2d, 3c, 4c	KRUGER/ 6503TS	1d, 2d, 3d, 4d, 5c
EPLEY/ E12R24YGPL	2d, 3c, 4c	KRUGER/ 6603TS	1d, 2d, 3d, 4d, 5c
EPLEY/ E12R45YGCB	2d, 3d, 4d	KRUGER/ 6607TS	6c
EPLEY/ E1445RR	2d, 3d, 4d	KRUGER/ 9115TS	5d, 6d
EPLEY/ E2435RRRW	3d, 4d	KRUGER/ 9203RR/YGCB	1d, 2d, 3d, 4d, 5c
FARM ADVANTAGE/ 6504	4d, 5c, 6c	KRUGER/ 9212TS	5d, 6d
FONTANELLE/ 5K106	4c, 5c	KRUGER/ 9310TS	5d, 6c
FONTANELLE/ 5K824	4d, 5c	KRUGER/ 9313RR/YGCB	5d, 6d
FONTANELLE/ 7K733	5d, 6d	KRUGER/ 9392RR/YGCB	1c, 2c
FONTANELLE/ 8K389	6d	KRUGER/ 9392TS	1c, 2c
GOLD COUNTRY/ 100-05CBRC	3c, 4c	KRUGER/ 9407TS	6c
GOLD COUNTRY/ 102-04CBR	3d, 4d, 5c	KRUGER/ 9496RR	1c, 2c, 3c, 4c
GOLD COUNTRY/ 105-04CBR	4d, 5d	KRUGER/ 9593RR/YGCB	1c, 2c
GOLD COUNTRY/ 106-02CBR	4d, 5d, 6c	KRUGER/ EXP1190RR	1c, 2c
GOLD COUNTRY/ 92-01CBRCR	1c, 2c	KRUGER/ EXP1292RR	1c, 2c
GOLD COUNTRY/ 93-04CBR	1c, 2c	KRUGER/ EXP1503RR	1d, 2d, 3d, 4d
GOLD COUNTRY/ 98-10CBR	1d, 2d, 3c, 4c	KRUGER/ EXP1700RR	1d, 2d, 3c, 4c
HEINE/ 729RR/YGCB	5c	KRUGER/ EXP2105RR/YGCB	3d, 4d, 5c
HEINE/ H721RR/YGCB	5c	KRUGER/ EXP2301RR/YGCB	1d, 2d, 3d, 4d
HEINE/ H724RR/YGCB	5c, 6c	KRUGER/ EXP2414RR/YGCB	5d, 6d

Table D. 2006 Roundup Ready™ corn hybrid entries by brand/hybrid and performance table number (continued).

Brand / Hybrid	Table No.	Brand / Hybrid	Table No.
KRUGER/ EXP2511RR/YGCB	5d, 6d	SEEDS 2000/ 3122RR/BT	1d, 3d
KRUGER/ EXP2688RR/YGCB	1c, 2c	SEEDS 2000/ EXP3101RR	1d, 2d, 4d
KRUGER/ EXP6611TS	6d	WENSMAN/ W 6117BTRR	1c, 2c
KRUGER/ EXP6612TS	6d	WENSMAN/ W 6194BTRR	1c, 2c, 3c, 4c
LEGEND/ LR9391RRYG+	2c	WENSMAN/ W 6212RR	1c, 2c, 3c, 4c
LEGEND/ LR9396RRCR	2d	WENSMAN/ W 6266BTRR	1d, 2d, 3c, 4c, 5c
LEGEND/ LR9501RRYG+	4d, 5c	WENSMAN/ W 6287RR	1d, 2d, 3c, 4c
LEGEND/ LR9510RR	6c	WENSMAN/ W 6307RR	1d, 2d, 3c, 4c, 5c
LEGEND/ LR9594RB	2c	WENSMAN/ W 6315BTRR	3d, 4d, 5c, 6c
LEGEND/ LR9693RRYG+	4c	WENSMAN/ W 6318BTRR	3d, 4d, 5c, 6c
LEGEND/ LR9699RRYG+	4c, 5c	WENSMAN/ W 6374BTRR	3d, 4d, 5c, 6c
LEGEND/ LR9708RRYG+	6c	WENSMAN/ W 6422BTRR	6c
MIDWEST/ 4S502	1d, 2d, 3c, 4c	WENSMAN/ W 7118BTRWRR	1c, 2c
MIDWEST/ 69402T	1c, 2c	WENSMAN/ W 7269BTRWRR	1d, 2d, 3c, 4c, 5c
MIDWEST/ 69642S	1d, 2d	WENSMAN/ W 7316BTRWRR	3d, 4d, 5c, 6c
MIDWEST/ 70503S	4d, 5c	WENSMAN/ W 7423BTRWRR	5d, 6c
MIDWEST/ 77124X	5d, 6c	WENSMAN/ W7439BTRWRR	5d, 6c
MIDWEST/ 77323T	6d	WILBUR ELLIS/ HB9421R	1c, 2c
MIDWEST/ 78133X	6d	WILBUR ELLIS/ HB9451R	1c, 2c, 3c, 4c
NUTECH/ 3301 RR	1d, 2d, 3c, 4c	WILBUR ELLIS/ HB9482RB	1d, 2d, 3c, 4c
NUTECH/ 3307 RR	3d, 4d	WILBUR ELLIS/ HB9531 RB	3d, 4d, 5c, 6c
NUTECH/ 3595 RR	1c	WILBUR ELLIS/ HB9601RB	5d, 6c
NUTECH/ 3995 RR	1c, 2c		
NUTECH/ 5005 RR/YGCB	3d, 4d		
NUTECH/ 5006A RR/YGCB	3d, 4d, 5c, 6c		
NUTECH/ 5101 RR/YGCB	1d, 2d, 3d, 4d, 5c		
NUTECH/ 5210 RR/YGCB	5d, 6c		
NUTECH/ 5507 RR/YGCB	3d, 4d, 5c, 6c		
NUTECH/ 5596 RR/YGCB	1c, 2c, 3c, 4c		
NUTECH/ 5696 RR/YGCB	1d, 2d		
NUTECH/ 7099 RR/YGRW	1d, 2d, 3c		
NUTECH/ 7110 RR/YGRW	5d, 6c		
NUTECH/ 7808 RR/YGRW	5d, 6c		
NUTECH/ 9002 RR/YGPL	1d, 2d, 3c, 4c		
NUTECH/ 9003 RR/YGPL	3d, 4d		
NUTECH/ 9006 RR/YGPL	3d, 4d, 5c, 6c		
NUTECH/ 9013 RR/YGCB	6c		
NUTECH/ 9101 RR/YGPL	1d, 2d, 3c, 4c, 5c		
NUTECH/ 9197 RR/YGPL	1c, 2c		
NUTECH/ 9410 RR/YGPL	5d, 6c		
NUTECH/ 9507 RR/YGPL	3d, 4d, 5c, 6c		
NUTECH/ 9903 RR/YGPL	3d, 4d, 5c		
NUTECH/ 9908 RR/YGPL	5d, 6c		
PANNAR/ 5C-760RRCRW+	2d, 4c		
PANNAR/ 5E-850RRBT	2d, 4c		
PANNAR/ 5E-900RRBT	2d, 4c		
PANNAR/ 6C-330RRCRW+	3d, 4d		
PANNAR/ 7A-560RRBT	3d, 4d		
PANNAR/ 8A-180RRBT	3d, 4d		
RENK/ RK488RRYGPL	2d, 3c, 4c		
RENK/ RK632RRYGPL	3d, 4d		
RENK/ RK772RRYGPL	3d, 4d		
RENK/ RK870RRYGPL	6d		
SEEDS 2000/ 2944RR/BT	1c, 2c		
SEEDS 2000/ 2953RR	1c, 2c, 4c		

Table 1a. Early maturity Non-Roundup Ready™ corn hybrid test trial results, Allen & Inel Ryckman Farm, Warner, SD, 2005–2006.

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel Mat	Hybrid performance variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Mst %	'06 Lodg- ing %	'06 Pct* Stand
TWO-YEAR ENTRIES:							
AGVENTURE/ AV4880CB	95	134	66	60	17	0	100
DAIRYLAND/ STEALTH-5194	94	130	66	58	18	1	99
KRUGER/ 9496YGCB	95	125	53	59	17	0	100
SEEDS 2000/ 2953BT	95	121	52	60	18	2	100
WENSMAN/ W 5212BT	95	118	42	58	15	0	100
KRUGER/ EXP0692	92	99	15	.	17	0	99
ONE-YEAR ENTRIES:							
KRUGER/ EXP5593BTLL	93	.	64	60	17	1	100
WENSMAN/ W4190	90	.	57	59	15	0	98
KRUGER/ EXP5693YGCB	93	.	50	59	16	2	100
GOLD COUNTRY/ 94-01CB	94	.	49	57	16	0	99
KRUGER/ EXP0191	91	.	45	58	18	0	100
KRUGER/ EXP5494BTLL	94	.	37	57	15	1	98
KRUGER/ EXP0192	92	.	31	59	16	0	100
GOLD COUNTRY/ 95-03CB	95	.	20	.	18	0	98
KRUGER/ EXP5596BTLL	95	.	14	.	18	0	99
Trial avg.:	94	121	44	59	17	0	99
Highest (H)-avg.:	95	134	66	60	18	2	100
Lowest (L)-avg.:	90	99	14	57	15	0	98
H-L avg. difference:	5	35	52	3	3	2	3
** Lsd (.05):		26	++	NS	2	NS	NS
# Min. TPG-value:		108	-	57	-	-	98
## Max. TPG-value:		.	-	-	17	2	-
+ Coef. of var.:		15	44+++	2	8	233	1
No. of entries:	15	6	15	12	15	15	15

* Seeded May 3, 2006 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, 20% or less is best for yield.

++ Lsd value is not reported because Coef. of Variation value exceeds 20%.

+++ The high level of experimental error in this test indicates caution should be exercised when using the results of this test to determine the top performance group for yield or for determining if two hybrids differ in yield.

Table 1b. Late maturity Non-Roundup Ready™ corn hybrid test trial results, Allen and Inel Ryckman Farm, Warner, SD, 2005–2006.

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel. Mat.	Hybrid performance variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
TWO-YEAR ENTRIES:							
DAIRYLAND/ STEALTH-5497	98	137	77	57	16	0	99
KRUGER/ 5504YGCB	103	126	44	55	22	0	100
KRUGER/ 8602HX	102	124	50	56	21	1	99
ONE-YEAR ENTRIES:							
KRUGER/ EXP5597BTLL	97		82	58	19	0	100
AGVENTURE/ AVEXP5544CB	98		77	58	20	1	99
KRUGER/ EXP5497YGCB	97		73	56	18	2	100
KRUGER/ EXP8502HX	102		59	57	22	3	99
KRUGER/ EXP0599	99		49	57	20	0	99
KRUGER/ EXP5498YGCB	98		44	57	23	0	100
KRUGER/ EXP8601HX	101		36	54	25	0	99
KRUGER/ 0603	103		31	53	25	0	100
Trial avg.:	100	129	56	56	21	1	99
Highest (H)-avg:	103	137	82	58	25	3	100
Lowest (L)-avg.:	97	124	31	53	16	0	99
H-L avg. difference:	6	13	51	5	9	3	2
** Lsd (.05):		NS	++	1	2	2	NS
# Min. TPG-value:		124	-	57	-	-	99
## Max. TPG-value:		-	-	-	18	2	-
+ Coef. of var.:		14	30+++	1	5	248	1
No. of entries:	11	3	11	11	11	11	11

* Seeded May 3, 2006 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, 20% or less is best for yield.

++ Lsd value is not reported because Coef. of Variation value exceeds 20%.

+++ The high level of experimental error in this test indicates caution should be exercised when using the results of this test to determine the top performance group for yield or for determining if two hybrids differ in yield.

Table 1c. Early maturity Roundup Ready™ corn hybrid test trial results, Allen & Inel Ryckman Farm, Warner, SD, 2005–2006.

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
TWO-YEAR ENTRIES:							
WENSMAN/W 6212RR	95	169	137	58	15	1	100
DEKALB/DKC42-95RR2YGCB	92	156	108	54	16	0	98
WENSMAN/W 6194BTRR	95	150	98	59	16	1	99
SEEDS 2000/2944RR/BT	94	148	100	59	15	0	99
KRUGER/9593RR/YGCB	93	144	88	60	15	0	100
SEEDS 2000/2953RR	95	143	94	59	15	0	98
KRUGER/9392RR/YGCB	92	142	105	59	16	0	99
WENSMAN/W 6117BTRR	92	133	59	60	15	0	100
NUTECH/NT-3595 RR	94	132	60	57	15	1	100
INTEGRA/INT 6395RR	94	126	57	57	18	0	99
DAIRYLAND/STEALTH-7191	91	125	48	59	15	0	100
INTEGRA/INT 63F90RRYG	91	106	16		17	0	100
DEKALB/DKC41-64RR2YGCB	91	105	14		19	0	100
KRUGER/9496RR	95	100	10		15	1	100
ONE-YEAR ENTRIES:							
WILBUR ELLIS/ HB9421R	92		137	59	15	0	99
NUTECH/ 9197 RR/YGPL	95		115	60	15	2	99
GOLD COUNTRY/ 93-04CBR	93		102	57	16	0	100
KRUGER/ EXP1190RR	90		91	59	14	2	99
GOLD COUNTRY/ 92-01CBRC	92		86	57	17	0	100
NUTECH/ 5596 RR/YGCB	95		83	55	21	1	99
CROWS/ 1699T	94		82	57	16	0	100
DEKALB/ DKC44-92 (RR2)	94		81	57	16	0	100
NUTECH/ 3995 RR	94		79	59	16	0	99
KRUGER/ 9392TS	92		78	58	16	0	100
WENSMAN/ W 7118BTRWRR	92		72	58	16	0	98
AGVENTURE/ AV4006YPRR	92		63	58	16	1	100
AGVENTURE/ AV5016R2CB	94		60	58	16	0	99
MIDWEST/ 69402T	94		60	57	17	0	100
KRUGER/ 1587RR	87		52	60	16	1	99
WILBUR ELLIS/ HB9451R	95		51	58	16	2	100
KRUGER/ EXP1292RR	92		51	56	14	8	100
KRUGER/ 1195RR	95		51	58	15	1	100
KRUGER/ 2288RR/YGCB	88		31	58	15	8	99
KRUGER/ EXP2688RR/YGCB	88		8		15	0	100
Trial avg.:	93	134	71	58	16	1	99
Highest (H)-avg.:	95	169	137	60	21	8	100
Lowest (L)-avg.:	87	100	8	54	14	0	98
H-L avg. difference:	8	69	129	6	6	8	3
** Lsd (.05):		++	++	2	2	3	NS
# Min. TPG-value:			-	58	-		98
## Max. TPG-value:			-	-	16	3	
+ Coef. of var.:		29+++	76+++	3	7	220	1
No. of entries:	34	14	34	30	34	34	34

* Seeded May 3, 2006 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, 20% or less is best for yield.

++ Lsd value is not reported because Coef. of Variation value exceeds 20%.

+++ The high level of experimental error in this test indicates caution should be exercised when using the results of this test to determine the top performance group for yield or for determining if two hybrids differ in yield.

**Table 1d. Late maturity Roundup Ready™ corn hybrid test trial results, Allen & Inel Ryckman Farm
Warner, SD, 2005–2006.**

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
TWO-YEAR ENTRIES:							
KRUGER/2697RR/YGCB	97	135	73	58	16	1	100
WENSMAN/W 6266BTRR	97	127	54	59	16	4	100
DEKALB/DKC50-20RR2YGCB	100	125	47	56	20	4	100
DEKALB/DKC47-10RR2YGCB	97	124	53	59	16	1	100
NUTECH/NT-5101 RR/YGCB	101	123	52	55	21	0	99
KRUGER/6503TS	103	123	42	59	21	3	99
DEKALB/DKC48-53RR2YGCB	98	120	35	56	19	1	100
SEEDS 2000/3122RR/BT	102	115	37	54	23	0	100
KRUGER/ 1500RR	100	119	43	58	15	2	100
KRUGER/9203RR/YGCB	103	106	25	55	21	0	99
ONE-YEAR ENTRIES:							
WENSMAN/ W 6307RR	100		82	58	17	0	100
MIDWEST/ 69642S	96		77	58	16	0	100
KRUGER/ 2499RR/YGCB	99		74	59	15	0	100
DAIRYLAND/ STEALTH-7196	96		71	58	16	0	99
KRUGER/ EXP1700RR	100		71	58	18	0	99
CROWS/ 1705S	96		69	58	16	1	100
NUTECH/ 7099 RR/YGRW	98		62	59	17	0	100
KRUGER/ EXP1503RR	103		60	57	18	0	100
MIDWEST/ 4S502	97		60	59	15	2	97
NUTECH/ 3301 RR	100		57	55	18	0	99
WENSMAN/ W 6287RR	98		57	58	16	2	100
SEEDS 2000/ EXP3101RR	101		57	59	18	0	100
GOLD COUNTRY/ 98-10CBR	98		55	59	16	1	99
NUTECH/ 9101 RR/YGPL	100		54	55	20	0	100
NUTECH/ 5696 RR/YGCB	96		51	56	16	1	100
CROWS/ 4S502	97		49	57	15	0	100
KRUGER/ 1603RR	103		39	53	24	5	100
DAIRYLAND/ STEALTH-7201	100		35	57	19	2	100
NUTECH/ 9002 RR/YGPL	100		35	59	21	0	100
KRUGER/ 6603TS	103		34	54	24	1	100
DEKALB/ DKC50-48RR2YGCB	100		28		19	2	100
INTEGRA/ INT 6602RRYG	100		28	55	19	0	100
INTEGRA/ INT 6799RRYG	99		24	55	19	1	100
WILBUR ELLIS/ HB9482RB	98		16		21	0	100
KRUGER/ EXP2301RR/YGCB	103		12		22	0	98
WENSMAN/ W 7269BTRWRR	97		9		18	0	100
Trial avg.:	99	122	48	57	18	1	100
Highest (H)-avg.:	103	135	82	59	24	5	100
Lowest (L)-avg.:	96	106	9	53	15	0	97
H-L avg. difference:	7	29	73	6	9	5	3
** Lsd (.05):		NS	++	2	2	3	2
# Min. TPG-value:		106		57		-	98
## Max. TPG-value:		-		-	17	3	-
+ Coef. of var.:		13	35+++	2	8	194	1
No. of entries:	36	10	36	32	36	36	36

* Seeded May 13, 2006 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, 20% or less is best for yield.

++ Lsd value is not reported because Coef. of Variation value exceeds 20%.

+++ The high level of experimental error in this test indicates caution should be exercised when using the results of this test to determine the top performance group for yield or for determining if two hybrids differ in yield.

Table 2a. Early maturity Non-Roundup Ready™ corn hybrid test trial results, Northeast Research Farm, South Shore, SD, 2005–2006.

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel. Mat.	Hybrid performance variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
TWO-YEAR ENTRIES:							
WENSMAN/ W 5212BT	95	119	75	57	16	0	99
DAIRYLAND/ STEALTH-5194	94	118	77	57	17	1	100
GOLD COUNTRY/ 94-01CB	94	115	67	56	18	2	100
KRUGER/ 9496YGCB	95	113	61	57	16	1	99
KRUGER/ EXP0692	92	109	60	59	15	1	99
SEEDS 2000/ 2953BT	95	108	51	56	18	0	98
ONE-YEAR ENTRIES:							
KRUGER/ EXP5593BTLL	93		72	58	16	0	100
WENSMAN/ W4190	90		71	56	14	1	100
KRUGER/ EXP5693YGCB	93		55	56	16	1	99
KRUGER/ EXP5494BTLL	94		45	55	17	1	100
KRUGER/ EXP0191	91		39	57	19	1	100
KRUGER/ EXP5596BTLL	95		34	58	18	0	100
KRUGER/ EXP0192	92		29	53	17	0	100
GOLD COUNTRY/ 95-03CB	95		21		17	1	100
Trial avg.:	93	114	54	57	17	1	100
Highest (H)-avg.:	95	119	77	59	19	2	100
Lowest (L)-avg.:	90	108	21	53	14	0	98
H-L avg. difference:	5	11	56	6	4	2	2
** Lsd (.05):		NS	++	2	-	-	NS
# Min. TPG-value:		108	-	57	-	-	98
## Max. TPG-value:		-	-	-	18	2	
+ Coef. of var.:		18	45+++	2	9	171	1
No. of entries:	14	6	14	13	14	14	14

* Seeded May 5, 2006 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, 20% or less is best for yield.

++ Lsd value is not reported because Coef. of Variation value exceeds 20%.

+++ The high level of experimental error in this test indicates caution should be exercised when using the results of this test to determine the top performance group for yield or for determining if two hybrids differ in yield.

Table 2b. Late maturity Non-Roundup Ready™ corn hybrid test trial results, Northeast Research Farm, South Shore, SD, 2005–2006.

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel. Mat.	Hybrid performance variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
TWO-YEAR ENTRIES:							
KRUGER/ 5504YGCB	103	86	13		18	0	100
KRUGER/ 8602HX	102	86	10		18	1	98
ONE-YEAR ENTRIES:							
RENK/ RK488YGCB	97		97	57	17	0	100
RENK/ RK575YGPL	97		82	54	16	0	100
KRUGER/ EXP5597BTLL	97		70	58	19	1	100
KRUGER/ EXP5497YGCB	97		63	54	17	0	100
KALTENBERG/ K4688BT	96		50	57	17	3	99
KRUGER/ 0603	103		29	54	22	0	99
KRUGER/ EXP8601HX	101		26	54	24	0	100
AGVENTURE/ AV5544CB	98		25	55	22	1	96
KRUGER/ EXP5498YGCB	98		23	51	26	0	99
KRUGER/ EXP0599	99		16		19	0	100
KRUGER/ EXP8502HX	102		10	57	20	0	99
Trial avg.:	99	86	40	55	20	0	99
Highest (H)-avg.:	103	86	97	58	26	3	100
Lowest (L)-avg.:	96	86	10	51	16	0	96
H-L avg. difference:	7	0	87	7	10	3	4
** Lsd (.05):		NS	++	3	2	2	2
# Min. TPG-value:		86	-	56		-	98
## Max. TPG-value:		-	-	-	18	2	-
+ Coef. of var.:		10	58+++	3	6	240	1
No. of entries:	13	2	13	10	13	13	13

* Seeded May 5, 2006 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, 20% or less is best for yield.

++ Lsd value is not reported because Coef. of Variation value exceeds 20%.

+++ The high level of experimental error in this test indicates caution should be exercised when using the results of this test to determine the top performance group for yield or for determining if two hybrids differ in yield.

Table 2c. Early maturity Roundup Ready™ corn hybrid test trial results, Northeast Research Farm, South Shore, SD, 2005–2006.

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
TWO-YEAR ENTRIES:							
INTEGRA/INT 63F90RRYG	91	139	85	58	17	0	98
DEKALB/DKC42-95RR2YGCB	92	138	91	56	17	0	98
WENSMAN/W 6194BTRR	95	134	92	57	16	0	100
KRUGER/9496RR	95	133	80	56	15	0	100
KRUGER/9593RR/YGCB	93	132	81	60	15	0	100
WENSMAN/W 6117BTRR	92	131	79	57	17	0	99
SEEDS 2000/2953RR	95	131	76	57	17	0	98
INTEGRA/INT 6395RR	94	131	74	55	18	2	99
SEEDS 2000/2944RR/BT	94	126	81	58	16	0	96
KRUGER/9392RR/YGCB	92	126	66	57	17	0	100
KALTENBERG/K3919RRBT	92	124	74	57	18	0	100
DEKALB/DKC41-64RR2YGCB	91	124	62	53	23	3	99
WENSMAN/W 6212RR	95	123	64	55	16	0	96
AGVENTURE/AV4883R2RW	94	108	44	56	18	1	96
ONE-YEAR ENTRIES:							
CROWS/ 1699T	94		95	55	17	0	98
WENSMAN/ W 7118BTRWRR	92		88	57	16	0	99
AGVENTURE/ AV4006YPRR	92		84	58	16	0	100
GOLD COUNTRY/ 92-01CBRC	92		83	58	18	0	97
NUTECH/ 9197 RR/YGPL	95		82	58	18	0	99
KRUGER/ 9392TS	92		82	56	17	1	98
MIDWEST/ 69402T	94		82	54	19	1	99
KRUGER/ 1195RR	95		78	56	17	0	100
LEGEND/ LR9391 RRYG+	91		77	55	18	2	100
WILBUR ELLIS/ HB9421R	92		74	57	18	1	99
GOLD COUNTRY/ 93-04CBR	93		74	55	20	1	98
NUTECH/ 5596 RR/YGCB	95		73	56	21	0	97
DEKALB/ DKC44-92 (RR2)	94		71	56	17	0	97
KRUGER/ EXP1190RR	90		69	57	14	0	100
NUTECH/ 3995 RR	94		68	56	18	1	100
LEGEND/ LR9594RB	94		67	56	17	1	97
AGVENTURE/ AV5016R2CB	94		62	56	17	6	99
EPLEY/ E1165RR	95		60	55	17	1	98
WILBUR ELLIS/ HB9451R	95		53	56	18	1	95
KRUGER/ 1587RR	87		52	59	14	0	99
KALTENBERG/ K2405RRBT	81		44	57	14	0	98
KRUGER/ EXP1292RR	92		36	52	16	0	100
KRUGER/ EXP2688RR/YGCB	88		31	55	18	1	100
KRUGER/ 2288RR/YGCB	88		28	55	20	0	98
Trial avg.:	92	129	70	56	17	1	98
Highest (H)-avg.:	95	139	95	60	23	6	100
Lowest (L)-avg.:	81	108	28	52	14	0	95
H-L avg. difference:	14	31	67	7	9	6	5
** Lsd (.05):		NS	++	3	2	2	NS
# Min. TPG-value:		108	-	57	-	-	98
## Max. TPG-value:		-	-	-	16	2	-
+ Coef. of var.:		13	30+++	3	8	209	2
No. of entries:	38	14	38	38	38	38	38

* Seeded May 5, 2006 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, 20% or less is best for yield.

++ Lsd value is not reported because Coef. of Variation value exceeds 20%.

+++ The high level of experimental error in this test indicates caution should be exercised when using the results of this test to determine the top performance group for yield or for determining if two hybrids differ in yield.

Table 2d. Late maturity Roundup Ready™ corn hybrid test trial results, Northeast Research Farm, South Shore, SD, 2005–2006.

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
TWO-YEAR ENTRIES:							
KRUGER/2697RR/YGCB	97	142	105	55	17	1	99
DEKALB/DKC50-20RR2YGCB	100	141	98	56	18	0	100
WENSMAN/W 6266BTRR	97	137	91	57	17	0	100
DEKALB/DKC48-53RR2YGCB	98	130	81	53	17	2	98
KRUGER/ 1500RR	100	130	81	56	16	1	99
NUTECH/NT-5101 RR/YGCB	101	123	65	51	23	2	100
DAIRYLAND/STEALTH-6497	97	121	67	56	14	2	100
KRUGER/6503TS	103	111	62	55	21	0	100
KRUGER/9203RR/YGCB	103	109	41	50	24	0	99
ONE-YEAR ENTRIES:							
MIDWEST/ 69642S	96		108	56	16	0	98
DAIRYLAND/ STEALTH-7196	96		106	56	16	2	97
DEKALB/ DKC46-22RR2YGPL	96		101	59	16	0	97
WENSMAN/ W 6307RR	100		101	55	19	2	99
WENSMAN/ W 7269BTRWRR	97		101	54	16	0	99
SEEDS 2000/ EXP3101RR	101		100	57	17	0	96
CROWS/ 1705S	96		97	56	18	1	98
KRUGER/ EXP1700RR	100		96	56	16	1	99
KRUGER/ EXP1503RR	103		95	53	20	1	97
NUTECH/ 5696 RR/YGCB	96		94	55	15	1	99
MIDWEST/ 4S502	97		92	58	17	0	99
PANNAR/ 5C-760RRCRW+	97		89	54	16	0	97
NUTECH/ 7099 RR/YGRW	98		88	58	18	0	95
CROWS/ 4S502	97		88	57	16	0	100
KRUGER/ 2499RR/YGCB	99		87	57	17	0	98
EPLEY/ E1185RR	97		86	55	15	2	98
WENSMAN/ W 6287RR	98		84	56	17	1	99
INTEGRA/ INT 6698RRYG	97		84	55	16	2	98
KRUGER/ 1500RR	100		81	56	16	1	99
EPLEY/ E1195RR	98		79	58	17	0	99
LEGEND/ LR9396RRCR	96		78	56	16	3	100
WILBUR ELLIS/ HB9482RB	98		76	53	17	0	99
GOLD COUNTRY/ 98-10CBR	98		73	56	18	0	97
EPLEY/ E12R24YGPL	100		69	53	22	0	100
DAIRYLAND/ STEALTH-7201	100		66	55	22	0	99
NUTECH/ 9002 RR/YGPL	100		62	54	25	1	99
RENK/ RK488RRYGPL	97		61	58	18	1	99
NUTECH/ 3301 RR	100		60	50	22	0	97
INTEGRA/ INT 6602RRYG	100		59	52	22	0	99
NUTECH/ 9101 RR/YGPL	100		58	53	23	1	99

Table 2d. Late maturity Roundup Ready™ corn hybrid test trial results, Northeast Research Farm, South Shore, SD, 2005–2006 (continued).

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
EPLEY/ E12R45YGCB	102		58	50	24	0	98
PANNAR/ 5E-900RRBT	97		56	51	25	0	99
KRUGER/ 1603RR	103		54	56	20	0	99
KRUGER/ EXP2301RR/YGCB	103		48	50	27	1	100
KRUGER/ 6603TS	103		39	50	26	1	100
PANNAR/ 5E-850RRBT	96		34	54	25	1	99
EPLEY/ E1445RR	104		29	55	22	0	100
Trial avg.:	99	127	77	55	19	1	99
Highest (H)-avg.:	104	142	108	59	27	3	100
Lowest (L)-avg.:	96	109	29	50	14	0	95
H-L avg. difference:	8	33	79	9	12	3	5
** Lsd (.05):		NS	++	2	3	NS	NS
# Min. TPG-value:		109		57	-	-	95
## Max. TPG-value:		-		-	17	3	-
+ Coef. of var.:		18	39+++	2	9	201	2
No. of entries:	45	9	45	45	45	45	45

* Seeded May 5, 2006 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, 20% or less is best for yield.

++ Lsd value is not reported because Coef. of Variation value exceeds 20%.

+++ The high level of experimental error in this test indicates caution should be exercised when using the results of this test to determine the top performance group for yield or for determining if two hybrids differ in yield.

Table 3a. Early maturity Non-Roundup Ready™ corn hybrid test trial results, Erland Weerts Farm, Bancroft, SD, 2005–2006.

Brand/Hybrid (By 2-year then '05 yields)	Brand Rel. Mat.	Hybrid performance variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'05 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
TWO-YEAR ENTRIES:							
DAIRYLAND/ STEALTH-5497	98	172	148	59	16	2	98
KRUGER/ 9496YGCB	95	172	147	59	16	3	97
SEEDS 2000/ 2953BT	95	168	145	59	16	0	100
WENSMAN/ W 5212BT	95	167	143	59	16	1	97
EPLEY/ E1407HXLL	100	166	139	58	21	5	97
EPLEY/ E1157	96	165	124	58	20	6	95
ONE-YEAR ENTRIES:							
AGVENTURE/ AV5544CB	98		160	61	18	4	96
FARM ADVANTAGE/ 9699L	99		159	59	20	2	100
KRUGER/ EXP5597BTLL	97		153	58	16	1	99
RENK/ RK575YGPL	97		147	57	16	0	100
KRUGER/ EXP5498YGCB	98		145	60	20	0	98
RENK/ RK488YGCB	97		143	59	16	3	100
EPLEY/ E1231	100		143	59	19	5	99
KRUGER/ EXP5497YGCB	97		136	58	16	0	99
KRUGER/ EXP0599	99		130	58	20	3	98
Trial avg.:	97	168	144	59	18	2	98
Highest (H)-avg.:	100	172	160	61	21	6	100
Lowest (L)-avg.:	95	165	124	57	16	0	95
H-L avg. difference:	5	7	36	4	5	6	5
** Lsd (.05):		NS	24	2	1	4	NS
# Min. TPG-value:		165	136	59	-		95
## Max. TPG-value:		-	-	-	17	4	-
+ Coef. of var.:		6	10	2	4	105	3
No. of entries:	15	6	15	15	15	15	15

* Seeded May 12, 2006 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, 20% or less is best for yield.

Table 3b. Late maturity Non-Roundup Ready™ corn hybrid test trial results, Erland Weerts Farm, Bancroft, SD, 2005–2006.

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel. Mat.	Hybrid performance variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
TWO-YEAR ENTRIES:							
EPLEY/ E1430YGCB	103	182	157	57	25	12	96
KRUGER/ 5505YGCB	105	177	160	59	22	3	100
DAIRYLAND/ STEALTH-5201	101	171	135	59	19	4	99
KRUGER/ 5504YGCB	103	167	138	57	20	16	100
KRUGER/ 8602HX	102	166	142	57	21	5	98
ONE-YEAR ENTRIES:							
KRUGER/ 0603	103		161	56	24	14	99
KRUGER/ EXP8204HX	105		151	57	22	6	94
KRUGER/ EXP0605B	105		143	56	22	9	99
DAIRYLAND/ STEALTH-5204	104		141	57	20	10	99
KRUGER/ EXP0404	104		133	57	19	3	97
KRUGER/ EXP8605HX	105		128	56	24	5	99
EPLEY/ E2407HXLL	108		78	51	27	7	97
Trial avg.:	104	173	139	57	22	8	98
Highest (H)-avg.:	108	182	161	59	27	16	100
Lowest (L)-avg.:	101	166	78	51	19	3	94
H-L avg. difference:	7	16	83	8	7	13	6
** Lsd (.05):		NS	25	2	2	NS	2
# Min. TPG-value:		166	136	57	-	-	NS
## Max. TPG-value:		-	-	-	21	16	-
+ Coef. of var.:		8	11	2	4	84	2
No. of entries:	12	5	12	12	12	12	12

* Seeded May 12, 2006 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, 20% or less is best for yield.

Table 3c. Early maturity Roundup Ready™ corn hybrid test trial results, Erland Weerts Farm, Bancroft, SD, 2005–2006.

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
TWO-YEAR ENTRIES:							
DEKALB/DKC50-20RR2YGCB	100	195	169	59	16	3	99
WENSMAN/W 6266BTRR	96	189	164	60	17	0	98
INTEGRA/INT 6395RR	94	183	158	59	17	2	99
WENSMAN/W 6194BTRR	93	181	164	58	16	1	96
KRUGER/2697RR/YGCB	97	178	155	59	16	0	100
DEKALB/DKC48-53RR2YGCB	98	178	154	58	16	1	97
INTEGRA/INT 63F90RRYG	90	173	154	59	16	1	98
KRUGER/ 1500RR	100	172	145	59	16	1	100
WENSMAN/W 6212RR	90	169	142	58	16	1	98
KRUGER/9496RR	94	165	137	58	16	1	99
INTEGRA/INT 6602RRYG	100	164	140	57	18	1	91
EPLEY/E1165RR	95	160	134	58	16	3	100
ONE-YEAR ENTRIES:							
WENSMAN/ W 6307RR	100		172	57	17	2	98
DEKALB/ DKC50-48RR2YGCB	100		171	57	20	2	95
KRUGER/ EXP1700RR	100		171	60	16	2	97
CROWS/ 4S502	97		170	59	16	0	97
MIDWEST/ 4S502	97		168	59	17	1	97
KRUGER/ 2499RR/YGCB	99		167	59	17	0	97
INTEGRA/ INT 6698RRYG	97		167	58	16	3	96
EPLEY/ E12R24YGPL	100		165	58	17	2	100
NUTECH/ 7099 RR/YGRW	98		164	60	17	0	99
KRUGER/ 1195RR	95		164	59	16	2	100
NUTECH/ 5596 RR/YGCB	95		163	59	16	0	96
GOLD COUNTRY/ 98-10CBR	98		163	59	16	0	96
INTEGRA/ INT 6799RRYG	99		163	57	16	0	99
NUTECH/ 3301 RR	100		158	56	17	1	90
DAIRYLAND/ STEALTH-7196	96		156	58	16	1	91
EPLEY/ E1185RR	97		147	58	15	3	96
WENSMAN/ W 7269BTRWRR	97		147	58	16	1	99
WENSMAN/ W 6287RR	98		146	59	16	1	98
WILBUR ELLIS/ HB9451R	95		142	58	17	5	95
RENK/ RK488RRYGPL	97		141	59	17	2	99
NUTECH/ 9101 RR/YGPL	100		139	57	18	0	99
WILBUR ELLIS/ HB9482RB	98		134	57	16	1	94
GOLD COUNTRY/ 100-05CBR	100		133	59	19	1	99
NUTECH/ 9002 RR/YGPL	100		129	59	20	2	98
EPLEY/ E1195RR	98		124	59	17	6	98
Trial avg.:	97	176	154	58	17	1	97
Highest (H)-avg.:	100	195	172	60	20	6	100
Lowest (L)-avg.:	90	160	124	56	15	0	90
H-L avg. difference:	10	35	48	4	5	6	10
** Lsd (.05):		11	26	2	1	3	4
# Min. TPG-value:		184	146	58	-	-	96
## Max. TPG-value:		-	-	-	16	3	-
+ Coef. of var.:		8	10	2	4	142	3
No. of entries:	37	12	37	37	37	37	37

* Seeded May 12, 2006 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, 20% or less is best for yield.

Table 3d. Late maturity Roundup Ready™ corn hybrid test trial results, Erland Weerts Farm, Bancroft, SD, 2005–2006.

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
TWO-YEAR ENTRIES:							
NUTECH/NT-5005 RR/YGCB	105	186	169	56	22	2	99
KRUGER/9203RR/YGCB	103	186	162	57	17	0	98
WENSMAN/W 6318BTRR	103	185	171	56	22	0	92
WENSMAN/W 6315BTRR	101	185	169	57	17	1	97
DEKALB/DKC52-47RR2YGCB	102	184	164	58	17	1	96
KRUGER/ 2506RR/YGCB	106	182	170	56	23	14	100
SEEDS 2000/3122RR/BT	102	181	163	56	18	4	96
KRUGER/6503TS	103	181	151	59	18	1	98
NUTECH/NT-5101 RR/YGCB	101	180	150	57	17	1	98
EPLEY/E12R45YGCB	102	177	161	57	18	3	97
INTEGRA/INT 6603RRYG	103	175	141	59	17	0	97
ONE-YEAR ENTRIES:							
DEKALB/ DKC52-63RR2YGCB	102		175	57	18	0	95
NUTECH/ 5006A RR/YGCB	105		170	57	23	10	100
NUTECH/ 9003 RR/YGPL	102		167	59	19	0	99
KRUGER/ 1606RR	106		167	55	21	3	97
KRUGER/ 6603TS	103		164	56	22	0	100
KRUGER/ EXP1503RR	103		162	56	17	1	87
NUTECH/ 5507 RR/YGCB	105		161	54	24	0	95
NUTECH/ 3307 RR	106		161	58	19	8	100
PANNAR/ 7A-560RRBT	104		160	55	21	0	100
WENSMAN/ W 7316BTRWRR	101		160	58	17	0	99
KRUGER/ 1603RR	103		156	57	22	3	99
WILBUR ELLIS/ HB9531RB	103		155	59	18	1	100
PANNAR/ 6C-330RRCRW+	102		155	60	17	1	97
NUTECH/ 9507 RR/YGPL	105		153	55	23	1	100
RENK/ RK772RRYGPL	103		153	58	17	0	99
NUTECH/ 9006 RR/YGPL	105		151	57	22	5	99
KRUGER/ EXP2301RR/YGCB	103		151	58	20	1	98
WENSMAN/ W 6374BTRR	105		151	57	18	3	93
KRUGER/ EXP2105RR/YGCB	105		150	54	22	6	94
GOLD COUNTRY/ 102-04CBR	102		150	58	21	0	95
RENK/ RK632RRYGPL	102		147	60	18	0	98
EPLEY/ E2435RRRW	108		144	57	18	1	97
PANNAR/ 8A-180RRBT	107		131	51	28	11	95
NUTECH/ 9903 RR/YGPL	103		130	58	21	5	92
EPLEY/ E1445RR	104		128	57	23	4	99
Trial avg.:	104	182	156	57	20	2	97
Highest (H)-avg.:	108	186	175	60	28	14	100
Lowest (L)-avg.:	101	175	128	51	17	0	87
H-L avg. difference:	7	11	47	8	11	14	13
** Lsd (.05):		NS	19	1	2	4	4
# Min. TPG-value:		175	156	59	-	-	96
## Max. TPG-value:		-	-	-	19	4	-
+ Coef. of var.:		7	8	1	5	111	3
No. of entries:	36	11	36	36	36	36	36

* Seeded May 12, 2006 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, 20% or less is best for yield.

Table 4a. Early maturity Non-Roundup Ready™ corn hybrid test trial results, SDSU Plant Science Research Farm, Brookings, SD, 2005–2006.

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel. Mat.	Hybrid performance variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
TWO-YEAR ENTRIES:							
GOLD COUNTRY/ 94-01CB	94	212	184	56	17	1	100
KRUGER/ 9496YGCB	95	205	177	56	17	0	100
SEEDS 2000/ 2953BT	95	205	172	56	18	1	100
EPLEY/ E1407HXLL	100	201	168	53	23	0	100
WENSMAN/ W 5212BT	95	199	172	55	18	1	100
ONE-YEAR ENTRIES:							
RENK/ RK488YGCB	97		187	57	17	0	100
KRUGER/ EXP5597BTLL	97		182	56	19	1	100
FARM ADVANTAGE/ 9699L	99		179	56	22	1	100
KALTENBERG/ K4688BT	96		174	56	18	0	100
RENK/ RK575YGPL	97		163	54	18	1	100
GOLD COUNTRY/ 95-03CB	95		161	56	21	1	100
KRUGER/ EXP5498YGCB	98		160	55	23	0	100
EPLEY/ E1231	100		158	57	19	1	100
KRUGER/ EXP0599	99		143	55	21	1	100
KRUGER/ EXP5497YGCB	97		141	52	21	0	100
Trial avg.:	97	204	168	55	19	1	100
Highest (H)-avg.:	100	212	187	57	23	1	100
Lowest (L)-avg.:	94	199	141	52	17	0	100
H-L avg. difference:	6	13	46	4	7	1	1
** Lsd (.05):		NS	24	2	2	NS	NS
# Min. TPG-value:		199	163	55	-	-	100
## Max. TPG-value:		-	-	-	19	2	-
+ Coef. of var.:		4	9	2	5	193	0
No. of entries:	15	5	15	15	15	15	15

* Seeded May 19, 2006 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, 20% or less is best for yield.

Table 4b. Late maturity Non-Roundup Ready™ corn hybrid test trial results, SDSU Plant Science Research Farm, Brookings, SD, 2005–2006.

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel. Mat.	Hybrid performance variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
TWO-YEAR ENTRIES:							
EPLYE/ E1430YGCB	103	225	200	57	23	1	99
KRUGER/ 5505YGCB	105	216	206	57	22	0	100
KRUGER/ 8602HX	102	214	187	55	21	2	100
DAIRYLAND/ STEALTH-5201	101	211	185	56	20	2	100
KRUGER/ 5504YGCB	103	210	183	55	23	0	99
DAIRYLAND/ STEALTH-5204	104	209	182	53	23	0	97
KRUGER/ 0603	103	199	170	55	23	3	100
KRUGER/ EXP0605B	105	190	142	54	24	2	97
KRUGER/ EXP8605HX	105	188	162	56	24	0	90
ONE-YEAR ENTRIES:							
KRUGER/ EXP8204HX	105		185	56	23	0	94
KRUGER/ EXP8502HX	102		184	55	19	2	100
KRUGER/ EXP8601HX	101		181	56	21	0	100
EPLYE/ E2492YGPL	110		179	55	22	0	100
KRUGER/ EXP0404	104		164	55	22	1	100
EPLYE/ E2407HXLL	108		148	52	26	0	99
Trial avg.:	104	207	177	55	22	1	98
Highest (H)-avg.:	110	225	206	57	26	3	100
Lowest (L)-avg.:	101	188	142	52	19	0	90
H-L avg. difference:	9	37	64	6	7	3	10
** Lsd (.05):		31	29	2	2	NS	4
# Min. TPG-value:		194	177	55	-	-	96
## Max. TPG-value:		-	-		21	3	-
+ Coef. of var.:		7	10	2	5	196	2
No. of entries:	15	9	15	15	15	15	15

* Seeded May 19, 2006 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, 20% or less is best for yield.

Table 4c. Early maturity Roundup Ready™ corn hybrid test trial results, SDSU Plant Science Research Farm, Brookings, SD, 2005–2006.

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
TWO-YEAR ENTRIES:							
KRUGER/2697RR/YGCB	97	207	180	56	16	0	100
DEKALB/DKC50-20RR2YGCB	100	207	172	55	20	0	100
WENSMAN/W 6266BTRR	96	203	165	57	18	0	100
INTEGRA/INT 6602RRYG	100	202	166	54	19	1	96
WENSMAN/W 6194BTRR	93	198	177	56	16	0	98
DEKALB/DKC48-53RR2YGCB	98	191	151	54	19	0	97
KRUGER/ 1500RR	100	190	148	54	17	1	100
WENSMAN/W 6212RR	90	187	154	55	15	2	100
SEEDS 2000/2953RR	95	185	149	56	16	1	90
EPLEY/E1165RR	95	182	149	55	16	2	100
KRUGER/9496RR	94	182	148	56	15	3	99
ONE-YEAR ENTRIES:							
EPLEY/ E12R24YGPL	100	.	184	56	18	0	99
INTEGRA/ INT 6799RRYG	99	.	184	55	18	0	99
WILBUR ELLIS/ HB9451R	95	.	183	55	15	2	100
DEKALB/ DKC46-22RR2YGPL	96	.	180	58	16	1	98
DAIRYLAND/ STEALTH-7196	96	.	179	58	16	0	93
RENK/ RK488RRYGPL	97	.	178	55	17	0	96
CROWS/ 4S502	97	.	177	58	18	0	99
NUTECH/ 3301 RR	100	.	176	54	18	1	96
DEKALB/ DKC50-48RR2YGCB	100	.	171	54	24	0	99
MIDWEST/ 4S502	97	.	171	58	18	0	98
NUTECH/ 9101 RR/YGPL	100	.	167	55	19	1	99
LEGEND/ LR9693RRYG+	96	.	167	56	18	0	99
FONTANELLE/ 5K106	100	.	167	57	19	1	100
KRUGER/ 2499RR/YGCB	99	.	165	57	18	0	98
WILBUR ELLIS/ HB9482RB	98	.	162	53	17	1	90
LEGEND/ LR9699RRYG+	99	.	162	57	20	1	99
GOLD COUNTRY/ 100-05CBR	100	.	162	58	20	0	100
INTEGRA/ INT 6698RRYG	97	.	161	53	16	0	99
WENSMAN/ W 6307RR	100	.	158	54	20	1	99
WENSMAN/ W 7269BTRWRR	97	.	158	55	18	1	100
PANNAR/ 5C-760RRCRW+	97	.	156	55	17	0	92
KRUGER/ EXP1700RR	100	.	154	55	19	1	100
GOLD COUNTRY/ 98-10CBR	98	.	153	55	19	0	92
NUTECH/ 9002 RR/YGPL	100	.	151	55	22	0	100
PANNAR/ 5E-900RRBT	97	.	151	52	22	1	98
KRUGER/ 1195RR	95	.	151	55	17	1	99
WENSMAN/ W 6287RR	98	.	150	54	19	1	100
NUTECH/ 5596 RR/YGCB	95	.	147	54	22	0	97
PANNAR/ 5E-850RRBT	96	.	136	53	23	0	100
EPLEY/ E1195RR	98	.	134	57	17	2	93
EPLEY/ E1185RR	97	.	130	52	15	0	98
Trial avg.:	97	194	162	55	18	1	98
Highest (H)-avg.:	100	207	184	58	24	3	100
Lowest (L)-avg.:	90	182	130	52	15	0	90
H-L avg. difference:	10	25	54	6	9	3	10
** Lsd (.05):		17	20	2	2	2	4
# Min. TPG-value:		190	164	56	-	-	96
## Max. TPG-value:		-	-	-	17	2	-
+ Coef. of var.:		5	8	2	6	180	3
No. of entries:	42	11	42	42	42	42	42

* Seeded May 19, 2006 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, 20% or less is best for yield.

Table 4d. Late maturity Roundup Ready™ corn hybrid test trial results, SDSU Plant Science Research Farm, Brookings, SD, 2005–2006.

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
TWO-YEAR ENTRIES:							
DEKALB/DKC52-47RR2YGCB	102	222	203	55	16	0	98
KRUGER/9203RR/YGCB	103	220	206	54	18	1	99
INTEGRA/INT 6603RRYG	103	220	200	57	18	0	100
GOLD COUNTRY/105-04CBR	106	218	197	54	22	0	89
WENSMAN/W 6318BTRR	103	214	203	55	21	0	93
NUTECH/NT-5005 RR/YGCB	105	214	190	55	22	0	98
WENSMAN/W 6315BTRR	101	213	196	54	19	0	96
KRUGER/6503TS	103	211	196	57	17	0	99
NUTECH/NT-5101 RR/YGCB	101	210	190	54	18	0	98
KALTENBERG/K5244RRBT	102	209	198	54	18	0	99
EPLEY/E12R45YGCB	102	208	191	53	19	0	96
KRUGER/ 2506RR/YGCB	106	201	179	53	22	0	98
ONE-YEAR ENTRIES:							
NUTECH/ 5006A RR/YGCB	105		214	56	22	1	98
DEKALB/ DKC52-63RR2YGCB	102		211	55	17	0	98
KRUGER/ EXP2105RR/YGCB	105		207	52	22	0	96
NUTECH/ 9003 RR/YGPL	102		203	56	19	0	98
GOLD COUNTRY/ 106-02CBR	106		201	55	19	0	99
WENSMAN/ W 7316BTRWRR	101		199	55	18	0	97
LEGEND/ LR9501RRY+	101		196	55	17	0	99
SEEDS 2000/ EXP3101RR	101		194	57	17	1	97
INTEGRA/ INT 6506RRYG	105		194	55	20	0	99
PANNAR/ 6C-330RRCRW+	102		193	56	18	0	94
CROWS/ 2121S	101		193	57	21	0	99
KALTENBERG/ K5685RRBT	105		191	56	21	0	92
KRUGER/ EXP1503RR	103		191	55	17	0	98
FONTANELLE/ 5K824	101		191	55	18	0	100
NUTECH/ 5507 RR/YGCB	105		190	55	21	0	98
RENK/ RK772RRYGPL	103		190	56	17	0	97
NUTECH/9903 RR/YGPL	103		189	56	21	0	95
NUTECH/ 3307 RR	106		187	56	20	4	98
WILBUR ELLIS/ HB9531RB	103		187	57	19	0	98
NUTECH/ 9507 RR/YGPL	105		186	55	22	0	99
FARM ADVANTAGE/ 6504	104		186	52	21	0	96
RENK/ RK632RRYGPL	102		183	57	17	0	87
WENSMAN/ W 6374BTRR	105		181	55	20	0	97
KRUGER/ 1606RR	106		180	54	19	0	99
KRUGER/ EXP2301RR/YGCB	103		179	56	19	0	99
PANNAR/ 7A-560RRBT	104		177	52	25	0	100
KRUGER/ 1603RR	103		177	55	20	1	99
MIDWEST/ 70503S	101		177	58	21	1	98
EPLEY/ E1445RR	104		177	56	20	2	99

Table 4d. Late maturity Roundup Ready™ corn hybrid test trial results, SDSU Plant Science Research Farm, Brookings, SD, 2005–2006 (continued).

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
GOLD COUNTRY/ 102-04CBR	102		176	57	20	0	98
KRUGER/ 6603TS	103		175	55	20	2	98
NUTECH/ 9006 RR/YGPL	105		172	56	21	0	98
EPLEY/ E2435RRRW	108		170	54	17	0	89
PANNAR/ 8A-180RRBT	107		147	51	24	1	98
Trial avg.:	103	214	189	55	20	0	97
Highest (H)-avg.:	108	222	214	58	25	4	100
Lowest (L)-avg.:	101	208	147	51	16	0	87
H-L avg. difference:	7	21	67	7	8	4	13
** Lsd (.05):		NS	16	2	1	1	4
# Min. TPG-value:		208	198	56	-	-	96
## Max. TPG-value:		-	-	-	17	1	-
+ Coef. of var.:		4	5	2	4	342	3
No. of entries:	46	12	46	46	46	46	46

* Seeded May 19, 2006 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, 20% or less is best for yield.

Table 5a. Early maturity Non-Roundup Ready™ corn hybrid test trial results, Curtis Sybesma Farm Geddes, SD, 2005–2006.

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel. Mat.	Hybrid performance variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
TWO-YEAR ENTRIES:							
EPLEY/ E1407HXLL	100	112	95	57	21	0	96
DAIRYLAND/ STEALTH-5201	101	105	95	57	20	3	100
DEKALB/ DKC52-45 (YGCB)	102	100	68	57	18	1	99
KRUGER/ 8602HX	102	89	77	57	21	3	98
KRUGER/ 0603	103	88	76	52	25	3	97
KRUGER/ 5505YGCB	105	85	66	56	24	0	96
KRUGER/ EXP0605B	105	85	48	58	21	1	97
KRUGER/ 5504YGCB	103	74	51	54	22	1	99
EPLEY/ E1430YGCB	103	69	25	54	25	0	98
DAIRYLAND/ STEALTH-5204	104	63	22	54	24	1	98
KRUGER/ EXP8605HX	105	61	27	52	25	0	92
ONE-YEAR ENTRIES:							
FARM ADVANTAGE/ 1065	105	92	91	55	18	2	96
EPLEY/ E1157	96	91	70	57	20	3	93
KRUGER/ EXP8204HX	105	88	66	54	22	0	96
KRUGER/ EXP8601HX	101	88	61	56	23	1	100
EPLEY/ E1231	100	88	58	57	20	1	97
KRUGER/ EXP0404	104	88	56	58	19	2	99
DEKALB/ DKC55-12 (YGCB)	105	88	52	57	17	5	99
KRUGER/ EXP8502HX	102	88	45	55	22	3	99
Trial avg.:	103	85	60	56	21	2	97
Highest (H)-avg.:	105	112	95	58	25	5	100
Lowest (L)-avg.:	96	61	22	52	17	0	92
H-L avg. difference:	9	51	73	6	8	5	8
** Lsd (.05):		++	++	2	2	4	NS
# Min. TPG-value:		-	-	56	-	-	92
## Max. TPG-value:		-	-	-	19	4	-
+ Coef. of var.:		24+++	48+++	3	6	167	3
No. of entries:	19	11	19	19	19	19	19

* Seeded May 16, 2006 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, 20% or less is best for yield.

++ Lsd value is not reported because Coef. of Variation value exceeds 20%.

+++ The high level of experimental error in this test indicates caution should be exercised when using the results of this test to determine the top performance group for yield or for determining if two hybrids differ in yield.

Table 5b. Late maturity Non-Roundup Ready™ corn hybrid test trial results, Curtis Sybesma Farm, Geddes, SD, 2005–2006.

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel. Mat.	Hybrid performance variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
TWO-YEAR ENTRIES:							
KRUGER/ EXP0610	110	102	107	54	23	5	96
KRUGER/ 0508	109	99	80	57	19	0	98
DAIRYLAND/ STEALTH-5007	107	97	85	56	20	2	92
KRUGER/ 8609HX	109	96	79	53	24	1	98
KRUGER/ 9111YGCB	111	73	63	56	20	2	98
ONE-YEAR ENTRIES:							
KRUGER/ 5109YGCB	109		134	55	23	2	99
KRUGER/ EXP0408	108		124	54	20	1	96
KRUGER/ EXP5310YGCB	110		117	53	25	5	97
FARM ADVANTAGE/ 5406	106		104	55	21	0	95
KRUGER/ 9310YG+	110		102	54	23	0	95
EPLEY/ E2407HXLL	108		93	53	25	0	94
KRUGER/ 0409	109		89	53	23	0	96
EPLEY/ E2492YGPL	110		76	56	20	0	97
KRUGER/ 5509YGCB	107		61	56	24	2	95
Trial avg.:	109	94	94	55	22	1	96
Highest (H)-avg.:	111	102	134	57	25	5	99
Lowest (L)-avg.:	106	73	61	53	19	0	92
H-L avg. difference:	5	29	73	4	6	5	7
** Lsd (.05):		++	++	NS	2	3	NS
# Min. TPG-value:			-	53	-		92
## Max. TPG-value:		-	-	-	21	3	2
+ Coef. of var.:		27+++	33+++	3	6	116	3
No. of entries:	14	5	14	14	14	14	14

* Seeded May 16, 2006 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, 20% or less is best for yield.

++ Lsd value is not reported because Coef. of Variation value exceeds 20%.

+++ The high level of experimental error in this test indicates caution should be exercised when using the results of this test to determine the top performance group for yield or for determining if two hybrids differ in yield.

Table 5c. Early maturity Roundup Ready™ corn hybrid test trial results, Curtis Sybesma Farm, Geddes, SD, 2005–2006.

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
TWO-YEAR ENTRIES:							
DEKALB/DKC52-47RR2YGCB	102	125	120	58	16	2	97
DEKALB/DKC50-20RR2YGCB	100	115	105	57	18	2	97
KRUGER/6503TS	103	114	96	59	19	3	96
HEINE/H724RR/YGCB	100	110	101	54	22	0	97
KRUGER/ 1500RR	100	110	102	58	16	2	94
WENSMAN/W 6315BTRR	101	110	100	54	21	0	99
KRUGER/9203RR/YGCB	103	108	90	51	23	0	97
INTEGRA/INT 6603RRYG	103	95	98	59	20	0	94
NUTECH/NT-5507 RR/YGCB	105	93	70	50	27	0	98
HEINE/H750RR/YGCB	105	90	77	52	24	1	96
WENSMAN/W 6318BTRR	103	88	73	52	24	0	94
INTEGRA/INT 6506RRYG	105	80	73	52	24	0	97
ONE-YEAR ENTRIES:							
DEKALB/ DKC50-48RR2YGCB	100		124	57	20	1	95
WENSMAN/ W 6307RR	100		124	58	18	3	100
KRUGER/ EXP2105RR/YGCB	105		120	54	19	1	95
NUTECH/ 5101 RR/YGCB	101		115	54	22	0	99
FARM ADVANTAGE/ 6504	104		114	55	20	1	98
WILBUR ELLIS/ HB9531RB	103		113	59	21	0	97
HEINE/ H749RR/YGCB	104		113	54	19	2	96
FONTANELLE/ 5K824	101		112	55	20	0	93
HEINE/ H721RR/YGCB	101		110	58	19	1	94
DEKALB/ DKC51-39RR2YGPL	101		106	58	18	1	98
HEINE/ 729RR/YGCB	102		106	61	15	3	95
INTEGRA/ INT 6602RRYG	100		106	57	19	0	93
WENSMAN/ W 7316BTRWRR	101		105	55	19	1	98
DEKALB/ DKC52-63RR2YGCB	102		104	56	20	6	95
NUTECH/ 9101 RR/YGPL	100		102	54	20	1	96
FONTANELLE/ 5K106	100		102	59	20	2	97
DEKALB/ DKC48-53RR2YGCB	98		101	54	19	2	97
LEGEND/ LR9501RRYG+	101		101	55	19	1	97
LEGEND/ LR9699RRYG+	99		101	59	20	1	96
KRUGER/ 1603RR	103		100	54	24	2	99
KALTENBERG/ K5685RRBT	105		95	56	22	2	98
KRUGER/ 6603TS	103		95	54	24	0	98
GOLD COUNTRY/ 102-04CBR	102		93	58	22	1	93
WENSMAN/ W 6374BTRR	105		92	55	18	3	96

Table 5c. Early maturity Roundup Ready™ corn hybrid test trial results, Curtis Sybesma Farm, Geddes, SD, 2005–2006 (continued).

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
HEINE/ H725/RRYGCB	102		92	57	23	1	96
WENSMAN/ W 7269BTRWRR	97		91	54	18	1	96
MIDWEST/ 70503S	101		88	56	23	0	94
NUTECH/ 5006A RR/YGCB	105		86	55	22	1	98
NUTECH/ 9507 RR/YGPL	105		85	51	26	0	97
WENSMAN/ W 6266BTRR	97		81	57	19	5	95
CROWS/ 2121S	101		75	57	22	0	98
NUTECH/ 9006 RR/YGPL	105		69	54	24	0	94
NUTECH/ 9903 RR/YGPL	103		56	56	20	6	95
Trial avg.:	102	103	97	56	21	1	96
Highest (H)-avg.:	105	125	124	61	27	6	100
Lowest (L)-avg.:	97	80	56	50	15	0	93
H-L avg. difference:	8	45	68	10	12	6	7
** Lsd (.05):		23	++	3	2	3	NS
# Min. TPG-value:		102	-	58	-	-	93
## Max. TPG-value:		-	-	-	17	3	-
+ Coef. of var.:		19	22+++	3	7	154	4
No. of entries:	45	12	45	45	45	45	45

* Seeded May 16, 2006 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, 20% or less is best for yield.

++ Lsd value is not reported because Coef. of Variation value exceeds 20%.

+++ The high level of experimental error in this test indicates caution should be exercised when using the results of this test to determine the top performance group for yield or for determining if two hybrids differ in yield.

Table 5d. Late maturity Roundup Ready™ corn hybrid test trial results, Curtis Sybesma Farm, Geddes, SD, 2005–2006.

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
TWO-YEAR ENTRIES:							
DEKALB/DKC61-72 (RR2)	111	109	107	51	26	1	99
KRUGER/9313RR/YGCB	113	89	72	50	25	1	100
DAIRYLAND/STEALTH-1606	107	86	80	52	20	0	93
GOLD COUNTRY/105-04CBR	106	86	68	52	24	0	98
KRUGER/ 2506RR/YGCB	106	86	77	52	25	1	99
ONE-YEAR ENTRIES:							
NUTECH/ 5210 RR/YGCB	110		125	53	21	7	99
KRUGER/ EXP2511RR/YGCB	111		120	55	23	3	95
WENSMAN/ W7439BTRWRR	110		112	56	23	1	95
KRUGER/ EXP2414RR/YGCB	114		110	54	25	7	95
HEINE/ H796RR	108		109	55	23	6	99
NUTECH/ 7808 RR/YGRW	108		108	54	19	2	95
CROWS/ 4843X	110		104	55	25	6	99
GOLD COUNTRY/ 106-02CBR	106		103	55	20	6	96
KRUGER/ 2613RR/YGCB	113		94	54	21	0	95
KRUGER/ 9310TS	110		94	55	21	0	95
FONTANELLE/ 7K733	111		94	53	25	1	96
DEKALB/ DKC58-19 (RR2)	108		93	53	22	3	99
KRUGER/ 9212TS	112		91	53	23	3	97
KRUGER/ 1606RR	106		90	51	25	0	97
NUTECH/ 9410 RR/YGPL	110		87	52	25	4	96
HEINE/ H785RR	107		85	53	24	2	99
WENSMAN/ W 7423BTRWRR	107		83	52	23	0	96
INTEGRA/ INT 6609RRYG	106		81	55	20	0	98
MIDWEST/ 77124X	110		77	54	25	3	100
NUTECH/ 9908 RR/YGPL	108		75	55	23	1	94
NUTECH/ 7110 RR/YGRW	110		70	50	26	0	97
HEINE/ H851RR/YGCB	112		60	50	27	0	100
HEINE/ H818RR	109		60	54	24	2	95
KRUGER/ 9115TS	115		53	52	25	2	100
KRUGER/ 2509RR/YGCB	107		44	53	21	0	99
WILBUR ELLIS/ HB9601RB	110		37	51	24	3	100
Trial avg.:	109	91	86	53	23	2	97
Highest (H)-avg.:	115	109	125	56	27	7	100
Lowest (L)-avg.:	106	86	37	50	19	0	93
H-L avg. difference:	9	23	88	6	7	7	7
** Lsd (.05):		NS	++	2	1	4	NS
# Min. TPG-value:		86	-	54	-	-	93
## Max. TPG-value:		-	-	-	20	4	-
+ Coef. of var.:		17	23+++	2	4	129	3
No. of entries:	31	5	31	31	31	31	31

* Seeded May 16, 2006 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, 20% or less is best for yield.

Table 6a. Early maturity Non-Roundup Ready™ corn hybrid test trial results, Southeast Experiment Station, Beresford, SD, 2005–2006.

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel. Mat.	Hybrid performance variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
TWO-YEAR ENTRIES:							
HEINE/ H818YGCB	109	206	190	59	17	30	99
KRUGER/ EXP0610	110	185	155	61	16	14	98
KRUGER/ 0508	109	183	172	60	15	3	98
HEINE/ H820YGCB	109	179	154	61	18	20	97
KRUGER/ 8609HX	109	166	129	60	16	7	100
ONE-YEAR ENTRIES:							
KRUGER/ EXP8508HX	108	.	171	60	17	1	98
KRUGER/ EXP5310YGCB	110	.	168	59	18	12	97
MYCOGEN/ 2G677	109	.	168	58	18	1	96
MYCOGEN/ 2R570	104	.	166	59	16	9	100
KRUGER/ EXP0309	109	.	165	58	15	2	98
DEKALB/ DKC55-12 (YGCB)	105	.	164	59	15	11	98
HEINE/ H824YGCB	110	.	164	60	19	2	94
KRUGER/ 0409	109	.	163	59	16	3	99
KRUGER/ 5109YGCB	109	.	162	60	18	17	100
KRUGER/ 9310YG+	110	.	159	61	16	2	100
DAIRYLAND/ STEALTH-1806	106	.	155	60	16	2	96
FARM ADVANTAGE/ 5406	106	.	143	61	16	18	100
KRUGER/ 5509YGCB	107	.	139	62	17	55	99
FARM ADVANTAGE/ 1065	105	.	136	59	15	5	96
Trial avg.:	108	184	159	60	17	11	98
Highest (H)-avg.:	110	206	190	62	19	55	100
Lowest (L)-avg.:	104	166	129	58	15	1	94
H-L avg. difference:	6	40	61	4	4	55	6
** Lsd (.05):		NS	23	2	1	12	3
# Min. TPG-value:		166	167	60	-	-	97
## Max. TPG-value:		-	-	-	16	12	-
+ Coef. of var.:		6	9	2	3	62	2
No. of entries:	19	5	19	19	19	19	19

* Seeded May 8, 2006 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, 20% or less is best for yield.

Table 6b. Late maturity Non-Roundup Ready™ corn hybrid test trial results, Southeast Experiment Station, Beresford, SD, 2005–2006.

Brand/Hybrid (By 2-year then '05 yields)	Brand Rel. Mat.	Hybrid performance variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
TWO-YEAR ENTRIES:							
KRUGER/ 8616HX	116	203	194	59	20	34	99
KRUGER/ 8414HX	114	199	207	58	20	76	100
KRUGER/ 9115YGCB	115	197	194	60	20	2	97
DEKALB/ DKC62-31 (YGCB)	112	197	187	60	20	1	98
KRUGER/ 5416YGCB	115	196	197	60	20	9	97
KRUGER/ 9111YGCB	111	195	190	60	16	2	97
KRUGER/ 9313YGCB	113	193	195	59	19	11	98
KRUGER/ 9212YGCB	112	185	189	59	18	17	95
HEINE/ H851YGCB	112	182	177	60	20	4	97
KRUGER/ 5517YGCB	116	174	170	58	22	40	98
ONE-YEAR ENTRIES:							
MYCOGEN/ 2C727	112		210	59	19	24	96
HEINE/ H822	111		193	60	17	9	88
RENK/ RK888YGCB	112		191	59	19	1	93
KRUGER/ 7613YG+	113		188	60	16	20	96
KRUGER/ 0612	112		187	61	17	15	95
RENK/ RK789YGPL	111		185	61	16	5	97
MYCOGEN/ 2T780	114		180	59	20	56	96
MYCOGEN/ 2K717	113		174	59	19	9	94
HEINE/ H856YGCB	113		173	59	20	10	96
Trial avg.:	113	192	188	59	19	18	96
Highest (H)-avg.:	116	203	210	61	22	76	100
Lowest (L)-avg.:	111	174	170	58	16	1	88
H-L avg. difference:	5	29	40	3	6	75	12
** Lsd (.05):		NS	26	NS	1	17	4
# Min. TPG-value:		174	184	58	-	-	96
## Max. TPG-value:		-	-	-	17	17	-
+ Coef. of var.:		8	8	2	5	58	3
No. of entries:	19	10	19	19	19	19	19

* Seeded May 8, 2006 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, 20% or less is best for yield.

Table 6c. Early maturity Roundup Ready™ corn hybrid test trial results, Southeast Experiment Station, Beresford, SD, 2005–2006.

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
TWO-YEAR ENTRIES:							
DEKALB/DKC52-47RR2YGCB	102	198	188	58	15	1	98
WENSMAN/W 6318BTRR	103	189	196	60	17	1	99
NUTECH/NT-5507 RR/YGCB	105	188	172	59	16	17	97
DEKALB/DKC60-19RR2YGCB	110	187	170	60	18	8	98
DAIRYLAND/STEALTH-1606	107	182	172	59	16	12	98
HEINE/H750RR/YGCB	105	182	166	60	17	3	99
KALTENBERG/K6744RRBT	108	173	160	58	15	7	97
WENSMAN/W 6422BTRR	107	173	152	61	18	7	98
WENSMAN/W 6315BTRR	101	172	153	58	15	1	95
KRUGER/ 2506RR/YGCB	106	171	152	60	19	5	98
ONE-YEAR ENTRIES:							
WENSMAN/ W7439BTRWRR	110	197	203	59	17	1	95
KRUGER/ 6607TS	107	191	193	59	15	1	96
CROWS/ 4843X	110	187	191	60	18	6	91
HEINE/ H785RR	107	187	191	61	17	10	98
NUTECH/ 5210 RR/YGCB	110	187	190	59	17	2	95
MIDWEST/ 77124X	110	187	187	59	18	5	95
NUTECH/ 9410 RR/YGPL	110	187	185	61	19	30	99
HEINE/ H818RR	109	187	184	60	17	31	99
FARM ADVANTAGE/ 6504	104	187	183	61	16	5	99
KRUGER/ 1606RR	106	187	181	58	16	6	98
LEGEND/ LR9708RRYG+	108	187	180	61	16	58	95
WENSMAN/ W 7316BTRWRR	101	187	180	59	15	5	98
NUTECH/ 7808 RR/YGRW	108	187	179	60	16	8	97
KALTENBERG/ K5685RRBT	105	187	179	62	16	0	96
HEINE/ H766RRYGPL	106	187	178	60	16	45	97
NUTECH/ 9006 RR/YGPL	105	187	176	60	16	52	97
NUTECH/ 7110 RR/YGRW	110	187	176	59	18	36	97
INTEGRA/ INT 6710RRYG	110	187	175	59	17	40	96
KRUGER/ 9310TS	110	187	173	60	17	2	97
DEKALB/ DKC58-19 (RR2)	108	187	172	61	16	14	99
GOLD COUNTRY/ 106-02CBR	106	187	172	60	16	1	99
WENSMAN/ W 7423BTRWRR	107	187	171	60	16	2	95
NUTECH/ 5006A RR/YGCB	105	187	168	60	16	55	98
NUTECH/ 9908 RR/YGPL	108	187	168	60	16	3	96
DAIRYLAND/ STEALTH-4006	106	187	167	58	16	5	99
NUTECH/ 9507 RR/YGPL	105	187	167	59	16	1	99
ASGROW/ RX674RR2	109	187	165	59	17	10	98
INTEGRA/ INT 6609RRYG	106	187	165	61	16	44	98
NUTECH/ 9013 RR/YGCB	110	187	163	63	18	14	98
WILBUR ELLIS/ HB9601RB	110	187	162	60	18	29	99

Table 6c. Early maturity Roundup Ready™ corn hybrid test trial results, Southeast Experiment Station, Beresford, SD, 2005–2006 (continued).

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
KRUGER/ 9407TS	107		161	61	16	2	94
HEINE/ H796RR	108		161	61	17	10	98
HEINE/ H724RR/YGCB	102		159	59	15	3	98
WILBUR ELLIS/ HB9531RB	103		157	62	16	4	97
WENSMAN/ W 6374BTRR	105		156	59	15	2	97
HEINE/ H749RR/YGCB	104		147	60	16	29	98
KRUGER/ 2509RR/YGCB	107		140	61	16	68	97
LEGEND/ LR9510RR	110		128	59	19	28	98
Trial avg.:	107	181	171	60	17	15	97
Highest (H)-avg.:	110	198	203	63	19	68	99
Lowest (L)-avg.:	101	172	128	58	15	0	91
H-L avg. difference:	9	26	75	5	5	68	8
** Lsd (.05):		NS	33	2	1	19	NS
# Min. TPG-value:		172	170	61	-	-	91
## Max. TPG-value:			-	-	16	19	-
+ Coef. of var.:		7	12	2	3	79	3
No. of entries:	48	10	48	48	48	48	48

* Seeded May 8, 2006 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, 20% or less is best for yield.

Table 6d. Late maturity Roundup Ready™ corn hybrid test trial results, Southeast Experiment Station, Beresford, SD, 2005–2006.

Brand/Hybrid (By 2-year then '06 yields)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'06 Yield bu/a	'06 Bu.Wt. lb	'06 Grain Moist. %	'06 Lodg- ing %	'06 Pct.* Stand
TWO-YEAR ENTRIES:							
ASGROW/RX715RR2YGCB	111	211	186	60	20	1	94
HEINE/H851RR/YGCB	113	203	192	58	21	11	98
DEKALB/DKC61-72 (RR2)	111	199	182	59	18	3	96
KRUGER/9313RR/YGCB	113	184	195	59	19	4	99
KRUGER/2517RR/YGCB	116	179	176	59	22	34	98
ONE-YEAR ENTRIES:							
MIDWEST/ 77323T	111		213	60	20	9	99
FONTANELLE/ 7K733	111		203	60	19	15	97
KRUGER/ 9212TS	112		200	60	18	11	98
KRUGER/ EXP6611TS	111		199	61	18	36	99
RENK/ RK870RRYGPL	112		195	60	18	13	99
CROWS/ 4982X	112		193	61	19	1	95
CROWS/ 4940T	111		190	60	19	7	98
HEINE/ H851RRYGPL	112		190	60	21	2	93
KRUGER/ EXP2511RR/YGCB	111		189	60	18	1	94
MIDWEST/ 78133X	112		188	61	19	2	97
KRUGER/ EXP6612TS	112		185	61	18	2	94
FONTANELLE/ 8K389	112		183	59	18	18	93
KRUGER/ 9115TS	115		179	60	21	4	98
DEKALB/ DKC61-22 (RR2)	111		174	60	20	4	98
KRUGER/ EXP2414RR/YGCB	114		172	60	19	5	98
KRUGER/ 2613RR/YGCB	113		155	59	16	4	93
Trial avg.:	112	195	188	60	19	9	96
Highest (H)-avg.:	116	211	213	61	22	36	99
Lowest (L)-avg.:	111	179	155	58	16	1	93
H-L avg. difference:	5	32	58	3	6	35	6
** Lsd (.05):		NS	21	1	1	8	NS
# Min. TPG-value:		179	192	60	-	-	93
## Max. TPG-value:		-	-	-	17	8	-
+ Coef. of var.:		5	7	1	3	56	3
No. of entries:	21	5	21	21	21	21	21

* Seeded May 8, 2006 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, 20% or less is best for yield.

Table E. Mailing addresses for seed entries in the 2006 corn hybrid trials by seed brand name.

Seed brand	Mailing address
AgVenture	Keltgen Inc. Seed, 44449 U.S. Hwy 212, Watertown, SD 57201
AgVenture	Scherr's Seed LLC, 13464 335 Ave., Roscoe, SD 57471
Asgrow	Monsanto, 102 W Carol Ave., Cortland, IL 60112
Crows	Crows Hybrid Corn Co., PO Box 157, Kentland, IN 47951
Dairyland	Dairyland Seed, PO Box 958, West Bend, WI 53095
Dekalb	Monsanto, 102 W Carol Ave., Cortland, IL 60112
Epley Bros.	Epley Bros. Hybrids Inc., PO Box 310, Shell Rock, IA 50670
Farm Advantage	Farm Advantage, 1275 Hwy 19, Belmond, IA 50421
Fontanelle	Fontanelle Hybrids, 10981 9th St., Fontanelle, NE 68044
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
Kaltenberg	Kaltenberg Seeds, 5506 State Road 19, Box 278, Waunakee, WI 53597
Kruger	Kruger Seed Co., Box A, Dike, IA 50624
Legend	Legend Seeds, 605 E 21 St., Sioux Falls, SD 57105
Midwest	Midwest Seed Genetics, PO Box 518, Carroll, IA 51401
Mycogen	Mycogen Seeds, 25931 486th Ave., Valley Springs, SD 57065
NuTech	Nutech Seed, LC, 6131 N. Fork Rd., Ames, IA 50010
Pannar	Pannar Seed Inc., 40329 US Hwy 14 E, Huron, SD 57350
Renk	Renk Seed Co., 6809 Wilburn Rd., Sun Prairie, WI 53590
Seeds 2000	Seeds 2000, PO Box 200, Breckenridge, MN 56520
Wensman	Wensman Seed Co., PO Box 190, Wadena, MN 56482
Wilbur Ellis (WECO)	Wilbur Ellis Seed, 3320 Pine Ave, Brookings, SD 57006