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## Corn Hybrid Trial Archive

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## 2003 Precision Planted Performance Trials

# CORN



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\*Roundup Ready is registered by Monsanto.

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# 2003 Precision Planted Corn Performance Trials

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This publication reports the performance of entries in the 2003 South Dakota corn hybrid performance trials for both non-Roundup-Ready and Roundup-Ready hybrids. Information includes both the most recent 2-year and 1-year grain yields in bushels per acre; and 1-year bushel weight, moisture percentages of shelled corn at harvest, acre harvest population, and stalk lodging 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, and seedbed preparation are shown in Table A; cooperators and seeding dates are shown in Table B. Seeding started May 1 and was completed May 13.

## Weather Conditions

Weather data (Table C) for this year's growing season, April-September, was obtained from the 2003 USDA-South Dakota Crop-Weather reports and the South Dakota Automatic Weather Data Network (SD-AWDN). Heat unit or growing degree-day accumulations are reported for the nearest test site, in place of temperatures. Corn hybrids typically express a certain thermal or heat unit requirement from emergence to black-layer formation (physiological maturity). The heat unit totals across test locations varied from a high of 2962 GDD at Armour to a low of 2219 GDD at Brookings. The GGD seasonal accumulations ranged from average at most locations to about 9% above average in the Huron area.

Precipitation accumulation varied greatly across test locations. Seasonal total precipitation from April 1 through the end of September was lowest at Watertown and next lowest at the NE Research Farm (South Shore). On average the seasonal precipitation accumulations were below average at Watertown (5.01 inches), Huron (1.85), and Brookings (1.35); but above average at the SE Research Farm at Centerville (4.3), Armour (3.5), and Aberdeen (1.39). At the Armour test location 8 miles south of Armour, the cooperator indicated the major rainfall

events in the area occurred closer to Armour. Therefore, the rainfall levels reported at the Armour airport were higher than received at the test site south of Armour.

In summary, moisture totals and distribution in 2003 affected Armour, Yale (Huron), and South Shore (NE Research Farm) the most. At the other locations moisture was either plentiful (SE Research Farm at Centerville) or distributed in a timely pattern (Aberdeen and Brookings) that allowed hybrids to perform at higher agronomic levels than at Armour, Yale, or South Shore. The seasonal GDD totals across this region varied only slightly and were probably not a significant factor in test results this year.

The assistance of the following is appreciated: Glenda Piechowski at Brookings, Jim Smolik and Allen Heuer at the NE Research Farm, Todd Bortnem and the Brookings Agronomy Farm staff, and Bob Berg and the SE Research Farm staff; and farmer-cooperators Mark and Cletus Wiechmann (Armour), Kim Tschetter (Yale), and Allen and Inel Ryckman (Warner).

## General Test Procedures

Participating companies pick the test locations where their entries are tested. Entries are placed into "early" or "late" maturity trials. The arbitrary relative maturity breaks between the early and late tests are as follows: 95 days for Warner and South Shore; 100 days for Yale and Brookings; 105 days for Armour; and 110 days for Beresford. A hybrid is assigned to a maturity trial based on its relative maturity rating reported by the participating seed company.

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

may indicate the hybrid is earlier in relative maturity than indicated.

Participating seed companies for 2003 are presented in Table F. A fee was charged for all entries at each location.

## Experimental Procedures

Entries were seeded in three replications with each hybrid randomly located within a replication. Plots consisted of four 30-inch rows that were 20 feet long. A Monosem precision row crop planter was used at all locations. In 2003, this precision planter was calibrated to deliver 29,260 seeds per acre, regardless of seed quality and germination percentage. No seeding rate adjustment was made for low germination. Therefore, the acre harvest population 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 at each test site are outlined in table A. Seedbed preparation was good at all locations. A starter fertilizer of 100 lb/A of 37-18-00 was applied 2 inches below and 2 inches to the side (2 x 2) of the seed row. Force insecticide was applied down the seed tube at label rates for corn rootworm control. In addition, Pounce granular was applied at labeled rates down the whorl with a tractor mounted granular applicator just prior to canopy closure.

The experimental procedures described above apply both to the non-Roundup Ready and the Roundup Ready hybrid corn trials with one exception: Weed control in the Roundup Ready trials consisted of two post emergence applications of Roundup Ultra (32 oz/A): first, when weeds were 2-4 inches tall; and second, when weed growth was again 2-4 inches tall. In non-Roundup Ready test trials, pre-emergence herbicides consisted of Harness Extra (1.0 qt/A) at Warner and Yale, Lasso (2.5 qt/A) at South Shore, Dual at Brookings, and banded Lasso at Armour. Post emergence herbicide applications included Accent/Buctril at Brookings and Armour, and a tank mix of Steadfast (0.75 oz/A)/Callisto (3.0 oz/A) at Beresford, according to label instructions. All rates were applied according to label instructions.

## Measurements of Performance

**Yield.** Yields are an average of three replications and are expressed as bushels per acre, adjusted to 15.5% moisture on a dry-matter basis and a bushel weight of 56 pounds. Hybrids of equal potential may yield differently because of variations in slope, soil fertility, and stand. Statistical tests were conducted to determine whether differences obtained were caused by variations in environment or were true variety differences. In 2003, the coefficient of variation (CV) for yield was within reasonable limits across all locations.

The CV value in a given test trial is a measure of experimental error associated with the test trial. Ideally, this value should not exceed 15%. In cases where the CV value

exceeds 15% it is recommended that the test data be used with caution in making hybrid selection decisions. Experimental error may be the result of several factors including test methods, environmental conditions such as moisture, temperature, or soil variations, or agronomic factors like seeding date, reseeding, or seed quality factors, all of which may or may not be controllable in a given year.

**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 determined by the on-board moisture meter on the combine are checked with a Dickey-John GAC II to verify that the on-board moisture meter is within calibration limits.

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

The LSD values reported in this publication can be used in two ways. In this publication the LSD value is used primarily to identify the top group for current year and 2-year yields, bushel weight, grain moisture at harvest, green snap percentage, and stalk lodging below the ear percentage for each test trial.

For example, at Warner (Table 1) the highest current-year yield was 214 bu/A for Dekalb/DKC44-42. To find whether it is the only top yielding hybrid at Warner, use the LSD value of 15 bu/A at the bottom of the 2003 yield column. For hybrids to be in the top-yield group they must yield 199 bu/A ( $214 - 15 = 199$ ) or higher. Technically, a yield value of 200 bu/A is in the top yield group while a value of 199 bu/A is not in the top yield group. However, all yields and LSD values are rounded to the nearest whole number. We can say 199 bu/A, because of the rounding-off, is the more appropriate minimum value for top yield hybrids at the "early" maturity test at Warner in 2003.

The minimum top-group value is indicated for the 2-year (2002-03) average unless there were no significant yield differences. Top yield hybrids for 2003 are those hybrids that are equal or higher than the minimum top-group value indicated at the bottom of the 2003 yield column. **Where**

**hybrid yield differences are not significant (NS), then, by definition, all hybrids in the test are in the top-yield group for the stated 1- or 2-year period.**

Likewise, the top group for other performance factors like bushel weight, grain moisture at harvest, green snap percentage, and stalk lodging below the ear percentage can be determined.

For example, at Warner the minimum bushel weight value to qualify for the top performance group is 59 lb. Bushel weights of 59 lb or higher are in the top group for bushel weight. Note that yield and bushel weight values needed to qualify for the top group are reported as a minimum top-group value. In contrast, the grain moisture, green snap, and lodging below the ear percentage values needed to qualify for the top group are reported as a maximum top-group value. In other words, yield and bushel weight top-group values must be greater than a certain yield or bushel weight value while grain moisture, green snap, and lodging below ear percentages must be equal to or less than a certain percentage to qualify for the top group, depending on the performance factor being considered.

At Warner (Table 1, top-group values at bottom of table), current-year yield values must equal 199 bu/A or higher, bushel weight must equal 59 lb or higher, grain moisture

must be 14% or lower, green snap must equal 0%, and stalk lodging below the ear must equal 8% or less to be in the top group for these performance factors. **Again, as with hybrid yields, if there are no hybrid differences for a given performance factor, then, by definition, all hybrids in the test are in the top group for that performance factor for the current year.**

In addition, the top-yield group LSD values can also be used to determine whether two hybrids differ in performance.

For example, in the early test at Warner, the LSD value of 15 bu/A can be used to compare the yields of any two hybrids in the early maturity trial. If hybrid A yields 210 bu/A and hybrid B yields 197 bu/A their yield difference is 13 bu/A ( $210 - 197 = 13$ ). In this case the two hybrids do not differ in yield because their yield difference of 13 bu/A is less or equal to the reported LSD value of 15 bu/A. In contrast, if hybrid C yields 190 bu/A, the yield difference between hybrids A and C is 20 bu/A ( $210 - 190 = 20$ ). In this case the yield difference of 20 bu/A is more than the reported LSD value of 15 bu/A, and hybrid A would have a significantly higher yield than hybrid C. Similarly, the LSD values for bushel weight, grain moisture, green snap, and stalk lodging below the ear percentages can be used to determine whether any two hybrids differ in regard to these performance factors.

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## Performance Trial Results: Conventional Hybrids

The performance trial results for two years (2002-03) and one year (2003) are summarized below.

**Note:** Green snap percentage differences among hybrids were nonsignificant (NS) at all locations in 2003.

### **WARNER, Allen and Inel Ryckman Farm:**

**Early Maturity Trial** (Table 1), 17 hybrid entries. Performance data of hybrids at the former Frankfort test site were carried over to this location to obtain 2-year averages. The 2-year yield average was 188 bu/A but yield differences among hybrids were not significant. The 2003 average was 200 bu/A, hybrids had to average 199 bu/A or higher to be in the top-yield group; 11 hybrids qualified for the top-yield group, and hybrids had to differ by 15 bu/A to be significantly different in yield. Bushel weight had to equal 59 lb or higher (11 hybrids), grain moisture had to equal 14% or less (12 hybrids); and stalk lodging below the ear had to equal 8% or less (14 hybrids) to be in the top group for these factors. Hybrid differences for acre harvest population were not significant. The lowest population of 26,281 plants per acre, or 90% of the seeding population, was not significantly different from the highest harvest population of 28,895 plants per acre.

**Late Maturity Trial** (Table 2), 14 hybrid entries. The performance data of hybrids at the former Frankfort test site were carried over to this location to obtain 2-year averages. The 2-year average was 182 bu/A but yield differences among hybrids were not significant because only one hybrid was tested for 2 years. The 2003 average was 189 bu/A, but yield differences among the 14 hybrids tested were not significant. Therefore, the lowest yield of 170 bu/A was the minimum yield value needed to qualify for the top group for yield in 2003. Bushel weight had to equal 58 lb or higher (8 hybrids), grain moisture had to equal 16% or less (6 hybrids), and stalk lodging below the ear had to equal 8% or less (13 hybrids) to be in the top group for these factors. The acre harvest population had to equal 26,521 plants per acre, or 91% of the seeding population, to be in the top group (12 hybrids) for harvest population.

### **SOUTH SHORE, NE Research Farm:**

**Early Maturity Trial** (Table 3), 24 hybrid entries. The 2-year yield average was 117 bu/A, but yield differences among hybrids were not significant. The 2003 average was 78 bu/A, but yield differences among the 24 hybrids tested were not significant. Therefore, the lowest yield of 71 bu/A was the minimum yield value needed to qualify for the top

group for yield in 2003. Bushel weight had to equal 59 lb or higher (6 hybrids), grain moisture had to equal 15% or less (2 hybrids), and stalk lodging below the ear had to equal 12% or less (14 hybrids) to be in the top group for these factors. The acre harvest population had to equal 28,137 plants per acre, or 96% of the seeding population, to be in the top group (13 hybrids) for harvest population.

**Late Maturity Trial** (Table 4), 23 hybrid entries. The 2-year average was 108 bu/A but yield differences among hybrids were not significant. The 2003 average was 65 bu/A, hybrids had to average 73 bu/A or higher to be in the top-yield group, 8 hybrids qualified for the top-yield group, and hybrids had to differ by 8 bu/A to be significantly different in yield. Bushel weight had to equal 56 lb or higher (10 hybrids), grain moisture had to equal 17% or less (9 hybrids), and stalk lodging below the ear had to equal 17% or less (17 hybrids) to be in the top group for these factors. The acre harvest population had to equal 27,565 plants per acre, or 94% of the seeding population, to be in the top group (16 hybrids) for harvest population.

**YALE, NO-TILL TRIAL, Kim Tschetter Farm:**

**Early Maturity Trial** (Table 5), 23 hybrid entries. This was the first year of testing at this location; therefore, there are no 2-year averages. The 2003 average was 87 bu/A, hybrids had to average 94 bu/A or higher to be in the top-yield group, 10 hybrids qualified for the top-yield group, and hybrids had to differ by 11 bu/A to be significantly different in yield. Bushel weight had to equal 57 lb or higher (6 hybrids), grain moisture had to equal 12% or less (18 hybrids), and stalk lodging below the ear had to equal 5% or less (22 hybrids) to be in the top group for these factors. The acre harvest population had to equal 26,206 plants per acre, or 90% of the seeding population, to be in the top group (14 hybrids) for harvest population.

**Late Maturity Trial** (Table 6), 18 hybrid entries. This was the first year of testing at this location; therefore, there are no 2-year averages. The 2003 average was 77 bu/A, hybrids had to average 79 bu/A or higher to be in the top-yield group, 6 hybrids qualified for the top-yield group, and hybrids had to differ by 13 bu/A to be significantly different in yield. Bushel weight had to equal 58 lb or higher (7 hybrids), grain moisture had to equal 12% or less (9 hybrids), and stalk lodging below the ear had to equal 2% or less (10 hybrids) to be in the top group for these factors. Hybrid differences for acre harvest population were not significant. The lowest population of 25,410 plants per acre, or 87% of the seeding population, was not significantly different from the highest harvest population of 28,605 plants per acre.

**BROOKINGS, SDSU Agronomy Farm:**

**Early Maturity Trial** (Table 7), 31 hybrid entries. The 2-year average was 155 bu/A and hybrid yield differences were not significant. The 2003 average was 174 bu/A, hybrids had

to average 179 bu/A or higher to be in the top-yield group, 11 hybrids qualified for the top-yield group, and hybrids had to differ by 10 bu/A to be significantly different in yield. Bushel weight had to equal 59 lb or higher (6 hybrids), grain moisture had to equal 15% or less (26 hybrids), and stalk lodging below the ear had to equal 2% or less (31 hybrids) to be in the top group for these factors. Hybrid differences for acre harvest population were not significant. The lowest population of 26,572 plants per acre, or 91% of the seeding population, was not significantly different from the highest harvest population of 28,895 plants per acre.

**Late Maturity Trial** (Table 8), 33 hybrid entries. The 2-year average was 157 bu/A but hybrid yield differences were not significant. The 2003 average was 172 bu/A, hybrids had to average 175 bu/A or higher to be in the top-yield group, 15 hybrids qualified for the top-yield group, and hybrids had to differ by 15 bu/A to be significantly different in yield. Bushel weight had to equal 57 lb or higher (16 hybrids), and grain moisture had to equal 16% or less (10 hybrids) to be in the top group for these factors. Stalk lodging was nonsignificant. Hybrid differences for acre harvest population were not significant. The lowest population of 27,588 plants per acre, or 94% of the seeding population, was not significantly different from the highest harvest population of 29,040 plants per acre.

**ARMOUR, NO-TILL TRIAL, Mark and Cletus Wiechmann Farms:**

**Early Maturity Trial** (Table 9), 16 hybrid entries. A 2-year average was not reported this year because the coefficient of variation or level of experimental error in the 2002 data was extremely high. The 2003 average was 77 bu/A, hybrids had to average 82 bu/A or higher to be in the top-yield group, 5 hybrids qualified for the top-yield group, and hybrids had to differ by 10 bu/A to be significantly different in yield. Bushel weight had to equal 52 lb or higher (11 hybrids), grain moisture had to equal 12% or less (4 hybrids), and stalk lodging below the ear had to equal 7% or less (15 hybrids) to be in the top group for these factors. Hybrid differences for acre harvest population were not significant. The lowest population of 23,377 plants per acre, or 80% of the seeding population, was not significantly different from the highest harvest population of 26,862 plants per acre.

**Late Maturity Trial** (Table 10), 22 hybrid entries. A 2-year average was not reported this year because the coefficient of variation or level of experimental error in the 2002 data was extremely high. The 2003 average was 74 bu/A, hybrids had to average 75 bu/A or higher to be in the top-yield group, 14 hybrids qualified for the top-yield group, and hybrids had to differ by 16 bu/A to be significantly different in yield. Bushel weight had to equal 53 lb or higher (16 hybrids) and grain moisture had to equal 14% or less (19 hybrids) to be in the top group for these factors. Stalk lodging below the ear was not significant for the 22 hybrids



tested. Likewise, hybrid differences for acre harvest population were not significant. The lowest population of 21,780 plants per acre, or 74% of the seeding population, was not significantly different from the highest harvest population of 27,588 plants per acre.

#### **BERESFORD, SE Research Farm:**

**Early Maturity Trial** (Table 11), 42 hybrid entries. The 2-year average was 171 bu/A, but hybrid yield differences were not significant. The 2003 average was 172 bu/A, hybrids had to average 178 bu/A or higher to be in the top-yield group, 14 hybrids qualified for the top-yield group, and hybrids had to differ by 17 bu/A to be significantly different in yield. In addition, bushel weight had to equal 59 lb or higher (13 hybrids), grain moisture had to equal 14% or less (6 hybrids), and stalk lodging below the ear had to equal 2% or less (42 hybrids) to be in the top group for these factors. Hybrid differences for acre harvest population were

not significant. The lowest population of 24,248 plants per acre, or 83% of the seeding population, was not significantly different from the highest harvest population of 29,040 plants per acre.

**Late Maturity Trial** (Table 12), 24 hybrid entries. The 2-year average was 172 bu/A, but yield differences among the hybrids tested were not significant. The 2003 average was 165 bu/A, but again the yield differences among the hybrids tested were not significant. Bushel weight had to equal 59 lb or higher (5 hybrids), grain moisture had to equal 17% or less (10 hybrids), and stalk lodging below the ear had to equal 1% or less (24 hybrids) to be in the top group for these factors. The acre harvest population had to equal 27,729 plants per acre, or 95% of the seeding population, to be in the top group (13 hybrids) for harvest population.

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## **Performance Trial Results: Roundup Ready™ Hybrids**

**Note:** Green snap percentage differences among hybrids were nonsignificant (NS) at all locations in 2003.

#### **WARNER, Allen and Inel Ryckman Farm**

##### **Early Maturity Trial (Table 9), 21 hybrid entries.**

**Early Maturity Trial** (Table 13), 28 hybrid entries. This was the first year for this test at Warner; however, the 2002 data from Frankfort was carried over to this location to obtain 2-year averages. The 2-year average was 184 bu/A, hybrids had to average 180 bu/A or higher to be in the top-yield group, 3 hybrids qualified for the top-yield group, and hybrids had to differ by 12 bu/A to be significantly different in yield. The 2003 average was 191 bu/A, hybrids had to average 191 bu/A or higher to be in the top-yield group, 18 hybrids qualified for the top-yield group, and hybrids had to differ by 14 bu/A to be significantly different in yield. Bushel weight had to equal 60 lb or higher (19 hybrids), grain moisture had to equal 14% or less (20 hybrids), and stalk lodging below the ear had to equal 6% or less (22 hybrids) to be in the top group for these factors. The acre harvest population had to equal 26,910 plants per acre, or 92% of the seeding population, to be in the top group (15 hybrids) for harvest population.

**Late Maturity Trial** (Table 14), 8 hybrid entries. This was the first year for this test at Warner; however, the 2002 data from Frankfort was carried over to this location in order to obtain 2-year averages. The 2-year average was 187 bu/A; but only one hybrid was tested for 2 years, hence there was no significant difference among hybrids. The 2003 average was 191 bu/A, hybrids had to average 188 bu/A or higher to be in the top-yield group, 4 hybrids qualified for the top-yield group, and hybrids had to differ by 14 bu/A to be sig-

nificantly different in yield. Bushel weight had to equal 60 lb or higher (one hybrid), grain moisture had to equal 16% or less (2 hybrids), and stalk lodging had to equal 4% or less (5 hybrids) to be in the top group for these factors. Hybrid differences for acre harvest population were not significant. The lowest population of 26,862 plants per acre, or 92% of the seeding population, was not significantly different from the highest harvest population of 28,895 plants per acre.

#### **SOUTH SHORE, NE Research Farm:**

**Early Maturity Trial** (Table 15), 30 hybrid entries. The 2-year average was 116 bu/A, but yield differences among hybrids were not significant. The 2003 average was 78 bu/A, hybrids had to average 77 bu/A or higher to be in the top-yield group, 20 hybrids qualified for the top-yield group, and hybrids had to differ by 11 bu/A to be significantly different in yield. Bushel weight had to equal 57 lb or higher (18 hybrids), grain moisture had to equal 16% or less (26 hybrids), and stalk lodging below the ear had to equal 9% or less (23 hybrids) to be in the top group for these factors. The acre harvest population had to equal 27,404 plants per acre, or 94% of the seeding population, to be in the top group (10 hybrids) for harvest population.

**Late Maturity Trial** (Table 16), 14 hybrid entries. The 2-year average was 104 bu/A but yield differences among hybrids were not significant. The 2003 average was 69 bu/A, hybrids had to average 67 bu/A or higher to be in the top-yield group, 10 hybrids qualified for the top-yield group, and hybrids had to differ by 10 bu/A to be significantly different in yield. Bushel weight had to equal 58 lb or higher (4 hybrids), grain moisture had to equal 18% or less (5 hybrids), and stalk lodging below the ear had to equal

6% or less (10 hybrids) to be in the top group for these factors. The acre harvest population had to equal 26,769 plants per acre, or 91% of the seeding population, to be in the top group (6 hybrids) for harvest population.

**YALE, NO-TILL TRIAL, Kim Tschetter Farm**

**Early Maturity Trial** (Table 17), 21 hybrid entries. This was the first year for this test; hence, no 2-year averages are reported. The 2003 average was 91 bu/A, hybrids had to average 98 bu/A or higher to be in the top-yield group, 9 hybrids qualified for the top-yield group, and hybrids had to differ by 8 bu/A to be significantly different in yield. Bushel weight had to equal 57 lb or higher (8 hybrids), grain moisture had to equal 11% or less (5 hybrids), and stalk lodging below the ear had to equal 2% or less (14 hybrids) to be in the top group for these factors. The acre harvest population had to equal 27,395 plants per acre, or 94% of the seeding population, to be in the top group (14 hybrids) for harvest population.

**Late Maturity Trial** (Table 18), 20 hybrid entries. This was the first year for this test; hence, no 2-year averages are reported. The 2003 average was 80 bu/A, hybrids had to average 90 bu/A or higher to be in the top-yield group, 2 hybrids qualified for the top-yield group, and hybrids had to differ by 10 bu/A to be significantly different in yield. Bushel weight had to equal 55 lb or higher (16 hybrids), grain moisture had to equal 12% or less (10 hybrids), and stalk lodging below the ear had to equal 2% or less (16 hybrids) to be in the top group for these factors. The acre harvest population had to equal 26,165 plants per acre, or 89% of the seeding population, to be in the top group (18 hybrids) for harvest population.

**BROOKINGS, SDSU Agronomy Farm:**

**Early Maturity Trial** (Table 19), 23 hybrid entries. The 2-year average was 172 bu/A, but yield differences among the hybrids tested were not significant. Therefore, all 5 hybrids tested qualified for the top-yield group because their yield differences were not significant. The 2003 average was 181 bu/A, hybrids had to average 185 bu/A or higher to be in the top-yield group, 8 hybrids qualified for the top-yield group, and hybrids had to differ by 13 bu/A to be significantly different in yield. Bushel weight had to equal 59 lb or higher (14 hybrids) and grain moisture had to equal 16% or less (22 hybrids) to be in the top group for these factors. Stalk lodging below the ear was not significant for the 23 hybrids tested. The acre harvest population had to equal 28,392 plants per acre, or 97% of the seeding population, to be in the top group (10 hybrids) for harvest population.

**Late Maturity Trial** (Table 20), 20 hybrid entries. The 2-year average was 163 bu/A, but yield differences among hybrids were not significant because only one hybrid was tested for 2 years. The 2003 average was 166 bu/A, hybrids had to average 168 bu/A or higher to be in the top-yield group,

7 hybrids qualified for the top-yield group, and hybrids had to differ by 15 bu/A to be significantly different in yield. Bushel weight had to equal 59 lb or higher (2 hybrids) and grain moisture had to equal 17% or less (12 hybrids) to be in the top group for these factors. Stalk lodging was non-significant for the 20 hybrids tested. Hybrid differences for acre harvest population were not significant. The lowest population of 25,846 plants per acre, or 88% of the seeding population, was not significantly different from the highest harvest population of 28,604 plants per acre.

**ARMOUR, NO-TILL TRIAL, Mark and Cletus Wiechmann Farms:**

**Early Maturity Trial** (Table 21), 18 hybrid entries. A 2-year average was not reported this year because the coefficient of variation or level of experimental error in the 2002 data was extremely high. The 2003 average was 92 bu/A, hybrids had to average 88 bu/A or higher to be in the top-yield group, 4 hybrids qualified for the top-yield group, and hybrids had to differ by 13 bu/A to be significantly different in yield. In addition, bushel weight had to equal 53 lb or higher (10 hybrids) and grain moisture had to equal 13% or less (10 hybrids) to be in the top group for these factors. Stalk lodging was nonsignificant for the 18 hybrids tested. Hybrid differences for acre harvest population were not significant. The lowest population of 22,506 plants per acre, or 77% of the seeding population, was not significantly different from the highest harvest population of 26,571 plants per acre.

**Late Maturity Trial** (Table 22), 21 hybrid entries. A 2-year average was not reported this year because the coefficient of variation or level of experimental error in the 2002 data was extremely high. The 2003 average was 144 bu/A, hybrids had to average 83 bu/A or higher to be in the top-yield group, 9 hybrids qualified for the top-yield group, and hybrids had to differ by 12 bu/A to be significantly different in yield. Bushel weight had to equal 55 lb or higher (11 hybrids) and grain moisture had to equal 14% or less (16 hybrids) to be in the top group for these factors. Stalk lodging was nonsignificant. Hybrid differences for acre harvest population were not significant. The lowest population of 23,232 plants per acre, or 79% of the seeding population, was not significantly different from the highest harvest population of 26,717 plants per acre.

**BBERESFORD, SE Research Farm:**

**Early Maturity Trial** (Table 23), 20 hybrid entries. The 2-year average was 162 bu/A; but yield differences among the hybrids tested were not significant. Therefore, all 6 hybrids tested qualified for the top-yield group because their yield differences were not significant. The 2003 average was 169 bu/A, hybrids had to average 164 bu/A or higher to be in the top-yield group, 15 hybrids qualified for the top-yield group, and hybrids had to differ by 26 bu/A to be significantly different in yield. Bushel weight had to equal 59 lb or higher (10 hybrids) and grain moisture had to equal 16% or less (13 hybrids) to be in the top group for these factors. Stalk lodging was nonsignificant. The acre

harvest population had to equal 27,291 plants per acre, or 93% of the seeding population, to be in the top group (17 hybrids) for harvest population.

**Late Maturity Trial** (Table 24), 12 hybrid entries. None of the hybrids tested this year were tested last year; hence no 2-year averages are reported. The 2003 average was 163 bu/A, hybrids had to average 161 bu/A or higher to be in the top-yield group, 6 hybrids qualified for the top-yield group, and hybrids had to differ by 18 bu/A to be

significantly different in yield. Bushel weight had to equal 58 lb or higher (10 hybrids) and grain moisture had to equal 17% or less (5 hybrids) to be in the top group for these factors. Stalk lodging was nonsignificant because there was no lodging in this test. Hybrid differences for acre harvest population were not significant. The lowest population of 25,846 plants per acre, or 88% of the seeding population, was not significantly different from the highest harvest population of 27,879 plants per acre.

**Table A. Site Soil classification, percent slope, seedbed, and previous crop.**

Site	Soil type	Seedbed, previous crop
Warner	Great Bend-Putney silt loams, 0-2% sl.	Min-till, s.wheat stubble
South Shore	Brookings sil.cl.loam, 0-3% sl.	Conventional, oat
Yale	Houdek-Prosper loams, 0-2% sl.	No-till, s.wheat stubble
Brookings	Brandt sil. cl., 0-2% sl.	Conventional, soybean
Armour	Highmore silt loam, 0-2% sl.	No-till, soybean stubble
Beresford	Egan-Clarno-Trent complex, 0-2% sl.	Conventional, soybean

**Table B. Year 2003 trial cooperators, locations, and dates seeded.**

Cooperators	Location*	Seeded Date
Allen & Inel Ryckman	Warner	May 1
NE Research Farm	South Shore	May 8
Kim Tschetter	Yale	May 2
SDSU Agronomy Farm	Brookings	May 13
Mark & Cletus Wiechmann	Armour	May 5
SE Research Farm	Beresford	May 5

\* Plots were all seeded at 29,260 seeds per acre.

**Table C. Nearest weather station precipitation and growing degree day (GDD) accumulations for 2003 and their departures from normal (DFN).**

Station	Variable	Data is accumulated from April 1 up to the week ending:					
		27-Apr	1-Jun	29-Jun	27-Jul	31-Aug	28-Sep
Aberdeen Airport	Precip.- in. '03	1.34	4.19	10.76	12.68	14.33	15.59
	DFN*	-0.4	-0.26	3.35	2.74	1.94	1.39
	GDD's '03	89	297	730	1359	2139	2479
	DFN	42	-21	-53	-54	-8	42
NE Res. Farm (S. Shore)	Precip.- in. '03	1.4	5.04	6.22	7.95	9.56	11.23
	DFN	-0.35	0.35	-2.24	-1.67	-4.78	-5.01
	GDD's '03	149	395	775	1315	2004	2309
	DFN	93	33	-13	-40	8	22
Huron Airport	Precip.- in. '03	1.35	4.21	8.39	9.4	11.17	12.77
	DFN	-0.5	-0.86	0.18	-1.3	-1.78	-1.85
	GDD's '03	128	377	841	1548	2438	2842
	DFN	77	43	5	34	148	228
Brookings 2NE	Precip.- in. '03	1.82	4.96	8.26	10.4	13.23	16.68
	DFN	-0.01	-0.17	-0.94	-1.9	-2.24	-1.35
	GDD's '03	85	259	677	1256	1968	2219
	DFN	55	-5	-24	-22	48	42
Centerville 6 SE	Precip.- in. '03	2.03	5.72	10.79	15.87	17.18	23.1
	DFN	0.03	-0.12	0.99	2.96	0.94	4.3
	GDD's '03	135	379	867	1514	2339	2665
	DFN	79	-10	-55	-70	16	11
Armour** Airport	Precip.- in. '03	2.45	6.56	12.13	17.04	18.02	20.43
	DFN	0.38	0.92	1.49	3.48	3.34	3.51
	GDD's '03	147	431	926	1638	2538	2962
	DFN	72	-6	-71	-79	-10	26

\* DFN - how much a variable for year 2003 is greater or less (-) than the long-term average.

\*\* Although the airport received above average rainfall the cooperators at this site indicated rainfall levels were much lower than reported at the airport.

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

**Table D. Conventional non-Roundup Ready entries by brand/hybrid, and yield table number(s).**

Brand / Hybrid	Table No.	Brand / Hybrid	Table No.
AGSOURCE SEEDS/3933BT	5	AGSOURCE SEEDS/5713BT	10,11
AGSOURCE SEEDS/5983BT	10	AGSOURCE SEEDS/4123BT	5,9
AGSOURCE SEEDS/6163BT	10	AGSOURCE SEEDS/4403BT	5
AGSOURCE SEEDS/6183BT	12	AGSOURCE SEEDS/4663BT	6,9
AGSOURCE SEEDS/6203BT	12	AGSOURCE SEEDS/5153BT	6,9
ASGROW/RX702YG	11		
CROW'S/1695 B	1,3	CROW'S/438 B	10,11
CROW'S/1703 B	1,3,5,7	CROW'S/4911 B	10,11
CROW'S/2133	6,8,9	CROW'S/5202 B	12
CROW'S/3520 B	6,8,9	CROW'S/5366 B	12
DAIRYLAND/STEALTH-1497	2,4	DAIRYLAND/STEALTH-5194	1,3
DAIRYLAND/STEALTH-1606	10,11	DAIRYLAND/STEALTH-5497	2,4,5
DAIRYLAND/STEALTH-5104	6,8,9	DAIRYLAND/STEALTH1507BT	10,11
DAIRYLAND/STEALTH-5112	12		
DEKALB/DKC44-42 (YGCB)	1,3,5,7	DEKALB/DKC53-32 (YGCB)	2
DEKALB/DKC48-84 (YGCB)	2,4,7	DEKALB/DKC57-84 (YGCB)	6,10,11
DEKALB/DKC50-18 (YGCB)	2,4,5,7,9	DEKALB/DKC63-79 (YGCB)	12
DEKALB/DKC52-45 (YGCB)	4,6,8,9		
EPLEY/E1150BT	3,7	EPLEY/E2410BT	6,8,11
EPLEY/E1180BT	4,7	EPLEY/E2470	11
EPLEY/E1420BT	4,8,11	EPLEY/E2490BT	11
EPLEY/E1442	6,8,11	EPLEY/E3630BT	12
EPLEY/E1491	4,8	EPLEY/E3641	12
EPLEY/E1493	4,6,8		
GARST/8331YG1	12	GARST/8566YG1	11
GARST/8454YG1	12	GARST/8716	4,7
GARST/8545	11	GARST/8787YG1	4,8
GARST/8552YG1	11		
GOLD COUNTRY/100-01CL	7	GOLD COUNTRY/94-01CB	1,3
GOLD COUNTRY/1016BT	8	GOLD COUNTRY/96-04CB	2,4
GOLD COUNTRY/103-02CB	8		
HEINE/H640YGCB	1,3	HEINE/H810YGCB	11
HEINE/H728YGCB	2,5	HEINE/H824YGCB	12
HEINE/H745YGCB	11	HEINE/H827YGCB	12
HEINE/H763YGCB	11	HEINE/H838YGCB	12
HEINE/H790YGCB	11	HEINE/H851YGCB	12
HEINE/H792YGCB	11		
JACOBSEN/JS4339BT	8,11	JACOBSEN/JS4645BT	10,11
JACOBSEN/JS4440BT	11	JACOBSEN/JS4757BT	10,12
JACOBSEN/JS4637	11		
JUNG/6432BT	3	JUNG/6580BT	8

**Table D. Conventional non-Roundup Ready entry yield table index (continued).**

Brand / Hybrid	Table No.	Brand / Hybrid	Table No.
KALTENBERG/K4688BT	7		
KAYSTAR/KX-766	11	KAYSTAR/KX-890BT	12
KRUGER/EXP105 YGCB	6, 8, 9	KRUGER/K-9305 YGCB	8, 9
KRUGER/EXP112 YGCB	11	KRUGER/K-9306 YGCB	8, 9
KRUGER/EXP116 YGCB	12	KRUGER/K-9308 YGCB	8, 10
KRUGER/EXP412 YGCB	10, 11	KRUGER/K-9309 YGCB	8, 10
KRUGER/EXP413 YGCB	10	KRUGER/K-9392 YGCB	1, 3, 7
KRUGER/K-9002 YGCB	2, 7	KRUGER/K-9396 YGCB	1, 3, 5, 7
KRUGER/K-9002+ YGCB	2, 4, 5, 7	KRUGER/K-9403 YGCB	2, 4, 5, 7, 9
KRUGER/K-9111 YGCB	10, 11	KRUGER/K-9404 YGCB	2, 4, 6, 8, 9
KRUGER/K-9114+ YGCB	12	KRUGER/K-9411 YGCB	10, 11
KRUGER/K-9115 YGCB	12	KRUGER/K-9415	12
KRUGER/K-9203 YGCB	2, 4, 5, 7	KRUGER/K-9492 YGCB	1, 3, 5, 7
KRUGER/K-9206 YGCB	8	KRUGER/K-9496 YGCB	1, 3, 5, 7
KRUGER/K-9208A	8	KRUGER/K-9910 YGCB	8, 10
KRUGER/K-9212 YGCB	12		
MERSCHMAN/M-20108	11	MERSCHMAN/M-9104	11
MERSCHMAN/M-21104	11		
MIDWEST/G 6921 B	1, 3	MIDWEST/G 7622 B	10, 11
MIDWEST/G 6963 B	1, 3, 5, 7	MIDWEST/G 7716 B	10, 11
MIDWEST/G 7188	6, 8, 9	MIDWEST/G 8070 B	12
MIDWEST/G 7494 B	6, 8, 9	MIDWEST/G 8125 B	12
PFISTER/1680	5, 7	PFISTER/EXP 1499BT	5, 7
PFISTER/2656BT	11		
SABRE/3110BT	3	SABRE/4292BT	8
SABRE/3554BT	3, 7	SABRE/4760	11
SABRE/3555CB	3, 7	SABRE/4800BT	11
SABRE/4280BT	8		
SANDS/SOI 103YGCB	4, 8	SANDS/SOI 9102	11
SANDS/SOI 9013	4, 7	SANDS/SOI 9132	12
SANDS/SOI 9041	8	SANDS/SOI 9962	4, 7
SEEDS 2000/2921BT	3	SEEDS 2000/2991	4, 7
SEEDS 2000/2953BT	1, 3, 5, 7	SEEDS 2000/3122BT	2, 6, 8
TOP FARM/EXP 3100C	4	TOP FARM/TFSX 2300	5
TOP FARM/EXP 3101B	8	TOP FARM/TFSX 2301	4, 5
TOP FARM/EXP 3103D	6	TOP FARM/TFSX 2395	7
TOP FARM/EXP 3196	7		
WENSMAN/W 4212	1, 3, 5, 7	WENSMAN/W 5117BT	1, 3, 5, 7
WENSMAN/W 4418	10, 11	WENSMAN/W 5212BT	1, 3, 5, 7
WENSMAN/W 4437	10, 11	WENSMAN/W 5314BT	2, 4, 6, 8, 9
WENSMAN/W 5081BT	1, 3	WENSMAN/W 5417BT	6, 8, 10, 11
WENSMAN/W 5085BT	3	WENSMAN/W 5437BT	11

**Table 1. Warner, non-Roundup Ready, early corn hybrid results, 2002-2003. Allen and Inel Ryckman farm, test relative maturity is 95-day or less.**

Brand / Hybrid	+Rel. Mat.	Yield- bu/a @15.5% mst.		----- 2003 -----			Green snap pct	Lodged below ear pct
		2-yr	2003	Bu. wt. lb	Grain moist. pct	Acre harvest pop.		
----- Entries tested two years -----								
DEKALB/DKC44-42 (YGCB)	94	194	214	57	14	28,314	0	0
WENSMAN/W 5212BT	95	192	203	58	14	27,443	0	4
KRUGER/K-9392 YGCB	89	191	209	59	14	27,297	0	0
SEEDS 2000/2953BT	95	190	196	57	15	27,733	0	11
GOLD COUNTRY/94-01CB	94	187	202	59	14	28,604	0	2
WENSMAN/W 4212	95	181	191	58	15	26,281	0	4
WENSMAN/W 5117BT	92	181	202	59	13	28,459	0	1
----- Entries tested one year -----								
CROW'S/1703 B	95	.	212	59	15	28,895	0	1
MIDWEST/G 6963 B	95	.	210	59	15	28,749	0	1
DAIRYLAND/STEALTH-5194	94	.	205	59	14	28,024	0	2
MIDWEST/G 6921 B	92	.	203	59	14	27,297	0	3
HEINE/H640YGCB	94	.	203	60	15	27,443	0	6
CROW'S/1695 B	92	.	202	58	14	27,443	0	1
KRUGER/K-9496 YGCB	94	.	197	57	14	28,314	0	11
KRUGER/K-9492 YGCB	92	.	196	60	14	27,297	0	1
KRUGER/K-9396 YGCB	92	.	190	60	14	28,459	0	10
WENSMAN/W 5081BT	83	.	179	60	13	27,878	0	1
Test average:		188	200	59	14	27,854	0	4
LSD (5%) values:		NS	15	1	1	NS	.	8
Top group value*- Minimum:		181	199	59		26,281		
Maximum:					14		.	8
No. entries in top group:		7	11	11	12	17	.	14
Coef. of variation#:		4	5	1	5	3	.	.

+ Relative maturity of hybrid as reported by seed company.

\* Value is within one LSD value of the highest yield, bushel weight, or harvest population values; or the lowest grain moisture, green snap or lodging values.

NS indicates values within a column are not significantly different.

# Measure of experimental error: values less than 15% are desired.

**Table 2. Warner, non-Roundup Ready, late corn hybrid results, 2002-2003. Allen and Inel Ryckman farm, test relative maturity is 96-day or more.**

Brand / Hybrid	+Rel. Mat.	Yield- bu/a @15.5% mst.		Bu. wt. lb	Grain moist. pct	Acre harvest pop.	2003	
		2-yr	2003				Green snap pct	Lodged below ear pct
DEKALB/DKC53-32 (YGCB)	103	182	190	57	18	28,169	0	5
HEINE/H728YGCB	100	.	205	57	21	28,459	0	4
SEEDS 2000/3122BT	102	.	202	57	17	28,750	0	4
DEKALB/DKC50-18 (YGCB)	100	.	198	60	17	28,169	0	7
DAIRYLAND/STEALTH-1497	96	.	195	58	14	27,733	0	4
DAIRYLAND/STEALTH-5497	97	.	193	58	14	27,007	0	7
DEKALB/DKC48-84 (YGCB)	98	.	191	60	15	28,604	0	0
KRUGER/K-9203 YGCB	100	.	191	57	17	27,152	0	6
KRUGER/K-9403 YGCB	100	.	190	58	15	26,572	0	15
WENSMAN/W 5314BT	101	.	189	57	16	27,588	0	3
GOLD COUNTRY/96-04CB	96	.	180	58	19	24,103	0	5
KRUGER/K-9002 YGCB	100	.	175	59	15	28,023	0	6
KRUGER/K-9404 YGCB	101	.	174	60	18	26,862	0	1
KRUGER/K-9002+ YGCB	100	.	170	56	21	23,958	0	1
Test average:		182	189	58	17	27,225	0	5
LSD (5%) values:		.	NS	2	2	2,229	.	8
Top group value*- Minimum:		.	170	58		26,521		
Maximum:					16		.	8
No. entries in top group:		.	14	8	6	12	.	13
Coef. of variation#:		.	9	2	7	5	.	.

+ Relative maturity of hybrid as reported by seed company.

\* Value is within one LSD value of the highest yield, bushel weight, or harvest population values; or the lowest grain moisture, green snap or lodging values. NS indicates values within a column are not significantly different.

# Measure of experimental error: values less than 15% are desired.



**Table 3. South Shore, non-Roundup Ready, early corn hybrid results, 2002-2003. NE Research Farm, test relative maturity is 95-day or less.**

Brand / Hybrid	+Rel. Mat.	Yield- bu/a @15.5% mst.		Bu. wt. lb	Grain moist. pct	Acre harvest pop.	2003	
		2-yr	2003				Green snap pct	Lodged below ear pct
----- 2003 -----								
Entries tested two years								
KRUGER/K-9392 YGCB	89	125	95	58	16	28,023	0	4
WENSMAN/W 5212BT	95	125	83	57	16	27,878	0	19
SEEDS 2000/2953BT	95	124	84	57	16	27,443	0	21
WENSMAN/W 4212	95	121	78	58	16	27,733	0	12
DEKALB/DKC44-42 (YGCB	94	120	84	55	16	28,169	0	20
WENSMAN/W 5117BT	92	119	75	59	16	28,314	0	7
GOLD COUNTRY/94-01CB	94	117	73	57	16	28,024	0	20
SABRE/3555CB	95	111	71	58	16	28,750	0	21
KRUGER/K-9396 YGCB	92	95	68	59	17	28,459	0	2
Entries tested one year								
JUNG/6432BT	95	.	87	57	17	28,314	0	21
CROW'S/1703 B	95	.	85	58	16	28,314	0	13
SABRE/3554BT	94	.	83	59	16	28,605	0	4
KRUGER/K-9496 YGCB	94	.	82	58	16	28,169	0	12
SEEDS 2000/2921BT	92	.	81	58	16	26,136	0	7
WENSMAN/W 5085BT	85	.	79	55	14	26,427	0	6
KRUGER/K-9492 YGCB	92	.	78	58	16	27,298	0	6
MIDWEST/G 6963 B	95	.	76	57	16	29,330	0	18
CROW'S/1695 B	92	.	75	58	16	28,750	0	8
MIDWEST/G 6921 B	92	.	75	58	16	27,443	0	9
EPLEY/E1150BT	95	.	74	61	17	29,621	0	5
HEINE/H640YGCB	94	.	73	60	17	28,459	0	3
SABRE/3110BT	91	.	71	60	17	26,427	0	3
WENSMAN/W 5081BT	83	.	71	57	15	29,040	0	15
DAIRYLAND/STEALTH-5194	94	.	71	58	16	27,153	0	14
Test average:		117	78	58	16	28,012	0	11
LSD (5%) values:		NS	NS	2	1	1,484	.	10
Top group value*- Minimum:		95	68	59		28,137		
Maximum:					15		.	12
No. entries in top group:		9	24	6	2	13	.	14
Coef. of variation#:		8	13	2	2	3	.	.

+ Relative maturity of hybrid as reported by seed company.

\* Value is within one LSD value of the highest yield, bushel weight, or harvest population values; or the lowest grain moisture, green snap or lodging values. NS indicates values within a column are not significantly different.

# Measure of experimental error: values less than 15% are desired.

**Table 4. South Shore, non-Roundup Ready, late corn hybrid results, 2002-2003. NE Research Farm, test relative maturity is 96-day or more.**

Brand / Hybrid	+Rel. Mat.	Yield- bu/a @15.5% mst.		----- 2003 -----			Green snap pct	Lodged below ear pct
		2-yr	2003	Bu. wt. lb	Grain moist. pct	Acre harvest pop.		
				Entries tested two years				
DAIRYLAND/STEALTH-1497	96	119	78	55	16	28,024	0	23
SANDS/SOI 9013	100	107	73	54	16	29,330	0	6
SANDS/SOI 9962	96	107	74	55	16	27,878	0	11
EPLEY/E1493	105	97	64	58	29	27,588	0	6
				Entries tested one year				
DEKALB/DKC50-18 (YGCB)	100	.	81	56	19	28,314	0	4
DEKALB/DKC52-45 (YGCB)	102	.	80	56	16	29,185	0	12
DEKALB/DKC48-84 (YGCB)	98	.	79	56	19	28,459	0	6
DAIRYLAND/STEALTH-5497	97	.	74	55	16	26,862	0	14
SEEDS 2000/2991	99	.	73	56	20	27,152	0	45
WENSMAN/W 5314BT	101	.	69	53	19	27,878	0	21
GOLD COUNTRY/96-04CB	96	.	69	58	17	27,007	0	3
GARST/8787YG1	102	.	67	58	18	28,604	0	1
KRUGER/K-9203 YGCB	100	.	66	54	18	28,459	0	13
SANDS/SOI 103YGCB	103	.	65	55	19	29,040	0	4
TOP FARM/TFSX 2301	100	.	64	59	17	24,974	0	3
KRUGER/K-9002+ YGCB	100	.	64	55	23	24,829	0	1
EPLEY/E1180BT	100	.	62	54	25	29,476	0	80
KRUGER/K-9403 YGCB	100	.	61	57	22	25,991	0	6
GARST/8716	100	.	51	52	16	27,733	0	33
TOP FARM/EXP 3100C	96	.	49	55	21	28,459	0	3
EPLEY/E1491	105	.	49	55	26	27,152	0	9
KRUGER/K-9404 YGCB	101	.	47	54	16	28,895	0	6
EPLEY/E1420BT	101	.	45	57	25	28,314	0	24
Test average:		108	65	56	19	27,776	0	15
LSD (5%) values:		NS	8	3	1	1,911	.	16
Top group value*- Minimum:		97	73	56		27,565		
Maximum:					17		.	17
No. entries in top group:		4	8	10	9	16	.	17
Coef. of variation#:		7	7	3	4	4	.	.

+ Relative maturity of hybrid as reported by seed company.

\* Value is within one LSD value of the highest yield, bushel weight, or harvest population values; or the lowest grain moisture, green snap or lodging values. NS indicates values within a column are not significantly different.

# Measure of experimental error: values less than 15% are desired.

**Table 5. Yale, non-Roundup Ready, no-till early corn hybrid results, 2003. Kim Tschetter farm, test relative maturity is 100-day or less.**

Brand / Hybrid	+Rel. Mat.	Yield- bu/a @15.5% mst.		Bu. wt. lb	Grain moist. pct	Acre harvest pop.	2003		
		2-yr	2003				Green snap pct	Lodged below ear pct	
----- 2003 -----									
Entries tested one year									
DEKALB/DKC44-42 (YGCB	94	.	105	53	11	28,169	0	2	
WENSMAN/W 5117BT	92	.	102	55	12	27,152	0	2	
AGSOURCE SEEDS/3933BT	96	.	100	55	12	26,717	0	3	
KRUGER/K-9496 YGCB	94	.	99	54	12	27,298	0	1	
DEKALB/DKC50-18 (YGCB	100	.	99	56	12	27,298	0	0	
SEEDS 2000/2953BT	95	.	98	54	12	25,555	0	1	
KRUGER/K-9492 YGCB	92	.	97	56	12	27,588	0	1	
CROW'S/1703 B	95	.	96	55	12	26,136	0	3	
MIDWEST/G 6963 B	95	.	95	54	12	26,717	0	4	
WENSMAN/W 5212BT	95	.	94	54	12	26,862	0	1	
DAIRYLAND/STEALTH-5497	97	.	91	55	12	25,265	0	1	
WENSMAN/W 4212	95	.	89	54	12	25,410	0	4	
AGSOURCE SEEDS/4123BT	98	.	89	57	13	27,443	0	20	
TOP FARM/TFSX 2300	100	.	84	59	14	25,120	0	1	
HEINE/H728YGCB	100	.	83	56	12	28,459	0	2	
AGSOURCE SEEDS/4403BT	98	.	83	59	13	25,991	0	1	
KRUGER/K-9403 YGCB	100	.	79	55	12	25,555	0	5	
PFISTER/1680	99	.	77	57	13	28,314	0	0	
TOP FARM/TFSX 2301	100	.	74	55	12	27,007	0	0	
PFISTER/EXP 1499BT	98	.	73	57	12	25,700	0	3	
KRUGER/K-9396 YGCB	92	.	71	56	12	26,426	0	4	
KRUGER/K-9002+ YGCB	100	.	66	57	13	24,829	0	0	
KRUGER/K-9203 YGCB	100	.	63	51	11	28,604	0	4	
Test average:	.	.	87	55	12	26,679	0	3	
LSD (5%) values:	.	.	11	2	1	2,398	.	5	
Top group value*- Minimum:	.	.	94	57		26,206			
Maximum:					12		.	5	
No. entries in top group:	.	.	10	6	18	14	.	22	
Coef. of variation#:	.	.	8	2	5	5	.	.	

+ Relative maturity of hybrid as reported by seed company.

\* Value is within one LSD value of the highest yield, bushel weight, or harvest population values; or the lowest grain moisture, green snap or lodging values. NS indicates values within a column are not significantly different.

# Measure of experimental error: values less than 15% are desired.

**Table 6. Yale, non-Roundup Ready, no-till late corn hybrid results, 2003. Kim Tschetter farm, test relative maturity is 101-day or more.**

Brand / Hybrid	+Rel. Mat.	Yield- bu/a @15.5% mst.		----- 2003 -----			Green snap pct	Lodged below ear pct
		2-yr	2003	Bu. wt. lb	Grain moist. pct	Acre harvest pop.		
----- Entries tested one year -----								
DEKALB/DKC52-45 (YGCB	102	.	92	54	11	28,169	0	0
EPLEY/E2410BT	107	.	89	60	13	27,588	0	3
EPLEY/E1442	104	.	85	57	12	28,459	0	2
DAIRYLAND/STEALTH-5104	104	.	85	57	12	28,605	0	2
DEKALB/DKC57-84 (YGCB	107	.	82	57	13	27,878	0	1
EPLEY/E1493	105	.	81	60	13	27,152	0	1
TOP FARM/EXP 3103D	103	.	78	54	11	27,298	0	4
AGSOURCE SEEDS/5153BT	105	.	78	57	12	26,427	0	1
MIDWEST/G 7188	102	.	77	54	11	27,733	0	5
KRUGER/EXP105 YGCB	103	.	76	58	13	28,459	0	3
WENSMAN/W 5417BT	107	.	74	59	14	25,410	0	2
CROW'S/2133	102	.	73	53	11	28,024	0	7
WENSMAN/W 5314BT	101	.	72	53	11	28,169	0	5
CROW'S/3520 B	104	.	71	60	13	28,314	0	0
SEEDS 2000/3122BT	102	.	70	53	11	27,733	0	2
AGSOURCE SEEDS/4663BT	103	.	67	57	13	28,604	0	4
MIDWEST/G 7494 B	103	.	66	59	13	28,314	0	0
KRUGER/K-9404 YGCB	101	.	62	58	13	27,733	0	3
Test average:	.	.	77	57	12	27,782	0	3
LSD (5%) values:	.	.	13	2	1	NS	.	2
Top group value*- Minimum:	.	.	79	58		25,410		
Maximum:					12		.	2
No. entries in top group:	.	.	6	7	9	18	.	10
Coef. of variation#:	.	.	6	2	2	4	.	.

+ Relative maturity of hybrid as reported by seed company.

\* Value is within one LSD value of the highest yield, bushel weight, or harvest population values; or the lowest grain moisture, green snap or lodging values.

NS indicates values within a column are not significantly different.

# Measure of experimental error: values less than 15% are desired.

**Table 7. Brookings, non-Roundup Ready, early corn hybrid results, 2002-2003. SDSU Agronomy Farm, test relative maturity is 100-day or less.**

Brand / Hybrid	+Rel. Mat.	Yield- bu/a @15.5% mst.		----- 2003 -----			Green snap pct	Lodged below ear pct
		2-yr	2003	Bu. wt. lb	Grain moist. pct	Acre harvest pop.		
Entries tested two years								
WENSMAN/W 5212BT	95	174	187	58	15	28,459	0	1
DEKALB/DKC44-42 (YGCB)	94	174	180	57	14	28,169	0	1
SEEDS 2000/2953BT	95	168	178	57	15	27,298	0	1
WENSMAN/W 5117BT	92	166	178	59	14	28,459	0	0
SABRE/3555CB	95	160	184	58	15	28,895	0	0
SANDS/SOI 9962	96	160	177	58	15	27,298	0	0
WENSMAN/W 4212	95	158	170	57	14	27,878	0	1
PFISTER/1680	99	142	183	58	18	28,314	0	1
KRUGER/K-9002 YGCB	100	134	169	58	15	27,588	0	0
SEEDS 2000/2991	99	133	164	56	15	28,459	0	2
GOLD COUNTRY/100-01CL	100	133	152	60	18	27,298	0	0
Entries tested one year								
CROW'S/1703 B	95	.	189	57	15	28,605	0	1
TOP FARM/TFSX 2395	94	.	189	58	15	27,879	0	0
DEKALB/DKC50-18 (YGCB)	100	.	187	58	15	28,895	0	0
KRUGER/K-9496 YGCB	94	.	185	58	15	29,330	0	1
MIDWEST/G 6963 B	95	.	183	58	15	28,604	0	1
DEKALB/DKC48-84 (YGCB)	98	.	180	58	15	28,459	0	1
SABRE/3554BT	94	.	179	59	14	28,459	0	0
KALTENBERG/K4688BT	96	.	176	58	15	27,298	0	2
KRUGER/K-9392 YGCB	89	.	176	58	14	27,878	0	0
KRUGER/K-9492 YGCB	92	.	174	57	14	28,314	0	0
EPLEY/E1180BT	100	.	173	57	18	28,024	0	2
KRUGER/K-9396 YGCB	92	.	170	59	15	28,314	0	1
SANDS/SOI 9013	100	.	169	56	15	28,459	0	2
KRUGER/K-9002+ YGCB	100	.	168	57	19	27,007	0	1
TOP FARM/EXP 3196	95	.	167	59	15	28,169	0	0
KRUGER/K-9403 YGCB	100	.	166	56	15	26,572	0	1
PFISTER/EXP 1499BT	98	.	165	58	15	27,588	0	1
EPLEY/E1150BT	95	.	164	58	15	27,878	0	1
GARST/8716	100	.	163	60	16	28,749	0	1
KRUGER/K-9203 YGCB	100	.	162	56	14	28,314	0	1
Test average:		155	174	58	15	28,094	0	1
LSD (5%) values:		NS	10	1	1	NS	.	NS
Top group value*- Minimum:		133	179	59		26,572		
Maximum:					15		.	2
No. entries in top group:		11	11	6	26	31	.	31
Coef. of variation#:		5	4	1	3	3	.	.

+ Relative maturity of hybrid as reported by seed company.

\* Value is within one LSD value of the highest yield, bushel weight, or harvest population values; or the lowest grain moisture, green snap or lodging values. NS indicates values within a column are not significantly different.

# Measure of experimental error: values less than 15% are desired.

**Table 8. Brookings, non-Roundup Ready, late corn hybrid results, 2002-2003. SDSU Agronomy Farm, test relative maturity is 101-day or more.**

Brand / Hybrid	+Rel. Mat.	Yield- bu/a @15.5% mst.		----- 2003 -----			Green snap pct	Lodged below ear pct
		2-yr	2003	Bu. wt. lb	Grain moist. pct	Acre harvest pop.		
		Entries tested two years						
KRUGER/K-9208A	106	172	187	55	17	28,750	0	0
EPLEY/E1493	105	166	180	57	19	28,314	0	1
WENSMAN/W 5417BT	107	164	180	55	20	28,459	0	1
KRUGER/K-9910 YGCB	108	161	170	54	21	28,169	0	1
SANDS/SOI 9041	104	157	172	59	20	27,878	0	1
KRUGER/K-9306 YGCB	104	153	182	55	18	28,169	0	0
GOLD COUNTRY/1016BT	104	144	176	55	15	28,750	0	1
KRUGER/K-9309 YGCB	108	142	163	55	21	28,895	0	1
		Entries tested one year						
DAIRYLAND/STEALTH-5104	104	.	190	57	20	28,750	0	1
GOLD COUNTRY/103-02CB	105	.	188	57	20	28,895	0	1
DEKALB/DKC52-45 (YGCB	102	.	186	57	14	28,750	0	0
TOP FARM/EXP 3101B	101	.	182	56	16	28,459	0	0
EPLEY/E1442	104	.	181	57	18	28,604	0	0
KRUGER/K-9206 YGCB	104	.	180	58	19	27,588	0	1
EPLEY/E2410BT	107	.	179	57	19	28,459	0	2
JACOBSEN/JS4339BT	106	.	179	57	18	28,024	0	1
EPLEY/E1491	105	.	179	57	20	29,040	0	2
SANDS/SOI 103YGCB	103	.	176	55	16	28,459	0	0
SEEDS 2000/3122BT	102	.	174	56	15	28,459	0	2
MIDWEST/G 7188	102	.	167	55	15	28,314	0	1
CROW'S/3520 B	104	.	166	56	22	28,750	0	0
MIDWEST/G 7494 B	103	.	166	57	21	28,169	0	0
KRUGER/K-9308 YGCB	109	.	166	52	20	27,733	0	1
EPLEY/E1420BT	101	.	166	57	16	29,040	0	2
GARST/8787YG1	102	.	164	58	17	28,459	0	0
KRUGER/K-9305 YGCB	105	.	164	56	17	27,733	0	1
CROW'S/2133	102	.	163	55	14	28,895	0	0
SABRE/4280BT	102	.	163	55	15	28,459	0	3
WENSMAN/W 5314BT	101	.	161	55	15	27,733	0	1
KRUGER/K-9404 YGCB	101	.	159	59	17	28,459	0	0
JUNG/6580BT	104	.	159	58	18	29,040	0	0
KRUGER/EXP105 YGCB	103	.	159	56	18	27,588	0	2
SABRE/4292BT	102	.	154	58	17	28,459	0	0
Test average:		157	172	56	18	28,415	0	1
LSD (5%) values:		NS	15	2	2	NS	.	NS
Top group value*- Minimum:		142	175	57		27,588		
Maximum:					16		.	3
No. entries in top group:		8	15	16	10	33	.	33
Coef. of variation#:		8	5	2	6	3	.	.

+ Relative maturity of hybrid as reported by seed company.

\* Value is within one LSD value of the highest yield, bushel weight, or harvest population values; or the lowest grain moisture, green snap or lodging values. NS indicates values within a column are not significantly different.

# Measure of experimental error: values less than 15% are desired.

**Table 9. Armour, non-Roundup Ready, no-till early corn hybrid results, 2003. Mark and Cletus Wiechmann farm, test relative maturity is 105-day or less.**

Brand / Hybrid	+Rel. Mat.	Yield- bu/a @15.5% mst.		Bu. wt. lb	Grain moist. pct	Acre harvest pop.	2003	
		2-yr	2003				Green snap pct	Lodged below ear pct
----- 2003 -----								
DEKALB/DKC50-18 (YGCB	100	.	92	54	14	25,410	0	5
DEKALB/DKC52-45 (YGCB	102	.	92	52	13	26,281	0	3
AGSOURCE SEEDS/5153BT	105	.	89	54	13	25,265	0	1
KRUGER/K-9305 YGCB	105	.	88	54	13	24,974	0	0
KRUGER/K-9306 YGCB	104	.	87	50	13	26,862	0	0
----- 2003 -----								
DAIRYLAND/STEALTH-5104	104	.	81	52	13	25,991	0	2
MIDWEST/G 7188	102	.	75	50	12	25,701	0	6
KRUGER/K-9403 YGCB	100	.	74	50	12	23,377	0	5
CROW'S/2133	102	.	74	50	12	26,427	0	2
KRUGER/EXP105 YGCB	103	.	72	53	13	26,572	0	6
CROW'S/3520 B	104	.	71	54	14	24,829	0	0
MIDWEST/G 7494 B	103	.	71	54	14	25,265	0	1
AGSOURCE SEEDS/4123BT	98	.	70	52	13	26,281	0	7
WENSMAN/W 5314BT	101	.	69	49	12	24,829	0	10
AGSOURCE SEEDS/4663BT	103	.	66	52	13	25,410	0	5
KRUGER/K-9404 YGCB	101	.	57	52	14	26,281	0	0
----- 2003 -----								
Test average:	.	.	77	52	13	25,610	0	3
LSD (5%) values:	.	.	10	2	0	NS	.	7
Top group value*- Minimum:	.	.	82	52		23,377		
Maximum:					12		.	7
No. entries in top group:	.	.	5	11	4	16	.	15
Coef. of variation#:	.	.	8	3	2	6	.	.

+ Relative maturity of hybrid as reported by seed company.

\* Value is within one LSD value of the highest yield, bushel weight, or harvest population values; or the lowest grain moisture, green snap or lodging values. NS indicates values within a column are not significantly different.

# Measure of experimental error: values less than 15% are desired.

**Table 10. Armour, non-Roundup Ready, no-till late corn hybrid results, 2003. Mark and Cletus Wiechmann farm, test relative maturity is 106-day or more.**

Brand / Hybrid	+Rel. Mat.	Yield- bu/a @15.5% mst.		Bu. wt. lb	Grain moist. pct	Acre harvest pop.	2003		
		2-yr	2003				Green snap pct	Lodged below ear pct	
----- 2003 -----									
Entries tested one year									
DEKALB/DKC57-84 (YGCB	107	.	91	54	14	27,297	0	0	
DAIRYLAND/STEALTH-1606	106	.	82	52	14	27,588	0	0	
KRUGER/K-9309 YGCB	108	.	81	54	14	25,119	0	1	
KRUGER/K-9308 YGCB	109	.	80	54	14	24,829	0	1	
KRUGER/EXP413 YGCB	111	.	79	54	14	22,796	0	1	
MIDWEST/G 7716 B	110	.	79	55	14	25,265	0	1	
AGSOURCE SEEDS/6163BT	111	.	79	56	14	26,427	0	0	
KRUGER/K-9111 YGCB	110	.	78	54	14	24,974	0	0	
DAIRYLAND/STEALTH1507BT	108	.	78	54	14	26,717	0	2	
MIDWEST/G 7622 B	108	.	78	54	14	25,120	0	0	
AGSOURCE SEEDS/5713BT	108	.	77	54	14	25,265	0	1	
AGSOURCE SEEDS/5983BT	110	.	77	54	15	26,136	0	1	
KRUGER/K-9411 YGCB	109	.	75	51	13	24,248	0	3	
WENSMAN/W 4437	109	.	75	52	14	25,845	0	0	
JACOBSEN/JS4645BT	110	.	74	55	15	26,136	0	0	
WENSMAN/W 4418	106	.	72	53	14	21,780	0	1	
WENSMAN/W 5417BT	107	.	72	53	14	25,555	0	0	
KRUGER/EXP412 YGCB	110	.	68	55	14	24,394	0	0	
CROW'S/438 B	108	.	63	53	13	23,958	0	3	
KRUGER/K-9910 YGCB	108	.	60	51	14	24,248	0	3	
JACOBSEN/JS4757BT	112	.	58	51	15	24,103	0	1	
CROW'S/4911 B	110	.	56	50	14	26,717	0	0	
Test average:		.	74	53	14	25,205	0	1	
LSD (5%) values:		.	16	3	1	NS	.	NS	
Top group value*- Minimum:		.	75	53		21,780			
Maximum:					14		.	3	
No. entries in top group:		.	14	16	19	22	.	22	
Coef. of variation#:		.	13	4	3	8	.	.	

+ Relative maturity of hybrid as reported by seed company.

\* Value is within one LSD value of the highest yield, bushel weight, or harvest population values; or the lowest grain moisture, green snap or lodging values. NS indicates values within a column are not significantly different.

# Measure of experimental error: values less than 15% are desired.



**Table 11. Beresford, non-Roundup Ready, early corn hybrid results, 2002-2003. SE Research Farm, test relative maturity is 110-day or less.**

Brand / Hybrid	+Rel. Mat.	Yield- bu/a @15.5% mst.		----- 2003 -----			Green snap pct	Lodged below ear pct
		2-yr	2003	Bu. wt. lb	Grain moist. pct	Acre harvest pop.		
-----								
		Entries tested two years						
WENSMAN/W 4437	109	184	188	58	16	26,136	0	0
HEINE/H745YGCB	106	183	195	61	12	27,733	0	0
DAIRYLAND/STEALTH1507BT	108	182	191	58	17	28,895	0	0
WENSMAN/W 4418	106	174	178	58	15	24,539	0	1
WENSMAN/W 5417BT	107	172	176	57	15	27,152	0	0
MERSCHMAN/M-20108	108	169	177	58	16	28,169	0	0
JACOBSEN/JS4645BT	110	167	164	58	17	26,862	0	0
JACOBSEN/JS4637	110	167	166	58	15	27,733	0	1
SANDS/SOI 9102	110	164	175	59	16	28,459	0	1
HEINE/H790YGCB	108	163	155	58	17	28,048	0	1
EPLEY/E2470	110	160	156	58	14	27,878	0	1
-----								
		Entries tested one year						
KRUGER/K-9111 YGCB	110	.	195	58	18	27,152	0	0
KRUGER/K-9411 YGCB	109	.	190	59	18	24,248	0	1
CROW'S/438 B	108	.	190	58	17	27,878	0	0
SABRE/4800BT	108	.	189	58	16	27,298	0	0
GARST/8566YG1	109	.	187	58	16	27,443	0	0
ASGROW/RX702YG	110	.	186	60	18	26,862	0	1
EPLEY/E2490BT	110	.	184	57	16	27,879	0	1
DEKALB/DKC57-84 (YGCB)	107	.	182	60	15	28,024	0	0
GARST/8552YG1	108	.	182	56	16	27,152	0	0
MIDWEST/G 7716 B	110	.	180	58	17	28,024	0	0
WENSMAN/W 5437BT	110	.	177	58	16	27,152	0	1
GARST/8545	109	.	177	59	16	27,588	0	1
EPLEY/E1420BT	101	.	173	59	15	29,040	0	2
SABRE/4760	107	.	171	58	16	27,007	0	0
EPLEY/E2410BT	107	.	171	61	17	28,605	0	1
KAYSTAR/KX-766	110	.	170	59	16	27,733	0	0
DAIRYLAND/STEALTH-1606	106	.	169	58	14	27,878	0	0
HEINE/H763YGCB	107	.	164	58	17	27,007	0	2
KRUGER/EXP112 YGCB	110	.	164	56	17	27,733	0	1
HEINE/H792YGCB	109	.	164	57	15	27,588	0	1

**Table 11. Beresford, non-Roundup Ready, early hybrid results (continued).**

Brand / Hybrid	+Rel. Mat.	Yield- bu/a @15.5% mst.		Bu. wt. lb	Grain moist. pct	----- 2003 -----		Lodged below ear pct	
		2-yr	2003			Acre harvest pop.	Green snap pct		
						----- Entries tested one year -----			
AGSOURCE SEEDS/5713BT	108	.	163	59	16	26,572	0	0	
MERSCHMAN/M-9104	104	.	162	58	14	28,895	0	1	
EPLEY/E1442	104	.	160	58	14	28,459	0	0	
JACOBSEN/JS4440BT	108	.	159	59	16	27,878	0	2	
PFISTER/2656BT	110	.	159	58	15	26,862	0	1	
MIDWEST/G 7622 B	108	.	159	56	16	28,017	0	0	
MERSCHMAN/M-21104	104	.	157	59	15	26,862	0	1	
JACOBSEN/JS4339BT	106	.	156	58	14	26,862	0	0	
HEINE/H810YGCB	110	.	156	58	16	26,136	0	0	
CROW'S/4911 B	110	.	152	58	15	28,023	0	0	
KRUGER/EXP412 YGCB	110	.	150	59	18	25,846	0	0	
Test average:			171	172	58	16	27,446	0	0
LSD (5%) values:			NS	17	2	2	NS	.	NS
Top group value*- Minimum:			160	178	59		24,248		
Maximum:						14	.	2	
No. entries in top group:			11	14	13	6	42	.	42
Coef. of variation#:			8	6	2	9	6	.	.

+ Relative maturity of hybrid as reported by seed company.

\* Value is within one LSD value of the highest yield, bushel weight, or harvest population values; or the lowest grain moisture, green snap or lodging values.

NS indicates values within a column are not significantly different.

# Measure of experimental error: values less than 15% are desired.

**Table 12. Beresford, non-Roundup Ready, late corn hybrid results, 2002-2003. SE Research Farm, test relative maturity is 111-day or more.**

Brand / Hybrid	+Rel. Mat.	Yield- bu/a @15.5% mst.		----- 2003 -----			Green snap pct	Lodged below ear pct
		2-yr	2003	Bu. wt. lb	Grain moist. pct	Acre harvest pop.		
		-----		Entries tested two years			-----	-----
AGSOURCE SEEDS/6183BT	111	183	176	57	20	27,152	0	1
SANDS/SOI 9132	113	175	168	59	16	24,394	0	1
EPLEY/E3630BT	113	165	169	58	18	28,604	0	0
AGSOURCE SEEDS/6203BT	112	164	144	58	18	26,717	0	0
		-----		Entries tested one year			-----	-----
DEKALB/DKC63-79 (YGCB)	113	.	176	60	20	28,314	0	0
JACOBSEN/JS4757BT	112	.	174	57	21	27,443	0	1
GARST/8454YG1	112	.	171	58	16	28,605	0	1
CROW'S/5366 B	114	.	170	58	18	27,588	0	0
KRUGER/K-9114+ YGCB	115	.	169	58	17	27,879	0	1
KRUGER/K-9212 YGCB	113	.	169	58	15	27,878	0	0
KRUGER/K-9115 YGCB	115	.	168	59	18	27,878	0	0
HEINE/H827YGCB	111	.	166	58	18	26,717	0	0
KRUGER/K-9415	114	.	165	56	17	27,588	0	0
HEINE/H851YGCB	113	.	165	58	19	27,878	0	0
MIDWEST/G 8125 B	114	.	164	58	20	26,862	0	0
HEINE/H838YGCB	113	.	163	58	14	28,169	0	0
KAYSTAR/KX-890BT	112	.	163	58	17	27,152	0	1
DAIRYLAND/STEALTH-5112	111	.	162	58	16	27,588	0	0
KRUGER/EXP116 YGCB	114	.	161	58	24	27,878	0	0
GARST/8331YG1	114	.	161	59	22	28,314	0	0
EPLEY/E3641	114	.	160	58	16	29,185	0	0
HEINE/H824YGCB	112	.	160	60	20	27,152	0	1
CROW'S/5202 B	113	.	157	57	20	28,459	0	0
MIDWEST/G 8070 B	113	.	151	58	17	28,459	0	0
Test average:		172	165	58	18	27,661	0	0
LSD (5%) values:		NS	NS	1	3	1,456	.	1
Top group value*- Minimum:		164	144	59		27,729		
Maximum:					17		.	1
No. entries in top group:		4	24	5	10	13	.	24
Coef. of variation#:		6	7	1	9	3	.	.

+ Relative maturity of hybrid as reported by seed company.

\* Value is within one LSD value of the highest yield, bushel weight, or harvest population values; or the lowest grain moisture, green snap or lodging values. NS indicates values within a column are not significantly different.

# Measure of experimental error: values less than 15% are desired.

**Table E. Roundup Ready™ entries by brand/hybrid, and yield table number(s).**

Brand / Hybrid	Table No.	Brand / Hybrid	Table No.
AGSOURCE/3931RR	17	AGSOURCE/5921RR	23
AGSOURCE/4306RR/BT	21	AGSOURCE/5986RR/BT	22, 23
AGSOURCE/5206RR/BT	18, 21	AGSOURCE/6166BTR	22, 24
AGSOURCE/5216RR/BT	21	AGSOURCE/6886BTR	24
AGSOURCE/5356RR/BT	18, 22	ASGROW/RX601RR/YG	21, 23
AGSOURCE/5456RR/BT	18, 22		
CHANNEL/6925RB	13, 15, 19	CHANNEL/7406R	20, 21
CHANNEL/6939RB	13, 15, 19	CHANNEL/7624RB	22, 23
CHANNEL/6999RB	16, 17	CHANNEL/7806RB	22, 23
CHANNEL/7091RB	16, 18, 20	CHANNEL/8075RB	24
CHANNEL/7128RB	18, 20, 21	CHANNEL/8127RB	24
CHANNEL/7135RB	18, 20, 21		
DEKALB/DKC39-48 RRYGCB	13, 15	DEKALB/DKC53-34 RRYGCB	14, 18, 21
DEKALB/DKC40-63 (RR)	15	DEKALB/DKC58-24 RRYGCB	18, 20, 22, 23
DEKALB/DKC42-95 RRYGCB	13, 15, 19	DEKALB/DKC60-09 RRYGCB	22, 23
DEKALB/DKC44-46 RRYGCB	13, 15, 17, 19	DEKALB/DKC60-17 (RR)	23
DEKALB/DKC46-28 (RR)	16, 19	DEKALB/DKC60-19 RRYGCB	22
DEKALB/DKC47-10 RRYGCB	14, 17, 21		
EPLEY/E1165RR	19, 21	EPLEY/E14R95BT	18, 20, 22
EPLEY/E1445RR	18, 20, 21	EPLEY/E2425RR	18, 20, 22
EPLEY/E1485RR	19, 21		
GARST/8487YG1/RR	24	GARST/8782RR	16, 19
GARST/8510YG1/RR	23	GARST/8812YG1/RR	16
GARST/8553RR	20, 23		
GOLD COUNTRY/1016RRBT	16, 18, 20	GOLD COUNTRY/92-01CBR	13
GOLD COUNTRY/104-01CBR	20	GOLD COUNTRY/94-01RR	15
GOLD COUNTRY/105-03R	20		
HEINE/H625RR/YGCB	13, 15	HEINE/H725RR/YGCB	17
HEINE/H650RR/YGCB	13, 15	HEINE/H8490RR/YGCB	23
HEINE/H722RR	17		
INTEGRA/INT 6193RRYGCB	13, 15	INTEGRA/INT 6300RRYGCB	14, 16, 17, 19
INTEGRA/INT 6208RRYGCB	22, 23	INTEGRA/INT 6312RRYGCB	22, 24
INTEGRA/INT 6290RR	13, 15	INTEGRA/INT 6395RR	13, 15, 17, 19
JACOBSEN/JS4615RBT	22, 24	JACOBSEN/JS4655RBT	24
JACOBSEN/JS4637R	22, 23	JACOBSEN/JS4748RBT	22

**Table E. Roundup Ready™ entries by brand/hybrid, and yield table number(s) (continued).**

Brand / Hybrid	Table No.	Brand / Hybrid	Table No.
JUNG/6205RR/BT	15	JUNG/6560ARR/BT	20
JUNG/6418RR/BT	15,19	JUNG/6580RR/BT	20
KALTENBERG/K5711RR	23	KALTENBERG/K6788RR	23
KAYSTAR/KX-4000RRBT	13,15,17	KAYSTAR/KX-777RRBT	18
KAYSTAR/KX-4250RRBT	13,15,17,19	KAYSTAR/KX-780RR	22,23
KAYSTAR/KX-5150RR	13,15,17,19	KAYSTAR/KX-8551RR	22,24
KAYSTAR/KX-6261RR	21	KAYSTAR/KX-8770RRBT	24
KAYSTAR/KX-6500RRBT	18,20,21,23		
KRUGER/EXP104 RR/YGCB	18	KRUGER/K-9299A RR/YGCB	14
KRUGER/EXP9492 RR/YGRW	13	KRUGER/K-9300 RR/YGCB	14,16,17
KRUGER/K-9002 RR/YGCB	14,16,17	KRUGER/K-9392 RR	13,15
KRUGER/K-9111 RR/YGCB	22	KRUGER/K-9392 RR/YGCB	13,15
KRUGER/K-9115 RR/YGCB	24	KRUGER/K-9404 RR/YGCB	16,18
KRUGER/K-9203 RR/YGCB	14,16,17	KRUGER/K-9491 RR/YGCB	13,15
KRUGER/K-9212 RR/YGCB	24	KRUGER/K-9496 RR	13,15
KRUGER/K-9299A RR	16,17		
PFISTER/1553 RR-BT	19,21	PFISTER/2656 RR	23
SABRE/3554RRBT	13,15,19	SABRE/4280RRBT	20
SABRE/3555RR	13,15,19	SABRE/4320RRBT	20
SEEDS 2000/2944RRBT	13,19	SEEDS 2000/3122RRBT	18
SEEDS 2000/2953RR	13,15,19	SEEDS 2000/3171RR	22
TOP FARM/8200RY	16,19	TOP FARM/8395RR	15,17,19
TOP FARM/8391R	15	TOP FARM/EXP3103ER	18,20
TRIUMPH/1120BTRR	23	TRIUMPH/3421RR	21
TRIUMPH/2370RR	17,21	TRIUMPH/9066RR	13,17
WENSMAN/W 6089RRBT	13,15	WENSMAN/W 6212RR	13,15,17,19
WENSMAN/W 6116RR	13,15,17,19	WENSMAN/W 6315RRBT	14,16,18,20,21
WENSMAN/W 6117RRBT	13,15,17,19	WENSMAN/W 6421RR	18,20,22,23

**Table 13. Warner, Roundup Ready™, early corn hybrid results, 2002-2003. Allen and Inel Ryckman farm, test relative maturity is 95-day or less.**

Brand / Hybrid	+Rel. Mat.	Yield- bu/a @15.5% mst.		----- 2003 -----			Green snap pct	Lodged below ear pct
		2-yr	2003	Bu. wt. lb	Grain moist. pct	Acre harvest pop.		
-----								
		Entries tested two years						
DEKALB/DKC44-46 RRYGCB	94	192	205	60	16	28,314	0	3
WENSMAN/W 6212RR	95	191	201	59	15	28,459	0	5
INTEGRA/INT 6193RRYGCB	93	184	200	59	14	27,152	0	3
INTEGRA/INT 6290RR	92	166	181	59	14	27,443	0	6
-----								
		Entries tested one year						
WENSMAN/W 6117RRBT	92	.	201	61	14	26,862	0	6
KRUGER/K-9491 RR/YGCB	91	.	201	60	14	25,845	0	2
GOLD COUNTRY/92-01CBR	92	.	199	61	14	28,459	0	6
KRUGER/EXP9492 RR/YGRW	90	.	198	59	15	27,733	0	5
SABRE/3555RR	95	.	198	60	14	28,750	0	2
-----								
DEKALB/DKC42-95 RRYGCB	92	.	196	60	14	28,895	0	5
CHANNEL/6939RB	93	.	196	60	13	26,281	0	6
SEEDS 2000/2944RRBT	94	.	196	60	14	24,539	0	1
SABRE/3554RRBT	94	.	196	61	14	27,878	0	5
KAYSTAR/KX-4250RRBT	93	.	195	61	14	27,879	0	5
KAYSTAR/KX-4000RRBT	91	.	195	61	14	25,265	0	5
-----								
HEINE/H625RR/YGCB	93	.	193	60	14	25,700	0	1
KAYSTAR/KX-5150RR	95	.	193	58	15	27,588	0	7
WENSMAN/W 6116RR	91	.	192	60	14	25,991	0	7
KRUGER/K-9496 RR	94	.	191	59	16	27,878	0	12
CHANNEL/6925RB	92	.	189	60	13	27,443	0	7
-----								
SEEDS 2000/2953RR	95	.	189	59	16	27,588	0	6
KRUGER/K-9392 RR/YGCB	90	.	187	60	14	25,846	0	1
WENSMAN/W 6089RRBT	84	.	187	62	14	26,571	0	4
HEINE/H650RR/YGCB	93	.	185	61	14	27,298	0	8
INTEGRA/INT 6395RR	95	.	180	58	15	26,862	0	5
-----								
DEKALB/DKC39-48 RRYGCB	89	.	175	59	15	24,829	0	9
KRUGER/K-9392 RR	90	.	173	60	13	25,700	0	4
TRIUMPH/9066RR	90	.	170	60	13	23,958	0	4
-----								
Test average:		184	191	60	14	26,893	0	5
LSD (5%) values:		12	14	2	1	1,986	.	5
Top group value*- Minimum:		180	191	60		26,910		
Maximum:					14		.	6
No. entries in top group:		3	18	19	20	15	.	22
Coef. of variation#:		4	4	2	6	5	.	.

+ Relative maturity of hybrid as reported by seed company.

\* Value is within one LSD value of the highest yield, bushel weight, or harvest population values; or the lowest grain moisture, green snap or lodging values.

NS indicates values within a column are not significantly different.

# Measure of experimental error: values less than 15% are desired.

**Table 14. Warner, Roundup Ready™, late corn hybrid results, 2002-2003. Allen and Inel Ryckman farm, test relative maturity is 96-day or more.**

Brand / Hybrid	+Rel. Mat.	Yield- bu/a @15.5% mst.		----- 2003 -----			Green snap pct	Lodged below ear pct
		2-yr	2003	Bu. wt. lb	Grain moist. pct	Acre harvest pop.		
		-----						
		Entries tested two years						
DEKALB/DKC53-34 RRYGCB	103	187	202	57	19	28,895	0	4
		-----						
		Entries tested one year						
DEKALB/DKC47-10 RRYGCB	97	.	201	61	14	28,605	0	10
KRUGER/K-9203 RR/YGCB	100	.	199	56	19	27,588	0	6
WENSMAN/W 6315RRBT	101	.	197	57	18	28,314	0	7
KRUGER/K-9002 RR/YGCB	100	.	187	58	21	27,298	0	1
INTEGRA/INT 6300RRYGCB	100	.	184	58	19	27,298	0	3
KRUGER/K-9299A RR/YGCB	100	.	182	58	15	28,169	0	3
KRUGER/K-9300 RR/YGCB	96	.	178	57	16	26,862	0	3
		-----						
Test average:		187	191	58	17	27,878	0	5
LSD (5%) values:		.	14	1	2	NS	.	3
Top group value*- Minimum:		.	188	60		26,862		
Maximum:					16		.	4
No. entries in top group:		.	4	1	2	8	.	5
Coef. of variation#:		.	4	1	6	4	.	.

+ Relative maturity of hybrid as reported by seed company.

\* Value is within one LSD value of the highest yield, bushel weight, or harvest population values; or the lowest grain moisture, green snap or lodging values.

NS indicates values within a column are not significantly different.

# Measure of experimental error: values less than 15% are desired.

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**Table 15. South Shore, Roundup Ready™, early corn hybrid results, 2000-2003. NE Research Farm, test relative maturity is 95-day or less.**

Brand / Hybrid	+Rel. Mat.	Yield- bu/a @15.5% mst.		Bu. wt. lb	Grain moist. pct	Acre harvest pop.	2003	
		2-yr	2003				Green snap pct	Lodged below ear pct
----- 2003 -----								
				Entries tested two years				
INTEGRA/INT 6193RRYGCB	93	119	78	55	15	27,007	0	8
DEKALB/DKC44-46 RRYGCB	94	118	80	54	18	27,588	0	15
CHANNEL/6925RB	92	113	78	57	16	23,377	0	2
WENSMAN/W 6212RR	95	113	77	58	16	27,733	0	6
				Entries tested one year				
DEKALB/DKC42-95 RRYGCB	92	.	88	56	17	29,040	0	3
WENSMAN/W 6089RRBT	84	.	86	58	15	27,152	0	6
JUNG/6418RR/BT	92	.	86	58	16	26,862	0	9
SABRE/3555RR	95	.	84	57	16	25,991	0	11
KRUGER/K-9491 RR/YGCB	91	.	84	56	15	26,717	0	2
SABRE/3554RRBT	94	.	84	59	16	27,443	0	7
WENSMAN/W 6117RRBT	92	.	82	58	16	25,120	0	9
KAYSTAR/KX-4250RRBT	93	.	81	58	16	28,314	0	7
GOLD COUNTRY/94-01RR	94	.	81	57	16	27,152	0	6
KRUGER/K-9392 RR/YGCB	90	.	81	57	17	24,248	0	3
WENSMAN/W 6116RR	91	.	80	57	16	26,717	0	2
HEINE/H625RR/YGCB	93	.	80	55	15	27,297	0	9
INTEGRA/INT 6395RR	95	.	79	57	16	27,588	0	10
SEEDS 2000/2953RR	95	.	79	57	17	26,281	0	13
KAYSTAR/KX-4000RRBT	91	.	79	54	15	27,153	0	4
CHANNEL/6939RB	93	.	78	56	15	25,991	0	1
KAYSTAR/KX-5150RR	95	.	76	56	16	27,733	0	13
KRUGER/K-9496 RR	94	.	76	57	16	28,459	0	8
HEINE/H650RR/YGCB	93	.	76	58	16	27,153	0	1
DEKALB/DKC39-48 RRYGCB	89	.	76	57	16	23,232	0	9
TOP FARM/8395RR	95	.	76	58	16	24,394	0	9
KRUGER/K-9392 RR	90	.	76	57	16	26,426	0	3
TOP FARM/8391R	91	.	75	56	15	26,136	0	1
DEKALB/DKC40-63 (RR)	90	.	70	56	15	27,733	0	9
JUNG/6205RR/BT	82	.	68	55	15	26,572	0	31
INTEGRA/INT 6290RR	92	.	56	52	16	28,314	0	13
Test average:		116	78	57	16	26,697	0	8
LSD (5%) values:		NS	11	2	1	1,636	.	8
Top group value*- Minimum:		113	77	57		27,404		
Maximum:					16		.	9
No. entries in top group:		4	20	18	26	10	.	23
Coef. of variation#:		8	9	2	4	4	.	.

+ Relative maturity of hybrid as reported by seed company.

\* Value is within one LSD value of the highest yield, bushel weight, or harvest population values; or the lowest grain moisture, green snap or lodging values. NS indicates values within a column are not significantly different.

# Measure of experimental error: values less than 15% are desired.



**Table 16. South Shore, Roundup Ready™, late corn hybrid results, 2002-2003. NE Research Farm, test relative maturity is 96-day or more.**

Brand / Hybrid	+Rel. Mat.	Yield- bu/a @15.5% mst.		----- 2003 -----				
		2-yr	2003	Bu. wt. lb	Grain moist. pct	Acre harvest pop.	Green snap pct	Lodged below ear pct
		-----						
		Entries tested two years						
DEKALB/DKC46-28 (RR)	96	119	77	58	16	28,024	0	9
CHANNEL/6999RB	99	90	70	54	19	28,605	0	8
		-----						
		Entries tested one year						
WENSMAN/W 6315RRBT	101	.	75	55	23	28,024	0	5
GARST/8812YG1/RR	97	.	75	56	18	26,862	0	3
GOLD COUNTRY/1016RRBT	104	.	74	55	23	28,024	0	6
INTEGRA/INT 6300RRYGCB	100	.	73	56	25	24,539	0	7
KRUGER/K-9203 RR/YGCB	100	.	70	55	22	26,717	0	9
		-----						
CHANNEL/7091RB	101	.	70	58	23	28,604	0	2
GARST/8782RR	100	.	70	56	17	26,426	0	5
KRUGER/K-9299A RR	99	.	69	56	17	27,007	0	5
KRUGER/K-9002 RR/YGCB	100	.	64	59	22	26,426	0	0
TOP FARM/8200RY	100	.	61	57	18	24,684	0	3
		-----						
KRUGER/K-9404 RR/YGCB	102	.	60	60	21	28,023	0	1
KRUGER/K-9300 RR/YGCB	96	.	59	54	20	27,298	0	4
		-----						
Test average:		104	69	56	20	27,090	0	5
LSD (5%) values:		NS	10	2	2	1,836	.	6
Top group value*- Minimum:		90	67	58		26,769		
Maximum:					18		.	6
No. entries in top group:		2	10	4	5	6	.	10
Coef. of variation#:		2	8	2	6	4	.	.

+ Relative maturity of hybrid as reported by seed company.

\* Value is within one LSD value of the highest yield, bushel weight, or harvest population values; or the lowest grain moisture, green snap or lodging values. NS indicates values within a column are not significantly different.

# Measure of experimental error: values less than 15% are desired.

**Table 17. Yale, Roundup Ready™, no-till early corn hybrid results, 2002-2003. Kim Tschetter farm, test relative maturity is 100-day or less.**

Brand / Hybrid	+Rel. Mat.	Yield- bu/a @15.5% mst.		Bu. wt. lb	Grain moist. pct	Acre harvest pop.	2003	
		2-yr	2003				Green snap pct	Lodged below ear pct
----- 2003 -----								
Entries tested one year								
DEKALB/DKC47-10 RRYGCB	97	.	106	58	12	28,459	0	4
KAYSTAR/KX-5150RR	95	.	102	56	12	27,298	0	2
DEKALB/DKC44-46 RRYGCB	94	.	101	54	11	28,895	0	2
KAYSTAR/KX-4000RRBT	91	.	100	55	11	27,443	0	3
WENSMAN/W 6116RR	91	.	100	57	12	27,007	0	2
AGSOURCE/3931RR	96	.	100	56	11	28,169	0	0
WENSMAN/W 6117RRBT	92	.	99	58	12	27,443	0	3
KAYSTAR/KX-4250RRBT	93	.	98	57	12	28,605	0	4
INTEGRA/INT 6395RR	95	.	98	56	12	27,007	0	2
TOP FARM/8395RR	95	.	93	56	12	26,136	0	3
WENSMAN/W 6212RR	95	.	90	56	12	28,024	0	3
HEINE/H725RR/YGCB	100	.	88	58	13	28,024	0	1
KRUGER/K-9203 RR/YGCB	100	.	87	55	11	27,443	0	3
INTEGRA/INT 6300RRYGCB	100	.	84	57	12	27,733	0	2
CHANNEL/6999RB	99	.	83	52	11	28,605	0	1
KRUGER/K-9299A RR	99	.	83	53	11	26,717	0	0
HEINE/H722RR	100	.	81	53	11	27,152	0	0
TRIUMPH/9066RR	90	.	81	58	12	22,651	0	2
KRUGER/K-9002 RR/YGCB	100	.	79	57	12	27,733	0	0
KRUGER/K-9300 RR/YGCB	96	.	75	52	11	27,733	0	2
TRIUMPH/2370RR	100	.	74	56	12	27,443	0	0
Test average:	.	.	91	56	12	27,415	0	2
LSD (5%) values:	.	.	8	1	0	1,500	.	2
Top group value*- Minimum:	.	.	98	57		27,395		
Maximum:					11		.	2
No. entries in top group:	.	.	9	8	5	14	.	14
Coef. of variation#:	.	.	5	1	2	3	.	.

+ Relative maturity of hybrid as reported by seed company.

\* Value is within one LSD value of the highest yield, bushel weight, or harvest population values; or the lowest grain moisture, green snap or lodging values.

NS indicates values within a column are not significantly different.

# Measure of experimental error: values less than 15% are desired.

**Table 18. Yale, Roundup Ready™, no-till late corn hybrid results, 2002-2003. Kim Tschetter farm, test relative maturity is 101-day or more.**

Brand / Hybrid	+Rel. Mat.	Yield- bu/a @15.5% mst.		----- 2003 -----			Green snap pct	Lodged below ear pct
		2-yr	2003	Bu. wt. lb	Grain moist. pct	Acre harvest pop.		
Entries tested one year								
AGSOURCE/5356RR/BT	106	.	100	56	12	26,571	0	0
DEKALB/DKC53-34 RRYGCB	103	.	91	56	12	27,733	0	2
CHANNEL/7128RB	102	.	86	57	13	27,152	0	0
EPLEY/E2425RR	107	.	86	57	13	26,572	0	1
KRUGER/EXP104 RR/YGCB	102	.	85	58	13	28,314	0	2
SEEDS 2000/3122RRBT	102	.	85	55	11	26,572	0	3
CHANNEL/7135RB	102	.	84	54	11	26,717	0	3
KAYSTAR/KX-6500RRBT	104	.	83	57	12	27,588	0	0
TOP FARM/EXP3103ER	103	.	82	54	11	21,635	0	1
GOLD COUNTRY/1016RRBT	104	.	82	54	11	28,024	0	2
WENSMAN/W 6315RRBT	101	.	82	54	12	28,169	0	2
EPLEY/E1445RR	104	.	81	57	12	27,297	0	2
WENSMAN/W 6421RR	106	.	80	57	13	27,443	0	1
EPLEY/E14R95BT	106	.	77	57	13	28,459	0	0
AGSOURCE/5206RR/BT	104	.	76	57	13	27,733	0	1
AGSOURCE/5456RR/BT	107	.	76	55	12	28,459	0	2
DEKALB/DKC58-24 RRYGCB	108	.	74	57	13	26,717	0	0
CHANNEL/7091RB	101	.	71	57	13	27,733	0	0
KRUGER/K-9404 RR/YGCB	102	.	69	58	13	27,878	0	3
KAYSTAR/KX-777RRBT	110	.	57	57	23	25,701	0	4
Test average:	.	.	80	56	13	27,123	0	1
LSD (5%) values:	.	.	10	3	1	2,294	.	2
Top group value*- Minimum:	.	.	90	55		26,165		
Maximum:					12		.	2
No. entries in top group:	.	.	2	16	10	18	.	16
Coef. of variation#:	.	.	7	3	6	5	.	.

+ Relative maturity of hybrid as reported by seed company.

\* Value is within one LSD value of the highest yield, bushel weight, or harvest population values; or the lowest grain moisture, green snap or lodging values.

NS indicates values within a column are not significantly different.

# Measure of experimental error: values less than 15% are desired.

**Table 19. Brookings, Roundup Ready™, early corn hybrid results, 2002-2003. SDSU Agronomy Farm, test relative maturity is 100-day or less.**

Brand / Hybrid	+Rel. Mat.	Yield- bu/a @15.5% mst.		Bu. wt. lb	Grain moist. pct	Acre harvest pop.	2003	
		2-yr	2003				Green snap pct	Lodged below ear pct
----- 2003 -----								
Entries tested two years								
DEKALB/DKC44-46 RRYGCB	94	183	190	58	15	28,750	0	2
DEKALB/DKC46-28 (RR)	96	178	181	60	15	28,459	0	0
WENSMAN/W 6212RR	95	174	193	59	16	29,766	0	1
SEEDS 2000/2944RRBT	94	169	177	58	15	26,426	0	0
EPLEY/E1485RR	100	154	166	58	15	25,410	0	0
Entries tested one year								
TOP FARM/8395RR	95	.	198	58	16	28,895	0	1
SABRE/3555RR	95	.	192	59	16	28,459	0	2
SEEDS 2000/2953RR	95	.	190	59	16	28,024	0	1
INTEGRA/INT 6395RR	95	.	189	58	16	26,717	0	2
EPLEY/E1165RR	95	.	187	59	16	27,443	0	1
KAYSTAR/KX-5150RR	95	.	187	59	15	28,750	0	2
SABRE/3554RRBT	94	.	184	60	15	28,604	0	1
KAYSTAR/KX-4250RRBT	93	.	182	60	15	28,169	0	1
DEKALB/DKC42-95 RRYGCB	92	.	181	58	15	28,895	0	0
JUNG/6418RR/BT	92	.	181	61	15	26,717	0	0
WENSMAN/W 6117RRBT	92	.	180	60	15	27,733	0	1
WENSMAN/W 6116RR	91	.	179	60	15	28,024	0	0
INTEGRA/INT 6300RRYGCB	100	.	179	59	17	28,024	0	0
CHANNEL/6939RB	93	.	177	59	15	27,443	0	0
CHANNEL/6925RB	92	.	175	60	15	28,895	0	2
PFISTER/1553 RR-BT	99	.	166	57	15	28,459	0	1
GARST/8782RR	100	.	164	57	15	28,023	0	0
TOP FARM/8200RY	100	.	159	58	15	25,846	0	1
Test average:		172	181	59	15	27,910	0	1
LSD (5%) values:		NS	13	2	1	1,374	.	NS
Top group value*- Minimum:		154	185	59		28,392		
Maximum:					16		.	2
No. entries in top group:		5	8	14	22	10	.	23
Coef. of variation#:		4	4	2	2	3	.	.

+ Relative maturity of hybrid as reported by seed company.

\* Value is within one LSD value of the highest yield, bushel weight, or harvest population values; or the lowest grain moisture, green snap or lodging values. NS indicates values within a column are not significantly different.

# Measure of experimental error: values less than 15% are desired.

**Table 20. Brookings, Roundup Ready™, late corn hybrid results, 2002-2003. SDSU Agronomy Farm, test relative maturity is 101-day or more.**

Brand / Hybrid	+Rel. Mat.	Yield- bu/a @15.5% mst.		Bu. wt. lb	Grain moist. pct	Acre harvest pop.	2003	
		2-yr	2003				Green snap pct	Lodged below ear pct
EPLEY/E2425RR	107	163	166	58	17	27,878	0	3
							Entries tested two years	
							Entries tested one year	
GARST/8553RR	107	.	183	54	21	27,588	0	0
SABRE/4280RRBT	102	.	177	56	16	28,169	0	0
GOLD COUNTRY/1016RRBT	104	.	176	58	16	28,169	0	1
CHANNEL/7135RB	102	.	172	57	16	28,024	0	2
WENSMAN/W 6421RR	106	.	170	56	19	27,443	0	1
JUNG/6580RR/BT	104	.	170	60	19	27,443	0	0
CHANNEL/7091RB	101	.	169	58	18	28,604	0	0
WENSMAN/W 6315RRBT	101	.	167	57	16	28,314	0	1
EPLEY/E1445RR	104	.	165	58	19	27,878	0	1
KAYSTAR/KX-6500RRBT	104	.	165	58	18	28,314	0	1
DEKALB/DKC58-24 RRYGCB	108	.	164	58	21	28,604	0	0
EPLEY/E14R95BT	106	.	163	57	20	28,024	0	3
CHANNEL/7128RB	102	.	162	58	17	27,007	0	0
JUNG/6560ARR/BT	101	.	160	56	15	28,459	0	0
CHANNEL/7406R	105	.	160	56	16	28,459	0	1
SABRE/4320RRBT	102	.	159	59	17	29,040	0	0
GOLD COUNTRY/105-03R	105	.	158	56	16	26,717	0	1
TOP FARM/EXP3103ER	103	.	155	57	15	25,846	0	1
GOLD COUNTRY/104-01CBR	103	.	155	58	17	28,169	0	1
Test average:		163	166	57	17	27,907	0	1
LSD (5%) values:		.	15	1	2	NS	.	NS
Top group value*- Minimum:		.	168	59		25,846		
Maximum:					17		.	3
No. entries in top group:		.	7	2	12	20	.	20
Coef. of variation#:		.	5	2	7	4	.	.

+ Relative maturity of hybrid as reported by seed company.

\* Value is within one LSD value of the highest yield, bushel weight, or harvest population values; or the lowest grain moisture, green snap or lodging values. NS indicates values within a column are not significantly different.

# Measure of experimental error: values less than 15% are desired.

**Table 21. Armour, Roundup Ready™, no-till early corn hybrid results, 2003. Mark and Cletus Wiechmann farm, test relative maturity is 105-day or less.**

Brand / Hybrid	+Rel. Mat.	Yield- bu/a @15.5% mst.		Bu. wt. lb	Grain moist. pct	Acre harvest pop.	2003	
		2-yr	2003				Green snap pct	Lodged below ear pct
----- 2003 -----								
Entries tested one year								
DEKALB/DKC47-10 RRYGCB	97	.	101	55	14	26,571	0	4
EPLEY/E1165RR	95	.	99	53	13	25,846	0	2
DEKALB/DKC53-34 RRYGCB	103	.	92	52	13	25,555	0	3
EPLEY/E1445RR	104	.	90	55	14	25,410	0	0
WENSMAN/W 6315RRBT	101	.	88	51	12	25,991	0	2
TRIUMPH/3421RR	104	.	86	53	14	25,845	0	2
CHANNEL/7128RB	102	.	85	53	14	24,829	0	0
AGSOURCE/5206RR/BT	104	.	84	53	14	24,829	0	1
PFISTER/1553 RR-BT	99	.	83	49	12	25,845	0	5
ASGROW/RX601RR/YG	105	.	82	55	14	25,410	0	2
CHANNEL/7135RB	102	.	82	51	13	23,522	0	1
EPLEY/E1485RR	100	.	80	52	13	22,506	0	1
AGSOURCE/4306RR/BT	102	.	78	48	12	25,555	0	0
KAYSTAR/KX-6500RRBT	104	.	74	53	14	25,700	0	2
CHANNEL/7406R	105	.	73	50	13	24,974	0	2
KAYSTAR/KX-6261RR	102	.	70	53	14	24,249	0	1
TRIUMPH/2370RR	100	.	70	53	13	23,813	0	1
AGSOURCE/5216RR/BT	105	.	52	48	13	25,555	0	1
Test average:	.	.	82	52	13	25,111	0	2
LSD (5%) values:	.	.	13	2	1	NS	.	NS
Top group value*- Minimum:	.	.	88	53		22,506		
Maximum:					13		.	5
No. entries in top group:	.	.	4	10	10	18	.	18
Coef. of variation#:	.	.	10	3	3	7	.	.

+ Relative maturity of hybrid as reported by seed company.

\* Value is within one LSD value of the highest yield, bushel weight, or harvest population values; or the lowest grain moisture, green snap or lodging values.

NS indicates values within a column are not significantly different.

# Measure of experimental error: values less than 15% are desired.

**Table 22. Armour, Roundup Ready™, no-till late corn hybrid results, 2003. Mark and Cletus Wiechmann farm, test relative maturity is 106-day or more.**

Brand / Hybrid	+Rel. Mat.	Yield- bu/a @15.5% mst.		Bu. wt. lb	Grain moist. pct	Acre harvest pop.	2003	
		2-yr	2003				Green snap pct	Lodged below ear pct
----- 2003 -----								
AGSOURCE/5356RR/BT	106	.	95	53	13	26,136	0	0
DEKALB/DKC60-19 RRYGCB	110	.	93	54	14	25,265	0	1
EPLEY/E14R95BT	106	.	89	56	14	24,974	0	4
WENSMAN/W 6421RR	106	.	89	56	14	23,813	0	1
AGSOURCE/6166BTR	111	.	88	56	15	26,717	0	0
CHANNEL/7624RB	108	.	88	53	14	25,555	0	1
EPLEY/E2425RR	107	.	83	54	14	25,555	0	1
KRUGER/K-9111 RR/YGCB	111	.	83	55	14	26,281	0	0
AGSOURCE/5986RR/BT	110	.	83	56	16	23,232	0	0
INTEGRA/INT 6208RRYGCB	108	.	82	54	14	26,281	0	0
DEKALB/DKC58-24 RRYGCB	108	.	81	56	14	24,394	0	0
JACOBSEN/JS4615RBT	112	.	81	55	14	24,974	0	0
KAYSTAR/KX-8551RR	112	.	80	56	15	24,393	0	1
INTEGRA/INT 6312RRYGCB	112	.	79	56	15	24,975	0	0
KAYSTAR/KX-780RR	109	.	76	54	14	25,265	0	2
DEKALB/DKC60-09 RRYGCB	110	.	73	54	14	25,700	0	0
AGSOURCE/5456RR/BT	107	.	67	52	13	24,974	0	0
JACOBSEN/JS4748RBT	112	.	66	57	17	24,393	0	1
JACOBSEN/JS4637R	110	.	63	54	14	24,103	0	1
CHANNEL/7806RB	110	.	59	56	14	24,974	0	1
SEEDS 2000/3171RR	107	.	58	51	13	25,846	0	1
Test average:	.	.	79	55	14	25,133	0	1
LSD (5%) values:	.	.	12	2	1	NS	.	NS
Top group value*- Minimum:	.	.	83	55		23,232		
Maximum:					14		.	4
No. entries in top group:	.	.	9	11	16	21	.	21
Coef. of variation#:	.	.	9	3	4	6	.	.

+ Relative maturity of hybrid as reported by seed company.

\* Value is within one LSD value of the highest yield, bushel weight, or harvest population values; or the lowest grain moisture, green snap or lodging values.

NS indicates values within a column are not significantly different.

# Measure of experimental error: values less than 15% are desired.

**Table 23. Beresford, Roundup Ready™, early corn hybrid results, 2002-2003. SE Research Farm, test relative maturity is 110-day or less.**

Brand / Hybrid	+Rel. Mat.	Yield- bu/a @15.5% mst.		Bu. wt. lb	Grain moist. pct	Acre harvest pop.	2003	
		2-yr	2003				Green snap pct	Lodged below ear pct
----- 2003 -----								
				Entries tested two years				
PFISTER/2656 RR	109	168	161	58	14	27,443	0	2
DEKALB/DKC58-24 RRYGCB	108	167	184	61	16	27,879	0	0
DEKALB/DKC60-09 RRYGCB	110	167	175	61	16	28,169	0	0
ASGROW/RX601RR/YG	105	162	171	60	15	28,750	0	1
TRIUMPH/1120BTRR	108	154	155	58	19	26,136	0	0
JACOBSEN/JS4637R	110	151	148	57	14	25,700	0	1
				Entries tested one year				
WENSMAN/W 6421RR	106	.	190	59	17	27,733	0	0
KAYSTAR/KX-6500RRBT	104	.	182	60	16	27,443	0	0
KALTENBERG/K6788RR	108	.	179	58	17	28,459	0	0
DEKALB/DKC60-17 (RR)	110	.	179	59	17	27,878	0	1
GARST/8553RR	107	.	177	57	17	28,459	0	1
INTEGRA/INT 6208RRYGCB	108	.	171	58	16	27,443	0	0
GARST/8510YG1/RR	110	.	169	58	18	29,040	0	0
AGSOURCE/5986RR/BT	110	.	169	59	17	27,588	0	0
KALTENBERG/K5711RR	105	.	168	59	15	28,024	0	1
CHANNEL/7624RB	108	.	167	58	16	27,443	0	0
CHANNEL/7806RB	110	.	164	59	15	25,845	0	1
HEINE/H8490RR/YGCB	110	.	164	55	16	28,024	0	0
AGSOURCE/5921RR	110	.	161	59	15	27,588	0	1
KAYSTAR/KX-780RR	109	.	148	57	15	27,588	0	1
Test average:		162	169	58	16	27,632	0	0
LSD (5%) values:		NS	26	2	2	1,749	.	NS
Top group value*- Minimum:		151	164	59		27,291		
Maximum:					16		.	2
No. entries in top group:		6	15	10	13	17	.	20
Coef. of variation#:		8	9	2	9	4	.	.

+ Relative maturity of hybrid as reported by seed company.

\* Value is within one LSD value of the highest yield, bushel weight, or harvest population values; or the lowest grain moisture, green snap or lodging values.

NS indicates values within a column are not significantly different.

# Measure of experimental error: values less than 15% are desired.



**Table 24. Beresford, Roundup Ready™, late corn hybrid results, 2002-2003. SE Research Farm, test relative maturity is 111-day or more.**

Brand / Hybrid	+Rel. Mat.	Yield- bu/a @15.5% mst.		Bu. wt. lb	Grain moist. pct	Acre harvest pop.	----- 2003 -----		
		2-yr	2003				Green snap pct	Lodged below ear pct	
		----- Entries tested one year -----							
AGSOURCE/6166BTR	111	.	179	59	19	26,281	0	0	
AGSOURCE/6886BTR	112	.	176	59	20	26,717	0	0	
CHANNEL/8127RB	114	.	169	58	21	27,879	0	0	
CHANNEL/8075RB	113	.	169	60	21	27,153	0	0	
INTEGRA/INT 6312RRYGCB	112	.	164	57	14	25,846	0	0	
KAYSTAR/KX-8770RRBT	114	.	162	58	20	27,588	0	0	
KRUGER/K-9212 RR/YGCB	113	.	160	58	14	26,717	0	0	
KAYSTAR/KX-8551RR	112	.	159	58	14	26,717	0	0	
JACOBSEN/JS4615RBT	112	.	156	58	17	27,588	0	0	
GARST/8487YG1/RR	112	.	154	58	17	27,588	0	0	
KRUGER/K-9115 RR/YGCB	115	.	152	59	18	27,588	0	0	
JACOBSEN/JS4655RBT	112	.	151	56	18	27,298	0	0	
Test average:		.	163	58	18	27,080	0	0	
LSD (5%) values:		.	18	2	3	NS	.	.	
Top group value*- Minimum:		.	161	58		25,846			
Maximum:					17		.	.	
No. entries in top group:		.	6	10	5	12	.	.	
Coef. of variation#:		.	7	2	10	5	.	.	

+ Relative maturity of hybrid as reported by seed company.

\* Value is within one LSD value of the highest yield, bushel weight, or harvest population values; or the lowest grain moisture, green snap or lodging values. NS indicates values within a column are not significantly different.

# Measure of experimental error: values less than 15% are desired.

**Table F. Seed companies entered in the 2003 corn hybrid trials by seed brand name.**

Seed brand	Mailing address
AgSource	Agsourceseeds, 1717 E. 8 <sup>th</sup> Street, Boone, IA 50036
Asgrow	Monsanto, 3100 Sycamore Rd, Dekalb, IL 60115
Channel	Channel Bio Corp., 5932 Schumann Dr., Madison, WI 53711
Crows	Crows Hybrid Corn Co., 5932 Schumann Dr., Madison, WI 53711
Dairyland	Dairyland Seed Co., Inc., PO Box 958, West Bend, WI 53095
Dekalb	Monsanto, 3100 Sycamore Rd, Dekalb, IL 60115
Epley Bros.	Epley Bros. Hybrids Inc., PO Box 310 Shell Rock, IA 50670
Garst	Garst/AgriPro Seed Co., 1010 Christine Ave, Brookings, SD 57006
Gold Country	Gold Country Seed Inc., PO Box 604, Hutchinson, MN 55350
Heine	Heine Seed Corn, 1020 E. 320 <sup>th</sup> St., Vermillion, SD 57064
Integra Seed	Integra Seed, Ltd., PO Box 40, Bozeman, MT 59771
Jacobsen	Jacobsen Hybrid Corn Co., Inc., Box 379, Lake View, IA 51450
Jung	Jung Seed Genetics, 341 S. High St., Randolph, WI 53956
Kaltenberg	Kaltenberg Seeds, PO Box 278, Waunakee, WI 5359
Kaystar	Kaystar Seed, PO Box 947, Huron, SD 57350
Kruger	Kruger Seed Co., Hwy 20 E, Box A, Dike, IA 50624
Merschman	Merschman Seeds, Inc. 103 Ave. D, West Point, IA 52656
Midwest	Midwest Seed Genetics, 5932 Schumann Dr., Madison, WI 53711
Pfister	Pfister Hybrid Corn Co., 187 N. Fayette St., El Paso, IL 61738
Sabre	Sabre Initiatives, LLC, 2508 Trott Ave. SW, Willmar, MN 56201
Sands	Sand Seed Service, Inc., Box 648, Marcus, IA 51035
Seeds 2000	Seeds 2000, PO Box 200, Breckenridge, MN 56520
Top Farm	Top Farm Hybrids, PO Box 850, Cokato, MN 55321
Triumph	Triumph Seed Co., Inc., PO Box 1050, Ralls, TX 79357
Wensman	Wensman Seed Co., PO Box 190, Wadena, MN 56482

## 2004 Precision Planted Performance Trials

# CORN



# LIVE



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\*Roundup Ready is registered by Monsanto.

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# 2004 Precision Planted Corn Performance Trials

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&

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This publication reports the performance of entries in the 2004 South Dakota corn hybrid performance trials for both non-Roundup-Ready™ and Roundup-Ready™ hybrids. Information includes both the most recent 2-year and 1-year grain yields in bushels per acre (bu/ac); and 1-year bushel weight, moisture percentages of shelled corn at harvest, acre harvest population, 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, and seedbed preparation are indicated in Table A, while cooperators and seeding dates are shown in Table B. Seeding started April 30 and was completed May 7, 2004.

## Weather Conditions

Weather data (Table C) for this year's growing season, April-September, was obtained from the 2004 USDA-South Dakota Crop-Weather reports and the South Dakota Automatic Weather Data Network (SD-AWDN).

Heat unit or growing-degree-day (GDD) accumulations are reported for the nearest test site in place of temperatures. Corn hybrids typically express a certain thermal or heat unit requirement from emergence to black-layer formation (physiological maturity). The heat unit totals across test locations varied from a high of 2,829 GDD at Armour to a low of 2,032 GDD at Brookings.

GDD seasonal accumulations were below average for all test locations in 2004. Deficits ranged from a low range of 96 to 165 units at Huron, Centerville, Armour, and Brookings to a higher range of 304 to 333 units at Watertown and Aberdeen. Generally, across all locations, cooler than normal temperatures resulted in below-normal levels of heat units during July and August. At Aberdeen and Watertown cooler than normal temperatures were evident in May and June.

Precipitation accumulation varied greatly across test locations. Seasonal total precipitation from April 1 through the end of September was highest at Huron and Brookings and lowest at Aberdeen and Armour. On average the seasonal precipitation accumulations were above average at all locations. Precipitation seasonal accumulations ranged from 1.62 inches at Armour to 7.67 inches at Huron. Precipitation deficits of 0.12 to 1.0 inches were evident in April at most locations. Later in the season deficits of 0.88, 1.3, and 1.35 inches were evident at Watertown, Beresford, and Armour, respectively.

In summary, moisture deficits in July and August likely reduced yields at Armour. A more normal or above-normal moisture distribution in July and August likely resulted in higher yields at the other locations. The seasonal GDD totals across this region were below normal for 2004. At Aberdeen, Brookings, and Watertown, temperatures were cooler than normal in May and June. These cooler temperatures were often accompanied by overcast clouds and little effective sunlight. At Brookings these overcast conditions lasted nearly 3 weeks.

The assistance of the following is appreciated: Glenda Piechowski at Brookings, Jim Smolik and Allen Heuer at the NE Research Farm, Todd Bortnem and the Brookings Agronomy Farm staff, and Bob Berg and the SE Research Farm staff; and farmer-cooperators Mark and Cletus Wiechmann (Armour), Kirk Aughenbaugh (Iroquois), and Allen and Inel Ryckman (Warner).

## General Test Procedures

Participating companies pick the test locations where their entries are tested. Entries are placed into "early" or "late" maturity trials. The arbitrary relative maturity breaks between the early and late tests are as follows: 95 days for Warner and South Shore; 100 days for Yale and Brookings; 105 days for Armour; and 110 days for Beresford. A hybrid is assigned to a maturity trial based on its relative maturity rating reported by the participating seed company.

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

A fee was charged for all entries at each location. A list of participating seed companies for 2004 is presented in Table F.

## 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 2004, the 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, the acre harvest population 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 at each test site are outlined in table A. Seedbed preparation was good at all locations. A starter fertilizer of 100 pounds/acre of 37-18-00 was applied 2 inches below and 2 inches to the side (2 x 2) of the seed row. Force™ insecticide was applied down the seed tube at label rates for corn rootworm control this year. In addition, Pounce™ granular was applied at labeled rates down the whorl with a tractor mounted granular applicator just prior to canopy closure.

The experimental procedures described above apply both to the non-Roundup Ready™ and the Roundup Ready™ hybrid corn trials with one exception: Weed control in the Roundup Ready™ trials consisted of two post emergence applications of Roundup Ultra™ (32 oz/acre): first, when weeds were 2-4 inches tall; and second, when weed growth was again 2-4 inches tall. In non-Roundup Ready™ test trials, pre-emergence herbicides consisted of Harness Extra™ (1.0 qt/ac) at Warner, South Shore, and Iroquois; Dual™ at Brookings; and Balance™ (3.0 oz/ac) at Armour. Post emergence herbicide applications included Accent/Buctril™ at Brookings, Armour, and Warner, at labeled rates.

## Measurements of Performance

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

Hybrids of equal potential may yield differently because of variations in slope, soil fertility, and stand. Statistical tests were conducted to determine whether differences obtained

were caused by variations in environment or were true variety differences. In 2004, the coefficient of variation (CV) for yield was within reasonable limits across all locations. The CV value in a given test trial is a measure of experimental error associated with the test trial. Ideally, this value should not exceed 15%. In cases where the CV value exceeds 15% it is recommended that the test data be used with caution in making hybrid selection decisions. Experimental error may be the result of several factors, including test methods; moisture, temperature, and soil variations; agronomic factors like seeding date, reseeding; or seed quality factors; all of which may or may not be controllable in a given year.

**Grain moisture content.** Moisture content is expressed as the percentage of moisture in the shelled corn at harvest. Moisture is inversely related to maturity, and because maturity is of prime importance in South Dakota, moisture figures are of considerable importance in the evaluation of 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 was within calibration limits.

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

The LSD values reported in this publication can be used in two ways. In this publication the LSD value is used primarily to identify the top group for current year and 2-year yields, bushel weight, grain moisture at harvest, green snap percentage, and stalk lodging below the ear percentage for each test trial.

For example, at South Shore (Table 1a) the highest current year yield was 163 bu/ac for Dekalb/DKC40-05. To determine whether it is the only top yielding hybrid at South Shore, use the LSD value of 11 bu/ac indicated at the bottom of the 2004 yield column. For hybrids to be in the top yield group they must yield 152 bu/ac (163 - 11 = 152) or higher. Technically, a yield value of 153 bu/ac is in the top yield group while a value of 152 bu/ac is not in the top yield group. However, all yields and LSD values are rounded to the nearest whole number. We can say 152 bu/ac, because of the rounding-off, is the more appropriate minimum value for top yield hybrids at the “early” maturity test at South Shore in 2004. In addition, the minimum top group value is indicated for the 2-year (2003-04) average unless there were no significant yield differences. Top yield hybrids for 2004 are those hybrids that are equal or higher than the

minimum top group value indicated at the bottom of the 2004 yield column. In cases where hybrid yield differences are not significant (NS), then by definition all hybrids in the test are in the top-yield group for the stated 1 or 2 years.

Likewise, the top group for other performance factors like bushel weight, percent grain moisture at harvest, percent stalk lodging below the ear, and final population in plant per acre (ppa) can be determined. For example, at South Shore in 2004 (Table 1b), to qualify for the top performance group (TPG), a hybrid must have a bushel weight of 52 lb or higher and a final population of 24,249 ppa or higher. Likewise, to qualify for the top performance group a hybrid must have a grain moisture of 23% or less and a lodging value of 2% or less.

Note that yield, bushel weight, and final population (ppa) top performance group values must be greater than a certain yield, bushel weight, or final population 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 given performance factor, then by definition

all hybrids in the test are in the top group for that performance factor for the current year.

In addition, the top yield group LSD values can also be used to determine whether two hybrids differ in performance. For example, in the early test at South Shore (Table 1a); the LSD value of 11 bu/ac can be used to compare the yields of any two hybrids in the trial. If hybrid A yields 163 bu/ac and hybrid B yields 153 bu/ac their yield difference is 10 bu/ac ( $163 - 153 = 10$ ). In this case the two hybrids do not differ in yield because their yield difference of 10 bu/ac is equal to or less than the reported LSD value of 11 bu/ac. In contrast, if hybrid C yields 151 bu/ac, the yield difference between hybrids A and C is 12 bu/ac ( $163 - 151 = 12$ ). In this case the yield difference of 12 bu/ac is more than the reported LSD value of 11 bu/ac; 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 final population (ppa) can be used to determine if any two hybrids differ in these performance factors.

## ARCHIVE

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# Performance Trial Results: Conventional Hybrids

### Northern Locations

#### Early maturity corn tests:

**South Shore**, Tables 1a and b. The test trial yield average (Table 1a) was 148 bu/ac for year 2004 and 117 bu/ac for 2 years (2003-04). Hybrids that yielded 152 bu/ac or more in 2004 and 118 bu/ac or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 11 bu/ac in 2004 and by 10 bu/ac for 2 years to be significantly different from one another. In 2004, bushel weights averaged 51 lb, grain moisture averaged 28%, lodging averaged 1%, and the final plant population averaged 26,826 ppa (Table 1b). For a hybrid to be in the top performance group for these factors it had to equal 52 lb or higher in bushel weight, 23% or less in grain moisture, 2% or less in stalk lodging, and 24,249 ppa in final population. This final population of 24,249 ppa was the lowest population; however, the differences in final population were non-significant (NS). The minimum top performance final population of 24,249 ppa was 87% ( $24,249/27,878$ ) of the population delivered at planting.

**Warner**, Tables 1a and b. The test trial yield average (Table 1a) was 224 bu/ac for year 2004 and 217 bu/ac for 2 years

(2003-04). Hybrids that yielded 227 bu/ac or more were in the top yield group for 2004. Since there were no significant differences in yield in hybrids tested for 2 years, even the lowest yield of 208 bu/ac qualified for the 2-year top yield group. Hybrids had to differ in yield by 15 bu/ac in 2004 to be significantly different from one another, while there were no significant yield differences for hybrids tested 2 years. In 2004, bushel weights averaged 57 lb, grain moisture averaged 20%, lodging averaged 2%, and the final plant population averaged 27,287 ppa (Table 1b). For a hybrid to be in the top performance group for these factors it had to equal 57 lb or higher in bushel weight, 18% or less in grain moisture, 7% or less in stalk lodging, and 27,040 ppa in final population. The minimum top performance final population of 27,040 ppa was 97% ( $27,040/27,878$ ) of the population delivered at planting.

#### Late maturity corn tests:

**South Shore**, Tables 2a and b. The test trial yield average (Table 2a) was 130 bu/ac for year 2004 and 99 bu/ac for 2 years (2003-04). Hybrids that yielded 161 bu/ac or more in 2004 qualified for the top yield group. Since there were no significant differences in yield in hybrids tested for 2 years,

even the lowest yield of 86 bu/ac qualified for the 2-year top yield group. Hybrids had to differ in yield by 13 bu/ac in 2004 to be significantly different from one another, while there were no significant yield differences for hybrids tested 2 years. In 2004, bushel weights averaged 50 lb, grain moisture averaged 34%, lodging averaged 2%, and the final plant population averaged 27,349 ppa (Table 2b). For a hybrid to be in the top performance group for these factors it had to equal 49 lb or higher in bushel weight, 28% or less in grain moisture, 3% or less in stalk lodging, and 25,991 ppa in final population. The minimum top performance final population of 25,991 ppa was 93% (25,991/27,878) of the population delivered at planting.

**Warner**, Tables 2a and b. The test trial yield average (Table 2a) was 218 bu/ac for year 2004 and 202 bu/ac for 2 years (2003-04). Hybrids that yielded 218 bu/ac or more in 2004 and 199 bu/ac or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 15 bu/ac in 2004 and by 14 bu/ac for 2 years to be significantly different from one another. In 2004, bushel weights averaged 54 lb, grain moisture averaged 23%, lodging averaged 1%, and the final plant population averaged 27,152 ppa (Table 2b). For a hybrid to be in the top performance group for these factors it had to equal 54 lb or higher in bushel weight, 22% or less in grain moisture, 3% or less in stalk lodging, and 25,555 ppa in final population. The minimum top performance final population of 25,555 ppa was 92% (25,555/27,878) of the population delivered at planting.

## Central Locations

### Early maturity corn tests:

**Brookings**, Tables 3a and b. The test trial yield average (Table 3a) was 191 bu/ac for year 2004 and 189 bu/ac for 2 years (2003-04). Hybrids that yielded 195 bu/ac or more in 2004 and 186 bu/ac or more for 2 years qualified for the top yield groups. Hybrids had to differ in yield by 12 bu/ac in 2004 and by 10 bu/ac for 2 years to be significantly different from one another. In 2004, bushel weights averaged 54 lb, grain moisture averaged 21%, lodging averaged 1%, and the final plant population averaged 27,072 ppa (Table 3b). For a hybrid to be in the top performance group for these factors it had to equal 54 lb or higher in bushel weight, 19% or less in grain moisture, 3% or less in stalk lodging, and 26,965 ppa in final population. The minimum top performance final population of 26,965 ppa was 97% (26,965/27,878) of the population delivered at planting.

**Iroquois**, Tables 3a and b. The test trial yield average (Table 3a) was 194 bu/ac for year 2004 and 147 bu/ac for 2 years (2003-04). Hybrids that yielded 189 bu/ac or more in 2004 qualified for the top yield group. Since there were no significant differences in yield in hybrids tested for 2 years, even the lowest yield of 125 bu/ac qualified for the 2-year top yield group. Hybrids had to differ in yield by 29 bu/ac in

2004 to be significantly different from one another, while there were no significant yield differences for hybrids tested 2 years. In 2004, bushel weights averaged 61 lb, grain moisture averaged 17%, lodging averaged 2%, and the final plant population averaged 26,959 ppa (Table 3b). For a hybrid to be in the top performance group for these factors it had to equal 61 lb or higher in bushel weight, 16% or less in grain moisture, 6% or less in stalk lodging, and 27,177 ppa in final population. The minimum top performance final population of 27,177 ppa was 97% (27,177/27,878) of the population delivered at planting.

### Late maturity corn tests:

**Brookings**, Tables 4a and b. The test trial yield average (Table 4a) was 187 bu/ac for year 2004 and 184 bu/ac for 2 years (2003-04). Hybrids that yielded 192 bu/ac or more in 2004 qualified for the top yield group. Since there were no significant differences in yield in hybrids tested for 2 years, even the lowest yield of 169 bu/ac qualified for the 2-year top yield group. Hybrids had to differ in yield by 15 bu/ac in 2004 to be significantly different from one another, while there were no significant yield differences for hybrids tested 2 years. In 2004, bushel weights averaged 52 lb, grain moisture averaged 27%, lodging averaged 1%, and the final plant population averaged 26,739 ppa (Table 4b). For a hybrid to be in the top performance group for these factors it had to equal 53 lb or higher in bushel weight, 21% or less in grain moisture, 3% or less in stalk lodging, and 25,748 ppa in final population. The minimum top performance final population of 25,748 ppa was 92% (25,748/27,878) of the population delivered at planting.

**Iroquois**, Tables 4a and b. The test trial yield average (Table 4a) was 202 bu/ac for year 2004 and 146 bu/ac for 2 years (2003-04). Hybrids that yielded 197 bu/ac or more in 2004 and 142 bu/ac or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 36 bu/ac in 2004 and by 19 bu/ac for 2 years to be significantly different from one another. In 2004, bushel weight averaged 58 lb, grain moisture averaged 19%, lodging averaged 3%, and the final plant population averaged 26,866 ppa (Table 4b). For a hybrid to be in the top performance group for these factors it had to equal 58 lb or higher in bushel weight, 20% or less in grain moisture, 8% or less in stalk lodging, and 26,310 ppa in final population. The minimum top performance final population of 26,310 ppa was 94% (26,310/27,878) of the population delivered at planting.

## Southern Locations

### Early maturity corn tests:

**Beresford**, Tables 5a and b. The test trial yield average (Table 5a) was 235 bu/ac for year 2004 and 210 bu/ac for 2 years (2003-04). Hybrids that yielded 244 bu/ac or more in 2004 qualified for the top yield group. Since there were no significant differences in yield in hybrids tested for 2 years,



even the lowest yield of 205 bu/ac qualified for the 2-year top yield group. Hybrids had to differ in yield by 15 bu/ac in 2004 to be significantly different from one another, while there were no significant yield differences for hybrids tested 2 years. In 2004, bushel weights averaged 60 lb, grain moisture averaged 19%, lodging averaged 1%, and the final plant population averaged 27,429 ppa (Table 5b). For a hybrid to be in the top performance group for these factors it had to equal 62 lb or higher in bushel weight, 18% or less in grain moisture, 5% or less in stalk lodging, and 27,021 ppa in final population. The minimum top performance final population of 27,021 ppa was 97% (27,021/27,878) of the population delivered at planting.

**Armour**, Tables 5a and b. The test trial yield average (Table 5a) was 124 bu/ac for year 2004 and 105 bu/ac for 2 years (2003-04). Hybrids that yielded 115 bu/ac or more in 2004 and 98 bu/ac or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 28 bu/ac in 2004 and by 18 bu/ac for 2 years to be significantly different from one another. In 2004, bushel weights averaged 58 lb, grain moisture averaged 16%, lodging averaged 2%, and the final plant population averaged 26,103 ppa (Table 5b). For a hybrid to be in the top performance group for these factors it had to equal 59 lb or higher in bushel weight, 16% or less in grain moisture, 4% or less in stalk lodging, and 26,107 ppa in final population. The minimum top performance final population of 26,107 ppa was 94% (26,107/27,878) of the population delivered at planting.

#### Late maturity corn tests:

**Beresford**, Tables 6a and b. The test trial yield average (Table 6a) was 244 bu/ac for year 2004 and 213 bu/ac for 2 years (2003-04). Hybrids that yielded 247 bu/ac or more in

2004 qualified for the top yield group. Since there were no significant differences in yield in hybrids tested for 2 years, even the lowest yield of 208 bu/ac qualified for the 2-year top yield group. Hybrids had to differ in yield by 14 bu/ac in 2004 to be significantly different from one another, while there were no significant yield differences for hybrids tested 2 years. In 2004, bushel weights averaged 58 lb, grain moisture averaged 23%, lodging averaged 2%, and the final plant population averaged 27,388 ppa (Table 6b). For a hybrid to be in the top performance group for these factors it had to equal 59 lb or higher in bushel weight, 21% or less in grain moisture, 4% or less in stalk lodging, and 25,700 ppa in final population. The minimum top performance final population of 25,700 ppa was 92% (25,700/27,878) of the population delivered at planting.

**Armour**, Tables 6a and b. The test trial yield average (Table 6a) was 125 bu/ac for year 2004 and 98 bu/ac for 2 years (2003-04). Hybrids that yielded 127 bu/ac or more in 2004 qualified for the top yield group. Since there were no significant differences in yield in hybrids tested for 2 years, even the lowest yield of 94 bu/ac qualified for the 2-year top yield group. Hybrids had to differ in yield by 28 bu/ac in 2004 to be significantly different from one another, while there were no significant yield differences for hybrids tested 2 years. In 2004, bushel weights averaged 58 lb, grain moisture averaged 19%, lodging averaged 6%, and the final plant population averaged 25,356 ppa (Table 6b). For a hybrid to be in the top performance group for these factors it had to equal 58 lb or higher in bushel weight, 18% or less in grain moisture, 7% or less in stalk lodging, and 25,921 ppa in final population. The minimum top performance final population of 25,921 ppa was 93% (25,921/27,878) of the population delivered at planting.

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## Performance Trial Results: Roundup Ready™ Hybrids

The performance trial results for 2 years (2003-04) and 1 year (2004) are summarized below.

### Northern Locations

#### Early maturity corn tests:

**South Shore**, Tables 7a and b. The test trial yield average (Table 7a) was 146 bu/ac for year 2004 and 114 bu/ac for 2 years (2003-04). Hybrids that yielded 147 bu/ac or more in 2004 qualified for the top yield group. Since there were no significant differences in yield in hybrids tested for 2 years,

even the lowest yield of 109 bu/ac qualified for the 2-year top yield group. Hybrids had to differ in yield by 11 bu/ac in 2004 to be significantly different from one another, while there were no significant yield differences for hybrids tested 2 years. In 2004, bushel weights averaged 53 lb, grain moisture averaged 25%, lodging averaged 1%, and the final plant population averaged 27,087 ppa (Table 7b). For a hybrid to be in the top performance group for these factors it had to equal 54 lb or higher in bushel weight, 21% or less in grain moisture, 2% or less in stalk lodging, and 27,282 ppa in final population. The minimum top performance final pop-

ulation of 27,282 ppa was 98% (27,282/27,878) of the population delivered at planting.

**Warner**, Tables 7a and b. The test trial yield average (Table 7a) was 223 bu/ac for year 2004 and 210 bu/ac for 2 years (2003-04). Hybrids that yielded 225 bu/ac or more in 2004 qualified for the top yield group. Since there were no significant differences in yield in hybrids tested for 2 years, even the lowest yield of 199 bu/ac qualified for the 2-year top yield group. Hybrids had to differ in yield by 15 bu/ac in 2004 to be significantly different from one another, while there were no significant yield differences for hybrids tested 2 years. In 2004, bushel weights averaged 59 lb, grain moisture averaged 18%, lodging averaged 2%, and the final plant population averaged 27,177 ppa (Table 7b). For a hybrid to be in the top performance group for these factors it had to equal 59 lb or higher in bushel weight, 18% or less in grain moisture, 3% or less in stalk lodging, and 27,140 ppa in final population. The minimum top performance final population of 27,140 ppa was 97% (27,140/27,878) of the population delivered at planting.

#### Late maturity corn tests:

**South Shore**, Tables 8a and b. The test trial yield average (Table 8a) was 134 bu/ac for year 2004 and 104 bu/ac for 2 years (2003-04). Hybrids that yielded 144 bu/ac or more in 2004 qualified for the top yield group. Since there were no significant differences in yield in hybrids tested for 2 years, even the lowest yield of 102 bu/ac qualified for the 2-year top yield group. Hybrids had to differ in yield by 11 bu/ac in 2004 to be significantly different from one another, while there were no significant yield differences for hybrids tested 2 years. In 2004, bushel weights averaged 49 lb, grain moisture averaged 31%, lodging averaged 1%, and the final plant population averaged 27,171 ppa (Table 8b). For a hybrid to be in the top performance group for these factors it had to equal 50 lb or higher in bushel weight, 27% or less in grain moisture, 2% or less in stalk lodging, and 26,884 ppa in final population. The minimum top performance final population of 26,884 ppa was 96% (26,884/27,878) of the population delivered at planting.

**Warner**, Tables 8a and b. The test trial yield average (Table 8a) was 207 bu/ac for year 2004 and 210 bu/ac for 2 years (2003-04). Hybrids that yielded 212 bu/ac or more in 2004 qualified for the top yield group. Since there were no significant differences in yield in hybrids tested for 2 years, even the lowest yield of 207 bu/ac qualified for the 2-year top yield group. Hybrids had to differ in yield by 14 bu/ac in 2004 to be significantly different from one another, while there were no significant yield differences for hybrids tested 2 years. In 2004, bushel weights averaged 55 lb, grain moisture averaged 23%, lodging averaged 1%, and the final plant population averaged 27,020 ppa (Table 8b). In order for a hybrid to be in the top performance group for these factors it had to equal 56 lb or higher in bushel weight, 21% or less in grain moisture, 3% or less in stalk lodging, and 26,638

ppa in final population. The minimum top performance final population of 26,638 ppa was 96% (26,638/27,878) of the population delivered at planting.

## Central Locations

#### Early maturity corn tests:

**Brookings**, Tables 9a and b. The test trial yield average (Table 9a) was 205 bu/ac for year 2004 and 198 bu/ac for 2 years (2003-04). Hybrids that yielded 211 bu/ac or more in 2004 and 208 bu/ac or more for 2 years qualified for the top yield group. Hybrids had to differ in yield by 13 bu/ac in 2004 and by 3 bu/ac for 2 years to be significantly different from one another. In 2004, bushel weights averaged 56 lb, grain moisture averaged 22%, lodging averaged 1%, and the final plant population averaged 27,255 ppa (Table 9b). For a hybrid to be in the top performance group for these factors it had to equal 58 lb or higher in bushel weight, 20% or less in grain moisture, 5% or less in stalk lodging, and 27,171 ppa in final population. The minimum top performance final population of 27,171 ppa was 97% (27,171/27,878) of the population delivered at planting.

**Iroquois**, Tables 9a and b. The test trial yield average (Table 9a) was 177 bu/ac for year 2004 and 141 bu/ac for 2 years (2003-04). Hybrids that yielded 174 bu/ac or more in 2004 qualified for the top yield group. Since there were no significant differences in yield in hybrids tested for 2 years, even the lowest yield of 134 bu/ac qualified for the 2-year top yield group. Hybrids had to differ in yield by 33 bu/ac in 2004 to be significantly different from one another, while there were no significant yield differences for hybrids tested 2 years. In 2004, bushel weights averaged 59 lb, grain moisture averaged 17%, lodging averaged 2%, and the final plant population averaged 26,999 ppa (Table 9b). For a hybrid to be in the top performance group for these factors it had to equal 59 lb or higher in bushel weight, 17% or less in grain moisture, 4% or less in stalk lodging, and 26,955 ppa in final population. The minimum top performance final population of 26,955 ppa was 97% (26,955/27,878) of the population delivered at planting.

#### Late maturity corn tests:

**Brookings**, Tables 10a and b. The test trial yield average (Table 10a) was 194 bu/ac for year 2004 and 182 bu/ac for 2 years (2003-04). Hybrids that yielded 205 bu/ac or more in 2004 qualified for the top yield group. Since there were no significant differences in yield in hybrids tested for 2 years, even the lowest yield of 171 bu/ac qualified for the 2-year top yield group. Hybrids had to differ in yield by 14 bu/ac in 2004 to be significantly different from one another, while there were no significant yield differences for hybrids tested 2 years. In 2004, bushel weights averaged 51 lb, grain moisture averaged 28%, lodging averaged 1%, and the final plant population averaged 27,349 ppa (Table 10b). For a hybrid to be in the top performance group for these factors it had to equal 52 lb or higher in bushel weight, 24% or less in grain

moisture, 3% or less in stalk lodging, and 26,949 ppa in final population. The minimum top performance final population of 26,949 ppa was 97% (26,949/27,878) of the population delivered at planting.

**Iroquois**, Tables 10a and b. The test trial yield average (Table 10a) was 190 bu/ac for year 2004 and 140 bu/ac for 2 years (2003-04). Hybrids that yielded 175 bu/ac or more in 2004 qualified for the top yield group. Since there were no significant differences in yield in hybrids tested for 2 years, even the lowest yield of 135 bu/ac qualified for the 2-year top yield group. Hybrids had to differ in yield by 37 bu/ac in 2004 to be significantly different from one another, while there were no significant yield differences for hybrids tested 2 years. In 2004, bushel weights averaged 58 lb, grain moisture averaged 18%, lodging averaged 3%, and the final plant population averaged 27,272 ppa (Table 10b). For a hybrid to be in the top performance group for these factors it had to equal 55 lb or higher in bushel weight, 22% or less in grain moisture, 5% or less in stalk lodging, and 27,314 ppa in final population. The minimum top performance final population of 27,314 ppa was 98% (27,314/27,878) of the population delivered at planting.

## Southern Locations

### Early maturity corn tests:

**Beresford**, Tables 11a and b. The test trial yield average (Table 11a) was 220 bu/ac for year 2004 and 190 bu/ac for 2 years (2003-04). Hybrids that yielded 229 bu/ac or more in 2004 qualified for the top yield group. Since there were no significant differences in yield in hybrids tested for 2 years, even the lowest yield of 183 bu/ac qualified for the 2-year top yield group. Hybrids had to differ in yield by 15 bu/ac in 2004 to be significantly different from one another, while there were no significant yield differences for hybrids tested 2 years. In 2004, bushel weights averaged 60 lb, grain moisture averaged 19%, lodging averaged 1%, and the final plant population averaged 27,270 ppa (Table 11b). For a hybrid to be in the top performance group for these factors it had to equal 60 lb or higher in bushel weight, 18% or less in grain moisture, 3% or less in stalk lodging, and 27,266 ppa in final population. The minimum top performance final population of 27,266 ppa was 98% (27,266/27,878) of the population delivered at planting.

**Armour**, Tables 11a and b. The test trial yield average (Table 11a) was 116 bu/ac for year 2004 and 102 bu/ac for 2 years (2003-04). Hybrids that yielded 111 bu/ac or more in 2004 qualified for the top yield group. Since there were no significant differences in yield in hybrids tested for 2 years, even

the lowest yield of 99 bu/ac qualified for the 2-year top yield group. Hybrids had to differ in yield by 24 bu/ac in 2004 to be significantly different from one another, while there were no significant yield differences for hybrids tested 2 years. In 2004, bushel weights averaged 59 lb, grain moisture averaged 16%, lodging averaged 3%, and the final plant population averaged 25,796 ppa (Table 11b). For a hybrid to be in the top performance group for these factors it had to equal 60 lb or higher in bushel weight, 16% or less in grain moisture, 7% or less in stalk lodging, and 25,672 ppa in final population. The minimum top performance final population of 25,672 ppa was 92% (25,672/27,878) of the population delivered at planting.

### Late maturity corn tests:

**Beresford**, Tables 12a and b. The test trial yield average (Table 12a) was 229 bu/ac for year 2004 and 200 bu/ac for 2 years (2003-04). Hybrids that yielded 227 bu/ac or more in 2004 qualified for the top yield group. Since there were no significant differences in yield in hybrids tested for 2 years, even the lowest yield of 192 bu/ac qualified for the 2-year top yield group. Hybrids had to differ in yield by 19 bu/ac in 2004 to be significantly different from one another, while there were no significant yield differences for hybrids tested 2 years. In 2004, bushel weights averaged 57 lb, grain moisture averaged 22%, lodging averaged 1%, and the final plant population averaged 27,401 ppa (Table 12b). For a hybrid to be in the top performance group for these factors it had to equal 58 lb or higher in bushel weight, 19% or less in grain moisture, 2% or less in stalk lodging, and 26,572 ppa in final population. The minimum top performance final population of 26,572 ppa was 95% (26,572/27,878) of the population delivered at planting.

**Armour**, Tables 12a and b. The test trial yield average (Table 12a) was 126 bu/ac for year 2004 and 106 bu/ac for 2 years (2003-04). Hybrids that yielded 122 bu/ac or more in 2004 qualified for the top yield group. Since there were no significant differences in yield in hybrids tested for 2 years, even the lowest yield of 95 bu/ac qualified for the 2-year top yield group. Hybrids had to differ in yield by 29 bu/ac in 2004 to be significantly different from one another, while there were no significant yield differences for hybrids tested 2 years. In 2004, bushel weights averaged 59 lb, grain moisture averaged 17%, lodging averaged 2%, and the final plant population averaged 26,198 ppa (Table 12b). For a hybrid to be in the top performance group for these factors it had to equal 59 lb or higher in bushel weight, 17% or less in grain moisture, 7% or less in stalk lodging, and 26,295 ppa in final population. The minimum top performance final population of 26,295 ppa was 94% (26,295/27,878) of the population delivered at planting.

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

Site	Soil type	Seedbed, previous crop
Warner	Great Bend-Putney silt loams, 0-2% sl.	Min-till, s.wheat stubble
South Shore	Brookings sil.cl.loam, 0-3% sl.	Conventional, soybeans
Iroquois	Houdek-Stickney-Dudley, 0-2% sl.	No-till, soybeans
Brookings	Brandt sil. cl., 0-2% sl.	Conventional, soybean
Armour	Highmore silt loam,0-2% sl.	No-till, soybean stubble
Beresford	Egan-Clarno-Trent complex, 0-2% sl.	Conventional, soybean

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

Cooperators	Location*	Date Seeded
Allen & Inel Ryckman	Warner	May 5
NE Research Farm	South Shore	May 6
Kirk Aughenbaugh	Iroquois	April 30
SDSU Agronomy Farm	Brookings	May 7
Mark & Cletus Wiechmann	Armour	May 3
SE Research Farm	Beresford	May 4

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

Table C. Nearest weather station precipitation and growing degree day (GDD) accumulations for 2004 and their departures from normal (DFN).

Station	Variable	Data is accumulated from April 1 up to the week ending:					
		Apr. 26	May 30	June 27	Aug. 1	Aug. 29	Oct. 3
Aberdeen Airport	Precip.- in. '04	0.61	4.78	9.4	12.43	13.38	16.96
	DFN*	-1	0.48	2.4	2.09	1.12	2.57
Aberdeen Airport	GDD's '04	46	274	602	1276	1664	2126
	DFN	3	-31	-160	-278	-466	-333
Watertown Airport	Precip.- in. '04	1.61	6.52	8.92	12.1	13.49	20.68
	DFN	-0.19	1.37	0.46	0.19	-0.88	4.01
Watertown Airport	GDD's '04	47	257	582	1241	1640	2129
	DFN	14	-33	-172	-295	-462	-304
Huron Airport	Precip.- in. '04	1.87	5.35	8.72	13.24	16.33	22.5
	DFN	0.16	0.8	0.68	2.18	3.5	7.67
Huron Airport	GDD's '04	78	379	771	1519	1995	2544
	DFN	32	59	-42	-144	-277	-96
Brookings 2NE	Precip.- in. '04	1.57	7.63	10.7	15.11	16.02	22.54
	DFN	-0.12	2.46	1.7	2.33	0.71	4.21
Brookings 2NE	GDD's '04	39	246	585	1231	1591	2032
	DFN	12	-7	-97	-173	-315	-165
Centerville 6 SE	Precip.- in. '04	1.44	6.95	10.31	12.3	14.78	21.45
	DFN	-0.41	1.3	0.7	0.24	-1.3	2.35
Centerville 6 SE	GDD's '04	78	388	818	1550	2014	2557
	DFN	27	15	-81	-176	-291	-124
Armour** Airport	Precip.- in. '04	1.31	6.42	10.59	11.26	13.19	18.87
	DFN	-0.18	0.97	1.51	-1.35	-1.35	1.61
Armour** Airport	GDD's '04	93	454	897	1707	2231	2829
	DFN	24	34	-51	-165	-297	-143

\* DFN - how much a variable for year 2004 is greater or less (-) than the long-term average.

\*\* Although the airport received above average rainfall the cooperators at this site indicated rainfall levels were much lower than reported at the airport.

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

Table D. 2004 corn performance trials - non-Roundup Ready entries by brand/hybrid, and yield table number(s).

Brand / Hybrid	Table No.	Brand / Hybrid	Table No.
ACCESS/EXP 5405YGCB	4,5	JACOBSEN/4025	1,3
ACCESS/EXP 5503YGCB	4,5	JACOBSEN/4068CB	1,3
ACCESS/EXP 5910YGCB	5,6	JACOBSEN/4358CB	4,5
AGSOURCE SEEDS/3933	3	JACOBSEN/4637CB	6
AGSOURCE SEEDS/5153	4,5	JACOBSEN/4757CB	6
AGSOURCE SEEDS/5393	4,5	JUNG/6432YGCB	3
AGSOURCE SEEDS/5883	5,6	JUNG/6545YGCB	4
AGSOURCE SEEDS/6163	6	KAYSTAR/KX-8615BT	6
AGSOURCE SEEDS/6183	6	KELTGEN/AV4880CB	1
ASGROW/RX718YGPL	6	KRUGER/0510	4,6
CROW'S/1703 B	1,3	KRUGER/5093YGCB	1,3
CROW'S/438 B	5	KRUGER/5207YGCB	4,6
CROW'S/5366 B	6	KRUGER/5208YGCB	4,6
DAIRYLAND/STEALTH-1507BT	5,6	KRUGER/5210YGCB	4,6
DAIRYLAND/STEALTH-5104	4,5	KRUGER/5211YGCB	6
DAIRYLAND/STEALTH-5194	1	KRUGER/5305YGCB	4,5
DAIRYLAND/STEALTH-5497	2,3	KRUGER/5315YGCB	6
DAIRYLAND/STEALTH-5611	6	KRUGER/5405YGCB	2,4,5
DAIRYLAND/STEALTH-5692	1	KRUGER/5407YGCB	4,6
DEKALB/DKC40-05	1	KRUGER/5416YGCB	6
DEKALB/DKC42-89 (YGPL)	1	KRUGER/5512YGCB	6
DEKALB/DKC46-25 (YGPL)	3	KRUGER/5514YGCB	6
DEKALB/DKC50-18 (YGCB)	2,3,5	KRUGER/5516YGCB	6
DEKALB/DKC52-45 (YGCB)	2,4,5	KRUGER/5594YGCB	2,3
DEKALB/DKC54-51 (YGCB)	4,5	KRUGER/5615YGCB	6
DEKALB/DKC60-14 (YGPL)	5,6	KRUGER/5717YGCB	6
DEKALB/DKC63-79 (YGCB)	6	KRUGER/5805YGCB	2,4,5
EPLEY/E1157	3	KRUGER/5815YGCB	6
EPLEY/E1430YGCB	4	KRUGER/8407HX	4,6
EPLEY/E1442	4	KRUGER/8413HX	6
EPLEY/E14H07	3	KRUGER/8503HX	2,4,5
EPLEY/E2410YGCB	4,6	KRUGER/8504HX	2,4
EPLEY/E2470	4,6	KRUGER/8513HX	6
EPLEY/E2490YGCB	4,6	KRUGER/9002YGCB	2,4
EPLEY/E3220YGCB	4,6	KRUGER/9111YGCB	6
EPLEY/E37H07	6	KRUGER/9115YGCB	6
GOLD COUNTRY/103-02CB	2,4	KRUGER/9203YGRW	2,4,5
GOLD COUNTRY/110-07CB	5	KRUGER/9212YGCB	6
GOLD COUNTRY/94-01CB	1,3	KRUGER/9305	4,6
GOLD COUNTRY/99-01CB	3	KRUGER/9306YGCB	2,4,5
HEINE/H728YGCB	5	KRUGER/9392YGCB	1
HEINE/H745YGCB	5	KRUGER/9401YGCB	2,4
HEINE/H748YGCB	5	KRUGER/9404YGCB	2,4,5
HEINE/H760YGCB	5	KRUGER/9407YGCB	4,5
HEINE/H761	5	KRUGER/9496YGCB	1,3
HEINE/H793YGCB	5	MALLARD/3411CB	1
HEINE/H820YGCB	5	MALLARD/BT-2430	1
HEINE/H821YGCB	5	MALLARD/EXP 05-04	1
HEINE/H8600YGCB	6	MIDWEST/G 6963 B	1,3

Table D. 2004 corn performance trials - non-Roundup Ready entries by brand/hybrid, and yield table number(s).

Brand / Hybrid	Table No.	Brand / Hybrid	Table No.
MIDWEST/G 7716 B	5	WENSMAN/W 4212	1,3
MIDWEST/G 8125 B	6	WENSMAN/W 5117BT	1,3
MYCOGEN/2E390	1	WENSMAN/W 5212BT	1,3
MYCOGEN/2E633	4	WENSMAN/W 5417BT	4,6
MYCOGEN/2G626	2,4	WENSMAN/W 5437BT	5,6
MYCOGEN/2K350	1	WENSMAN/W 6318BT	4,5
MYCOGEN/2R426	1	WENSMAN/W 7117BTRW	1,3
MYCOGEN/2R570	2,4	WENSMAN/W 7212RW	1,3
NUTECH/0313	4,5	WENSMAN/W 7315BTRW	3,5
NUTECH/1992 LL/BT	1		
NUTECH/2202 HX	3,5		
NUTECH/2414 HX	6		
NUTECH/4013 YGCB	6		
NUTECH/4191 YGCB	1		
NUTECH/4202 YGCB	3,5		
NUTECH/4213 YGCB	6		
NUTECH/4393 YGCB	1,3		
NUTECH/4403 YGCB	4,5		
NUTECH/4407 YGCB	5,6		
NUTECH/4595 YGCB	1,3		
NUTECH/4607 YGCB	4		
NUTECH/4999 YGCB	2,3		
NUTECH/EX.205 YGCB	4,5		
NUTECH/EX.308 YGCB	5,6		
NUTECH/EX.317 YGCB	6		
NUTECH/EX.539 YGCB	6		
NUTECH/EX.607 YGCB	4,5		
NUTECH/EX.713 YGCB	6		
PFISTER/1499BT	3		
PFISTER/1680BT	3		
PFISTER/EXP 2380	4		
SANDS/SOI 103YGCB	2,4,5		
SANDS/SOI 107YGCB	4,5		
SANDS/SOI 110YGCB	5		
SANDS/SOI 113YGCB	6		
SEEDS 2000/2933BT	1		
SEEDS 2000/2953BT	1,3		
TOP FARM/E34103	4,5		
TOP FARM/E34105CB	4,5		
TOP FARM/E34107CB	5,6		
TOP FARM/E34110BCB	5,6		
TOP FARM/E34110DCB	5,6		
TOP FARM/TFSX 2300	4,5		
TOP FARM/TFSX 2301	3		
TOP FARM/TFSX 2395	3		
TOP FARM/TFSX 2405	4,5		
TOP FARM/TFSX 7496BT	3		

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Table 1a. Non-Roundup Ready early maturity corn yield results- northern South locations, 2003-2004.

Brand/Hybrid	RM*	- Northern Location Averages - for yield (by year)			
		South Shore		Warner	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
GOLD COUNTRY/94-01CB	94	152	113	242	222
KRUGER/9392YGCB	90	161	128	230	219
DEKALB/DKC42-89 (YGPL)	92	157	.	232	.
WENSMAN/W 5117BT	92	157	116	232	217
KRUGER/9496YGCB	94	153	117	235	216
CROW'S/1703 B	95	157	121	228	220
MIDWEST/G 6963 B	95	153	114	233	221
WENSMAN/W 5212BT	95	158	121	228	215
SEEDS 2000/2953BT	95	153	118	232	214
WENSMAN/W 4212	95	157	118	226	208
KELTGEN/AV4880CB	95	151	.	230	.
DEKALB/DKC40-05	90	163	.	217	.
NUTECH/4595 YGCB	94	149	.	231	.
WENSMAN/W 7212RW	95	156	.	224	.
NUTECH/4393 YGCB	95	146	.	229	.
MYCOGEN/2R426	95	144	.	232	.
MALLARD/BT-2430	95	140	.	234	.
NUTECH/1992 LL/BT	92	146	.	225	.
JACOBSEN/4025	92	156	.	214	.
WENSMAN/W 7117BTRW	92	147	.	218	.
DAIRYLAND/STEALTH-5194	94	133	102	224	215
DAIRYLAND/STEALTH-5692	93	136	.	222	.
SEEDS 2000/2933BT	93	137	.	221	.
MALLARD/3411CB	92	140	.	215	.
NUTECH/4191 YGCB	90	144	.	210	.

\* RM= relative maturity reported by seed company.



Table 1a. Non-Roundup Ready early maturity corn yield results- northern locations (continued).

Brand/Hybrid	RM*	- Northern Location Averages - for yield (by year)			
		South Shore		Warner	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
MALLARD/EXP 05-04	91	137	.	215	.
KRUGER/5093YGCB	93	132	.	193	.
JACOBSEN/4068CB	95	134	.	.	.
MYCOGEN/2K350	93	.	.	227	.
MYCOGEN/2E390	94	.	.	205	.
Test avg.:	93	148	117	224	217
High value:	95	163	128	242	222
# Lsd (.05):		11	10	15	NS
## TPG-value:		152	118	227	208
@ Coef.Var.:		5	7	4	4
No. Entries:		28	10	29	10

\* RM= relative maturity reported by seed company.

Seeding dates: South Shore- May 6 and Warner- May 5, 2004.

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

## TPG-value= minimum value to qualify for top performance group.

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

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Table 1b. Non-Roundup Ready corn early hybrid averages for bushel weight, kernel moisture, lodging below ear, and harvest population- northern South Dakota locations, 2004.

Brand/Hybrid	RM*	----- Northern Location Averages ----- for bu.wt., kernel moisture, lodging below ear, & plants/acre (ppa)							
		South Shore				Warner			
		Bu. wt. Lb.	H2O %	Ldg. %	PPA	Bu. wt. Lb.	H2O %	Ldg. %	PPA
KRUGER/9392YGCB	90	52	27	2	26,426	60	18	3	27,878
MALLARD/EXP 05-04	91	52	26	0	26,572	59	19	3	24,829
WENSMAN/W 5117BT	92	52	27	1	27,007	59	19	1	28,023
DEKALB/DKC40-05	90	53	21	0	28,169	57	17	2	27,588
DAIRYLAND/STEALTH-5194	94	52	26	1	25,700	59	20	1	26,717
NUTECH/1992 LL/BT	92	52	28	0	27,733	58	19	2	27,152
NUTECH/4393 YGCB	95	52	28	0	26,281	58	21	1	28,023
NUTECH/4191 YGCB	90	53	27	1	25,265	57	19	3	24,394
DEKALB/DKC42-89 (YGPL)	92	53	26	1	27,297	57	19	1	28,023
WENSMAN/W 7117BTRW	92	52	28	0	27,298	58	20	1	27,588
MALLARD/3411CB	92	50	29	2	27,298	58	19	3	27,297
MYCOGEN/2R426	95	50	28	1	27,007	58	21	1	28,169
GOLD COUNTRY/94-01CB	94	50	27	1	25,845	58	20	1	27,878
KRUGER/5093YGCB	93	50	23	0	24,249	57	20	3	26,717
WENSMAN/W 4212	95	51	27	0	28,169	56	19	4	27,588
KELTGEN/AV4880CB	95	51	28	0	26,427	56	20	1	27,733
NUTECH/4595 YGCB	94	50	28	0	27,443	56	21	2	27,878
DAIRYLAND/STEALTH-5692	93	50	30	2	27,152	56	20	6	27,733
WENSMAN/W 5212BT	95	50	27	1	25,991	56	20	2	27,588
SEEDS 2000/2953BT	95	51	28	1	28,024	56	20	3	27,733
JACOBSEN/4025	92	49	27	2	25,846	57	21	7	24,829
SEEDS 2000/2933BT	93	50	33	0	27,297	56	21	4	26,717
KRUGER/9496YGCB	94	49	28	1	26,717	57	20	2	27,297
CROW'S/1703 B	95	49	28	1	28,024	57	20	2	27,733
WENSMAN/W 7212RW	95	50	27	0	27,733	55	20	3	27,443

\* RM= relative maturity reported by seed company.

Table 1b. Non-Roundup Ready corn early hybrid averages for bushel weight, kernel moisture, lodging below ear, and harvest population- northern locations (continued).

Brand/Hybrid	RM*	----- Northern Location Averages ----- for bu.wt., kernel moisture, lodging below ear, & plants/acre (ppa)							
		South Shore				Warner			
		Bu. wt. Lb.	H2O %	Ldg. %	PPA	Bu. wt. Lb.	H2O %	Ldg. %	PPA
MIDWEST/G 6963 B	95	49	28	0	25,265	56	20	2	27,733
MALLARD/BT-2430	95	49	28	0	27,298	54	20	3	27,878
JACOBSEN/4068CB	95	51	31	1	27,588	.	.	.	.
MYCOGEN/2K350	93	.	.	.	.	58	19	5	27,878
MYCOGEN/2E390	94	.	.	.	.	59	21	2	27,297
Test avg.:		51	28	1	26,826	57	20	2	27,287
Max-value:		53	33	2	28,169	60	21	7	28,169
Min-value:		49	21	0	24,249	54	17	1	24,394
# Lsd (.05):		1	2	NS	NS	2	1	NS	1,129
## TPG-value:		52	23	2	24,249	58	18	7	27,040
@ Coef.Var.:		2	3	165	4	2	4	91	3
No. Entries:		28	28	28	28	29	29	29	29

\* RM= relative maturity reported by seed company.

Seeding dates: South Shore- May 6 and Warner- May 5, 2004.

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

NS indicates differences among values in a column are non-significant.

## TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. of variation= measure of trial experimental error.

Table 2a. Non-Roundup Ready late maturity corn yield results- northern South Dakota locations, 2003-2004.

Brand/Hybrid	RM*	- Northern Location Averages - for yield (by year)			
		South Shore		Warner	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
KRUGER/9306YGCB	103	161	.	218	.
KRUGER/5594YGCB	96	145	.	228	.
DEKALB/DKC50-18 (YGCB)	100	142	111	227	213
DEKALB/DKC52-45 (YGCB)	102	134	107	233	.
NUTECH/4999 YGCB	99	135	.	229	.
KRUGER/9002YGCB	102	141	.	218	196
KRUGER/9401YGCB	101	129	.	228	.
KRUGER/8504HX	102	132	.	217	.
KRUGER/9404YGCB	103	125	86	207	191
KRUGER/5805YGCB	105	115	.	213	.
KRUGER/8503HX	103	121	.	205	.
KRUGER/9203YGRW	103	129	.	195	.
KRUGER/5405YGCB	105	115	.	208	.
DAIRYLAND/STEALTH-5497	98	.	.	223	208
SANDS/SOI 103YGCB	103	116	91	.	.
MYCOGEN/2R570	104	130	.	.	.
MYCOGEN/2G626	105	118	.	.	.
GOLD COUNTRY/103-02CB	103	126	.	.	.
Test avg.:		130	99	218	202
High value:		161	111	233	213
# Lsd (.05):		13	NS	15	14
## TPG-value:		161	86	218	199
@ Coef.Var.:		6	5	4	5
No. Entries:		17	4	14	4

\* RM= relative maturity reported by seed company.

Seeding dates: South Shore- May 6, and Warner- May 5, 2004.

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

NS indicates differences among values in a column are non-significant.

## TPG-value= minimum value to qualify for top performance group.

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

Table 2b. Non-Roundup Ready corn late hybrid averages for bushel weight, kernel moisture, lodging below ear, and harvest population- northern South Dakota locations, 2003-2004.

Brand/Hybrid	RM*	----- Northern Location Averages ----- for bu.wt., kernel moisture, lodging below ear, & plants/acre (ppa)							
		South Shore				Warner			
		Bu. wt. Lb.	H2O %	Ldg. %	PPA	Bu. wt. Lb.	H2O %	Ldg. %	PPA
KRUGER/5594YGCB	96	52	28	1	27,878	56	21	1	27,007
KRUGER/9306YGCB	103	51	29	2	27,878	55	21	3	27,733
DEKALB/DKC50-18 (YGCB)	100	50	29	1	27,733	55	22	1	27,733
KRUGER/9002YGCB	102	51	26	5	27,443	54	22	3	26,426
KRUGER/9404YGCB	103	50	32	1	28,169	54	23	1	27,588
KRUGER/9401YGCB	101	50	32	1	26,281	54	21	1	27,297
NUTECH/4999 YGCB	99	50	34	1	27,007	54	22	1	27,007
KRUGER/9203YGRW	103	51	31	1	27,007	53	22	6	27,733
DEKALB/DKC52-45 (YGCB)	102	48	30	0	27,152	55	21	1	27,297
KRUGER/5405YGCB	105	50	39	2	27,152	52	26	1	26,426
KRUGER/5805YGCB	105	50	39	4	26,862	52	26	1	25,555
KRUGER/8504HX	102	49	31	2	28,023	53	25	1	27,588
KRUGER/8503HX	103	50	42	4	27,733	50	27	2	27,007
DAIRYLAND/STEALTH-5497	98	.	.	.	.	54	21	0	27,733
SANDS/SOI 103YGCB	103	49	38	0	28,023	.	.	.	.
MYCOGEN/2R570	104	51	41	4	28,024	.	.	.	.
MYCOGEN/2G626	105	50	36	6	26,571	.	.	.	.
GOLD COUNTRY/103-02CB	103	51	37	1	25,991	.	.	.	.
Test avg.:		50	34	2	27,349	54	23	1	27,152
Max-value:		52	42	6	28,169	56	27	6	27,733
Min-value:		49	26	0	25,991	50	21	0	25,555
# Lsd (.05):		NS	2	3	NS	2	1	3	NS
## TPG-value:		49	28	3	25,991	54	22	3	25,555
@ Coef.Var.:		2	4	99	4	2	4	112	4
No. Entries:		17	17	17	17	14	14	14	14

\* RM= relative maturity reported by seed company.

Seeding dates: South Shore- May 6, and Warner- May 5, 2004.

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

NS indicates differences among values in a column are non-significant.

## TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. of variation= measure of trial experimental error, 15% or less is best.

Table 3a. Non-Roundup Ready early maturity corn yield results- central South Dakota locations, 2003-2004.

Brand/Hybrid	RM*	-- Central Location Averages -- for yield (by year)			
		Brookings		Iroquois	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
WENSMAN/W 5212BT	95	196	191	218	156
DEKALB/DKC46-25 (YGPL)	96	206	.	206	.
NUTECH/4595 YGCB	94	196	.	216	.
CROW'S/1703 B	95	202	196	210	153
WENSMAN/W 7315BTRW	100	197	.	215	.
MIDWEST/G 6963 B	95	207	195	196	146
WENSMAN/W 7212RW	95	196	.	207	.
TOP FARM/TFSX 2395	94	199	194	198	.
SEEDS 2000/2953BT	95	199	189	196	147
KRUGER/9496YGCB	94	195	190	199	149
DEKALB/DKC50-18 (YGCB)	100	199	193	191	145
NUTECH/4999 YGCB	99	203	.	187	.
EPLEY/E14H07	100	191	.	199	.
NUTECH/4393 YGCB	95	190	.	197	.
DAIRYLAND/STEALTH-5497	98	188	.	198	144
KRUGER/5594YGCB	96	195	.	188	.
NUTECH/2202 HX	100	187	.	188	.
JACOBSEN/4068CB	95	175	.	190	.
EPLEY/E1157	96	172	.	188	.
NUTECH/4202 YGCB	100	197	.	159	.
KRUGER/5093YGCB	93	173	.	180	.
WENSMAN/W 4212	95	194	182	160	125
TOP FARM/TFSX 7496BT	94	167	.	168	.
JUNG/6432YGCB	95	198	.	.	.
TOP FARM/TFSX 2301	100	176	.	.	.
JACOBSEN/4025	92	.	.	188	.
WENSMAN/W 5117BT	92	.	.	210	156
WENSMAN/W 7117BTRW	92	.	.	177	.
GOLD COUNTRY/94-01CB	94	.	.	211	.
GOLD COUNTRY/99-01CB	99	188	.	.	.

\* RM= relative maturity reported by seed company.

Table 3a. Non-Roundup Ready early maturity corn yield results- central locations (continued).

Brand/Hybrid	RM*	-- Central Location Averages -- for yield (by year)			
		Brookings		Iroquois	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
PFISTER/1499BT	98	178	171	.	.
PFISTER/1680BT	99	183	.	.	.
AGSOURCE SEEDS/3933	96	197	.	.	.
Test avg.:		191	189	194	147
High value:		207	196	218	156
# Lsd (.05):		12	10	29	NS
## TPG-value:		195	186	189	125
@ Coef.Var.:		4	3	9	8
No. Entries:		29	9	27	9

\* RM= relative maturity reported by seed company.

Seeding dates: Brookings- May 7 and Iroquois- April 7, 2004.

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

NS indicates differences among values in a column are non-significant.

## TPG-value= minimum value to qualify for top performance group.

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

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Table 3b. Non-Roundup Ready corn early hybrid averages for bushel weight, kernel moisture, lodging below ear, and harvest population- central South Dakota locations, 2004.

Brand/Hybrid	RM*	----- Central Location Averages ----- for bu.wt., kernel moisture, lodging below ear, & plants/acre (ppa)							
		Brookings				Iroquois			
		Bu. wt. Lb.	H2O %	Ldg. %	PPA	Bu. wt. Lb.	H2O %	Ldg. %	PPA
KRUGER/9496YGCB	94	56	20	1	27,007	61	17	1	26,717
DEKALB/DKC46-25 (YGPL)	96	56	18	1	27,297	61	17	2	28,023
MIDWEST/G 6963 B	95	55	21	1	27,733	62	17	0	27,443
TOP FARM/TFSX 7496BT	94	55	20	1	27,588	61	17	1	25,410
WENSMAN/W 5212BT	95	54	20	2	27,733	62	17	1	27,443
KRUGER/5093YGCB	93	56	19	1	24,103	60	17	0	19,021
KRUGER/5594YGCB	96	55	21	0	27,152	61	17	1	27,298
NUTECH/4595 YGCB	94	55	20	0	28,023	61	17	0	27,588
SEEDS 2000/2953BT	95	55	20	1	27,733	61	17	1	27,733
WENSMAN/W 4212	95	55	20	1	27,733	60	17	0	25,991
TOP FARM/TFSX 2395	94	55	19	1	27,588	60	17	3	26,572
DEKALB/DKC50-18 (YGCB)	100	55	22	1	28,169	60	18	2	27,878
JACOBSEN/4068CB	95	54	19	3	27,443	61	16	2	27,588
NUTECH/4393 YGCB	95	54	22	0	27,007	60	17	2	27,152
CROW'S/1703 B	95	54	21	1	27,733	60	17	2	27,733
WENSMAN/W 7212RW	95	53	20	3	27,588	61	17	1	27,733
DAIRYLAND/STEALTH-5497	98	54	20	1	26,136	60	16	2	27,152
NUTECH/4999 YGCB	99	53	23	0	27,443	61	18	1	26,717
WENSMAN/W 7315BTRW	100	53	22	0	27,733	61	17	1	27,878
NUTECH/4202 YGCB	100	54	22	2	27,007	58	18	2	26,136
EPLEY/E1157	96	51	25	3	26,136	59	19	5	28,169
EPLEY/E14H07	100	50	28	5	27,878	60	17	3	26,572
NUTECH/2202 HX	100	49	28	6	27,733	60	17	6	27,443
JUNG/6432YGCB	95	54	21	1	25,845	.	.	.	.
TOP FARM/TFSX 2301	100	53	22	1	24,829	.	.	.	.

\* RM= relative maturity reported by seed company.



Table 3b. Non-Roundup Ready corn early hybrid averages for bushel weight, kernel moisture, lodging below ear, and harvest population- central locations, 2004 (continued).

Brand/Hybrid	RM*	----- Central Location Averages ----- for bu.wt., kernel moisture, lodging below ear, & plants/acre (ppa)							
		Brookings				Iroquois			
		Bu. wt. Lb.	H2O %	Ldg. %	PPA	Bu. wt. Lb.	H2O %	Ldg. %	PPA
JACOBSEN/4025	92	.	.	.	.	61	17	0	27,152
WENSMAN/W 5117BT	92	.	.	.	.	63	16	5	27,878
WENSMAN/W 7117BTRW	92	.	.	.	.	62	16	2	27,588
GOLD COUNTRY/94-01CB	94	.	.	.	.	61	17	2	27,878
GOLD COUNTRY/99-01CB	99	52	22	0	25,700	.	.	.	.
PFISTER/1499BT	98	54	20	3	27,588	.	.	.	.
PFISTER/1680BT	99	52	25	2	26,281	.	.	.	.
AGSOURCE SEEDS/3933	96	55	21	1	27,152	.	.	.	.
Test avg.:		54	21	1	27,072	61	17	2	26,959
Max-value:		56	28	6	28,169	63	19	6	29,169
Min-value:		49	18	0	24,103	58	16	0	19,021
# Lsd (.05):		2	1	3	1,204	2	3	NS	1,992
## TPG-value:		54	19	3	26,965	61	16	6	27,177
@ Coef.Var.:		2	4	107	3	2	5	127	5
No. Entries:		29	29	29	29	27	27	27	27

\* RM= relative maturity reported by seed company.

Seeding dates: Brookings- May 7 and Iroquois- April 7, 2004.

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

NS indicates differences among values in a column are non-significant.

## TPG-value= minimum or maximum value to qualify for top performance group.

### Coef. of variation= measure of trial experimental error.

Table 4a. Non-Roundup Ready late maturity corn yield results- central South Dakota locations, 2003-2004.

Brand/Hybrid	RM*	-- Central Location Averages -- for yield (by year)			
		Brookings		Iroquois	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
DEKALB/DKC52-45 (YGCB)	102	207	196	229	161
NUTECH/4403 YGCB	103	206	.	226	.
ACCESS/EXP 5503YGCB	103	205	.	221	.
KRUGER/9306YGCB	103	206	194	214	.
DEKALB/DKC54-51 (YGCB)	104	204	.	202	.
NUTECH/4607 YGCB	105	182	.	222	.
KRUGER/8504HX	102	192	.	209	.
KRUGER/8503HX	103	190	.	211	.
KRUGER/5407YGCB	107	185	.	217	.
KRUGER/9203YGRW	103	194	.	203	.
NUTECH/0313	105	177	.	218	.
KRUGER/8407HX	107	173	.	220	.
GOLD COUNTRY/103-02CB	103	189	188	205	.
TOP FARM/TFSX 2300	103	183	.	204	.
KRUGER/5405YGCB	105	183	.	202	.
KRUGER/5207YGCB	110	173	.	213	.
WENSMAN/W 5417BT	107	179	179	206	140
KRUGER/9002YGCB	102	193	.	188	.
KRUGER/9404YGCB	103	192	176	189	125
KRUGER/5208YGCB	110	179	.	201	.
KRUGER/5210YGCB	109	178	.	200	.
KRUGER/5305YGCB	105	175	169	200	.
KRUGER/9401YGCB	101	189	.	185	.
KRUGER/9407YGCB	105	170	.	204	.
NUTECH/EX.607 YGCB	105	182	.	189	.
NUTECH/EX.205 YGCB	105	185	.	187	.
WENSMAN/W 6318BT	104	197	.	174	.
KRUGER/5805YGCB	105	187	.	182	.
TOP FARM/E34105CB	105	179	.	186	.
KRUGER/9305	106	175	.	188	.

\* RM= relative maturity reported by seed company.

Table 4a. Non-Roundup Ready late maturity corn yield results- central locations  
(continued).

Brand/Hybrid	RM*	-- Central Location Averages -- for yield (by year)			
		Brookings		Iroquois	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
KRUGER/0510	108	172	.	117	.
DAIRYLAND/STEALTH-5104	104	193	192	.	.
JUNG/6545YGCB	105	202	.	.	.
SANDS/SOI 103YGCB	103	177	176	.	.
SANDS/SOI 107YGCB	107	186	.	.	.
TOP FARM/TFSX 2405	102	190	.	.	.
TOP FARM/E34103	103	186	.	.	.
ACCESS/EXP 5405YGCB	105	184	.	.	.
JACOBSEN/4358CB	105	185	.	.	.
EPLEY/E2470	110	182	.	.	.
EPLEY/E2410YGCB	107	185	182	.	.
EPLEY/E2490YGCB	110	190	.	.	.
EPLEY/E1442	102	.	.	233	159
EPLEY/E1430YGCB	103	.	.	199	.
EPLEY/E3220YGCB	112	181	.	.	.
MYCOGEN/2R570	104	.	.	223	.
MYCOGEN/2G626	105	.	.	187	.
MYCOGEN/2E633	107	.	.	210	.
PFISTER/EXP 2380	105	189	.	.	.
AGSOURCE SEEDS/5153	105	189	.	.	.
AGSOURCE SEEDS/5393	105	182	.	.	.
Test avg.:		187	184	202	146
High value:		207	196	233	161
# Lsd (.05):		15	NS	36	19
## TPG-value:		192	169	197	142
@ Coef.Var.:		5	4	11	7
No. Entries:		46	9	36	4

\* RM= relative maturity reported by seed company.

Seeding dates: Brookings- May 7 and Iroquois- April 30, 2004.

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

NS indicates differences among values in a column are non-significant.

## TPG-value= minimum value to qualify for top performance group.

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

Table 4b. Non-Roundup Ready corn late hybrid averages for bushel weight, kernel moisture, lodging below ear, and harvest population- central South Dakota locations, 2004.

Brand/Hybrid	RM*	-- Central Location Averages -- for bu.wt., kernel moisture, lodgingbelow ear, & plants/acre (ppa)							
		Brookings				Iroquois			
		Bu. wt. Lb.	H2O %	Ldg. %	PPA	Bu. wt. Lb.	H2O %	Ldg. %	PPA
KRUGER/9002YGCB	102	55	20	1	27,007	60	17	6	28,169
DEKALB/DKC52-45 (YGCB)	102	55	21	0	27,588	59	17	0	27,878
KRUGER/9203YGRW	103	54	23	2	27,152	60	17	0	26,426
KRUGER/9404YGCB	103	55	23	0	27,733	59	17	4	27,878
DEKALB/DKC54-51 (YGCB)	104	55	24	1	27,733	59	20	6	27,007
KRUGER/9407YGCB	105	53	26	1	24,974	61	21	2	26,572
GOLD COUNTRY/103-02CB	103	53	27	0	24,248	61	21	1	24,394
NUTECH/0313	105	52	30	1	27,733	61	23	5	28,023
KRUGER/5210YGCB	109	54	29	2	27,152	58	21	2	27,588
NUTECH/4403 YGCB	103	54	23	2	27,443	58	17	3	27,878
ACCESS/EXP 5503YGCB	103	52	26	0	27,588	59	19	1	28,459
KRUGER/8504HX	102	53	23	1	27,152	58	19	8	27,588
TOP FARM/TFSX 2300	103	52	29	2	27,297	60	18	1	26,862
KRUGER/5305YGCB	105	52	27	1	23,813	59	18	3	25,119
KRUGER/9306YGCB	103	53	23	3	27,733	58	19	1	26,862
TOP FARM/E34105CB	105	52	27	2	26,136	59	18	4	26,281
KRUGER/9401YGCB	101	52	23	2	26,136	59	17	8	26,281
KRUGER/9305	106	52	26	2	25,846	58	17	3	27,007
KRUGER/5405YGCB	105	52	28	1	27,007	58	20	1	25,991
KRUGER/5805YGCB	105	51	27	1	24,975	58	20	4	26,427
KRUGER/5208YGCB	110	51	28	2	27,443	58	20	1	22,942
NUTECH/EX.607 YGCB	105	50	30	2	26,281	59	18	5	27,298
WENSMAN/W 6318BT	104	52	29	0	27,443	56	19	4	27,007
KRUGER/8503HX	103	51	28	2	26,862	58	18	6	28,023
KRUGER/8407HX	107	51	31	1	24,394	57	20	2	27,152
KRUGER/5407YGCB	107	51	30	3	27,152	57	22	8	27,733
NUTECH/4607 YGCB	105	50	30	0	27,879	57	20	1	26,136
KRUGER/5207YGCB	110	49	28	2	26,571	59	20	3	27,007
WENSMAN/W 5417BT	107	49	31	1	27,298	56	20	4	27,443
NUTECH/EX.205 YGCB	105	50	27	3	23,087	56	19	2	26,862

\* RM= relative maturity reported by seed company.

Table 4b. Non-Roundup Ready corn late hybrid averages for bushel weight, kernel moisture, lodging below ear, and harvest population- central locations, 2004 (continued).

Brand/Hybrid	RM*	-- Central Location Averages -- for bu.wt., kernel moisture, lodging below ear, & plants/acre (ppa)							
		Brookings				Iroquois			
		Bu. wt. Lb.	H2O %	Ldg. %	PPA	Bu. wt. Lb.	H2O %	Ldg. %	PPA
KRUGER/0510	108	50	33	3	26,717	53	24	4	25,265
DAIRYLAND/STEALTH-5104	104	54	26	1	27,588	.	.	.	.
JUNG/6545YGCB	105	53	26	0	27,878	.	.	.	.
SANDS/SOI 103YGCB	103	51	26	1	25,845	.	.	.	.
SANDS/SOI 107YGCB	107	55	25	0	27,297	.	.	.	.
TOP FARM/TFSX 2405	102	52	26	6	27,443	.	.	.	.
TOP FARM/E34103	103	52	29	2	27,152	.	.	.	.
ACCESS/EXP 5405YGCB	105	51	26	0	26,717	.	.	.	.
JACOBSEN/4358CB	105	53	31	1	27,733	.	.	.	.
EPLEY/E2470	110	51	28	0	27,298	.	.	.	.
EPLEY/E2410YGCB	107	51	29	1	27,588	.	.	.	.
EPLEY/E2490YGCB	110	51	34	0	26,862	.	.	.	.
EPLEY/E1442	102	.	.	.	.	60	19	0	28,314
EPLEY/E1430YGCB	103	.	.	.	.	57	23	0	25,265
EPLEY/E3220YGCB	112	53	32	2	27,588	.	.	.	.
MYCOGEN/2R570	104	.	.	.	.	59	17	6	28,024
MYCOGEN/2G626	105	.	.	.	.	58	19	1	27,588
MYCOGEN/2E633	107	.	.	.	.	57	20	1	27,153
PFISTER/EXP 2380	105	53	27	2	27,007	.	.	.	.
AGSOURCE SEEDS/5153	105	51	28	3	27,298	.	.	.	.
AGSOURCE SEEDS/5393	105	52	27	1	25,119	.	.	.	.
Test avg.:		52	27	1	26,739	58	19	3	26,886
Max-value:		55	34	6	27,879	61	24	8	28,459
Min-value:		49	20	0	23,087	53	17	0	22,942
# Lsd (.05):		2	1	3	2,131	3	3	NS	2,149
## TPG-value:		53	21	3	25,748	58	20	8	26,310
@ Coef.Var.:		2	3	120	5	3	9	124	5
No. Entries:		46	46	46	46	36	36	36	36

\* RM= relative maturity reported by seed company.

Seeding dates: Brookings- May 7 and Iroquois- April 30, 2004.

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

NS indicates differences among values in a column are non-significant.

## TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. of variation= measure of trial experimental error.

Table 5a. Non-Roundup Ready early maturity corn yield results- southern South Dakota locations, 2003-2004.

Brand/Hybrid	RM*	- Southern location Averages - for yield (by year)			
		Beresford		Armour	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
NUTECH/EX.607 YGCB	105	252	.	121	.
TOP FARM/TFSX 2405	102	239	.	135	.
NUTECH/4403 YGCB	103	238	.	129	.
NUTECH/2202 HX	100	241	.	125	.
JACOBSEN/4358CB	105	243	.	122	.
TOP FARM/E34105CB	105	227	.	136	.
DEKALB/DKC54-51 (YGCB)	104	230	.	132	.
NUTECH/0313	105	236	.	126	.
HEINE/H728YGCB	103	236	.	123	.
ACCESS/EXP 5405YGCB	105	239	.	109	.
HEINE/H760YGCB	105	233	.	112	.
NUTECH/4202 YGCB	100	228	.	116	.
HEINE/H748YGCB	105	241	.	98	.
KRUGER/5305YGCB	105	215	.	121	104
NUTECH/EX.205 YGCB	105	223	.	108	.
DEKALB/DKC50-18 (YGCB)	100	.	.	123	108
DEKALB/DKC52-45 (YGCB)	102	.	.	135	113
DEKALB/DKC60-14 (YGPL)	110	245	.	.	.
DAIRYLAND/STEALTH-1507BT	108	232	212	.	.
DAIRYLAND/STEALTH-5104	104	.	.	131	106
NUTECH/4407 YGCB	107	237	.	.	.
NUTECH/EX.308 YGCB	107	232	.	.	.
SANDS/SOI 103YGCB	103	212	.	.	.
SANDS/SOI 107YGCB	107	227	.	.	.
SANDS/SOI 110YGCB	110	237	.	.	.
TOP FARM/TFSX 2300	103	248	.	.	.
TOP FARM/E34103	103	.	.	115	.
TOP FARM/E34107CB	107	214	.	.	.
TOP FARM/E34110BCB	109	234	.	.	.
TOP FARM/E34110DCB	110	244	.	.	.
KRUGER/9306YGCB	103	.	.	120	103
KRUGER/9404YGCB	103	.	.	113	85
KRUGER/9203YGRW	103	.	.	131	.
KRUGER/8503HX	103	.	.	136	.
KRUGER/5405YGCB	105	.	.	131	.

\* RM= relative maturity reported by seed company.

Table 5a. Non-Roundup Ready early maturity corn yield results- southern locations (continued).

Brand/Hybrid	RM*	- Southern location Averages - for yield (by year)			
		Beresford		Armour	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
KRUGER/5805YGCB	105	.	.	102	.
KRUGER/9407YGCB	105	.	.	116	.
KRUGER/8407HX	107	225	.	.	.
KRUGER/5407YGCB	107	240	.	.	.
KRUGER/0510	108	233	.	.	.
KRUGER/5210YGCB	109	225	.	.	.
KRUGER/5208YGCB	110	243	.	.	.
KRUGER/5207YGCB	110	245	.	.	.
ACCESS/EXP 5910YGCB	110	213	.	.	.
ACCESS/EXP 5503YGCB	103	.	.	131	.
CROW'S/438 B	108	227	208	.	.
MIDWEST/G 7716 B	110	250	215	.	.
WENSMAN/W 5417BT	107	233	205	.	.
WENSMAN/W 5437BT	110	242	210	.	.
WENSMAN/W 7315BTRW	100	.	.	136	.
WENSMAN/W 6318BT	104	.	.	133	.
HEINE/H745YGCB	104	225	210	.	.
HEINE/H821YGCB	110	226	.	.	.
HEINE/H820YGCB	109	252	.	.	.
HEINE/H793YGCB	107	234	.	.	.
HEINE/H761	106	229	.	.	.
GOLD COUNTRY/110-07CB	110	259	.	.	.
AGSOURCE SEEDS/5153	105	.	.	143	116
AGSOURCE SEEDS/5393	105	.	.	123	.
AGSOURCE SEEDS/5883	109	249	.	.	.
Test avg.:		235	210	124	105
High value:		259	215	143	116
# Lsd (.05):		15	NS	28	18
## TPG-value:		244	205	115	98
@ Coef.Var.:		4	4	14	12
No. Entries:		44	6	31	7

\* RM= relative maturity reported by seed company.

Seeding dates: Beresford- May 4 and Armour- May 3, 2004.

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

NS indicates differences among values in a column are non-significant.

## TPG-value= minimum value to qualify for top performance group.

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

Table 5b. Non-Roundup Ready corn early hybrid averages for bushel weight, kernel moisture, lodging below ear, and harvest population- southern South Dakota locations, 2004.

Brand/Hybrid	RM*	----- Southern Location Averages ----- for bu.wt., kernel moisture, lodging below ear, & plants/acre (ppa)							
		Beresford				Armour			
		Bu. wt. Lb.	H2O %	Ldg. %	PPA	Bu. wt. Lb.	H2O %	Ldg. %	PPA
DEKALB/DKC54-51 (YGCB)	104	62	17	5	27,733	59	15	7	27,588
JACOBSEN/4358CB	105	60	20	1	27,733	60	17	1	26,717
HEINE/H728YGCB	103	61	19	0	27,588	59	16	1	26,427
NUTECH/4202 YGCB	100	62	19	1	27,588	58	15	4	27,733
NUTECH/0313	105	61	21	3	27,878	58	16	2	26,717
TOP FARM/E34105CB	105	61	19	0	27,297	58	16	2	23,668
HEINE/H748YGCB	105	60	20	1	27,878	59	18	7	27,007
ACCESS/EXP 5405YGCB	105	61	19	0	27,443	57	16	1	26,717
NUTECH/EX.607 YGCB	105	60	19	0	28,023	58	16	3	26,136
NUTECH/4403 YGCB	103	61	17	1	27,443	57	15	2	27,007
KRUGER/5305YGCB	105	60	18	2	27,298	57	15	3	23,813
TOP FARM/TFSX 2405	102	61	18	3	27,297	56	15	6	25,846
NUTECH/EX.205 YGCB	105	59	17	1	28,169	56	15	4	26,426
NUTECH/2202 HX	100	60	18	4	27,443	55	15	4	27,007
HEINE/H760YGCB	105	60	21	0	27,152	54	16	5	25,265
DEKALB/DKC50-18 (YGCB)	100	.	.	.	.	59	15	3	25,846
DEKALB/DKC52-45 (YGCB)	102	.	.	.	.	58	15	1	26,426
DEKALB/DKC60-14 (YGPL)	110	60	20	0	27,588	.	.	.	.
DAIRYLAND/STEALTH-1507BT	108	59	19	1	27,443	.	.	.	.
DAIRYLAND/STEALTH-5104	104	.	.	.	.	59	16	0	26,426
NUTECH/4407 YGCB	107	60	20	5	27,588	.	.	.	.
NUTECH/EX.308 YGCB	107	60	20	1	28,169	.	.	.	.
SANDS/SOI 103YGCB	103	60	17	0	27,298	.	.	.	.
SANDS/SOI 107YGCB	107	61	19	0	27,443	.	.	.	.
SANDS/SOI 110YGCB	110	59	21	2	25,991	.	.	.	.
TOP FARM/TFSX 2300	103	61	18	0	28,169	.	.	.	.
TOP FARM/E34103	103	.	.	.	.	57	15	3	24,394
TOP FARM/E34107CB	107	59	18	1	27,443	.	.	.	.
TOP FARM/E34110BCB	109	59	20	0	27,007	.	.	.	.
TOP FARM/E34110DCB	110	59	21	1	27,152	.	.	.	.
KRUGER/9306YGCB	103	.	.	.	.	59	16	1	26,136
KRUGER/9404YGCB	103	.	.	.	.	60	15	3	27,152
KRUGER/9203YGRW	103	.	.	.	.	58	15	2	25,846
KRUGER/8503HX	103	.	.	.	.	55	15	4	25,991
KRUGER/5405YGCB	105	.	.	.	.	59	17	1	25,265



Table 5b. Non-Roundup Ready corn early hybrid averages for bushel weight, kernel moisture, lodging below ear, and harvest population- southern locations, 2004 (continued).

Brand/Hybrid	RM*	----- Southern Location Averages ----- for bu.wt., kernel moisture, lodging below ear, & plants/acre (ppa)							
		Beresford				Armour			
		Bu. wt. Lb.	H2O %	Ldg. %	PPA	Bu. wt. Lb.	H2O %	Ldg. %	PPA
KRUGER/5805YGCB	105	.	.	.	.	58	16	1	25,991
KRUGER/9407YGCB	105	.	.	.	.	60	16	1	23,087
KRUGER/8407HX	107	60	20	2	25,265	.	.	.	.
KRUGER/5407YGCB	107	60	18	2	27,588	.	.	.	.
KRUGER/0510	108	60	19	1	27,443	.	.	.	.
KRUGER/5210YGCB	109	60	20	2	27,443	.	.	.	.
KRUGER/5208YGCB	110	61	19	2	27,878	.	.	.	.
KRUGER/5207YGCB	110	60	20	0	27,443	.	.	.	.
ACCESS/EXP 5910YGCB	110	62	19	2	27,733	.	.	.	.
ACCESS/EXP 5503YGCB	103	.	.	.	.	61	16	0	27,297
CROW'S/438 B	108	59	19	2	27,443	.	.	.	.
MIDWEST/G 7716 B	110	58	22	2	27,588	.	.	.	.
WENSMAN/W 5417BT	107	59	20	0	27,152	.	.	.	.
WENSMAN/W 5437BT	110	59	21	0	27,007	.	.	.	.
WENSMAN/W 7315BTRW	100	.	.	.	.	60	16	0	26,426
WENSMAN/W 6318BT	104	.	.	.	.	58	16	2	26,426
HEINE/H745YGCB	104	61	19	1	27,297	.	.	.	.
HEINE/H821YGCB	110	59	21	3	27,878	.	.	.	.
HEINE/H820YGCB	109	59	22	2	27,588	.	.	.	.
HEINE/H793YGCB	107	59	19	3	27,878	.	.	.	.
HEINE/H761	106	63	19	1	26,571	.	.	.	.
GOLD COUNTRY/110-07CB	110	58	22	1	26,862	.	.	.	.
AGSOURCE SEEDS/5153	105	.	.	.	.	57	16	2	26,717
AGSOURCE SEEDS/5393	105	.	.	.	.	58	16	2	25,700
AGSOURCE SEEDS/5883	109	59	21	2	27,588	.	.	.	.
Test avg.:		60	19	1	27,429	58	16	2	26,103
Max-value:		63	22	5	28,169	61	18	7	27,733
Min-value:		58	17	0	25,265	54	15	0	23,087
# Lsd (.05):		1	1	NS	1,148	2	1	4	1,626
## TPG-value:		62	18	5	27,021	59	16	4	26,107
@ Coef.Var.:		1	3	148	3	2	4	92	4
No. Entries:		44	44	44	44	31	31	31	31

\* RM= relative maturity reported by seed company.

Seeding dates: Beresford- May 4 and Armour- May 3, 2004.

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

NS indicates differences among values in a column are non-significant.

## TPG-value= minimum value to qualify for top performance group.

@ Coef. of variation= a measure of trial experimental error.

Table 6a. Non-Roundup Ready late maturity corn yield results- southern South Dakota locations, 2003-2004.

Brand/Hybrid	RM*	- Southern Location Averages - for yield (by year)			
		Beresford		Armour	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
NUTECH/EX.713 YGCB	114	253	.	143	.
KRUGER/5615YGCB	116	239	.	155	.
JACOBSEN/4637CB	111	255	.	137	.
JACOBSEN/4757CB	112	257	215	131	94
KRUGER/5512YGCB	114	245	.	139	.
KRUGER/5211YGCB	112	249	.	133	.
KRUGER/5516YGCB	116	239	.	142	.
NUTECH/EX.539 YGCB	111	229	.	148	.
NUTECH/4213 YGCB	115	250	.	128	.
KRUGER/9212YGCB	112	258	214	120	.
KRUGER/9115YGCB	115	256	212	122	.
NUTECH/EX.317 YGCB	111	234	.	140	.
KRUGER/8513HX	113	250	.	122	.
KRUGER/5815YGCB	114	238	.	134	.
KRUGER/5514YGCB	116	235	.	136	.
DAIRYLAND/STEALTH-5611	112	254	.	115	.
KRUGER/5416YGCB	115	237	.	132	.
KRUGER/5315YGCB	115	235	.	134	.
KRUGER/5717YGCB	117	246	.	123	.
KRUGER/9111YGCB	113	243	.	113	96
KRUGER/8413HX	113	233	.	117	.
NUTECH/2414 HX	114	229	.	110	.
NUTECH/4013 YGCB	112	237	.	100	.
DEKALB/DKC63-79 (YGCB)	113	240	208	.	.
DEKALB/DKC60-14 (YGPL)	110	.	.	120	.
DAIRYLAND/STEALTH-1507BT	108	.	.	120	99
NUTECH/4407 YGCB	107	.	.	113	.
NUTECH/EX.308 YGCB	107	.	.	117	.
SANDS/SOI 113YGCB	113	217	.	.	.
ASGROW/RX718YGPL	111	227	.	.	.
TOP FARM/E34107CB	107	.	.	116	.
TOP FARM/E34110BCB	109	.	.	130	.
TOP FARM/E34110DCB	110	.	.	120	.
KAYSTAR/KX-8615BT	112	247	.	.	.
KRUGER/9305	106	.	.	115	.

\* RM= relative maturity reported by seed company.

Table 6a. Non-Roundup Ready late maturity corn yield results- southern locations, (continued).

Brand/Hybrid	RM*	- Southern Location Averages - for yield (by year)			
		Beresford		Armour	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
KRUGER/8407HX	107	.	.	109	.
KRUGER/5407YGCB	107	.	.	144	.
KRUGER/0510	108	.	.	81	.
KRUGER/5210YGCB	109	.	.	130	.
KRUGER/5208YGCB	110	.	.	107	.
KRUGER/5207YGCB	110	.	.	112	.
ACCESS/EXP 5910YGCB	110	.	.	132	.
CROW'S/5366 B	112	252	211	.	.
MIDWEST/G 8125 B	112	259	212	.	.
EPLEY/E2470	110	.	.	108	.
EPLEY/E2410YGCB	107	.	.	125	.
EPLEY/E2490YGCB	110	.	.	125	.
EPLEY/E3220YGCB	112	.	.	122	.
EPLEY/E37H07	115	.	.	126	.
WENSMAN/W 5417BT	107	.	.	131	101
WENSMAN/W 5437BT	110	.	.	131	.
HEINE/H8600YGCB	113	261	.	.	.
AGSOURCE SEEDS/6183	112	261	218	.	.
AGSOURCE SEEDS/6163	111	251	.	.	.
AGSOURCE SEEDS/5883	109	.	.	126	.
Test avg.:		244	213	125	98
High value:		261	218	155	101
# Lsd (.05):		14	NS	28	NS
## TPG-value:		247	208	127	94
@ Coef.Var.:		4	6	14	13
No. Entries:		32	7	46	4

\* RM= relative maturity reported by seed company.

Seeding dates: Beresford- May 4 and Armour- May 3, 2004.

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

NS indicates differences among values in a column are non-significant.

## TPG-value= minimum value to qualify for top performance group.

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

Table 6b. Non-Roundup Ready corn late hybrid averages for bushel weight, kernel moisture, lodging below ear, and harvest population- southern South Dakota locations, 2004.

Brand/Hybrid	RM*	----- Southern Location Averages ----- for bu.wt., kernel moisture, lodging below ear, & plants/acre (ppa)							
		Beresford				Armour			
		Bu. wt. Lb.	H2O %	Ldg. %	PPA	Bu. wt. Lb.	H2O %	Ldg. %	PPA
KRUGER/5514YGCB	116	59	21	2	27,733	60	18	2	27,297
NUTECH/EX.713 YGCB	114	59	21	1	26,862	60	20	11	25,410
KRUGER/5512YGCB	114	58	22	3	26,717	60	20	8	25,845
KRUGER/9111YGCB	113	59	20	3	28,169	58	18	3	25,265
NUTECH/EX.539 YGCB	111	59	20	2	27,152	57	18	6	24,539
JACOBSEN/4637CB	111	59	21	1	26,572	58	20	4	26,862
KRUGER/9212YGCB	112	58	22	1	27,152	58	19	7	24,974
KRUGER/5416YGCB	115	57	23	0	27,152	58	20	11	25,845
NUTECH/4213 YGCB	115	58	23	1	26,862	58	22	6	25,846
NUTECH/4013 YGCB	112	59	21	2	28,169	57	20	7	25,701
KRUGER/5211YGCB	112	58	22	2	27,443	57	18	11	26,426
KRUGER/5516YGCB	116	58	24	0	27,007	57	20	1	25,845
KRUGER/8513HX	113	58	23	1	27,007	57	19	1	26,426
DAIRYLAND/STEALTH-5611	112	59	21	3	27,733	56	17	7	26,571
KRUGER/5615YGCB	116	57	23	4	27,733	58	21	3	24,249
KRUGER/9115YGCB	115	57	24	1	26,572	58	19	6	26,136
JACOBSEN/4757CB	112	57	24	2	27,443	57	21	9	25,700
KRUGER/5315YGCB	115	57	26	5	27,588	57	22	7	27,007
NUTECH/2414 HX	114	57	21	2	27,007	57	18	9	25,410
KRUGER/8413HX	113	57	23	4	28,169	56	19	7	23,813
KRUGER/5717YGCB	117	55	24	0	27,878	57	21	4	25,555
NUTECH/EX.317 YGCB	111	56	25	1	27,007	55	23	4	26,426
KRUGER/5815YGCB	114	53	26	1	28,169	55	20	4	26,572
DEKALB/DKC63-79 (YGCB)	113	59	22	1	28,169	.	.	.	.
DEKALB/DKC60-14 (YGPL)	110	.	.	.	.	58	17	2	24,394
DAIRYLAND/STEALTH-1507BT	108	.	.	.	.	57	18	8	24,829
NUTECH/4407 YGCB	107	.	.	.	.	57	18	10	26,571
NUTECH/EX.308 YGCB	107	.	.	.	.	59	17	5	25,991
SANDS/SOI 113YGCB	113	60	21	1	25,700	.	.	.	.
ASGROW/RX718YGPL	111	61	20	2	27,152	.	.	.	.
TOP FARM/E34107CB	107	.	.	.	.	59	19	8	24,103
TOP FARM/E34110BCB	109	.	.	.	.	59	18	3	23,958
TOP FARM/E34110DCB	110	.	.	.	.	57	20	10	25,555
KAYSTAR/KX-8615BT	112	57	21	7	27,298	.	.	.	.
KRUGER/9305	106	.	.	.	.	59	15	2	25,265

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Table 6b. Non-Roundup Ready corn late hybrid averages for bushel weight, kernel moisture, lodging below ear, and harvest population- southern locations, 2004 (continued).

Brand/Hybrid	RM*	----- Southern Location Averages ----- for bu.wt., kernel moisture, lodging below ear, & plants/acre (ppa)							
		Beresford				Armour			
		Bu. wt. Lb.	H2O %	Ldg. %	PPA	Bu. wt. Lb.	H2O %	Ldg. %	PPA
KRUGER/8407HX	107	.	.	.	.	58	16	8	24,684
KRUGER/5407YGCB	107	.	.	.	.	57	18	5	26,136
KRUGER/0510	108	.	.	.	.	57	21	9	24,394
KRUGER/5210YGCB	109	.	.	.	.	59	18	10	23,958
KRUGER/5208YGCB	110	.	.	.	.	58	16	3	23,813
KRUGER/5207YGCB	110	.	.	.	.	59	18	6	26,136
ACCESS/EXP 5910YGCB	110	.	.	.	.	59	16	3	25,845
CROW'S/5366 B	112	57	25	2	27,007	.	.	.	.
MIDWEST/G 8125 B	112	57	25	1	27,733	.	.	.	.
EPLEY/E2470	110	.	.	.	.	58	17	8	24,684
EPLEY/E2410YGCB	107	.	.	.	.	59	16	2	26,717
EPLEY/E2490YGCB	110	.	.	.	.	57	17	6	24,684
EPLEY/E3220YGCB	112	.	.	.	.	57	22	2	23,232
EPLEY/E37H07	115	.	.	.	.	55	18	5	25,991
WENSMAN/W 5417BT	107	.	.	.	.	58	19	5	23,522
WENSMAN/W 5437BT	110	.	.	.	.	58	19	7	24,829
HEINE/H8600YGCB	113	57	24	2	28,314	.	.	.	.
AGSOURCE SEEDS/6183	112	57	24	4	27,878	.	.	.	.
AGSOURCE SEEDS/6163	111	59	22	3	27,878	.	.	.	.
AGSOURCE SEEDS/5883	109	.	.	.	.	59	20	12	23,377
Test avg.:		58	23	2	27,388	58	19	6	25,356
Max-value:		61	26	7	28,314	60	23	12	27,297
Min-value:		53	20	0	25,700	55	15	1	23,232
# Lsd (.05):		2	1	4	NS	2	3	6	1,376
## TPG-value:		59	21	4	25,700	58	18	7	25,921
@ Coef.Var.:		2	4	111	3	2	10	65	3
# Entries:		32	32	32	32	46	46	46	46

\* RM= relative maturity reported by seed company.

Seeding dates: Beresford- May 4 and Armour- May 3, 2004.

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

NS indicates differences among values in a column are non-significant.

## TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. of variation= measure of trial experimental error.

Table E. 2004 corn performance trials - Roundup Ready entries by brand/hybrid, and yield table number(s).

Brand / Hybrid	Table No.	Brand / Hybrid	Table No.
ACCESS/EXP 2506RRYGCB	10,11,12	HEINE/H750RR/YGCB	8,10,11
ACCESS/EXP1500RR	8,9	HEINE/H793RR/YGCB	11,12
ACCESS/EXP1597RR	8,9	HEINE/H851RR/YGCB	12
AGSOURCE SEEDS/3566	7	HEINE/H8600RR/YGCB	12
AGSOURCE SEEDS/3931	8,9	INTEGRA/INT 6193RRYG	7,9
AGSOURCE SEEDS/4556	8,10,11	INTEGRA/INT 6390RRYG	9
AGSOURCE SEEDS/5286CBRR	10,11,12	INTEGRA/INT 6395RR	7,9
AGSOURCE SEEDS/5356	10,12	INTEGRA/INT 6504RRYGCB	10,11,12
AGSOURCE SEEDS/6166	12	INTEGRA/INT 6593RRYG	9
ASGROW/RX718RR/YG	11	JACOBSEN/4167RBT	8,10
CHANNEL/6925RB	7,9	JACOBSEN/4358R	10,11
CHANNEL/6939RB	7,9	JACOBSEN/4637RBT	11,12
CHANNEL/6965 R	7,9	JACOBSEN/4757RBT	12
CHANNEL/7135RB	8,10,11	JUNG/6418RR/YGCB	9
CHANNEL/7138RB	8,10,11	JUNG/6445RR	9
CHANNEL/7624RB	11,12	KALTENBERG/K4666RR	9
CHANNEL/7806RB	11,12	KALTENBERG/K5244RRBT	10,11
CHANNEL/8075RB	12	KALTENBERG/K5711RR	11
CHANNEL/8127RB	12	KALTENBERG/K5717RRBT	10,11
DAIRYLAND/STEALTH-1606	11,12	KALTENBERG/K6788RR	11
DAIRYLAND/STEALTH-6497	8,9	KAYSTAR/KX-4000RRBT	7
DAIRYLAND/STEALTH-7507	11,12	KAYSTAR/KX-5150RR	7,9
DEKALB/DKC42-95RR2YGCB	7	KAYSTAR/KX-5900RR	9
DEKALB/DKC44-46RR2YGCB	7,9	KAYSTAR/KX-6650RR	11
DEKALB/DKC47-10RR2YGCB	8,9,11	KELTGEN/AV4005R2CB	7
DEKALB/DKC48-52 (RR2)	8,9,11	KELTGEN/AV4882R2	7
DEKALB/DKC50-20RR2YGCB	8,9,11	KRUGER/1006RR	10,11,12
DEKALB/DKC52-47RR2YGCB	10	KRUGER/1100RR	8,9
DEKALB/DKC53-34RR2YGCB	10,11	KRUGER/1200RR	8,9
DEKALB/DKC58-80RR2YGCB	11,12	KRUGER/1202RR	8,10
DEKALB/DKC60-19RR2YGCB	11,12	KRUGER/1506RR	8,10,11
DEKALB/DKC63-81RR2YGCB	12	KRUGER/1806RR	10,11,12
EPLEY/E1155RR	9	KRUGER/2103RR/YGCB	8,10,11
EPLEY/E1165RR	9	KRUGER/2291RR/YGCB	7
EPLEY/E1175RR	9,11	KRUGER/2391RR/YGCB	7
EPLEY/E1455RR	10,11	KRUGER/2613RR/YGCB	12
EPLEY/E1465RR	10,11	KRUGER/4193RR/YGRW	7,9
EPLEY/E1475RR	10,11	KRUGER/9115RR/YGCB	12
EPLEY/E1515RR	10,11	KRUGER/9203RR/YGCB	8,10,11
EPLEY/E2425RR	10,12	KRUGER/9208RR	10,11,12
GOLD COUNTRY/1016RRBT	8,10	KRUGER/9208RR/YGCB	10,11,12
GOLD COUNTRY/105-03CBR	10,11	KRUGER/9212RR/YGCB	12
GOLD COUNTRY/92-01CBR	7	KRUGER/9308RR/YGCB	10,12
HEINE/H625RR/YGCB	7	KRUGER/9392RR	7,9
HEINE/H630RR	7,9	KRUGER/9392RR/YGCB	7
HEINE/H710RR/YGCB	8,9,11	KRUGER/9412RR/YGCB	12
HEINE/H723RR/YGCB	8,9,11	KRUGER/9496RR	7
HEINE/H728RR/YGCB	8,9,11	MALLARD/EXP 05-09	7
HEINE/H748RR	8,10,11	MALLARD/RRBT-5810	7

Table E. 2004 corn performance trials - Roundup Ready entries and table number(s)  
(Continued).

Brand / Hybrid	Table No.	Brand / Hybrid	Table No.
MYCOGEN/2H398	8		
MYCOGEN/2K541	8,10		
MYCOGEN/2R416	7		
MYCOGEN/2T336	7		
MYCOGEN/2T655	10		
NUTECH/3005 RR/YGCB	8,9		
NUTECH/3595 RR	7,9		
NUTECH/5101 RR/YGCB	8,9		
NUTECH/5212 RR/YGCB	12		
NUTECH/5592 RR/YGCB	7		
NUTECH/5702 RR/YGCB	10,11		
NUTECH/5808 RR/YGCB	12		
NUTECH/5990 RR/YGCB	7		
PFISTER/2656 RR-BT	10,11		
SANDS/NGS 1030RR/YGCB	8,10,11		
SANDS/NGS 1100RR	11		
SEEDS 2000/2944RRBT	9		
SEEDS 2000/2953RR	9		
SEEDS 2000/3122RRBT	8,10		
TOP FARM/8301RR	9		
TOP FARM/8395RR	9		
TOP FARM/8403RR	10,11		
TOP FARM/9305RY	10,11		
TOP FARM/9391RY	9		
TOP FARM/E34100RR	9		
TOP FARM/E34102BRCB	10,11,12		
TOP FARM/E34102RR	10,11		
TOP FARM/E34103BRCB	10,11		
TOP FARM/E34110RCB	11,12		
WECO SEEDS/EXPCS90RR	7,9		
WECO SEEDS/EXPCS95RR	7,9		
WENSMAN/W 6116RR	7,9		
WENSMAN/W 6117BTRR	7,9		
WENSMAN/W 6212RR	7,9		
WENSMAN/W 6274RR	8,9		
WENSMAN/W 6315BTRR	10,11		
WENSMAN/W 6422BTRR	10,11,12		
WENSMAN/W 7111RWRR	7,9		
WENSMAN/W 7309RWRR	8,9		

Table 7a. Roundup Ready early maturity corn yield results- northern South Dakota locations, 2003-2004.

Brand/Hybrid	RM*	- Northern Location Averages - for yield (by year)			
		South Shore		Warner	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
KRUGER/9392RR/YGCB	92	154	117	240	214
DEKALB/DKC42-95RR2YGCB	92	155	122	233	215
WENSMAN/W 6212RR	95	150	113	237	219
MYCOGEN/2R416	95	154	.	232	.
KRUGER/9392RR	90	156	116	226	199
KRUGER/9496RR	94	151	113	230	210
INTEGRA/INT 6395RR	95	153	116	229	205
NUTECH/3595 RR	94	148	.	231	.
KRUGER/2291RR/YGCB	91	158	.	222	.
SEEDS 2000/2944RRBT	94	150	.	228	212
WECO SEEDS/EXPCS90RR	90	143	.	230	.
SEEDS 2000/2953RR	95	150	114	223	206
WENSMAN/W 6116RR	91	151	115	221	206
CHANNEL/6925RB	92	146	112	226	207
CHANNEL/6939RB	93	144	111	227	212
KRUGER/2391RR/YGCB	92	143	114	226	213
CHANNEL/6965 R	95	141	.	228	.
KELTGEN/AV4005R2CB	92	143	.	225	.
WENSMAN/W 6117BTRR	92	147	115	220	210
DEKALB/DKC44-46RR2YGCB	94	140	110	223	214
KELTGEN/AV4882R2	94	142	.	221	.
MALLARD/EXP 05-09	92	142	.	222	.
NUTECH/5990 RR/YGCB	92	145	.	219	.
NUTECH/5592 RR/YGCB	93	145	.	219	.
GOLD COUNTRY/92-01CBR	92	143	.	215	207
WENSMAN/W 7111RWRR	90	146	.	210	.
KRUGER/4193RR/YGRW	93	145	.	206	.
INTEGRA/INT 6193RRYG	92	139	109	207	204
WECO SEEDS/EXPCS95RR	95	136	.	183	.
MALLARD/RRBT-5810	90	116	.	198	.

\* RM= relative maturity reported by seed company.



Table 7a. Roundup Ready early maturity corn yield results- northern locations, (continued).

Brand/Hybrid	RM*	- Northern Location Averages - for yield (by year)			
		South Shore		Warner	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
KAYSTAR/KX-400RRBT	91	.	.	224	210
KAYSTAR/KX-5150RR	95	.	.	233	213
MYCOGEN/2T336	92	.	.	235	.
HEINE/H625RR/YGCB	91	.	.	231	212
HEINE/H630RR	95	.	.	227	.
AGSOURCE SEEDS/3566	92	141	.	.	.
Test avg.:		146	114	223	210
High value:		158	122	240	219
# Lsd (.05):		11	NS	15	NS
## TPG-value:		147	109	225	199
@ Coef.Var.:		4	5	4	4
No. Entries:		31	14	35	19

\* RM= relative maturity reported by seed company.

Seeding dates: South Shore- May 6 and Warner- May 5, 2004.

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

NS indicates differences among values in a column are non-significant.

## TPG-value= minimum value to qualify for top performance group.

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

Table 7b. Roundup Ready corn early hybrid averages for bushel weight, kernel moisture, lodging below ear, and harvest population- northern locations, 2004 (continued).

Brand/Hybrid	RM*	----- Northern Location Averages ----- for bu.wt., kernel moisture, lodging below ear, & plants/acre (ppa)							
		South Shore				Warner			
		Bu. wt. Lb.	H2O %	Ldg. %	PPA	Bu. wt. Lb.	H2O %	Ldg. %	PPA
WENSMAN/W 6117BTRR	92	55	26	1	27,733	61	18	1	26,862
NUTECH/5592 RR/YGCB	93	56	21	0	27,007	59	18	0	26,426
KRUGER/9392RR	90	55	25	0	27,443	61	19	3	27,588
WENSMAN/W 6116RR	91	55	25	1	26,862	61	18	2	27,733
KRUGER/4193RR/YGRW	93	56	20	2	27,152	59	18	2	26,717
KRUGER/9392RR/YGCB	92	55	27	0	28,314	61	18	0	27,878
WECO SEEDS/EXPCS90RR	90	55	26	1	27,152	60	18	1	27,588
GOLD COUNTRY/92-01CBR	92	55	27	0	26,426	60	18	1	26,136
CHANNEL/6925RB	92	54	26	0	27,152	60	19	0	27,588
WECO SEEDS/EXPCS95RR	95	54	20	1	24,103	60	17	3	25,410
MALLARD/EXP 05-09	92	54	26	1	27,733	59	18	0	27,733
KELTGEN/AV4005R2CB	92	53	27	1	27,879	60	18	1	27,007
KRUGER/2291RR/YGCB	91	53	22	3	26,862	60	18	1	27,443
DEKALB/DKC42-95RR2YGCB	92	54	26	0	28,023	58	18	1	27,878
KRUGER/2391RR/YGCB	92	54	23	2	27,007	59	18	0	28,023
WENSMAN/W 7111RWRR	90	53	22	1	27,443	59	18	2	27,588
CHANNEL/6939RB	93	53	23	0	27,443	59	18	0	27,298
SEEDS 2000/2944RRBT	94	52	22	2	27,152	60	18	1	27,007
NUTECH/5990 RR/YGCB	92	52	23	2	27,443	59	18	0	27,588
SEEDS 2000/2953RR	95	53	27	0	28,895	59	19	3	26,717
NUTECH/3595 RR	94	52	26	0	28,169	59	18	3	27,878
INTEGRA/INT 6193RRYG	92	53	22	1	25,701	58	17	2	25,120
KRUGER/9496RR	94	53	26	0	28,314	58	18	3	27,733
INTEGRA/INT 6395RR	95	53	26	0	27,588	58	19	3	27,588
WENSMAN/W 6212RR	95	52	26	0	27,878	58	19	5	27,878
MYCOGEN/2R416	95	52	27	0	26,426	58	18	3	27,588
KELTGEN/AV4882R2	94	51	27	1	26,136	58	19	3	26,281
MALLARD/RRBT-5810	90	50	26	2	25,410	59	19	2	25,700
CHANNEL/6965 R	95	51	27	0	25,410	58	19	4	26,426
DEKALB/DKC44-46RR2YGCB	94	49	28	1	27,298	58	19	1	27,878

\* RM= relative maturity reported by seed company.

Table 7b. Roundup Ready corn early hybrid averages for bushel weight, kernel moisture, lodging below ear, and harvest population- northern locations, 2004 (continued).

Brand/Hybrid	RM*	----- Northern Location Averages ----- for bu.wt., kernel moisture, lodging below ear, & plants/acre (ppa)							
		South Shore				Warner			
		Bu. wt. Lb.	H2O %	Ldg. %	PPA	Bu. wt. Lb.	H2O %	Ldg. %	PPA
KAYSTAR/KX-4000RRBT	91	.	.	.	.	59	18	0	26,717
KAYSTAR/KX-5150RR	95	.	.	.	.	58	18	3	27,588
MYCOGEN/2T336	92	.	.	.	.	60	18	0	27,588
HEINE/H625RR/YGCB	91	.	.	.	.	58	18	1	27,733
HEINE/H630RR	95	.	.	.	.	58	19	2	27,298
AGSOURCE SEEDS/3566	92	55	27	0	26,136	.	.	.	.
Test avg.:		53	25	1	27,087	59	18	2	27,177
Max-value:		56	28	3	28,895	61	19	5	28,023
Min-value:		49	20	0	24,103	58	17	0	25,120
# Lsd (.05):		2	1	2	1,613	2	1	3	833
## TPG-value:		54	21	2	27,282	59	18	3	27,140
@ Coef.Var.:		3	3	182	4	2	3	118	2
No. Entries:		31	31	31	31	35	35	35	35

\* RM= relative maturity reported by seed company.

Seeding dates: South Shore- May 6 and Warner- May 5, 2004.

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

## TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. of variation= measure of trial experimental error.

Table 8a. Roundup Ready late maturity corn yield results- northern South Dakota locations, 2003-2004.

Brand/Hybrid	RM*	- Northern Location Averages - for yield (by year)			
		South Shore		Warner	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
DEKALB/DKC48-52 (RR2)	98	155	.	226	.
DEKALB/DKC47-10RR2YGCB	97	150	.	223	212
DAIRYLAND/STEALTH-6497	97	149	.	214	.
NUTECH/5101 RR/YGCB	100	139	.	213	.
KRUGER/9203RR/YGCB	103	135	102	214	207
ACCESS/EXP1597RR	97	139	.	211	.
MYCOGEN/2K541	103	135	.	211	.
KRUGER/2103RR/YGCB	103	133	.	209	.
KRUGER/1200RR	100	128	.	205	.
NUTECH/3005 RR/YGCB	100	131	.	198	.
WENSMAN/W 6274RR	98	122	.	207	.
WENSMAN/W 7309RWRR	100	127	.	203	.
KRUGER/1100RR	100	121	.	196	.
KRUGER/1202RR	102	120	.	189	.
KRUGER/1506RR	105	113	.	192	.
DEKALB/DKC50-20RR2YGCB	100	.	.	218	.
SANDS/NGS 1030RR/YGCB	103	132	.	.	.
ACCESS/EXP1500RR	100	141	.	.	.
JACOBSEN/4167RBT	101	131	.	.	.
MYCOGEN/2H398	96	.	.	216	.
SEEDS 2000/3122RRBT	102	.	.	220	.
HEINE/H750RR/YGCB	105	.	.	202	.
HEINE/H748RR	105	.	.	190	.
HEINE/H723RR/YGCB	100	.	.	211	.
HEINE/H728RR/YGCB	100	.	.	185	.

\* RM= relative maturity reported by seed company.

Table 8a. Roundup Ready late maturity corn yield results- northern South Dakota locations (continued).

Brand/Hybrid	RM*	- Northern Location Averages - for yield (by year)			
		South Shore		Warner	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
HEINE/H710RR/YGCB	100	.	.	199	.
GOLD COUNTRY/1016RRBT	104	139	106	.	.
CHANNEL/7138RB	101	120	.	.	.
CHANNEL/7135RB	101	136	.	.	.
AGSOURCE SEEDS/3931	96	153	.	.	.
AGSOURCE SEEDS/4556	101	132	.	.	.
Test avg.:		134	104	207	210
High value:		155	106	226	212
# Lsd (.05):		11	NS	14	NS
## TPG-value:		144	102	212	207
@ Coef.Var.:		5	4	4	4
No. Entries:		23	2	23	2

\* RM= relative maturity reported by seed company.

Seeding dates: South Shore- May 6 and Warner- May 5, 2004.

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

NS indicates differences among values in a column are non-significant.

## TPG-value= minimum value to qualify for top performance group.

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

Table 8b. Roundup Ready corn late hybrid averages for bushel weight, kernel moisture, lodging below ear, and harvest population- northern South Dakota locations, 2004.

Brand/Hybrid	RM*	----- Northern Location Averages ----- for bu.wt., kernel moisture, lodging below ear, & plants/acre (ppa)							
		South Shore				Warner			
		Bu. wt. Lb.	H2O %	Ldg. %	PPA	Bu. wt. Lb.	H2O %	Ldg. %	PPA
DEKALB/DKC47-10RR2YGCB	97	52	26	1	28,169	58	20	0	27,588
DEKALB/DKC48-52 (RR2)	98	52	25	2	27,443	57	19	3	26,862
ACCESS/EXP1597RR	97	49	27	2	27,878	58	19	2	27,297
WENSMAN/W 7309RWRR	100	51	33	2	27,443	55	23	0	26,281
NUTECH/3005 RR/YGCB	100	50	30	0	26,571	57	21	1	27,443
DAIRYLAND/STEALTH-6497	97	50	27	0	27,733	55	19	3	26,862
KRUGER/1200RR	100	49	30	2	25,555	56	22	0	26,862
WENSMAN/W 6274RR	98	49	30	2	25,700	55	22	5	27,588
KRUGER/1506RR	105	50	43	5	27,443	54	28	2	27,443
KRUGER/2103RR/YGCB	103	49	29	2	27,007	55	22	0	27,588
NUTECH/5101 RR/YGCB	100	50	33	2	28,459	54	24	2	27,733
KRUGER/1100RR	100	47	32	1	25,119	56	20	0	23,668
KRUGER/1202RR	102	49	37	1	27,007	53	26	4	27,733
KRUGER/9203RR/YGCB	103	48	34	0	27,152	53	24	1	27,297
MYCOGEN/2K541	103	47	34	0	28,169	53	23	1	27,007
DEKALB/DKC50-20RR2YGCB	100	.	.	.	.	56	21	0	27,007
SANDS/NGS 1030RR/YGCB	103	49	34	1	26,862	.	.	.	.
ACCESS/EXP1500RR	100	50	27	1	27,443	.	.	.	.
JACOBSEN/4167RBT	101	49	35	1	26,136	.	.	.	.
MYCOGEN/2H398	96	.	.	.	.	57	19	0	26,717
SEEDS 2000/3122RRBT	102	.	.	.	.	54	23	1	27,152
HEINE/H750RR/YGCB	105	.	.	.	.	52	27	1	27,152
HEINE/H748RR	105	.	.	.	.	54	28	3	27,007
HEINE/H723RR/YGCB	100	.	.	.	.	54	24	1	26,572
HEINE/H728RR/YGCB	100	.	.	.	.	56	27	0	27,007

\* RM= relative maturity reported by seed company.

Table 8b. Roundup Ready corn late hybrid averages for bushel weight, kernel moisture, lodging below ear, and harvest population- northern locations, 2004 (continued).

Brand/Hybrid	RM*	----- Northern Location Averages ----- for bu.wt., kernel moisture, lodging below ear, & plants/acre (ppa)							
		South Shore				Warner			
		Bu. wt. Lb.	H2O %	Ldg. %	PPA	Bu. wt. Lb.	H2O %	Ldg. %	PPA
HEINE/H710RR/YGCB	100	.	.	.	.	52	26	3	27,588
GOLD COUNTRY/1016RRBT	104	49	33	2	27,588	.	.	.	.
CHANNEL/7138RB	101	50	32	4	26,572	.	.	.	.
CHANNEL/7135RB	101	49	32	1	27,733	.	.	.	.
AGSOURCE SEEDS/3931	96	52	26	0	27,878	.	.	.	.
AGSOURCE SEEDS/4556	101	49	33	1	27,878	.	.	.	.
Test avg.:		49	31	1	27,171	55	23	1	27,020
Max-value:		52	43	5	28,459	58	28	5	27,733
Min-value:		47	25	0	25,119	52	19	0	23,668
# Lsd (.05):		2	2	2	1,775	2	2	3	1,135
## TPG-value:		50	27	2	26,884	56	21	3	26,638
@ Coef.Var.:		2	3	107	4	2	5	130	3
No. Entries:		23	23	23	23	23	23	23	23

\* RM= relative maturity reported by seed company.

Seeding dates: South Shore- May 6 and Warner- May 5, 2004.

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

## TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. of variation= measure of trial experimental error.

Table 9a. Roundup Ready early maturity corn yield results- central South Dakota locations, 2003-2004.

Brand/Hybrid	RM*	- Central Location Averages - for yield (by year)			
		Brookings		Iroquois	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
INTEGRA/INT 6395RR	95	211	200	207	153
KRUGER/9392RR	90	217	.	196	.
EPLEY/E1155RR	90	212	.	199	.
WENSMAN/W 6212RR	95	217	205	195	143
DEKALB/DKC50-20RR2YGCB	100	208	.	200	.
DAIRYLAND/STEALTH-6497	97	209	.	198	.
NUTECH/3595 RR	94	213	.	192	.
ACCESS/EXP1500RR	100	221	.	183	.
KAYSTAR/KX-5900RR	99	204	.	196	.
EPLEY/E1165RR	95	211	199	189	.
DEKALB/DKC47-10RR2YGCB	97	224	.	174	140
KALTENBERG/K4666RR	96	207	.	184	.
ACCESS/EXP1597RR	97	207	.	182	.
INTEGRA/INT 6193RRYG	92	200	.	188	.
DEKALB/DKC48-52 (RR2)	98	206	.	180	.
NUTECH/5101 RR/YGCB	100	204	.	180	.
KAYSTAR/KX-5150RR	95	213	200	171	137
CHANNEL/6965 R	95	211	.	167	.
WENSMAN/W 7111RWRR	90	203	.	169	.
WECO SEEDS/EXPCS90RR	90	214	.	155	.
WENSMAN/W 7309RWRR	100	189	.	178	.
NUTECH/3005 RR/YGCB	100	193	.	172	.
TOP FARM/E34100RR	100	197	.	169	.
WENSMAN/W 6274RR	98	184	.	180	.
TOP FARM/8301RR	100	199	.	162	.
INTEGRA/INT 6593RRYG	93	207	.	153	.
KRUGER/1200RR	100	193	.	161	.
KRUGER/4193RR/YGRW	93	181	.	169	.
EPLEY/E1175RR	100	187	.	161	.
KRUGER/1100RR	100	183	.	155	.
WECO SEEDS/EXPCS95RR	95	191	.	139	.
DEKALB/DKC44-46RR2YGCB	94	217	204	.	.
JUNG/6418RR/YGCB	92	205	193	.	.
JUNG/6445RR	99	197	.	.	.
TOP FARM/8395RR	95	223	211	.	.

- RM= relative maturity reported by seed company.



Table 9a. Roundup Ready early maturity corn yield results- central locations,  
(continued).

Brand/Hybrid	RM*	- Central Location Averages - for yield (by year)			
		Brookings		Iroquois	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
TOP FARM/9391RY	92	203	.	.	.
WENSMAN/W 6116RR	91	.	.	174	137
WENSMAN/W 6117BTRR	92	.	.	168	134
SEEDS 2000/2944RRBT	94	199	188	.	.
SEEDS 2000/2953RR	95	214	202	.	.
HEINE/H723RR/YGCB	100	.	.	166	.
HEINE/H728RR/YGCB	100	.	.	168	.
HEINE/H710RR/YGCB	100	.	.	184	.
HEINE/H630RR	95	.	.	200	.
CHANNEL/6925RB	92	204	190	.	.
CHANNEL/6939RB	93	199	188	.	.
AGSOURCE SEEDS/3931	96	213	.	.	.
Test avg.:		205	198	177	141
High value:		224	211	207	153
# Lsd (.05):		13	3	33	NS
## TPG-value:		211	208	174	134
@ Coef.Var.:		4	4	12	10
No. Entries:		41	11	37	6

\* RM= relative maturity reported by seed company.

Seeding dates: Brookings- May 7 and Iroquois- April 30, 2004.

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

NS indicates differences among values in a column are non-significant.

## TPG-value= minimum value to qualify for top performance group.

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

Table 9b. Roundup Ready corn early hybrid averages for bushel weight, kernel moisture, lodging below ear, and harvest population- central South Dakota locations, 2004.

Brand/Hybrid	RM*	----- Central Location Averages ----- for bu.wt., kernel moisture, lodging below ear, & plants/acre (ppa)							
		Brookings				Iroquois			
		Bu. wt. Lb.	H2O %	Ldg. %	PPA	Bu. wt. Lb.	H2O %	Ldg. %	PPA
KRUGER/4193RR/YGRW	93	59	20	0	25,555	61	16	3	27,733
KRUGER/9392RR	90	58	21	1	26,717	61	16	2	26,281
EPLEY/E1155RR	90	58	21	2	27,878	60	16	2	28,459
WENSMAN/W 7111RWRR	90	58	21	2	27,443	60	16	4	27,443
INTEGRA/INT 6193RRYG	92	57	19	2	27,298	61	16	1	26,717
WECO SEEDS/EXPCS95RR	95	58	19	1	26,426	60	16	0	21,344
WECO SEEDS/EXPCS90RR	90	58	22	1	26,862	60	16	1	27,007
EPLEY/E1165RR	95	58	21	2	27,298	60	16	1	27,298
INTEGRA/INT 6395RR	95	57	22	1	27,007	60	17	2	27,297
INTEGRA/INT 6593RRYG	93	58	21	1	27,588	59	15	2	27,588
ACCESS/EXP1597RR	97	57	23	1	27,878	60	16	2	27,007
DEKALB/DKC47-10RR2YGCB	97	58	22	2	27,733	59	18	1	27,152
DEKALB/DKC48-52 (RR2)	98	56	21	4	27,733	60	16	1	25,991
WENSMAN/W 6212RR	95	57	22	3	27,007	59	16	2	27,152
DAIRYLAND/STEALTH-6497	97	56	22	3	27,007	60	17	3	28,459
NUTECH/3595 RR	94	57	22	2	26,862	58	16	3	27,443
DEKALB/DKC50-20RR2YGCB	100	56	23	1	27,878	59	19	2	28,023
TOP FARM/8301RR	100	56	22	5	26,862	58	17	2	27,297
KALTENBERG/K4666RR	96	55	22	1	27,588	59	18	0	27,152
ACCESS/EXP1500RR	100	56	22	1	27,297	58	18	1	26,571
CHANNEL/6965 R	95	55	23	2	27,588	59	17	2	26,572
NUTECH/5101 RR/YGCB	100	54	26	1	27,588	59	18	1	27,588
KAYSTAR/KX-5150RR	95	56	22	1	27,878	57	19	1	27,298
EPLEY/E1175RR	100	54	23	2	26,572	59	16	4	28,169
WENSMAN/W 6274RR	98	54	25	2	26,862	59	19	0	27,153
NUTECH/3005 RR/YGCB	100	54	24	1	26,717	59	19	1	26,572
TOP FARM/E34100RR	100	55	20	2	26,571	58	17	3	25,845
WENSMAN/W 7309RWRR	100	53	27	1	27,878	59	19	4	27,588
KRUGER/1200RR	100	53	23	1	27,007	57	19	4	27,007
KAYSTAR/KX-5900RR	99	52	26	1	27,298	58	17	1	28,023

\* RM= relative maturity reported by seed company.

Table 9b. Roundup Ready corn early hybrid averages for bushel weight, kernel moisture, lodging below ear, and harvest population- central locations, 2004 (continued).

Brand/Hybrid	RM*	----- Central Location Averages ----- for bu.wt., kernel moisture, lodging below ear, & plants/acre (ppa)							
		Brookings				Iroquois			
		Bu. wt. Lb.	H2O %	Ldg. %	PPA	Bu. wt. Lb.	H2O %	Ldg. %	PPA
KRUGER/1100RR	100	52	24	1	24,829	58	19	0	24,684
DEKALB/DKC44-46RR2YGCB	94	56	22	1	27,878	.	.	.	.
JUNG/6418RR/YGCB	92	58	22	0	27,298	.	.	.	.
JUNG/6445RR	99	52	27	3	27,878	.	.	.	.
TOP FARM/8395RR	95	56	22	1	27,443	.	.	.	.
TOP FARM/9391RY	92	59	20	0	27,733	.	.	.	.
WENSMAN/W 6116RR	91	.	.	.	.	61	16	2	27,733
WENSMAN/W 6117BTRR	92	.	.	.	.	62	17	0	26,862
SEEDS 2000/2944RRBT	94	57	19	1	28,459	.	.	.	.
SEEDS 2000/2953RR	95	56	21	0	27,733	.	.	.	.
HEINE/H723RR/YGCB	100	.	.	.	.	58	20	0	25,845
HEINE/H728RR/YGCB	100	.	.	.	.	60	22	1	27,443
HEINE/H710RR/YGCB	100	.	.	.	.	55	20	1	27,733
HEINE/H630RR	95	.	.	.	.	60	16	1	27,443
CHANNEL/6925RB	92	59	21	0	27,443	.	.	.	.
CHANNEL/6939RB	93	57	20	1	27,443	.	.	.	.
AGSOURCE SEEDS/3931	96	56	22	1	27,443	.	.	.	.
Test avg.:		56	22	1	27,255	59	17	2	26,999
Max-value:		59	27	5	28,459	62	22	4	28,459
Min-value:		52	19	0	24,829	55	15	0	21,344
# Lsd (.05):		1	1	NS	1,288	3	2	NS	1,504
## TPG-value:		58	20	5	27,171	59	17	4	26,955
@ Coef.Var.:		2	4	115	3	3	7	139	3
No. Entries:		41	41	41	41	37	37	37	37

\* RM= relative maturity reported by seed company.

Seeding dates: Brookings- May 7 and Iroquois- April 30, 2004.

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

NS indicates differences among values in a column are non-significant.

## TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. of variation= measure of trial experimental error.

Table 10a. Roundup Ready late maturity corn yield results- central South Dakota locations, 2003-2004.

Brand/Hybrid	RM*	- Central Location Averages - for yield (by year)			
		Brookings		Iroquois	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
CHANNEL/7135RB	101	208	190	209	146
DEKALB/DKC52-47RR2YGCB	102	219	.	192	.
SEEDS 2000/3122RRBT	102	197	.	212	148
TOP FARM/E34102RR	102	203	.	198	.
KRUGER/9203RR/YGCB	103	202	.	194	.
KRUGER/2103RR/YGCB	103	202	.	194	.
WENSMAN/W 6315BTRR	101	203	185	189	135
GOLD COUNTRY/1016RRBT	104	195	185	193	138
KRUGER/1506RR	105	204	.	181	.
EPLEY/E1515RR	105	191	.	191	.
KRUGER/9208RR/YGCB	110	189	.	191	.
KRUGER/1006RR	106	174	.	200	.
EPLEY/E1475RR	103	183	.	190	.
NUTECH/5702 RR/YGCB	103	191	.	179	.
KRUGER/9308RR/YGCB	111	186	.	181	.
WENSMAN/W 6422BTRR	107	191	.	177	.
TOP FARM/9305RY	104	181	.	185	.
EPLEY/E1465RR	103	186	.	180	.
KRUGER/1202RR	102	186	.	178	.
KRUGER/9208RR	108	189	.	175	.
EPLEY/E1455RR	101	195	.	165	.
KRUGER/1806RR	106	184	.	171	.
DEKALB/DKC53-34RR2YGCB	103	.	.	188	139
SANDS/NGS 1030RR/YGCB	103	196	.	.	.
TOP FARM/8403RR	102	186	171	.	.
TOP FARM/E34102BRCB	110	198	.	.	.
TOP FARM/E34103BRCB	103	206	.	.	.
KALTENBERG/K5717RRBT	105	194	.	.	.
KALTENBERG/K5244RRBT	102	207	.	.	.
ACCESS/EXP 2506RRYGCB	106	191	.	.	.
JACOBSEN/4167RBT	101	.	.	212	.
JACOBSEN/4358R	105	155	.	.	.
EPLEY/E2425RR	107	191	179	.	.
MYCOGEN/2K541	103	.	.	207	.
MYCOGEN/2T655	107	.	.	187	.

\* RM= relative maturity reported by seed company.

Table 10a. Roundup Ready late maturity corn yield results- central locations, (continued).

Brand/Hybrid	RM*	- Central Location Averages - for yield (by year)			
		Brookings		Iroquois	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
HEINE/H750RR/YGCB	105	.	.	211	.
HEINE/H748RR	105	.	.	192	.
GOLD COUNTRY/105-03CBR	105	218	.	.	.
PFISTER/2656 RR-BT	110	195	.	.	.
CHANNEL/7138RB	101	.	.	186	136
AGSOURCE SEEDS/5356	106	186	.	.	.
AGSOURCE SEEDS/4556	101	206	.	.	.
AGSOURCE SEEDS/5286CBRR	106	193	.	.	.
INTEGRA/INT 6504RRYGCB	106	195	.	.	.
Test avg.:		194	182	190	140
High value:		219	190	212	148
# Lsd (.05):		14	NS	37	NS
## TPG-value:		205	171	175	135
@ Coef.Var.:		4	4	12	7
No. Entries:		37	5	29	6

\* RM= relative maturity reported by seed company.

Seeding dates: Brookings- May 7 and Iroquois- April 30, 2004.

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

NS indicates differences among values in a column are non-significant.

## TPG-value= minimum value to qualify for top performance group.

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

Table 10b. Roundup Ready corn late hybrid averages for bushel weight, kernel moisture, lodging below ear, and harvest population- central South Dakota locations, 2004.

Brand/Hybrid	RM*	----- Central Location Averages ----- for bu.wt., kernel moisture, lodging below ear, & plants/acre (ppa)							
		Brookings				Iroquois			
		Bu. wt. Lb.	H2O %	Ldg. %	PPA	Bu. wt. Lb.	H2O %	Ldg. %	PPA
TOP FARM/E34102RR	102	53	23	1	27,588	62	17	1	26,281
DEKALB/DKC52-47RR2YGCB	102	54	23	1	27,878	59	16	2	26,426
EPLEY/E1475RR	103	52	25	3	26,572	62	17	1	27,298
NUTECH/5702 RR/YGCB	103	53	27	1	27,443	60	17	2	28,169
KRUGER/2103RR/YGCB	103	52	26	3	27,878	60	17	3	27,733
KRUGER/9203RR/YGCB	103	51	27	0	27,443	60	17	1	28,169
CHANNEL/7135RB	101	52	27	1	28,023	59	17	2	28,314
KRUGER/1506RR	105	51	28	1	27,878	60	19	3	27,733
KRUGER/9208RR/YGCB	110	52	29	1	27,588	59	19	4	27,007
EPLEY/E1465RR	103	51	26	3	26,862	60	17	4	27,443
KRUGER/9208RR	108	51	28	1	27,007	58	17	5	27,733
WENSMAN/W 6315BTRR	101	50	27	1	26,281	59	17	4	27,588
KRUGER/1202RR	102	50	28	0	27,152	59	19	3	27,733
TOP FARM/9305RY	104	50	30	2	27,878	59	20	3	28,023
SEEDS 2000/3122RRBT	102	49	28	2	28,023	59	17	4	27,733
GOLD COUNTRY/1016RRBT	104	49	28	1	27,588	59	18	1	27,297
EPLEY/E1455RR	101	51	26	1	27,878	57	16	4	26,572
KRUGER/1006RR	106	50	31	5	26,572	58	21	2	27,443
EPLEY/E1515RR	105	51	29	2	27,733	56	17	3	27,878
KRUGER/9308RR/YGCB	111	48	32	2	27,878	56	21	4	26,136
WENSMAN/W 6422BTRR	107	49	31	1	27,007	55	22	2	25,555
KRUGER/1806RR	106	51	27	0	26,426	47	14	6	26,717
DEKALB/DKC53-34RR2YGCB	103	.	.	.	.	59	17	1	28,023
SANDS/NGS 1030RR/YGCB	103	51	28	1	26,717	.	.	.	.
TOP FARM/8403RR	102	51	25	2	26,717	.	.	.	.
TOP FARM/E34102BRCB	110	51	25	6	28,023	.	.	.	.
TOP FARM/E34103BRCB	103	50	27	0	27,878	.	.	.	.
KALTENBERG/K5717RRBT	105	52	27	0	27,152	.	.	.	.
KALTENBERG/K5244RRBT	102	50	27	0	27,588	.	.	.	.
ACCESS/EXP 2506RRYGCB	106	51	30	1	27,298	.	.	.	.

\* RM= relative maturity reported by seed company.

Table 10b. Roundup Ready corn late hybrid averages for bushel weight, kernel moisture, lodging below ear, and harvest population- central locations, 2004 (continued).

Brand/Hybrid	RM*	----- Central Location Averages ----- for bu.wt., kernel moisture, lodging below ear, & plants/acre (ppa)							
		Brookings				Iroquois			
		Bu. wt. Lb.	H2O %	Ldg. %	PPA	Bu. wt. Lb.	H2O %	Ldg. %	PPA
JACOBSEN/4167RBT	101	.	.	.	.	59	18	2	26,862
JACOBSEN/4358R	105	49	35	3	25,846	.	.	.	.
EPLEY/E2425RR	107	51	28	1	27,152	.	.	.	.
MYCOGEN/2K541	103	.	.	.	.	59	17	3	27,443
MYCOGEN/2T655	107	.	.	.	.	58	17	4	27,733
HEINE/H750RR/YGCB	105	.	.	.	.	59	22	0	27,297
HEINE/H748RR	105	.	.	.	.	59	19	4	28,169
GOLD COUNTRY/105-03CBR	105	51	27	1	28,314	.	.	.	.
PFISTER/2656 RR-BT	110	50	33	2	28,023	.	.	.	.
CHANNEL/7138RB	101	.	.	.	.	59	18	1	24,394
AGSOURCE SEEDS/5356	106	52	26	1	26,717	.	.	.	.
AGSOURCE SEEDS/4556	101	51	27	1	28,024	.	.	.	.
AGSOURCE SEEDS/5286CBRR	106	51	29	2	26,717	.	.	.	.
INTEGRA/INT 6504RRYGCB	106	52	28	0	27,152	.	.	.	.
Test avg.:		51	28	1	27,349	58	18	3	27,272
Max-value:		54	35	6	28,314	62	22	6	28,314
Min-value:		48	23	0	25,846	47	14	0	24,393
# Lsd (.05):		2	1	3	1,365	7	NS	5	1,000
## TPG-value:		52	24	3	26,949	55	22	5	27,314
@ Coef.Var.:		2	3	107	3	7	8	102	2
No. Entries:		37	37	37	37	29	29	29	29

\* RM= relative maturity reported by seed company.

Seeding dates: Brookings- May 7 and Iroquois- April 30, 2004.

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

NS indicates differences among values in a column are non-significant.

## TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. of variation= measure of trial experimental error.

Table 11a. Roundup Ready early maturity corn yield results- southern South Dakota locations, 2003-2004.

Brand/Hybrid	RM*	- Southern Location Averages - for yield (by year)			
		Beresford		Armour	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
HEINE/H750RR/YGCB	105	238	.	115	.
HEINE/H748RR	105	244	.	102	.
NUTECH/5702 RR/YGCB	103	209	.	133	.
TOP FARM/9305RY	104	228	.	112	.
TOP FARM/E34102RR	102	206	.	129	.
HEINE/H728RR/YGCB	100	208	.	98	.
DEKALB/DKC53-34RR2YGCB	103	.	.	116	104
DEKALB/DKC60-19RR2YGCB	110	242	.	.	.
DEKALB/DKC47-10RR2YGCB	97	.	.	114	107
DEKALB/DKC48-52 (RR2)	98	.	.	127	.
DEKALB/DKC50-20RR2YGCB	100	.	.	118	.
DEKALB/DKC58-80RR2YGCB	108	224	.	.	.
DAIRYLAND/STEALTH-1606	107	239	.	.	.
DAIRYLAND/STEALTH-7507	109	197	.	.	.
SANDS/NGS 1030RR/YGCB	103	210	.	.	.
SANDS/NGS 1100RR	110	213	.	.	.
ASGROW/RX718RR/YG	110	224	.	.	.
TOP FARM/8403RR	102	213	.	.	.
TOP FARM/E34110RCB	110	205	.	.	.
TOP FARM/E34102BRCB	110	216	.	.	.
TOP FARM/E34103BRCB	103	.	.	127	.
KAYSTAR/KX-6650RR	105	.	.	116	.
KALTENBERG/K5717RRBT	105	.	.	122	.
KALTENBERG/K5711RR	105	220	194	.	.
KALTENBERG/K6788RR	108	200	189	.	.
KALTENBERG/K5244RRBT	102	.	.	105	.
KRUGER/9203RR/YGCB	103	.	.	102	.
KRUGER/2103RR/YGCB	103	.	.	135	.
KRUGER/1506RR	105	.	.	110	.
KRUGER/1006RR	106	224	.	.	.
KRUGER/1806RR	106	219	.	.	.
KRUGER/9208RR	108	228	.	.	.
KRUGER/9208RR/YGCB	110	229	.	.	.
ACCESS/EXP 2506RRYGCB	106	232	.	.	.
JACOBSEN/4637RBT	110	233	.	.	.

\* RM= relative maturity reported by seed company.



Table 11a. Roundup Ready early maturity corn yield results- southern locations, (continued).

Brand/Hybrid	RM*	- Southern Location Averages - for yield (by year)			
		Beresford		Armour	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
JACOBSEN/4358R	105	210	.	.	.
EPLEY/E1515RR	105	.	.	97	.
EPLEY/E1175RR	100	.	.	100	.
EPLEY/E1455RR	101	.	.	101	.
EPLEY/E1465RR	103	.	.	117	.
EPLEY/E1475RR	103	.	.	121	.
WENSMAN/W 6315BTRR	101	.	.	111	99
WENSMAN/W 6422BTRR	107	228	.	.	.
HEINE/H793RR/YGCB	108	222	.	.	.
HEINE/H723RR/YGCB	100	.	.	123	.
HEINE/H710RR/YGCB	100	.	.	129	.
GOLD COUNTRY/105-03CBR	105	.	.	116	.
PFISTER/2656 RR-BT	110	242	.	.	.
CHANNEL/7138RB	101	.	.	113	99
CHANNEL/7135RB	101	.	.	123	103
CHANNEL/7624RB	108	199	183	.	.
CHANNEL/7806RB	110	226	195	.	.
AGSOURCE SEEDS/4556	101	.	.	119	.
AGSOURCE SEEDS/5286CBRR	106	205	.	.	.
INTEGRA/INT 6504RRYGCB	106	216	.	.	.
Test avg.:		220	190	116	102
High value:		244	195	135	107
# Lsd (.05):		15	NS	24	NS
## TPG-value:		229	183	111	99
@ Coef.Var.:		4	8	13	10
No. Entries:		32	4	29	5

\* RM= relative maturity reported by seed company.

Seeding dates: Beresford- May 4 and Armour- May 3, 2004.

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

NS indicates differences among values in a column are non-significant.

## TPG-value= minimum value to qualify for top performance group.

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

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Table 11b. Roundup Ready corn early hybrid averages for bushel weight, kernel moisture, lodging below ear, and harvest population- southern South Dakota locations, 2004.

Brand/Hybrid	RM*	----- Southern Location Averages ----- for bu.wt., kernel moisture, lodging below ear, & plants/acre (ppa)							
		Beresford				Armour			
		Bu. wt. Lb.	H2O %	Ldg. %	PPA	Bu. wt. Lb.	H2O %	Ldg. %	PPA
HEINE/H728RR/YGCB	100	61	20	0	27,297	62	19	2	25,991
NUTECH/5702 RR/YGCB	103	62	17	1	28,169	60	15	2	25,846
TOP FARM/E34102RR	102	61	18	1	27,298	60	16	0	26,862
HEINE/H748RR	105	61	18	2	27,588	59	18	6	26,426
HEINE/H750RR/YGCB	105	60	20	0	27,588	60	18	0	26,572
TOP FARM/9305RY	104	60	19	1	28,169	59	16	2	25,410
DEKALB/DKC53-34RR2YGCB	103	.	.	.	.	59	16	0	25,991
DEKALB/DKC60-19RR2YGCB	110	60	21	1	26,862	.	.	.	.
DEKALB/DKC47-10RR2YGCB	97	.	.	.	.	62	15	4	24,394
DEKALB/DKC48-52 (RR2)	98	.	.	.	.	58	14	3	25,410
DEKALB/DKC50-20RR2YGCB	100	.	.	.	.	60	15	2	27,152
DEKALB/DKC58-80RR2YGCB	108	60	19	0	27,588	.	.	.	.
DAIRYLAND/STEALTH-1606	107	59	18	2	27,007	.	.	.	.
DAIRYLAND/STEALTH-7507	109	58	19	1	25,991	.	.	.	.
SANDS/NGS 1030RR/YGCB	103	60	18	0	27,007	.	.	.	.
SANDS/NGS 1100RR	110	59	19	0	27,588	.	.	.	.
ASGROW/RX718RR/YG	110	62	19	3	27,297	.	.	.	.
TOP FARM/8403RR	102	60	17	0	27,297	.	.	.	.
TOP FARM/E34110RCB	110	60	18	0	27,297	.	.	.	.
TOP FARM/E34102BRCB	110	60	17	0	27,733	.	.	.	.
TOP FARM/E34103BRCB	103	.	.	.	.	58	15	4	25,555
KAYSTAR/KX-6650RR	105	.	.	.	.	60	16	2	25,555
KALTENBERG/K5717RRBT	105	.	.	.	.	58	15	0	25,410
KALTENBERG/K5711RR	105	61	19	0	26,426	.	.	.	.
KALTENBERG/K6788RR	108	59	18	1	27,588	.	.	.	.
KALTENBERG/K5244RRBT	102	.	.	.	.	58	16	3	26,862
KRUGER/9203RR/YGCB	103	.	.	.	.	58	15	6	23,813
KRUGER/2103RR/YGCB	103	.	.	.	.	60	15	0	26,717
KRUGER/1506RR	105	.	.	.	.	58	16	2	25,120
KRUGER/1006RR	106	61	21	6	27,297	.	.	.	.
KRUGER/1806RR	106	61	18	0	26,427	.	.	.	.
KRUGER/9208RR	108	60	18	0	27,152	.	.	.	.
KRUGER/9208RR/YGCB	110	60	18	1	27,007	.	.	.	.
ACCESS/EXP 2506RRYGCB	106	61	19	0	27,878	.	.	.	.

- RM= relative maturity reported by seed company.

Table 11b. Roundup Ready corn early hybrid averages for bushel weight, kernel moisture, lodging below ear, and harvest population- southern locations, 2004 (continued).

Brand/Hybrid	RM*	----- Southern Location Averages ----- for bu.wt., kernel moisture, lodging below ear, & plants/acre (ppa)							
		Beresford				Armour			
		Bu. wt. Lb.	H2O %	Ldg. %	PPA	Bu. wt. Lb.	H2O %	Ldg. %	PPA
JACOBSEN/4637RBT	110	56	21	0	26,717	.	.	.	.
JACOBSEN/4358R	105	61	20	0	27,152	.	.	.	.
EPLEY/E1515RR	105	.	.	.	.	56	16	7	26,426
EPLEY/E1175RR	100	.	.	.	.	59	15	1	25,700
EPLEY/E1455RR	101	.	.	.	.	58	15	1	25,991
EPLEY/E1465RR	103	.	.	.	.	60	15	0	24,539
EPLEY/E1475RR	103	.	.	.	.	61	15	3	26,281
WENSMAN/W 6315BTRR	101	.	.	.	.	58	16	6	26,426
WENSMAN/W 6422BTRR	107	59	19	0	27,152	.	.	.	.
HEINE/H793RR/YGCB	108	59	19	2	27,152	.	.	.	.
HEINE/H723RR/YGCB	100	.	.	.	.	59	15	2	25,700
HEINE/H710RR/YGCB	100	.	.	.	.	58	16	2	25,120
GOLD COUNTRY/105-03CBR	105	.	.	.	.	60	18	6	25,120
PFISTER/2656 RR-BT	110	57	21	3	27,588	.	.	.	.
CHANNEL/7138RB	101	.	.	.	.	60	16	2	25,265
CHANNEL/7135RB	101	.	.	.	.	58	15	5	25,991
CHANNEL/7624RB	108	59	18	1	27,588	.	.	.	.
CHANNEL/7806RB	110	58	21	0	27,007	.	.	.	.
AGSOURCE SEEDS/4556	101	.	.	.	.	58	15	4	26,426
AGSOURCE SEEDS/5286CBRR	106	62	19	0	27,297	.	.	.	.
INTEGRA/INT 6504RRYGCB	106	61	20	0	27,443	.	.	.	.
Test avg.:		60	19	1	27,270	59	16	3	25,796
Max-value:		62	21	6	28,169	62	19	7	27,152
Min-value:		56	17	0	25,991	56	14	0	23,813
# Lsd (.05):		2	1	3	903	2	2	NS	1,480
## TPG-value:		60	18	3	27,266	60	16	7	25,672
@ Coef.Var.:		2	4	223	2	2	6	111	4
No. Entries:		32	32	32	32	29	29	29	29

\* RM= relative maturity reported by seed company.

Seeding dates: Beresford- May 4 and Armour- May 3, 2004.

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

NS indicates differences among values in a column are non-significant.

## TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. of variation= measure of trial experimental error.

Table 12a. Roundup Ready late maturity corn yield results- southern South Dakota locations, 2003-2004.

Brand/Hybrid	RM*	- Southern Location Averages - for yield (by year)			
		Beresford		Armour	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
NUTECH/5212 RR/YGCB	115	227	.	151	.
KRUGER/9412RR/YGCB	112	229	.	139	.
KRUGER/9115RR/YGCB	117	232	192	134	.
KRUGER/9212RR/YGCB	115	238	.	127	.
JACOBSEN/4757RBT	112	232	.	124	.
KRUGER/2613RR/YGCB	113	240	.	94	.
NUTECH/5808 RR/YGCB	114	199	.	120	.
KRUGER/9308RR/YGCB	111	202	.	114	.
DEKALB/DKC60-19RR2YGCB	110	.	.	136	115
DEKALB/DKC58-80RR2YGCB	108	.	.	134	.
DEKALB/DKC63-81RR2YGCB	113	234	.	.	.
DAIRYLAND/STEALTH-1606	107	.	.	146	.
DAIRYLAND/STEALTH-7507	109	.	.	105	.
TOP FARM/E34110RCB	110	.	.	115	.
TOP FARM/E34102BRCB	110	.	.	128	.
KRUGER/1006RR	106	.	.	126	.
KRUGER/1806RR	106	.	.	131	.
KRUGER/9208RR	108	.	.	113	.
KRUGER/9208RR/YGCB	110	.	.	130	.
ACCESS/EXP 2506RRYGCB	106	.	.	133	.
JACOBSEN/4637RBT	110	.	.	128	.
EPLEY/E2425RR	107	.	.	138	111
WENSMAN/W 6422BTRR	107	.	.	133	.
HEINE/H851RR/YGCB	113	246	.	.	.
HEINE/H8600RR/YGCB	112	232	.	.	.
HEINE/H793RR/YGCB	108	.	.	117	.
CHANNEL/7624RB	108	.	.	119	104
CHANNEL/7806RB	110	.	.	131	95
CHANNEL/8127RB	112	237	203	.	.
CHANNEL/8075RB	112	225	197	.	.

\* RM= relative maturity reported by seed company.

Table 12a. Roundup Ready late maturity corn yield results- southern locations, (continued).

Brand/Hybrid	RM*	- Southern Location Averages - for yield (by year)			
		Beresford		Armour	
		Bu/Acre 2004	Bu/Acre 2-Yr	Bu/Acre 2004	Bu/Acre 2-Yr
AGSOURCE SEEDS/6166	111	236	208	.	.
AGSOURCE SEEDS/5356	106	.	.	114	105
AGSOURCE SEEDS/5286CBRR	106	.	.	117	.
INTEGRA/INT 6504RRYGCB	106	.	.	141	.
Test avg.:		229	200	126	106
High value:		246	208	151	115
# Lsd (.05):		19	NS	29	NS
## TPG-value:		227	192	122	95
@ Coef.Var.:		5	5	14	9
No. Entries:		14	4	28	5

\* RM= relative maturity reported by seed company.

Seeding dates: Beresford- May 4 and Armour- May 3, 2004.

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

NS indicates differences among values in a column are non-significant.

## TPG-value= minimum value to qualify for top performance group.

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

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Table 12b. Roundup Ready corn late hybrid averages for bushel weight, kernel moisture, lodging below ear, and harvest population- southern South Dakota locations, 2004.

Brand/Hybrid	RM*	----- Southern Location Averages ----- for bu.wt., kernel moisture, lodging below ear, & plants/acre (ppa)							
		Beresford				Armour			
		Bu. wt. Lb.	H2O %	Ldg. %	PPA	Bu. wt. Lb.	H2O %	Ldg. %	PPA
KRUGER/9412RR/YGCB	112	60	20	7	27,152	60	17	2	25,845
NUTECH/5808 RR/YGCB	114	58	18	1	28,169	59	16	3	25,265
KRUGER/9308RR/YGCB	111	58	18	0	28,024	58	16	3	26,426
KRUGER/2613RR/YGCB	113	58	24	0	27,297	58	23	3	25,846
KRUGER/9212RR/YGCB	115	57	21	1	27,007	59	17	1	26,717
NUTECH/5212 RR/YGCB	115	57	22	1	27,733	58	17	5	25,846
KRUGER/9115RR/YGCB	117	56	24	0	26,572	59	19	0	25,991
JACOBSEN/4757RBT	112	55	25	1	27,443	57	22	1	25,120
DEKALB/DKC60-19RR2YGCB	110	.	.	.	.	54	16	2	26,281
DEKALB/DKC58-80RR2YGCB	108	.	.	.	.	57	16	0	26,572
DEKALB/DKC63-81RR2YGCB	113	59	22	2	27,588	.	.	.	.
DAIRYLAND/STEALTH-1606	107	.	.	.	.	59	16	1	27,298
DAIRYLAND/STEALTH-7507	109	.	.	.	.	58	17	2	26,571
TOP FARM/E34110RCB	110	.	.	.	.	58	16	5	23,958
TOP FARM/E34102BRCB	110	.	.	.	.	60	15	3	26,426
KRUGER/1006RR	106	.	.	.	.	60	19	7	26,136
KRUGER/1806RR	106	.	.	.	.	61	16	3	26,281
KRUGER/9208RR	108	.	.	.	.	58	15	3	27,588
KRUGER/9208RR/YGCB	110	.	.	.	.	59	16	1	26,136
ACCESS/EXP 2506RRYGCB	106	.	.	.	.	59	17	0	26,281
JACOBSEN/4637RBT	110	.	.	.	.	58	17	1	25,555
EPLEY/E2425RR	107	.	.	.	.	59	15	2	26,717
WENSMAN/W 6422BTRR	107	.	.	.	.	60	18	1	26,572
HEINE/H851RR/YGCB	113	57	24	1	27,443	.	.	.	.
HEINE/H8600RR/YGCB	112	57	23	1	27,007	.	.	.	.

\* RM= relative maturity reported by seed company.

Table 12b. Roundup Ready corn late hybrid averages for bushel weight, kernel moisture, lodging below ear, and harvest population- southern locations, 2004 (continued).

Brand/Hybrid	RM*	----- Southern Location Averages ----- for bu.wt., kernel moisture, lodging below ear, & plants/acre (ppa)							
		Beresford				Armour			
		Bu. wt. Lb.	H2O %	Ldg. %	PPA	Bu. wt. Lb.	H2O %	Ldg. %	PPA
HEINE/H793RR/YGCB	108	.	.	.	.	57	16	2	25,991
CHANNEL/7624RB	108	.	.	.	.	58	16	5	25,700
CHANNEL/7806RB	110	.	.	.	.	58	17	5	26,281
CHANNEL/8127RB	112	57	24	1	27,443	.	.	.	.
CHANNEL/8075RB	112	57	24	1	26,717	.	.	.	.
AGSOURCE SEEDS/6166	111	57	22	1	28,024	.	.	.	.
AGSOURCE SEEDS/5356	106	.	.	.	.	58	15	0	26,136
AGSOURCE SEEDS/5286CBRR	106	.	.	.	.	61	19	0	27,298
INTEGRA/INT 6504RRYGCB	106	.	.	.	.	62	17	1	26,717
Test avg.:		57	22	1	27,401	59	17	2	26,198
Max-value:		60	25	7	28,169	62	23	7	27,588
Min-value:		55	18	0	26,572	54	15	0	23,958
# Lsd (.05):		2	1	2	NS	3	2	NS	1,293
## TPG-value:		58	19	2	26,572	59	17	7	26,295
@ Coef.Var.:		2	4	114	2	3	7	118	3
No. Entries:		14	14	14	14	28	28	28	28

\* RM= relative maturity reported by seed company.

Seeding dates: Beresford- May 4 and Armour- May 3, 2004.

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

NS indicates differences among values in a column are non-significant.

## TPG-value= minimum or maximum value to qualify for top performance group.

@ Coef. of variation= measure of trial experimental error.

Table F. Seed companies entered in the 2004 corn hybrid trials by seed brand name.

Seed brand	Mailing address
Access	Access Seed, 980 Fox Ridge Rd., Dike, IA 50624
AgSource	Agsourceseeds Inc., 1800 L Ave., Nevada, IA 50201
Asgrow	Monsanto, 3100 Sycamore Rd, Dekalb, IL 60115
Channel	Channel Bio Corp., 5932 Schumann Dr., Madison, WI 53711
Crows	Crows Hybrid Corn Co., 5932 Schumann Dr., Madison, WI 53711
Dairyland	Dairyland Seed Co., Inc., PO Box 958, West Bend, WI 53095
Dekalb	Monsanto, 3100 Sycamore Rd, Dekalb, IL 60115
Epley Bros.	Epley Bros. Hybrids Inc., PO Box 310, Shell Rock, IA 50670
Gold Country	Gold Country Seed Inc., 16506 Hwy 15 N., Hutchinson, MN 55350
Heine	Heine Seed Corn, 1020 E. 320 <sup>th</sup> St., Vermillion, SD 57064
Integra Seed	Integra Seed, Ltd., PO Box 40, Bozeman, MT 59718
Jacobsen	Jacobsen Hybrid Corn Co., Inc., 129 9 <sup>th</sup> St., Lake View, IA 51450
Jung	Jung Seed Genetics, 341 S. High St., Randolph, WI 53956
Kaltenberg	Kaltenberg Seeds, PO Box 278, Waunakee, WI 53597
Kaystar	Kaystar Seed, PO Box 947, Huron, SD 57350
Keltgen	Keltgen Inc., AgVenture, 302 South Spruce St., Henry, SD 57243
Kruger	Kruger Seed Co., Hwy 20 E, Box A, Dike, IA 50624
Mallard	Mallard Seed Co. Inc., PO Box 637, Plainview, MN 55964
Midwest	Midwest Seed Genetics, 5932 Schumann Dr., Madison, WI 53711
Mycogen	Mycogen Seeds, 205 Oak Ridge Rd., Brandon, SD 57005
Pfister	Pfister Hybrid Corn Co., 187 N. Fayette St., El Paso, IL 61752
Sands	Sand Seed Service, Inc., Box 648, Marcus, IA 51035
Seeds 2000	Seeds 2000, PO Box 200, Breckenridge, MN 56520
NuTech	Thompson Seeds/Nutech, 6131 N. Fork Rd., Ames, IA 50010
Top Farm	Top Farm Hybrids, PO Box 850, Cokato, MN 55321
Weco	Wilbur-Ellis Co., PO Box 2169, Minot, ND 58702
Wensman	Wensman Seed Co., PO Box 190, Wadena, MN 56482



## 2005 Precision Planted Performance Trials

# CORN



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# 2005 Precision Planted Corn Performance Trials

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

## Test Trial Locations

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

## Weather Conditions

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

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

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

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

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

## General Test Procedures

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

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

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

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

## Experimental Procedures

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

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

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

## Measurements of Performance

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

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

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

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

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

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

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

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

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

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

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

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

# PERFORMANCE TRIAL RESULTS BY LOCATIONS

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

## Northern Locations

### Warner

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

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

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

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

### South Shore

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

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

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

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

## Central Locations

### Bancroft

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

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

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

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

### Brookings

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

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

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

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

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

## Southern Locations

### Delmont

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

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

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

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

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

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

## Beresford

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

All herbicide were applied at recommended label rates.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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**2006 Precision Planted Performance Trials**

# CORN



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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/a 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.

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**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.**

<b>Brand / Hybrid</b>	<b>Table No.</b>	<b>Brand / Hybrid</b>	<b>Table No.</b>
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).**

<b>Brand / Hybrid</b>	<b>Table No.</b>	<b>Brand / Hybrid</b>	<b>Table No.</b>
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/ HB9531RB	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
<b>TWO-YEAR ENTRIES:</b>							
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
<b>ONE-YEAR ENTRIES:</b>							
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
<b>TWO-YEAR ENTRIES:</b>							
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
<b>ONE-YEAR ENTRIES:</b>							
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
<b>TWO-YEAR ENTRIES:</b>							
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
<b>ONE-YEAR ENTRIES:</b>							
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
<b>TWO-YEAR ENTRIES:</b>							
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
<b>ONE-YEAR ENTRIES:</b>							
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
<b>TWO-YEAR ENTRIES:</b>							
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
<b>ONE-YEAR ENTRIES:</b>							
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
<b>TWO-YEAR ENTRIES:</b>							
KRUGER/ 5504YGCB	103	86	13	.	18	0	100
KRUGER/ 8602HX	102	86	10	.	18	1	98
<b>ONE-YEAR ENTRIES:</b>							
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
<b>TWO-YEAR ENTRIES:</b>							
INTEGRA/INT 63F9ORRYG	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
<b>ONE-YEAR ENTRIES:</b>							
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/ LR9391RRYG+	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
<b>TWO-YEAR ENTRIES:</b>							
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
<b>ONE-YEAR ENTRIES:</b>							
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
EPLY/ 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
EPLY/ E1195RR	98	.	79	58	17	0	99
LEGEND/ LR9396RRRCR	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
EPLY/ 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
EPLY/ 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
EPLY/ 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
<b>TWO-YEAR ENTRIES:</b>							
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
<b>ONE-YEAR ENTRIES:</b>							
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
<b>TWO-YEAR ENTRIES:</b>							
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
<b>ONE-YEAR ENTRIES:</b>							
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
<b>TWO-YEAR ENTRIES:</b>							
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
<b>ONE-YEAR ENTRIES:</b>							
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
<b>TWO-YEAR ENTRIES:</b>							
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
<b>ONE-YEAR ENTRIES:</b>							
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
<b>TWO-YEAR ENTRIES:</b>							
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
<b>ONE-YEAR ENTRIES:</b>							
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
<b>TWO-YEAR ENTRIES:</b>							
EPLEY/ 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
<b>ONE-YEAR ENTRIES:</b>							
KRUGER/ EXP8204HX	105	.	185	56	23	0	94
KRUGER/ EXP8502HX	102	.	184	55	19	2	100
KRUGER/ EXP8601HX	101	.	181	56	21	0	100
EPLEY/ E2492YGPL	110	.	179	55	22	0	100
KRUGER/ EXP0404	104	.	164	55	22	1	100
EPLEY/ 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
<b>TWO-YEAR ENTRIES:</b>							
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
<b>ONE-YEAR ENTRIES:</b>							
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
<b>TWO-YEAR ENTRIES:</b>							
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/105-04CBB	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
<b>ONE-YEAR ENTRIES:</b>							
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/ 106-02CBB	106	.	201	55	19	0	99
WENSMAN/ W 7316BTRWRR	101	.	199	55	18	0	97
LEGEND/ LR9501RRYG+	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.

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**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
<b>TWO-YEAR ENTRIES:</b>							
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
<b>ONE-YEAR ENTRIES:</b>							
FARM ADVANTAGE/ 1065	105	.	91	55	18	2	96
EPLEY/ E1157	96	.	70	57	20	3	93
KRUGER/ EXP8204HX	105	.	66	54	22	0	96
KRUGER/ EXP8601HX	101	.	61	56	23	1	100
EPLEY/ E1231	100	.	58	57	20	1	97
KRUGER/ EXP0404	104	.	56	58	19	2	99
DEKALB/ DKC55-12 (YGCB)	105	.	52	57	17	5	99
KRUGER/ EXP8502HX	102	.	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
<b>TWO-YEAR ENTRIES:</b>							
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
<b>ONE-YEAR ENTRIES:</b>							
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
<b>TWO-YEAR ENTRIES:</b>							
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
<b>ONE-YEAR ENTRIES:</b>							
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
<b>TWO-YEAR ENTRIES:</b>							
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/105-04CBB	106	86	68	52	24	0	98
KRUGER/ 2506RR/YGCB	106	86	77	52	25	1	99
<b>ONE-YEAR ENTRIES:</b>							
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/ 106-02CBB	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
<b>TWO-YEAR ENTRIES:</b>							
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
<b>ONE-YEAR ENTRIES:</b>							
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
<b>TWO-YEAR ENTRIES:</b>							
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
<b>ONE-YEAR ENTRIES:</b>							
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
<b>TWO-YEAR ENTRIES:</b>							
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
<b>ONE-YEAR ENTRIES:</b>							
WENSMAN/ W7439BTRWRR	110	.	203	59	17	1	95
KRUGER/ 6607TS	107	.	193	59	15	1	96
CROWS/ 4843X	110	.	191	60	18	6	91
HEINE/ H785RR	107	.	191	61	17	10	98
NUTECH/ 5210 RR/YGCB	110	.	190	59	17	2	95
MIDWEST/ 77124X	110	.	187	59	18	5	95
NUTECH/ 9410 RR/YGPL	110	.	185	61	19	30	99
HEINE/ H818RR	109	.	184	60	17	31	99
FARM ADVANTAGE/ 6504	104	.	183	61	16	5	99
KRUGER/ 1606RR	106	.	181	58	16	6	98
LEGEND/ LR9708RRYG+	108	.	180	61	16	58	95
WENSMAN/ W 7316BTRWRR	101	.	180	59	15	5	98
NUTECH/ 7808 RR/YGRW	108	.	179	60	16	8	97
KALTENBERG/ K5685RRBT	105	.	179	62	16	0	96
HEINE/ H766RRYGPL	106	.	178	60	16	45	97
NUTECH/ 9006 RR/YGPL	105	.	176	60	16	52	97
NUTECH/ 7110 RR/YGRW	110	.	176	59	18	36	97
INTEGRA/ INT 6710RRYG	110	.	175	59	17	40	96
KRUGER/ 9310TS	110	.	173	60	17	2	97
DEKALB/ DKC58-19 (RR2)	108	.	172	61	16	14	99
GOLD COUNTRY/ 106-02CBR	106	.	172	60	16	1	99
WENSMAN/ W 7423BTRWRR	107	.	171	60	16	2	95
NUTECH/ 5006A RR/YGCB	105	.	168	60	16	55	98
NUTECH/ 9908 RR/YGPL	108	.	168	60	16	3	96
DAIRYLAND/ STEALTH-4006	106	.	167	58	16	5	99
NUTECH/ 9507 RR/YGPL	105	.	167	59	16	1	99
ASGROW/ RX674RR2	109	.	165	59	17	10	98
INTEGRA/ INT 6609RRYG	106	.	165	61	16	44	98
NUTECH/ 9013 RR/YGCB	110	.	163	63	18	14	98
WILBUR ELLIS/ HB9601RB	110	.	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.

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**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
<b>TWO-YEAR ENTRIES:</b>							
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
<b>ONE-YEAR ENTRIES:</b>							
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.**

<b>Seed brand</b>	<b>Mailing address</b>
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

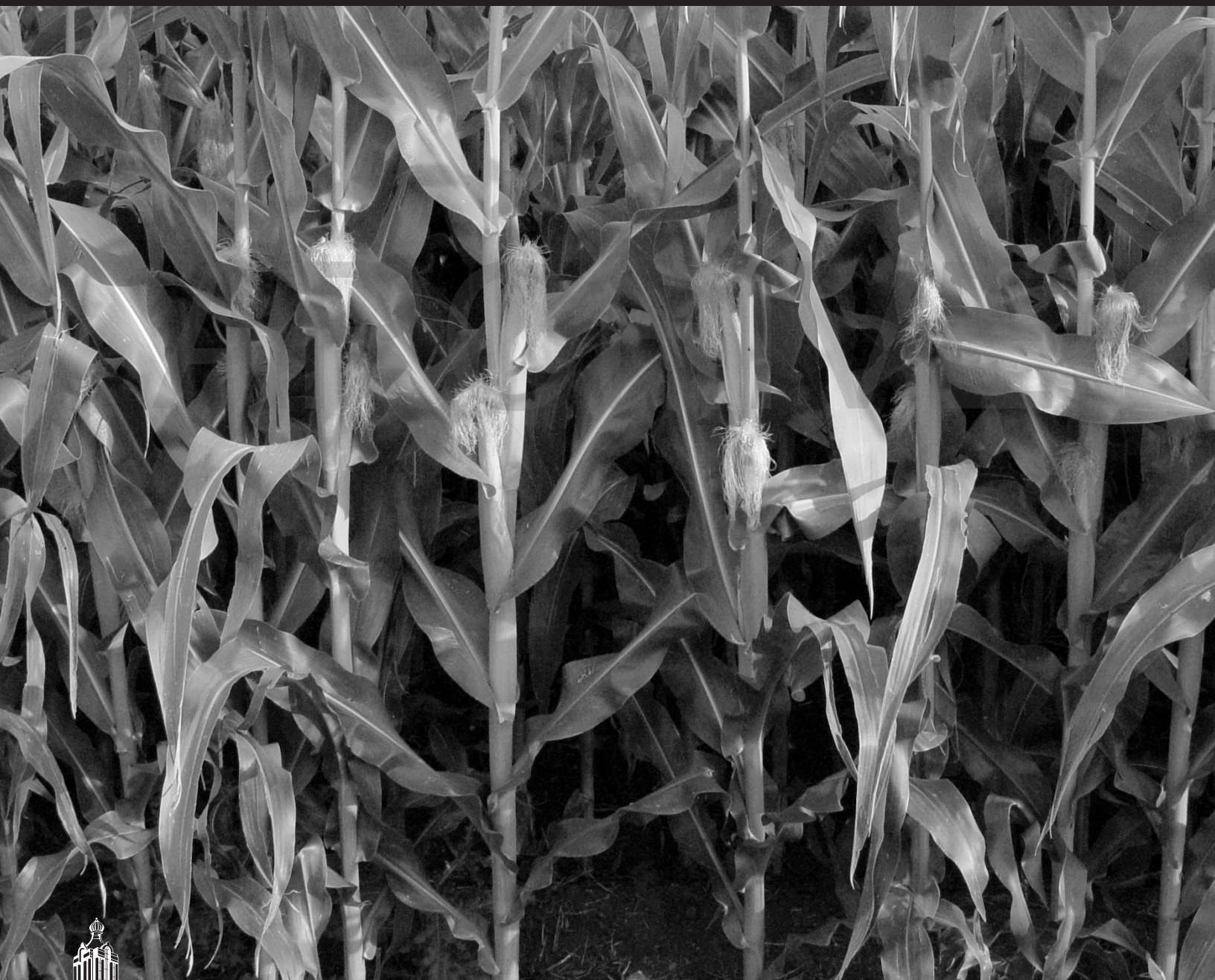
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**2007 Precision Planted Performance Trials**



**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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# 2007 Precision Planted Corn Performance Trials

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This publication reports the performance of entries in the 2007 South Dakota corn hybrid performance trials for both non-Roundup-Ready™ and Roundup-Ready™ hybrids. Information includes the most recent two-year and one-year grain yield averages, in bushels per acre, and one-year averages for bushel weight, grain moisture at harvest, percent stand at harvest, and stalk lodging percentages. These performance trials are conducted by the South Dakota Crop Performance Testing program at South Dakota State University. Corn performance trial tables are listed on the inside front cover. Environmental data is listed in tables A and B, indices of brand/hybrid entries to performance table number are listed in tables C and D, and mailing addresses for seed companies are listed in table E.

## Test Trial Locations

Trial locations, soil types, seedbed, previous crop history, soil fertility yield goals, and seeding dates are indicated in Table A. The participation and efforts of our cooperators Allen and Inel Ryckman at Warner, Al Heuer at South Shore (Northeast Research Farm), Erland Weerts at Bancroft, Douglas Doyle 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) was obtained through the efforts of D. Today and C. Shukla, South Dakota Office of Climate and Weather, and they are gratefully acknowledged. Average daily temperatures were 1 to 4°F below average across test locations in April; however, by May all locations were 2 to 4°F above average in temperature. Thereafter, temperatures ranged from about 0 to 2°F above average from June through August and from average to about 4°F above average in September. Heat unit totals varied across locations, ranging from a high of 3,168 GDD at the Beresford research farm to a low of 2,493 GDD at the South Shore research farm. Heat unit accumulations were below average only at Aberdeen (-55), South Shore research farm (-40), De Smet (-18), and Brookings (-16) in August; otherwise, they were average to above average across locations. The total GDD accumulations though September were about 10% above average across all locations.

Precipitation varied across test locations. On average, seasonal

moisture varied from a deficit of -2.91" at the Beresford research farm to a high of 7.77" above normal in the Aberdeen area. All locations experienced moisture deficits during the growing season. Moisture in April or May or both apparently was able to compensate for moisture deficits at some locations later in the season. In July, Brookings and the Beresford research farm received little or no rainfall.

## General Test Procedures

Seed companies pick the test locations where their entries are tested. Entries are placed into "early" or "late" maturity trials. The relative maturity breaks between the early and late tests are 95 days for Warner and South Shore, 100 days for Yale and Brookings, 105 days for Geddes, and 110 days for Beresford. Hybrids are assigned to trials based on their relative maturity ratings, which are 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 cross over at a given location. In some cases, this may be indicated by exceptionally high or low grain moisture contents at harvest. A higher than average moisture content may indicate the hybrid is later in relative maturity than indicated. Likewise, a lower than average moisture may indicate the hybrid is earlier in relative maturity than indicated. A fee was charged for all entries at each location. A list of participating seed companies for 2007 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 2007, the precision planter was calibrated to deliver 28,750 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 are outlined in table A. Seedbed preparation was good at all locations. A starter fertilizer of 100 pounds/

acre of 37-18-00 was applied 2" below and 2" to the side (2X2) of the seed row. Force insecticide 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. Current-year and two-year yield averages are included where hybrids have been tested in 2007 and for the past two years. In 2007, two-year yield means were not calculated at Warner, South Shore, and Geddes. The yield data for 2006 at these locations was not used in the calculation of 2007 yields averages because the 2006 data contained high levels of experimental error. The high levels of experimental error in the 2006 data resulted when temperatures in the high 90s and above resulted in very poor or no pollination, which severely reduced yield. Therefore, the performance data at Warner, South Shore, and Geddes only includes data for 2007.

**Yield:** Yield values are an average of three replications and are expressed as bushels per acre, adjusted to 15.5% moisture on a dry-matter basis and a bushel weight of 56 pounds. 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 2007, the coefficient of variation (CV) values (a measure of experimental error) for yield was relatively low over the six test locations. The highest CV value (13%) was obtained in the early non-Roundup Ready trial at Geddes, while the remaining test trial CV values were generally in the 5 to 10% range. Experimental error may be the result of several factors, including test methods, or factors such as moisture, temperature, and soil variations, or agronomic factors such as seeding date, reseeding, or seed quality factors—all of which may or may not be controllable in a given year. Clearly, in 2007, seasonal moisture distribution and/or subsoil moisture conditions, along with elevated high temperatures, were the factors that affected the yielding potential of the corn hybrids tested. All test locations likely were exposed to some degree of moisture stress; however, Beresford was particularly dry in July (Table B).

**Grain moisture content:** Moisture content is expressed as the percentage of moisture in the shelled corn at harvest. Moisture is generally inversely related to maturity and is important in the evaluation of hybrids. Hybrids that provide satisfactory yields and can be stored without additional drying are desirable. During harvest, moisture values were determined by the combine moisture meter, which, in turn, was periodically checked with a Dickey-John GAC II to verify it was within 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 significant yield difference. LSD values are given at the bottom of every column where there is significant difference among the averages within the column. If differences among the averages within a column are not significant, then the LSD value is reported as non-significant (NS).

The LSD values reported in this publication can be used in several ways. Here, the LSD value is used primarily to identify

not only the top performance group (TPG) for current-year and two-year yields, but also bushel weight, grain moisture at harvest, and lodging (below the ear) percentage for each test trial. In order 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, let's 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 rounding, 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 to or higher than the minimum TPG value reported at the bottom of each yield column (2007 or two-year yield averages). 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. When comparing yield means, compare current-year averages with other current-year averages and compare two-year yield averages with other two-year averages. Do not compare current-year averages with two-year averages when comparing hybrids. When evaluating current-year averages, do not forget to note that entries tested for two years may also have a yield value that qualifies for the TPG in the 2007 yield column.

The LSD values for the TPG can also be used to determine if two hybrids differ in performance. For example, if a test trial LSD value equals 16 bu/a, and if 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, then 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 if hybrid A measures 18% and hybrid B measures 16, then 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 2%; therefore, hybrid A is significantly higher in grain moisture than hybrid C.

The TPG for other performance factors like bushel weight, percent grain moisture at harvest, percent lodging (below the ear), and percent stand (percent of seeded population) can also be determined. In order to qualify for the TPG group, a hybrid

must have a bushel weight and a percent of stand value that is equal to or greater than the minimum reported TPG value for bushel weight or percent of stand. Likewise, in order to qualify for the TPG, a hybrid must have grain moisture and lodging values that are equal to or less than the maximum reported TPG value for grain moisture or lodging percentage. Note that yield, bushel weight, and percent stand TPG values are greater than a mini-

um yield, minimum bushel weight, or minimum percent stand value. In contrast, grain moisture and lodging percentage values are equal to or less than a maximum grain moisture or lodging 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.

## PERFORMANCE TRIAL RESULTS BY LOCATIONS

The performance trial results for one year (2007) and for two years (2006-07) follow:

### Northern Locations

**Note:** In 2007, two-year yield means were not calculated at Warner and South Shore. The yield data for 2006 at these locations was not used in the calculation of 2007 yields means because the 2006 data contained high levels of experimental error. The high levels of experimental error in the 2006 data resulted when temperatures in the high 90s and above resulted in very poor or no pollination, which severely reduced yields. Thus, the performance data at Warner and South Shore only includes 2007 data.

#### Warner

**Early maturity trial – Non-Roundup Ready™, Tables 1a:** The test trial yield average was 174 bu/a in 2007. Yield differences among hybrids were non-significant in 2007. Therefore, all entries tested were in the TPG for yield, even the lowest yield value of 166 bu/a. In 2007, bushel weights averaged 56 lbs, grain moisture averaged 17%, lodging averaged 1%, and percent stand averaged 99%. In order for hybrids to be in the TPG for all performance factors, they had to average 166 bu/a or more in yield, 56 lbs or more in bushel weight, 17% or less in grain moisture, 2% or less in lodging, and 97% or more for percent stand.

**Late maturity trial – Non-Roundup Ready™, Tables 1b:** The test trial yield average was 180 bu/a in 2007. Yield differences among hybrids were non-significant in 2007. Therefore, all entries tested were in the TPG for yield, even the lowest yield value of 169 bu/a. In 2007, bushel weights averaged 54 lbs, grain moisture averaged 24%, lodging averaged slightly more than 0%, and percent stand averaged 99%. In order for hybrids to be in the TPG for all performance factors, they had to average 169 bu/a or more in yield, 54 lbs or more in bushel weight, 21% or less in grain moisture, 1% or less in lodging, and 98% or more for percent stand.

**Early maturity trial – Roundup Ready™, Tables 1c:** The test trial yield average was 187 bu/a in 2007. Hybrids that yielded 189 bu/a or more qualified for the TPG for yield. Hybrids had to differ in yield by 12 bu/a in 2007 to be significantly different. In 2007, bushel weights averaged 57 lbs, grain moisture averaged 17%, lodging averaged 1%, and percent stand averaged 97%. In order for hybrids to be in the TPG for all performance factors, they had to average 189 bu/a or more in yield, 57 lbs or more in bushel weight, 16% or less in grain moisture, 2% or less in lodg-

ing, and 96% or more for percent stand.

**Late maturity trial – Roundup Ready™, Tables 1d:** The test trial yield average was 181 bu/a in 2007. Hybrids that yielded 180 bu/a or more qualified for the TPG for yield. Hybrids had to differ in yield by 14 bu/a in 2007 to be significantly different. In 2007, bushel weights averaged 57 lbs, grain moisture averaged 19%, lodging averaged slightly more than 0%, and percent stand averaged 98%. In order for hybrids to be in the TPG for all performance factors, they had to average 180 bu/a or more in yield, 58 lbs or more in bushel weight, 18% or less in grain moisture, 2% or less in lodging, and 97% or more for percent stand.

#### South Shore

**Early maturity trial – Non-Roundup Ready™, Tables 2a:** The test trial yield average was 177 bu/a in 2007. Hybrids that yielded 178 bu/a or more qualified for the TPG for yield. Hybrids had to differ in yield by 12 bu/a in 2007 to be significantly different. In 2007, bushel weights averaged 55 lbs, grain moisture averaged 19%, lodging averaged 1%, and percent stand averaged 98%. In order for hybrids to be in the TPG for all performance factors, they had to average 178 bu/a or more in yield, 55 lbs or more in bushel weight, 18% or less in grain moisture, 2% or less in lodging, and 98% or more for percent stand.

**Late maturity trial – Non-Roundup Ready™, Tables 2b:** The test trial yield average was 174 bu/a in 2007. Hybrids that yielded 168 bu/a or more qualified for the TPG for yield. Hybrids had to differ in yield by 16 bu/a in 2007 to be significantly different. In 2007, bushel weights averaged 53 lbs, grain moisture averaged 26%, lodging averaged slightly more than 0%, and percent stand averaged 100%. In order for hybrids to be in the TPG for all performance factors, they had to average 168 bu/a or more in yield, 52 lbs or more in bushel weight, 25% or less in grain moisture, 1% or less in lodging, and 99% or more for percent stand.

**Early maturity trial – Roundup Ready™, Tables 2c:** The test trial yield average was 179 bu/a in 2007. Hybrids that yielded 182 bu/a or more qualified for the TPG for yield. Hybrids had to differ in yield by 12 bu/a in 2007 to be significantly different. In 2007, bushel weights averaged 55 lbs, grain moisture averaged 20%, lodging averaged 1%, and percent stand averaged 99%. In order for hybrids to be in the TPG for all performance factors, they had to average 182 bu/a or more in yield, 57 lbs or more in bushel weight, 18% or less in grain moisture, 3% or less in lodging, and 97% or more for percent stand.

**Late maturity trial – Roundup Ready™, Tables 2d:** The test trial yield average was 177 bu/a in 2007. Hybrids that yielded 172 bu/a or more qualified for the TPG for yield. Hybrids had to differ in yield by 20 bu/a in 2007 to be significantly different. In 2007, bushel weights averaged 54 lbs, grain moisture averaged 22%, lodging averaged 1%, and percent stand averaged 98%. In order for hybrids to be in the TPG for all performance factors, they had to average 172 bu/a or more in yield, 56 lbs or more in bushel weight, 20% or less in grain moisture, 2% or less in lodging, and 96% or more for percent stand.

## Central Locations Bancroft

**Early maturity trial – Non-Roundup Ready™, Tables 3a:** The test trial yield averages were 191 bu/a in 2007 and 167 bu/a for two years. Hybrids that yielded 186 bu/a or more in 2007 qualified for the TPG for yield. There were no differences in yield average among the three hybrids tested two years, so all three qualified for the TPG. Hybrids had to differ in yield by 18 bu/a in 2007 to be significantly different. In 2007, bushel weights averaged 58 lbs, grain moisture averaged 19%, lodging averaged slightly more than 0%, and percent stand averaged 97%. In order for hybrids to be in the TPG for all performance factors, they had to average 186 bu/a for 2007 and 159 bu/a or more in yield for two years, 58 lbs or more in bushel weight, 17% or less in grain moisture, 1% or less in lodging, and 96% or more for percent stand.

**Late maturity trial – Non-Roundup Ready™, Tables 3b:** The test trial yield averages were 190 bu/a in 2007 and 170 bu/a for two years. Yield differences among hybrids were non-significant in 2007 and for the two-year period. Therefore, all entries were in the TPG for yield, even though the lowest yield value was 179 bu/a in 2007 and 166 bu/a for two years. In 2007, bushel weights averaged 56 lbs, grain moisture averaged 22%, lodging averaged slightly more than 0%, and the final percent stand averaged 98%. In order for hybrids to be in the top performance group for these factors, they had to average 179 bu/a or more for 2007 and 166 bu/a or more for two years, 56 lbs or more in bushel weight, 21% or less in grain moisture, 1% or less in stalk lodging, and 96% or more for percent stand.

**Early maturity trial – Roundup Ready™, Tables 3c:** The test trial yield averages were 190 bu/a in 2007 and 172 bu/a for two years. Hybrids that yielded 193 bu/a or more in 2007 and 173 bu/a or more for two years qualified for the TPG for yield. Hybrids had to differ in yield by 19 bu/a in 2007 and 17 bu/a for two years to be significantly different. In 2007, bushel weights averaged 58 lbs, grain moisture averaged 19%, lodging averaged 1% and the final percent stand averaged 97%. In order for hybrids to be in the TPG for these factors, they had to average 193 bu/a or more for 2007 and 173 bu/a or more for two years, 58 lbs or more in bushel weight, 18% or less in grain moisture, 1% or less in lodging, and 95% or more for percent stand.

**Late maturity trial – Roundup Ready™, Tables 3d:** The test trial yield averages were 193 bu/a in 2007 and 176 bu/a for two years. Hybrids that yielded 192 bu/a or more in 2007 and 168 bu/a or more for two years qualified for the TPG for yield. Hybrids had to differ in yield by 18 bu/a in 2007 and 19 bu/a for two years to be significantly different. In 2007, bushel weights averaged 57 lbs, grain moisture averaged 21%, lodging averaged slightly more than 0%, and the final percent stand averaged 96%. In order for

hybrids to be in the TPG for these factors, they had to average 192 bu/a or more for 2007 and 168 bu/a or more for two years, 57 lbs or more in bushel weight, 20% or less in grain moisture, 1% or less in lodging, and 92% or more for percent stand.

## Brookings

**Early maturity trial – Non-Roundup Ready™, Tables 4a:** The test trial yield averages were 151 bu/a in 2007 and 166 bu/a for two years. Yield differences among hybrids were non-significant in 2007 and for the two-year period. Therefore, all entries were in the TPG for yield, even though the lowest yield value was 151 bu/a in 2007 and 166 bu/a for two years. In 2007, bushel weights averaged 57 lbs, grain moisture averaged 19%, lodging averaged slightly more than 0%, and the final percent stand averaged 97%. In order for hybrids to be in the TPG for these factors, they had to average 151 bu/a or more for 2007 and 166 bu/a or more for two years, 58 lbs or more in bushel weight, 17% or less in grain moisture, 1% or less in lodging, and 96% or more for percent stand.

**Late maturity trial – Non-Roundup Ready™, Tables 4b:** The test trial yield averages were 192 bu/a in 2007 and 187 bu/a for two years. Hybrids that yielded 204 bu/a or more in 2007 qualified for the TPG for yield. There were no differences in yield average among the four hybrids tested two years, so all four qualified for the TPG. Hybrids had to differ in yield by 16 bu/a in 2007 to be significantly different. In 2007, bushel weights averaged 56 lbs, grain moisture averaged 20%, lodging averaged slightly more than 0%, and percent stand averaged 98%. In order for hybrids to be in the TPG for all performance factors, they had to average 204 bu/a for 2007 and 165 bu/a or more in yield for two years, 58 lbs or more in bushel weight, 19% or less in grain moisture, 2% or less in lodging, and 96% or more for percent stand.

**Early maturity trial – Roundup Ready™, Tables 4c:** The test trial yield averages were 186 bu/a in 2007 and 175 bu/a for two years. Hybrids that yielded 188 bu/a or more in 2007 and 170 bu/a or more for two years qualified for the TPG for yield. Hybrids had to differ in yield by 20 bu/a in 2007 and 21 bu/a for two years to be significantly different. In 2007, bushel weights averaged 57 lbs, grain moisture averaged 17%, lodging averaged slightly more than 0%, and the final percent stand averaged 98%. In order for hybrids to be in the TPG for these factors, they had to average 188 bu/a or more for 2007 and 170 bu/a or more for two years, 59 lbs or more in bushel weight, 16% or less in grain moisture, 1% or less in lodging, and 97% or more for percent stand.

**Late maturity trial – Roundup Ready™, Tables 4d:** The test trial yield averages were 199 bu/a in 2007 and 198 bu/a for two years. Hybrids that yielded 204 bu/a or more in 2007 and 185 bu/a or more for two years qualified for the TPG for yield. Hybrids had to differ in yield by 16 bu/a in 2007 and 31 bu/a for two years to be significantly different. In 2007, bushel weights averaged 57 lbs, grain moisture averaged 20%, lodging averaged slightly more than 0%, and percent stand averaged 97%. In order for hybrids to be in the TPG for these factors, they had to average 204 bu/a or more for 2007 and 185 bu/a or more for two years, 58 lbs or more in bushel weight, 18% or less in grain moisture, 1% or less in lodging, and 96% or more for percent stand.

## Southern Locations

**Note:** In 2007, two-year yield means were not calculated at Geddes. The yield data for 2006 at this location was not used

in the calculation of 2007 yields means because the 2006 data contained high levels of experimental error. The high levels of experimental error in the 2006 data resulted when temperatures in the high 90s and above resulted in very poor or no pollination, which severely reduced yields. Therefore, the performance data at Geddes only includes data for this year.

## Geddes

### **Early maturity trial – Non-Roundup Ready™, Tables 5a:**

The test trial yield average was 163 bu/a in 2007. Yield differences among hybrids were non-significant in 2007. Therefore, all entries tested were in the TPG for yield, even the lowest yield value of 155 bu/a. In 2007, bushel weights averaged 59 lbs, grain moisture averaged 17%, lodging averaged slightly more than 0%, and percent stand averaged 97%. In order for hybrids to be in the TPG for all performance factors, they had to average 155 bu/a or more in yield, 60 lbs or more in bushel weight, 17% or less in grain moisture, 1% or less in lodging, and 96% or more for percent stand.

### **Late maturity trial – Non-Roundup Ready™, Tables 5b:**

The test trial yield average was 166 bu/a in 2007. Yield differences among hybrids were non-significant in 2007. Therefore, all entries tested were in the TPG for yield, even the lowest yield value of 160 bu/a. In 2007, bushel weights averaged 59 lbs, grain moisture averaged 19%, lodging averaged slightly more than 0%, and percent stand averaged 96%. In order for hybrids to be in the TPG for all performance factors, they had to average 160 bu/a or more in yield, 59 lbs or more in bushel weight, 20% or less in grain moisture, 1% or less in lodging, and 96% or more for percent stand.

**Early maturity trial – Roundup Ready™, Tables 5c:** The test trial yield average was 177 bu/a in 2007. Hybrids that yielded 183 bu/a or more in 2007 qualified for the TPG for yield. Hybrids had to differ in yield by 19 bu/a in 2007 to be significantly different. In 2007, bushel weights averaged 60 lbs, grain moisture averaged 15%, lodging averaged slightly more than 0%, and percent stand averaged 92%. In order for hybrids to be in the TPG for these factors, they had to average 183 bu/a or more in yield for 2007, 60 lbs or more in bushel weight, 15% or less in grain moisture, 2% or less in lodging, and 94% or more for percent stand.

**Late maturity trial – Roundup Ready™, Tables 5d:** The test trial yield average was 191 bu/a in 2007. Hybrids that yielded 198 bu/a or more in 2007 qualified for the TPG for yield. Hybrids had to differ in yield by 18 bu/a in 2007 to be significantly different. In 2007, bushel weights averaged 58 lbs, grain moisture averaged 19%, lodging averaged 1%, and percent stand averaged 90%. In order for hybrids to be in the TPG for these factors, they had to average 198 bu/a or more in yield for 2007, 58 lbs or more in bushel weight, 18% or less in grain moisture, 2% or less in lodging, and 91% or more for percent stand.

## Beresford

### **Early maturity trial – Non-Roundup Ready™, Tables 6a:**

The test trial yield averages were 192 bu/a in 2007 and 189 bu/a for two years. Hybrids that yielded 195 bu/a or more in 2007 qualified for the TPG for yield. There were no differences in yield average between the two hybrids tested two years, so both qualified for the TPG. Hybrids had to differ in yield by 17 bu/a in 2007 to be significantly different. In 2007, bushel weights averaged 57 lbs, grain moisture averaged 17%, lodging averaged 0%, and percent stand averaged 97%. In order for hybrids to be in the TPG for all performance factors, they had to average 195 bu/a for 2007 and 178 bu/a or more in yield for two years, 58 lbs or more in bushel weight, 15% or less in grain moisture, 0% in lodging, and 97% or more for percent stand.

### **Late maturity trial – Non-Roundup Ready™, Tables 6b:**

The test trial yield averages were 190 bu/a in both 2007 and for two years. Yield differences among hybrids were non-significant in 2007 and for the two-year period. Therefore, all entries were in the TPG for yield, even though the lowest yield value was 173 bu/a in 2007 and 174 bu/a for two years. In 2007, bushel weights averaged 57 lbs, grain moisture averaged 19%, lodging averaged 0%, and percent stand averaged 97%. In order for hybrids to be in the top performance group for these factors, they had to average 173 bu/a or more for 2007 and 174 bu/a or more for two years, 58 lbs or more in bushel weight, 18% or less in grain moisture, 1% or less in stalk lodging, and 95% or more for percent stand.

**Early maturity trial – Roundup Ready™, Tables 6c:** The test trial yield averages were 183 bu/a in 2007 and 182 bu/a for two years. Hybrids that yielded 182 bu/a or more in 2007 qualified for the TPG for yield. There were no differences in yield average between the three hybrids tested two years, so all three qualified for the TPG. Hybrids had to differ in yield by 24 bu/a in 2007 to be significantly different. In 2007, bushel weights averaged 57 lbs, grain moisture averaged 17%, lodging averaged slightly more than 0%, and percent stand averaged 96%. In order for hybrids to be in the TPG for all performance factors, they had to average 182 bu/a for 2007 and 170 bu/a or more in yield for two years, 57 lbs or more in bushel weight, 15% or less in grain moisture, 1% or less in lodging, and 96% or more for percent stand.

**Late maturity trial – Roundup Ready™, Tables 6d:** The test trial yield average was 189 bu/a in 2007. Hybrids that yielded 195 bu/a or more in 2007 qualified for the TPG for yield. Hybrids had to differ in yield by 24 bu/a in 2007 to be significantly different. In 2007, bushel weights averaged 59 lbs, grain moisture averaged 19%, lodging averaged 0%, and percent stand averaged 97%. In order for hybrids to be in the TPG for these factors, they had to average 195 bu/a or more in yield for 2007, 59 lbs or more in bushel weight, 18% or less in grain moisture, 0% or less in lodging, and 96% or more for percent stand.

**Table A. Description of 2007 corn hybrid trial locations- soil type, tillage type, prior crop, herbicides and insecticides used, and seeding dates**

Location (County)	Soils & Management			Herbicides - Applied at label rates				Fertility Yield Goal bu/a	Date Seeded
	Type	Tillage Type	Prior crop	Roundup Ready		Non- Roundup Ready			
				Pre	Post	Pre	Post		
Warner (Brown)	Harmony-Aberdeen silty clay loam, 0-2% slope	Conven- tional	Spring Wheat	Harness Xtra	Roundup once	Harness Xtra	Accent/ Buctril	200	May 18
South Shore (Codington)	Kransburg silty clay loam, 3-6% slope	Conven- tional	Oat	Dual II Magnum	Roundup once	Dual II Magnum	Accent/ Buctril	180	May 14
Bancroft (Kingsbury)	Houdek-Stickney- Tetonka loam, 0-3% slope	Conven- tional	Soybean	Balance Pro	Roundup once	Balance Pro	Accent/ Buctril	180	May 19
Brookings (Brookings)	Barnes clay loam, 0-2% slope	Conven- tional	Soybean	Dual II Magnum	Roundup once	Dual II Magnum	Accent/ Buctril	200	May 10
Geddes (Chas. Mix)	Highmore-Walke silt loam, 0-2% slope	No-till	Winter Wheat	None	Roundup once	None	Stead- fast/ Callisto/ Atrazine	200	May 15
Beresford (Clay)	Egan-Clarno-Trent silty clay loam, 0-2% slope	Conven- tional	Soybean	None	Roundup once	None	Prowl/ Clarity	210	May 2

All plots were seeded at 27,878 seeds per acre. Force insecticide was applied in-furrow at label rate at seeding

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**Table B. Monthly nearest weather station totals for precipitation and growing degree days (GDD); and average temperatures; and their departures from normal (DFN) for the 2007 growing season**  
**Source: South Dakota Office of Climate and Weather. 2007. D. Todey and C. Shukla.**

Station (Test site)	Variable		Monthly data beginning April 1 and ending September 30						
			April	May	June	July	Aug	Sept	Totals
Aberdeen Airport (Warner)	Precip.- inches	'07	3.42	12.23	2.43	0.79	2.20	1.61	22.68
		DFN*	1.83	9.54	-1.06	-2.13	-0.22	-0.19	7.77
	Avg.Temp. -°F	'07	41	60	69	74	68	60	
		DFN	-4.1	2.5	2.1	1.6	-2.1	0.5	
	Accum. GDD's	'07	152	404	583	727	589	434	2,889
		DFN	41	88	85	36	-55	72	267
South Shore Shore (NE Farm)	Precip.- inches	'07	4.23	3.70	2.08	0.85	0.51	4.14	15.51
		DFN	2.20	0.87	-1.57	-2.79	-2.72	2.08	-1.93
	Avg.Temp. -°F	'07	40	58	66	71	68	61	
		DFN	-3.4	2.6	1.2	0.7	0.2	3.0	
	Accum. GDD's	'07	124	325	507	640	518	379	2,493
		DFN	51	49	68	12	-40	72	212
DeSmet/ (Bancroft)	Precip.- inches	'07	3.42	4.25	2.27	1.05	4.27	2.16	17.42
		DFN	1.21	1.17	-1.65	-2.50	1.41	-0.20	-0.56
	Avg.Temp. -°F	'07	44	62	69	74	70	62	
		DFN	-1.8	4.0	1.6	2.2	-0.1	2.0	
	Accum. GDD's	'07	162	390	570	733	601	420	2,876
		DFN	61	90	51	48	-18	78	310
Brookings 2NE	Precip.- inches	'07	3.62	1.86	2.99	0.14	6.45	1.00	16.06
		DFN	1.59	-1.09	-1.24	-2.97	3.51	-1.28	-0.39
	Avg.Temp. -°F	'07	41	61	68	72	68	61	
		DFN	-3.3	4.0	2.1	0.8	-0.2	1.6	
	Accum. GDD's	'07	146	385	544	653	561	409	2,698
		DFN	61	91	61	14	-16	79	290
Centerville “(SE Farm,” Beresford)	Precip.- inches	'07	3.04	3.49	2.16	0.00	4.95	1.96	15.60
		DFN	0.57	-0.16	-1.79	-3.35	2.12	-0.30	-2.91
	Avg.Temp. -°F	'07	46	64	70	75	73	64	
		DFN	-1.6	4.5	0.5	1.6	0.8	1.4	
	Accum. GDD's	'07	187	457	606	750	706	462	3,168
		DFN	51	449	25	14	38	69	646
Platte**/ Academy*** (Geddes)	Precip.- inches	'07	1.76	5.68	6.24	1.47	4.78	1.51	21.44
		DFN	-0.85	1.88	2.83	-1.69	2.31	-0.88	3.60
	Avg.Temp. -°F	'07	44	62	69	76	72	65	
		DFN	-1.3	4.2	1.5	2.3	0.7	3.5	
	Accum. GDD's	'07	159	406	566	727	660	465	2,983
		DFN	41	101	44	9	-1	72	266

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

\*\* Precipitation data

\*\*\* Temperature and GDD accumulation data

**Table C. 2007 Non-Roundup Ready corn hybrid entries by brand/hybrid and performance table number(s)**

<b>Brand / Hybrid</b>	<b>Table No.</b>	<b>Brand / Hybrid</b>	<b>Table No.</b>
AGVENTURE/ EX268275CBLL	1a	KRUGER/ 5504YGCB	3b, 4b, 5a
EPLEY/ E1231	3a, 4a, 5a	KRUGER/ 8112HX	6b
EPLEY/ E12L50YGCB	3a, 4a, 5a	KRUGER/ 8308HX	5b, 6a
EPLEY/ E1430YGCB	3b, 4b, 5a	KRUGER/ 8310HX	5b
EPLEY/ E1522YGPL	3b, 4b, 5a	KRUGER/ 8502HX	1b, 2b, 3b, 4b, 5a
EPLEY/ E2207HXLL	3b, 4b, 5a	KRUGER/ 8602HX	1b, 2b, 3b, 4b, 5a
EPLEY/ E2474	4b, 5b	KRUGER/ 8616HX	6b
FARM ADVANTAGE/ 86X06	5b, 6a	KRUGER/ 9414HXT	6b
FARM ADVANTAGE/ 87X00	3b, 4b	KRUGER/ EXP8199HX	1b, 2b
FARM ADVANTAGE/ 9690L	1a, 2a	KRUGER/ EXP9010HXT	5b, 6a
FARM ADVANTAGE/ 9699L	1b, 2b, 3a, 4a	KRUGER/ EXP9106HXT	3b, 4b, 5a, 6a
GOLD COUNTRY/ 95-03CB	1a, 2a, 3a, 4a	KRUGER/ EXP9502HXT	1b, 2b, 3b, 4b, 5a
HEINE/ H734	6a	KRUGER/ EXP9504HXT	3b, 4b, 5a
HEINE/ H818	6a	MYCOGEN/ 2C597	6a
HEINE/ H818YGCB	6a	MYCOGEN/ 2C727	6b
HEINE/ H819	6a	MYCOGEN/ 2D675	6a
HOEGEMEYER/ 9326HX	6a	MYCOGEN/ 2K718	6b
HOEGEMEYER/ HB+651	6a	MYCOGEN/ 2R572	6a
KING SEED/ X7871CBLL	1a	MYCOGEN/ 2T787	6b
KING SEED/ X7901	1a	RENK/ RK442LLYGCB	1a, 2a
KRUGER/ 0401	1b, 2b, 3b, 4b, 5a	RENK/ RK852LLYGCB	5b, 6a
KRUGER/ 5006YGCB	3b, 4b, 5b	RENK/ RK884YGCB	5b, 6b
KRUGER/ 5013YGCB	6b	SEEDS 2000/ 2953BT	1a, 2a, 3a, 4a
KRUGER/ 5111	5b, 6b	WENSMAN/ 5343BT	3b, 4b, 5a, 6a
KRUGER/ 5114YGCB	6b	WENSMAN/ W4141	1a, 2a
KRUGER/ 5210YGCB	5b, 6a	WENSMAN/ W5105BT	1a, 2a

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**Table D. 2007 Roundup Ready corn hybrid entries by brand/hybrid and performance table numbers (s)**

Brand / Hybrid	Table No.	Brand / Hybrid	Table No.
AGSOURCE/ 3A-090RR	1c	DEKALB/ DKC58-16(VT3)	5d, 6c
AGSOURCE/ 3A-093RR	1c	DEKALB/ DKC61-69(VT3)	5d, 6d
AGSOURCE/ 3A-391RR	1c	DEKALB/ DKC62-33RR2YGCB	6d
AGSOURCE/ 3C-007RR/YGCB	3d, 4d, 5d, 6c	DEKALB/ DKC63-42(VT3)	6d
AGSOURCE/ 3C-009RR/YGCB	5d	DEKALB/ RX715VT3	6d
AGSOURCE/ 3C-101RR/YGCB	5c	EPLEY/ E1165RR	3c, 4c, 5c
AGSOURCE/ 3C-310RR/YGCB	5d, 6c	EPLEY/ E1195RR	3c, 4c, 5c
AGSOURCE/ 3C-504ARRYGCB	2d, 3c, 4c, 6c	EPLEY/ E1205RR	3c, 4c, 5c
AGSOURCE/ 3C-504RR/YGCB	5c	EPLEY/ E1225RR	3c, 4c, 5c
AGSOURCE/ 3C-799RR/YGCB	2d, 3c, 4c	EPLEY/ E12R34YGPL	3d, 4d, 5c
AGSOURCE/ 3P-191RR/YGPL	2c	EPLEY/ E1525RR	3d, 4d, 5c
AGSOURCE/ 3P-300RR/YGPL	1d	EPLEY/ E16R12YGPL	3d, 4d, 5c
AGSOURCE/ 3P-302ARRYGPL	3d, 4d, 5c	EPLEY/ E24R32YGPL	4d, 5d, 6c
AGSOURCE/ 3P-902RR/YGPL	2d, 3c, 4c, 5c	EPLEY/ E25R52YGPL	4d, 5d, 6c
AGSOURCE/ 3P-910RR/YGPL	5d	EPLEY/ E3245RR	5d, 6d
AGSOURCE/ 3T-006A VT3	3d	FARM/ ADVANTAGE 6504	6c
AGSOURCE/ 3T-096 VT3	1c, 2c	FARM/ ADVANTAGE 9503GL	5c
AGSOURCE/ 3T-099 VT3	1d, 2d, 3c, 4c	FIELDERS/ CHOICE E640HX	5c
AGSOURCE/ 3T-799 VT3	1d, 2d, 3c, 4c	FIELDERS/ CHOICE NG6402	1c, 2c
AGSOURCE/ 3T-808 VT3	4d, 5d, 6c	FIELDERS/ CHOICE NG6490	1d, 2d, 3c, 4c
AGSOURCE/ 3T-995 VT3	1c, 2c	FIELDERS/ CHOICE NG6510	1d, 2d, 3c, 4c
AGSOURCE/ 5H-008 RR/HX	3d, 4d, 6c	FIELDERS/ CHOICE NG6580	3d, 4d, 5c
AGSOURCE/ 5H-403 RR/HX	4d, 5c	FIELDERS/ CHOICE NG6686	5d, 6c
AGVENTURE/ AV4006YPRR	1c	FIELDERS/ CHOICE NG6721	5d, 6c
AGVENTURE/ AV4883YPRR	1c, 2c, 4c	FIELDERS/ CHOICE NG6745	6c
AGVENTURE/ AV5016R2CB	1c	FIELDERS/ CHOICE NG6780	5d, 6d
AGVENTURE/ AV5480R2CB	2d, 4c	FIELDERS/ CHOICE NG6785	6d
AGVENTURE/ AV5480V3R	1d	FONTANELLE/ 2R144	1c, 2c
AGVENTURE/ AV6323R2CB	4d	FONTANELLE/ 4N627	1d, 2d
CROWS/ 2121S	2d, 4d	FONTANELLE/ 5N503	1d, 2d, 5c
CROWS/ 3846T	6c	FONTANELLE/ 6T226	5d, 6c
CROWS/ 4846T	6c	FONTANELLE/ 7K456	5d, 6c
CROWS/ 4S502	2d, 4c	FONTANELLE/ 7N866	5d, 6c
DAIRYLAND/ STEALTH-7196	1d, 2d, 3c	FONTANELLE/ 7T683	5d, 6c
DAIRYLAND/ STEALTH-7204	3d, 4d, 5c	FOUR/ STAR 6880VT3	6d
DAIRYLAND/ STEALTH-9194	1c, 2c	FOUR/ STAR EX9744RRBT	6c
DAIRYLAND/ STEALTH-9196	1d, 2d	FOUR/ STAR EX9762RRYGPL	6c
DAIRYLAND/ STEALTH-9201	1d, 2d, 3d, 4d	GCS/ 100-07CBR	2d, 3c, 4c
DAIRYLAND/ STEALTH-9497	1d, 2d, 3c	GCS/ 102-04CBR	2d, 3d, 4d
DAIRYLAND/ STEALTH-9799	1d, 2d, 3c	GCS/ 107-01CBRCRW	5d, 6c
DEKALB/ DKC42-95RR2YGCB	1c, 2c	GCS/ 89-02R	1c, 2c
DEKALB/ DKC43-31RR2YGCB	1c, 2c, 3c, 4c	GCS/ 98-10VT3	1d, 2d, 3c, 4c
DEKALB/ DKC46-22RR2YGPL	2d, 4c	GCS/ 99-02CBR	2d, 3c, 4c
DEKALB/ DKC46-60(VT3)	1d, 2d, 3c, 4c, 5c	HEINE/ H645RRYGPL	5c
DEKALB/ DKC49-35(RR2)	1d, 2d, 3c, 4c, 5c	HEINE/ H711RRYGPL	5c, 6c
DEKALB/ DKC50-20RR2YGCB	3c, 4c	HEINE/ H713RRYGPL	5c
DEKALB/ DKC50-48RR2YGCB	3c, 4c, 5c, 6c	HEINE/ H726RR	5c, 6c
DEKALB/ DKC51-39RR2YGPL	1d, 2d, 3d, 4d, 5c	HEINE/ H727RRYGPL	5c, 6c
DEKALB/ DKC52-63RR2YGCB	1d, 2d, 3d, 4d, 5c, 6c	HEINE/ H751RRYG	5c, 6c
DEKALB/ DKC53-18(RR2)	3d, 4d, 5c, 6c	HEINE/ H764RRYGPL	5c, 6c
DEKALB/ DKC57-47(RR2)	5d, 6c	HEINE/ H792RR	6c

**Table D. 2007 Roundup Ready corn hybrid entries by brand/hybrid and performance table numbers (s)  
(continued)**

Brand / Hybrid	Table No.	Brand / Hybrid	Table No.
HEINE/ H798RRYG	6c	NUTECH/ 3P-302 RR/YGPL	2d, 3d, 4d, 6c
HEINE/ H818RRYG	6c	NUTECH/ 3P-494 RR/YGPL	1c, 2c
HOEGEMEYER/ 4373	6c	NUTECH/ 3P-612 RR/YGPL	6d
HOEGEMEYER/ EXP 3005	4c	NUTECH/ 3P-703 RR/YGPL	3d, 4d, 5c
HOEGEMEYER/ EXP 708	6c	NUTECH/ 3P-905 RR/YGPL	3d
KALTENBERG/ K4012RRBT	2c, 4c	NUTECH/ 3T-006 VT3	4d, 5c
KALTENBERG/ K4263RRPLUS	4c	NUTECH/ 3T-098 VT3	1d, 2d
KALTENBERG/ K4663RRPLUS	2d	NUTECH/ 3T-098A VT3	1c, 2c
KALTENBERG/ K5243RRPLUS	5c	NUTECH/ 3T-393 VT3	1c, 2c
KALTENBERG/ K5683RRPLUS	5c	NUTECH/ 3T-595 VT3	1c, 2c
KALTENBERG/ K5685RRBT	6c	NUTECH/ 3T-808A VT3	3d, 6c
KALTENBERG/ K6235RRBT	6c	NUTECH/ 3W-099 RR/YGRW	1d, 2d, 3c, 4c
KRUGER/ 1008RR	5d, 6c	NUTECH/ 5H-312 RR/HX	5d, 6d
KRUGER/ 1490RR	1c, 2c	NUTECH/ 5X-402 RR/HXT	4d, 5c
KRUGER/ 1500RR	1d, 2d, 3c, 4c	PANNAR/ 4D-255VT3	1c, 2c
KRUGER/ 1606RR	3d, 4d, 5d	PANNAR/ 4E-705VT3	1c, 2c
KRUGER/ 2090RR/YGCB	1c, 2c	PANNAR/ 5A-125RR2	1c, 2c
KRUGER/ 2094RR/YGCB	1c, 2c	PANNAR/ 5A-155VT3	1c, 2c
KRUGER/ 2097RR/YGCB	3c, 4c	PANNAR/ 5D-303RR/YG+	1d, 2d, 3c, 4c
KRUGER/ 2114RR/YGCB	6d	PANNAR/ 5E-900RR/YG+	1d, 2d, 3c, 4c, 5c
KRUGER/ 2298RR/YGCB	1d, 2d, 3c, 4c	PANNAR/ 6C-260RR/BT	2d, 3d, 4d, 5c
KRUGER/ 6006VT3	3d, 4d, 5d	PANNAR/ 6D-409RR2	3d, 4d, 5c
KRUGER/ 6007VT3	5d, 6c	PANNAR/ 7B880RR/YG+	5d
KRUGER/ 6011TS	6d	PANNAR/ 8A-410RR/BT	5d, 6c
KRUGER/ 6015VT3	6d	RENK/ 7-692-LLYGCB	5d, 6c
KRUGER/ 6111VT3	5d, 6d	RENK/ RK488RRYGPL	1d, 2d, 3c, 4c
KRUGER/ 6208VT3	5d, 6c	RENK/ RK570VT3	1c, 2c, 3c, 4c
KRUGER/ 6210TS	5d, 6c	RENK/ RK618VT3	1d, 2d, 3c, 4c
KRUGER/ 6314TS	6d	RENK/ RK670VT3	3d, 4d, 5c
KRUGER/ 6401TS	1d, 2d, 3d, 4d, 5c	RENK/ RK888RRYGPL	5d, 6d
KRUGER/ 6412VT3	6d	SEEDS/ 2000 2953RRYGPL	1c, 2c
KRUGER/ 6499VT3	1d, 2d, 3c, 4c	SEEDS/ 2000 3122RR/BT	1d, 2d, 3d, 4d
KRUGER/ 6503TS	3d, 4d, 5c	SEEDS/ 2000 9501VT3	2c
KRUGER/ 6603TS	3d, 4d, 5c	SEEDS/ 2000 9501VT3	4c
KRUGER/ 6697TS	1d, 2d, 3c, 4c	SEEDS/ 2000 EXP9901VT3	1d, 2d, 4c
KRUGER/ 9392TS	1c, 2c	SEEDS/ 2000 EXP9902VT3	1d, 3c
KRUGER/ 9496TS	1c, 2c	WENSMAN/ W6117BTRR	1c, 2c
NUTECH/ 3A-113 RR	6d	WENSMAN/ W6194BTRR	1c, 2c, 3c, 4c
NUTECH/ 3A-113A RR	5d, 6d	WENSMAN/ W6266BTRR	1d, 2d, 3c, 4c, 5c
NUTECH/ 3C-303A RR/YGCB	3d, 4d, 5c	WENSMAN/ W6271RR	1d, 2d, 3c, 4c, 5c
NUTECH/ 3C-312 RR/YGCB	6c	WENSMAN/ W6307RR	1d, 2d, 3c, 4c, 5c
NUTECH/ 3C-409 RR/YGCB	5d, 6c	WENSMAN/ W6374BTRR	3d, 4d, 5c, 6c
NUTECH/ 3C-712 RR/YGCB	5d, 6d	WENSMAN/ W6431RR	3d, 4d, 5d, 6c
NUTECH/ 3C-907 RR/YGCB	3d, 4d	WENSMAN/ W7118VT3	1c, 2c
NUTECH/ 3C-908 RR/YGCB	5d, 6c	WENSMAN/ W7195VT3	1c, 2c, 3c, 4c
NUTECH/ 3P-098 RR/YGPL	1d, 2d, 3c, 4c	WENSMAN/ W7267VT3	1d, 2d, 3c, 4c, 5c
NUTECH/ 3P-098A RR/YGPL	1c, 2c, 3c, 4c	WENSMAN/ W7289VT3	1d, 2d, 3c, 4c, 5c
NUTECH/ 3P-196 RR/YGPL	1d	WENSMAN/ W7309VT3	1d, 2d, 3d, 4d, 5c, 6c
NUTECH/ 3P-300 RR/YGPL	2d, 3c, 4c, 5c	WENSMAN/ W7375BTRWRR	3d, 4d, 5c, 6c
NUTECH/ 3P-300A RR/YGPL	1d		

**Table 1a. Early maturity Non-Roundup Ready corn hybrid test trial results - Allen & Inel Ryckman Farm. Warner, SD, 2007**

**Note: Data for 2006 was excluded due to the high level of experimental error in these plots as the result of high temperatures that caused very poor or no pollination which reduced grain yield.**

Brand/Hybrid (By '07 yield)	Brand Rel Mat	Hybrid performance variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Mst %	'07 Lodging %	'07 Pct* Stand
WENSMAN/ W5105BT	91	.	185	56	17	0	100
AGVENTURE/ EX268275CBLL	87	.	179	56	16	1	97
RENK/ RK442LLYGCB	95	.	177	54	17	1	96
FARM ADVANTAGE/ 9690L	90	.	175	56	17	0	100
WENSMAN/ W4141	93	.	174	58	17	1	100
GOLD COUNTRY/ 95-03CB	95	.	172	57	19	0	100
KING SEED/ X7901	90	.	171	53	17	3	99
KING SEED/ X7871CBLL	87	.	170	56	18	2	95
SEEDS 2000/ 2953BT	95	.	166	55	19	1	93
Trial avg.:	91	.	174	56	17	1	98
Highest (H)-avg.:	95	.	185	58	19	3	100
Lowest (L)-avg.:	87	.	166	53	16	0	93
H-L avg. difference:	8	.	19	4	2	3	7
** Lsd (.05):			NS	2	1	2	3
# Min. TPG-value:			166	56	-	-	97
## Max. TPG-value:			-	-	17	2	-
+ Coef. of var.:			7	2	3	100	2
No. of entries:	9	0	9	9	9	9	9

\* Seeded May 18, 2007 at 28,750 seeds per acre

\*\* LSD (0.5)- 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 1b. Late maturity Non-Roundup Ready corn hybrid test trial results - Allen & Inel Ryckman Farm, Warner, SD, 2007**

**Note: Data for 2006 was excluded due to the high level of experimental error in these plots as the result of high temperatures that caused very poor or no pollination which reduced grain yield.**

Brand/Hybrid (By '07 yield)	Brand Rel. Mat.	Hybrid performance variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
KRUGER/ EXP9502HXT	102	.	188	52	32	0	99
KRUGER/ 8602HX	102	.	182	53	25	1	98
KRUGER/ EXP8502HX	102	.	181	53	24	0	99
FARM ADVANTAGE/ 9699L	99	.	180	54	24	1	100
KRUGER/ EXP8199HX	99	.	177	54	20	0	100
KRUGER/ 0401	101	.	169	56	21	1	100
Trial avg.:	101	.	180	54	24	>0	99
Highest (H)-avg:	102	.	188	56	32	1	100
Lowest (L)-avg.:	99	.	169	52	20	0	98
H-L avg. difference:	3	.	19	4	12	1	2
** Lsd (.05):			NS	2	1	NS	NS
# Min. TPG-value:			169	54	-	-	98
## Max. TPG-value:			-	-	21	1	-
+ Coef. of var.:			6	2	3	177	2
No. of entries:	6	0	6	6	6	6	6

\* Seeded May 18, 2007 at 28,750 seeds per acre

\*\* LSD (0.5)- 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

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**Table 1c. Early maturity Roundup Ready corn hybrid test trial results- Allen & Inel Ryckman Farm, Warner, SD, 2007**

**Note: Data for 2006 was excluded due to the high level of experimental error in these plots as the result of high temperatures that caused very poor or no pollination that reduced grain yield.**

Brand/Hybrid (By '07 yield)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
NUTECH/ 3T-098A VT3	95	.	201	59	19	0	97
KRUGER/ 2094RR/YGCB	94	.	198	56	18	1	97
KRUGER/ 9496TS	93	.	197	57	19	1	100
WENSMAN/ W6194BTRR	95	.	197	58	20	2	96
WENSMAN/ W7195VT3	95	.	197	57	19	0	97
NUTECH/ 3P-098A RR/YGPL	95	.	196	58	19	0	99
DEKALB/ DKC42-95RR2YGCB	92	.	195	56	17	0	100
AGSOURCE/ 3T-995 VT3	95	.	195	57	20	1	95
PANNAR/ 5A-155VT3	95	.	194	55	18	1	100
AGVENTURE/ AV5016R2CB	95	.	193	56	17	0	95
WENSMAN/ W7118VT3	92	.	193	56	17	3	96
AGVENTURE/ AV4006YPRR	91	.	192	58	17	1	98
NUTECH/ 3T-393 VT3	93	.	192	56	17	0	99
PANNAR/ 4E-705VT3	94	.	192	56	17	0	99
NUTECH/ 3P-494 RR/YGPL	94	.	191	54	17	1	97
NUTECH/ 3T-595 VT3	95	.	191	57	18	0	99
DAIRYLAND/ STEALTH-9194	94	.	190	57	17	1	100
DEKALB/ DKC43-31RR2YGCB	93	.	189	57	16	0	99
PANNAR/ 5A-125RR2	95	.	189	56	17	2	100
PANNAR/ 4D-255VT3	93	.	188	55	17	1	96
AGSOURCE/ 3T-096 VT3	95	.	188	57	20	0	97
AGVENTURE/ AV4883YPRR	95	.	187	57	19	0	99
WENSMAN/ W6117BTRR	92	.	186	56	17	1	99
FIELDERS/ CHOICE NG6402	92	.	185	55	15	2	93
RENK/ RK570VT3	95	.	185	56	18	0	100
SEEDS/ 2000 2953RRYGPL	95	.	184	57	19	0	94
KRUGER/ 9392TS	92	.	183	57	17	0	100
KRUGER/ 2090RR/YGCB	90	.	181	58	17	1	95
FONTANELLE/ 2R144	92	.	180	59	16	1	100
KRUGER/ 1490RR	90	.	177	59	16	1	97
AGSOURCE/ 3A-093RR	93	.	173	57	16	1	96
AGSOURCE/ 3A-090RR	90	.	172	58	15	4	95
GCS/ 89-02R	89	.	162	59	16	1	91
AGSOURCE/ 3A-391RR	91	.	159	56	17	1	92
Trial avg.:	93	.	187	57	17	1	97
Highest (H)-avg.:	95	.	201	59	20	4	100
Lowest (L)-avg.:	89	.	159	54	15	0	91
H-L avg. difference:	6	.	42	5	6	4	9
** Lsd (.05):		.	12	2	1	2	4
# Min. TPG-value:		.	189	57	-	-	96
## Max. TPG-value:		.	-	-	16	2	-
+ Coef. of var.:		.	4	2	4	174	3
No. of entries:	34	0	34	34	34	34	34

\* Seeded May 18, 2007 at 28,750 seeds per acre

\*\* LSD (0.5)- 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 1d. Late maturity Roundup Ready corn hybrid test trial results- Allen & Inel Ryckman Farm, Warner, SD, 2007**  
**Note: Data for 2006 was excluded due to the high level of experimental error in these plots as the result of high temperatures that caused very poor or no pollination that reduced grain yield.**

Brand/Hybrid (By '07 yield)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
DEKALB/ DKC52-63RR2YGCB	102	.	194	58	20	0	99
FIELDERS/ CHOICE NG6510	98	.	194	58	17	0	100
DEKALB/ DKC51-39RR2YGPL	101	.	193	58	18	1	99
WENSMAN/ W6271RR	97	.	190	56	17	1	99
WENSMAN/ W7267VT3	97	.	189	58	17	0	100
DAIRYLAND/ STEALTH-9201	101	.	188	57	17	0	98
NUTECH/ 3T-098 VT3	98	.	188	58	19	0	98
KRUGER/ 6499VT3	99	.	188	57	17	1	97
WENSMAN/ W6307RR	100	.	188	56	19	0	100
WENSMAN/ W7289VT3	99	.	186	57	20	0	97
SEEDS/ 2000 3122RR/BT	102	.	186	56	20	3	100
DEKALB/ DKC46-60(VT3)	96	.	185	56	17	0	100
KRUGER/ 6401TS	101	.	185	60	21	0	100
WENSMAN/ W7309VT3	101	.	185	57	19	1	99
SEEDS/ 2000 EXP9901VT3	99	.	185	59	19	0	99
PANNAR/ 5D-303RR/YG+	98	.	184	59	18	0	100
WENSMAN/ W6266BTRR	97	.	184	58	19	0	98
AGSOURCE/ 3T-099 VT3	99	.	184	59	18	0	100
FONTANELLE/ 4N627	98	.	183	57	20	1	98
AGSOURCE/ 3T-799 VT3	99	.	183	56	20	0	98
PANNAR/ 5E-900RR/YG+	99	.	182	56	20	0	99
GCS/ 98-10VT3	98	.	181	58	18	0	97
DEKALB/ DKC49-35(RR2)	99	.	180	56	16	1	97
DAIRYLAND/ STEALTH-7196	96	.	180	58	20	0	97
DAIRYLAND/ STEALTH-9799	99	.	180	57	19	0	100
DAIRYLAND/ STEALTH-9196	96	.	179	57	20	0	99
AGVENTURE/ AV5480V3R	98	.	178	57	18	0	99
DAIRYLAND/ STEALTH-9497	98	.	178	57	18	1	100
NUTECH/ 3P-098 RR/YGPL	98	.	178	58	18	1	97
KRUGER/ 2298RR/YGCB	98	.	178	59	18	0	99
FONTANELLE/ 5N503	101	.	178	57	17	0	99
SEEDS/ 2000 EXP9902VT3	99	.	177	56	19	1	95
KRUGER/ 6697TS	97	.	176	56	19	0	97
NUTECH/ 3P-300A RR/YGPL	99	.	175	56	19	1	94
RENK/ RK488RRYGPL	97	.	173	57	18	0	98
RENK/ RK618VT3	100	.	173	59	18	1	98
AGSOURCE/ 3P-300RR/YGPL	100	.	169	56	19	1	97
NUTECH/ 3W-099 RR/YGRW	99	.	168	60	19	0	99
NUTECH/ 3P-196 RR/YGPL	96	.	167	58	17	2	92
FIELDERS/ CHOICE NG6490	97	.	167	57	19	0	92
KRUGER/ 1500RR	100	.	165	56	18	2	94
Trial avg.:	99	.	181	57	19	>0	98
Highest (H)-avg.:	102	.	194	60	21	3	100
Lowest (L)-avg.:	96	.	165	56	16	0	92
H-L avg. difference:	6	.	29	4	5	3	8
** Lsd (.05):		.	14	2	2	2	3
# Min. TPG-value:		.	180	58	-	-	97
## Max. TPG-value:		.	-	-	18	2	-
+ Coef. of var.:		.	5	2	6	232	2
No. of entries:	41	0	41	41	41	41	41

\* Seeded May 18, 2007 at 28,750 seeds per acre

\*\* LSD (0.5)- 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 2a. Early maturity Non-Roundup Ready corn hybrid test trial results - Northeast Research Farm, South Shore, SD, 2007**

**Note: Data for 2006 was excluded due to the high level of experimental error in these plots as the result of high temperatures that caused very poor or no pollination which reduced grain yield.**

Brand/Hybrid (By '07 yield)	Brand Rel. Mat.	Hybrid performance variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
WENSMAN/ W5105BT	91	.	190	56	18	0	100
RENK/ RK442LLYGCB	95	.	186	54	19	1	100
SEEDS 2000/ 2953BT	95	.	175	56	20	0	95
GOLD COUNTRY/ 95-03CB	95	.	171	56	21	0	99
WENSMAN/ W4141	93	.	169	56	18	2	96
FARM ADVANTAGE/ 9690L	90	.	168	55	16	1	100
Trial avg.:	93	.	177	55	19	1	98
Highest (H)-avg.:	95	.	190	56	21	2	100
Lowest (L)-avg.:	90	.	168	54	16	0	95
H-L avg. difference:	5	.	22	3	5	2	5
** Lsd (.05):			12	1	2	NS	3
# Min. TPG-value:			178	55	-	-	97
## Max. TPG-value:			-	-	18	2	-
+ Coef. of var.:			4	1	5	151	1
No. of entries:	6	0	6	6	6	6	6

\* Seeded May 14, 2007 at 28,750 seeds per acre

\*\* LSD (0.5)- 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

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**Table 2b. Late maturity Non-Roundup Ready corn hybrid test trial results - Northeast Research Farm, South Shore, SD, 2007**

**Note: Data for 2006 was excluded due to the high level of experimental error in these plots as the result of high temperatures that caused very poor or no pollination which reduced grain yield.**

Brand/Hybrid (By '07 yields)	Brand Rel. Mat.	Hybrid performance variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
KRUGER/ 0401	101	.	184	53	25	0	100
FARM ADVANTAGE/ 9699L	99	.	181	54	23	0	100
KRUGER/ EXP8199HX	99	.	179	54	22	1	100
KRUGER/ EXP8502HX	102	.	174	52	25	1	99
KRUGER/ 8602HX	102	.	167	50	26	0	99
KRUGER/ EXP9502HXT	102	.	161	51	33	1	100
Trial avg.:	101	.	174	53	26	>0	100
Highest (H)-avg.:	102	.	184	54	33	1	100
Lowest (L)-avg.:	99	.	161	50	22	0	99
H-L avg. difference:	3	.	23	4	10	1	2
** Lsd (.05):			16	2	1	NS	NS
# Min. TPG-value:			168	52	-	-	99
## Max. TPG-value:			-	-	25	1	-
+ Coef. of var.:			5	2	2	245	1
No. of entries:	6	0	6	6	6	6	6

\* Seeded May 14, 2007 at 28,750 seeds per acre

\*\* LSD (0.5)- 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

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**Table 2c. Early maturity Roundup Ready corn hybrid test trial results- Northeast Research Farm, South Shore, SD, 2007**

**Note: Data for 2006 was excluded due to the high level of experimental error in these plots as the result of high temperatures that caused very poor or no pollination that reduced grain yield.**

Brand/Hybrid (By '07 yield)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
NUTECH/ 3P-098A RR/YGPL	95	.	194	56	23	1	99
KRUGER/ 9496TS	93	.	194	55	22	1	100
NUTECH/ 3P-494 RR/YGPL	94	.	193	53	18	1	100
PANNAR/ 5A-155VT3	95	.	189	53	21	4	100
AGSOURCE/ 3T-096 VT3	95	.	189	56	23	3	100
WENSMAN/ W7118VT3	92	.	187	54	21	1	100
NUTECH/ 3T-595 VT3	95	.	186	56	20	1	98
NUTECH/ 3T-393 VT3	93	.	184	56	21	0	100
KRUGER/ 2090RR/YGCB	90	.	183	56	19	1	100
KRUGER/ 2094RR/YGCB	94	.	183	55	21	3	100
SEEDS/ 2000 9501VT3	96	.	182	54	20	1	100
AGSOURCE/ 3P-191RR/YGPL	91	.	182	55	21	1	97
NUTECH/ 3T-098A VT3	95	.	181	57	21	1	100
PANNAR/ 4E-705VT3	94	.	181	53	22	0	100
WENSMAN/ W7195VT3	95	.	181	55	21	0	100
DEKALB/ DKC43-31RR2YGCB	93	.	180	54	21	0	99
AGVENTURE/ AV4883YPRR	95	.	180	56	22	1	95
DAIRYLAND/ STEALTH-9194	94	.	179	55	20	1	99
SEEDS/ 2000 2953RRYGPL	95	.	179	56	22	1	96
KRUGER/ 9392TS	92	.	176	55	20	1	100
FONTANELLE/ 2R144	92	.	176	58	18	0	100
WENSMAN/ W6117BTRR	92	.	176	56	19	1	100
WENSMAN/ W6194BTRR	95	.	173	58	21	2	100
AGSOURCE/ 3T-995 VT3	95	.	173	55	21	2	99
DEKALB/ DKC42-95RR2YGCB	92	.	171	56	19	1	100
KRUGER/ 1490RR	90	.	171	58	18	2	99
RENK/ RK570VT3	95	.	170	54	21	0	96
KALTENBERG/ K4012RRBT	94	.	168	54	22	2	100
PANNAR/ 4D-255VT3	93	.	167	55	20	4	100
FIELDERS/ CHOICE NG6402	92	.	163	54	17	3	99
GCS/ 89-02R	89	.	163	56	20	2	93
PANNAR/ 5A-125RR2	95	.	159	55	18	2	100
Trial avg.:	93	.	179	55	20	1	99
Highest (H)-avg.:	96	.	194	58	23	4	100
Lowest (L)-avg.:	89	.	159	53	17	0	93
H-L avg. difference:	7	.	35	5	6	4	7
** Lsd (.05):		.	12	1	1	3	3
# Min. TPG-value:		.	182	57	-	-	97
## Max. TPG-value:		.	-	-	18	3	-
+ Coef. of var.:		.	4	2	4	122	2
No. of entries:	32	0	32	32	32	32	32

\* Seeded May 14, 2007 at 28,750 seeds per acre

\*\* LSD (0.5)- 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 2d. Late maturity Roundup Ready corn hybrid test trial results- Northeast Research Farm, South Shore, SD, 2007**

**Note: Data for 2006 was excluded due to the high level of experimental error in these plots as as the result of high temperatures that caused very poor or no pollination that reduced grain yield.**

Brand/Hybrid (By '07 yield)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
NUTECH/ 3P-302 RR/YGPL	102	.	192	54	25	1	100
RENK/ RK488RRYGPL	97	.	192	54	22	1	98
KRUGER/ 6401TS	101	.	192	55	25	1	97
WENSMAN/ W7289VT3	99	.	191	55	23	2	100
AGSOURCE/ 3C-799RR/YGCB	100	.	191	52	24	1	100
FONTANELLE/ 5N503	101	.	190	53	22	0	100
WENSMAN/ W6271RR	97	.	190	54	20	3	98
DEKALB/ DKC46-22RR2YGPL	96	.	188	56	20	0	100
FIELDERS/ CHOICE NG6490	97	.	187	55	20	1	97
GOLD COUNTRY/ 98-10CBR	98	.	185	54	21	0	99
DEKALB/ DKC46-60(VT3)	96	.	184	54	21	0	99
KRUGER/ 6697TS	97	.	184	55	21	1	97
CROWS/ 2121S	101	.	184	56	24	1	92
WENSMAN/ W7309VT3	101	.	184	53	23	2	100
NUTECH/ 3T-098 VT3	98	.	183	55	22	0	99
FIELDERS/ CHOICE NG6510	98	.	182	54	20	1	99
DAIRYLAND/ STEALTH-9196	96	.	181	56	20	0	96
DAIRYLAND/ STEALTH-9497	98	.	181	54	22	2	100
DAIRYLAND/ STEALTH-9201	101	.	181	55	23	1	95
NUTECH/ 3P-098 RR/YGPL	98	.	181	55	20	1	100
WENSMAN/ W6266BTRR	97	.	181	54	23	1	94
AGSOURCE/ 3P-902RR/YGPL	100	.	180	56	20	0	100
DEKALB/ DKC51-39RR2YGPL	101	.	179	53	23	1	100
KALTENBERG/ K4663RRPLUS	96	.	179	54	22	1	99
AGSOURCE/ 3C-504ARRYGCB	100	.	179	53	25	5	100
NUTECH/ 3W-099 RR/YGRW	99	.	177	57	21	2	98
GCS/ 100-07CBR	100	.	177	56	22	0	100
DEKALB/ DKC52-63RR2YGCB	102	.	176	55	22	1	97
DAIRYLAND/ STEALTH-9799	99	.	176	54	20	0	100
WENSMAN/ W7267VT3	97	.	176	55	22	1	100
DAIRYLAND/ STEALTH-7196	96	.	175	55	22	1	98
GCS/ 99-02CBR	99	.	175	53	22	0	100
CROWS/ 4S502	97	.	174	56	22	2	98
AGSOURCE/ 3T-799 VT3	99	.	174	53	23	1	99
RENK/ RK618VT3	100	.	173	55	22	1	100
KRUGER/ 6499VT3	99	.	172	55	21	1	99
PANNAR/ 5E-900RR/YG+	99	.	171	54	21	2	99
GCS/ 102-04CBR	102	.	171	55	24	0	97
NUTECH/ 3P-300 RR/YGPL	99	.	170	54	24	1	96
SEEDS/ 2000 EXP9901VT3	99	.	170	55	22	0	99

**Table 2d. Late maturity Roundup Ready corn hybrid test trial results- Northeast Research Farm, South Shore, SD, 2007**

**Note: Data for 2006 was excluded due to the high level of experimental error in these plots as as the result of high temperatures that caused very poor or no pollination that reduced grain yield (continued)**

Brand/Hybrid (By '07 yield)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
AGSOURCE/ 3T-099 VT3	99	.	168	55	21	1	98
PANNAR/ 5D-303RR/YG+	98	.	165	56	22	0	100
KRUGER/ 2298RR/YGCB	98	.	159	55	21	0	100
PANNAR/ 6C-260RR/BT	102	.	157	51	24	3	99
SEEDS/ 2000 3122RR/BT	102	.	157	52	20	2	100
DEKALB/ DKC49-35(RR2)	99	.	154	54	18	1	95
Trial avg.:	99	.	177	54	22	1	98
Highest (H)-avg.:	102	.	192	57	25	5	100
Lowest (L)-avg.:	96	.	154	51	18	0	92
H-L avg. difference:	6	.	38	6	7	5	8
** Lsd (.05):			20	1	2	2	4
# Min. TPG-value:			172	56	-	-	96
## Max. TPG-value:			-	-	20	2	-
+ Coef. of var.:			7	1	6	150	2
No. of entries:	50	0	50	50	50	50	50

\* Seeded May 14, 2007 at 28,750 seeds per acre

\*\* LSD (0.5)- 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

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**Table 3a. Early maturity Non-Roundup Ready corn hybrid test trial results - Erland Weerts Farm, Bancroft, SD, 2006-2007**

Brand/Hybrid (By 2-year then '07 yield)	Brand Rel. Mat.	Hybrid performance variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
<b>TWO-YEAR ENTRIES:</b>	.	.	.	.	.	.	.
FARM ADVANTAGE/ 9699L	99	182	204	58	20	0	99
SEEDS 2000/ 2953BT	95	161	178	57	16	1	92
EPLY/ E1231	100	159	175	58	20	1	98
<b>ONE-YEAR ENTRIES:</b>	.	.	.	.	.	.	.
GOLD COUNTRY/ 95-03CB	95	.	203	60	17	0	99
EPLY/ E12L50YGCB	100	.	193	57	20	0	98
Trial avg.:	98	167	191	58	19	>0	97
Highest (H)-avg.:	100	182	204	60	20	1	99
Lowest (L)-avg.:	95	159	175	57	16	0	92
H-L avg. difference:	5	23	29	3	4	1	7
** Lsd (.05):		NS	18	1	1	NS	3
# Min. TPG-value:		159	186	58	-	-	96
## Max. TPG-value:		-	-	-	17	1	-
+ Coef. of var.:		4	5	1	3	295	2
No. of entries:	5	3	5	5	5	5	5

\* Seeded May 19, 2007 at 28,750 seeds per acre

\*\* LSD (0.5)- 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

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**Table 3b. Late maturity Non-Roundup Ready corn hybrid test trial results - Erland Weerts Farm, Bancroft, SD, 2006-2007**

Brand/Hybrid (By 2-year then '07 yield)	Brand Rel. Mat.	Hybrid performance variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
<b>TWO-YEAR ENTRIES:</b>							
EPLEY/ E1430YGCB	103	173	189	55	24	0	97
KRUGER/ 8602HX	102	172	202	56	22	0	99
KRUGER/ 5504YGCB	102	166	193	56	20	0	100
<b>ONE-YEAR ENTRIES:</b>							
KRUGER/ 5006YGCB	106	.	204	57	22	0	100
KRUGER/ EXP9502HXT	102	.	199	53	28	0	100
FARM ADVANTAGE/ 87X00	103	.	198	55	21	0	97
KRUGER/ EXP9106HXT	105	.	188	57	20	0	99
KRUGER/ 0401	101	.	186	57	22	0	100
KRUGER/ EXP9504HXT	102	.	183	57	21	0	99
EPLEY/ E1522YGPL	105	.	183	57	23	0	98
WENSMAN/ 5343BT	105	.	181	54	22	0	93
KRUGER/ 8502HX	102	.	180	56	20	1	98
EPLEY/ E2207HXLL	105	.	179	54	23	1	95
Trial avg.:	103	170	190	56	22	>0	98
Highest (H)-avg.:	106	173	204	57	28	1	100
Lowest (L)-avg.:	101	166	179	53	20	0	93
H-L avg. difference:	5	7	25	4	8	1	7
** Lsd (.05):		NS	NS	1	1	NS	4
# Min. TPG-value:		166	179	56	-	-	96
## Max. TPG-value:		-	-	-	21	1	-
+ Coef. of var.:		9	6	1	4	451	2
No. of entries:	13	3	13	13	13	13	13

\* Seeded May 19, 2007 at 28,750 seeds per acre

\*\* LSD (0.5)- 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, 2006-2007**

Brand/Hybrid (By 2-year then '07 yields)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
<b>TWO-YEAR ENTRIES:</b>							
WENSMAN/ W6307RR	100	190	208	57	21	0	100
DEKALB/ DKC50-48RR2YGCB	100	187	202	56	22	0	96
WENSMAN/ W6266BTRR	97	182	199	58	20	0	98
DEKALB/ DKC50-20RR2YGCB	100	179	189	57	20	0	98
DAIRYLAND/ STEALTH-7196	96	177	198	58	19	0	94
WENSMAN/ W6194BTRR	95	176	188	59	19	0	95
GOLD COUNTRY/ 98-10CBR	98	175	187	58	19	0	97
EPLEY/ E1165RR	95	163	192	56	17	1	98
RENK/ RK488RRYGPL	97	162	183	57	18	0	96
KRUGER/ 1500RR	100	162	179	58	19	0	91
EPLEY/ E1195RR	98	141	158	59	18	0	100
<b>ONE-YEAR ENTRIES:</b>							
DAIRYLAND/ STEALTH-9799	99	.	212	58	19	0	98
NUTECH/ 3P-098 RR/YGPL	98	.	210	59	18	0	98
KRUGER/ 6697TS	97	.	208	57	19	0	97
KRUGER/ 6499VT3	99	.	207	59	18	0	97
WENSMAN/ W7267VT3	97	.	207	59	18	0	100
DAIRYLAND/ STEALTH-9497	98	.	204	58	19	1	98
SEEDS/ 2000 EXP9902VT3	99	.	203	58	19	0	98
RENK/ RK618VT3	100	.	201	60	19	1	100
AGSOURCE/ 3T-799 VT3	99	.	201	57	19	0	96
WENSMAN/ W6271RR	97	.	199	56	19	0	94
DEKALB/ DKC43-31RR2YGCB	93	.	198	57	17	0	97
DEKALB/ DKC46-60(VT3)	96	.	198	58	19	0	99
KRUGER/ 2097RR/YGCB	97	.	198	57	18	0	96
WENSMAN/ W7195VT3	95	.	196	58	18	0	95
GCS/ 99-02CBR	99	.	194	58	19	0	98
FIELDERS/ CHOICE NG6510	98	.	193	57	20	0	97
AGSOURCE/ 3P-902RR/YGPL	100	.	193	59	18	0	99
AGSOURCE/ 3C-799RR/YGCB	100	.	193	57	19	0	99
FIELDERS/ CHOICE NG6490	97	.	190	58	18	0	92
EPLEY/ E1225RR	98	.	190	57	19	1	95
AGSOURCE/ 3C-504ARRYGCB	100	.	186	56	24	0	99
PANNAR/ 5E-900RR/YG+	99	.	185	56	22	1	100
NUTECH/ 3P-098A RR/YGPL	95	.	183	57	19	0	92
DEKALB/ DKC49-35(RR2)	99	.	182	57	18	1	97
PANNAR/ 5D-303RR/YG+	98	.	181	59	20	0	99



**Table 3c. Early maturity Roundup Ready corn hybrid test trial results- Erland Weerts Farm, Bancroft, SD, 2006-2007 (continued)**

Brand/Hybrid (By 2-year then '07 yields)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
KRUGER/ 2298RR/YGCB	98	.	175	58	20	0	98
AGSOURCE/ 3T-099 VT3	99	.	172	58	21	0	100
EPLEY/ E1205RR	95	.	167	56	19	0	97
GCS/ 100-07CBR	100	.	167	58	21	0	96
NUTECH/ 3W-099 RR/YGRW	99	.	164	59	19	0	96
Trial avg.:	98	172	190	58	19	>0	97
Highest (H)-avg.:	100	190	212	60	24	1	100
Lowest (L)-avg.:	93	141	158	56	16	0	91
H-L avg. difference:	7	49	54	4	8	1	9
** Lsd (.05):		17	19	2	2	NS	5
# Min. TPG-value:		173	193	58	-	-	95
## Max. TPG-value:		-	-	-	18	1	-
+ Coef. of var.:		9	6	2	5	434	3
No. of entries:	44	11	44	44	44	44	44

\* Seeded May 19, 2007 at 28,750 seeds per acre

\*\* LSD (0.5)- 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

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**Table 3d. Late maturity Roundup Ready corn hybrid test trial results- Erland Weerts Farm, Bancroft, SD, 2006-2007**

Brand/Hybrid (By 2-year then '07 yields)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
<b>TWO-YEAR ENTRIES:</b>							
DEKALB/ DKC52-63RR2YGCB	102	186	197	57	20	1	92
NUTECH/ 5005 RR/YGCB	104	179	188	57	23	0	94
WENSMAN/ W6374BTRR	104	177	202	58	22	0	96
KRUGER/ 6603TS	103	177	189	57	23	0	94
NUTECH/ 9003 RR/YGPL	102	177	187	57	22	0	96
SEEDS/ 2000 3122RR/BT	102	173	184	55	20	0	96
GOLD COUNTRY/ 102-04CBB	102	170	191	58	21	0	95
KRUGER/ 6503TS	103	165	179	59	18	0	95
<b>ONE-YEAR ENTRIES:</b>							
KRUGER/ 6006VT3	106	.	210	57	24	0	99
NUTECH/ 3T-808A VT3	108	.	209	57	25	0	99
EPLEY/ E16R12YGPL	103	.	206	57	20	0	96
AGSOURCE/ 3T-006A VT3	106	.	206	56	23	0	97
AGSOURCE/ 3C-007RR/YGCB	107	.	206	57	25	1	99
WENSMAN/ W7309VT3	101	.	204	58	19	0	100
AGSOURCE/ 5H-008 RR/HX	108	.	203	55	24	0	94
DEKALB/ DKC51-39RR2YGPL	101	.	202	58	19	1	98
DEKALB/ DKC53-18(RR2)	103	.	201	58	18	0	98
KRUGER/ 1606RR	106	.	201	54	24	0	97
PANNAR/ 6D-409RR2	103	.	199	57	19	0	99
NUTECH/ 3C-303A RR/YGCB	103	.	198	57	22	1	98
PANNAR/ 6C-260RR/BT	102	.	195	54	23	0	95
RENK/ RK670VT3	103	.	193	57	18	0	92
WENSMAN/ W7375BTRWRR	104	.	192	57	21	1	99
WENSMAN/ W6431RR	107	.	192	55	24	0	96
EPLEY/ E1525RR	104	.	189	56	21	0	96
KRUGER/ 6401TS	101	.	188	58	21	0	97
AGSOURCE/ 3P-302ARRYGPL	102	.	185	58	22	1	98
DAIRYLAND/ STEALTH-7204	104	.	181	56	21	0	98
NUTECH/ 3C-907 RR/YGCB	107	.	181	56	23	0	97
EPLEY/ E12R34YGPL	101	.	180	58	18	0	93
DAIRYLAND/ STEALTH-9201	101	.	176	58	19	0	95
NUTECH/ 3P-703 RR/YGPL	103	.	176	58	20	0	96
Trial avg.:	104	176	193	57	21	>0	96
Highest (H)-avg.:	108	186	210	59	25	1	100
Lowest (L)-avg.:	101	165	176	54	18	0	92
H-L avg. difference:	7	21	34	5	6	1	8
** Lsd (.05):		19	18	2	2	NS	NS
# Min. TPG-value:		168	192	57	-	-	92
## Max. TPG-value:		-	-	-	20	1	-
+ Coef. of var.:		7	6	2	5	397	3
No. of entries:	32	8	32	32	32	32	32

\* Seeded May 19, 2007 at 28,750 seeds per acre

\*\* LSD (0.5)- 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, 2006-2007**

Brand/Hybrid (By 2-year then '07 yields)	Brand Rel. Mat.	Hybrid performance variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
<b>TWO-YEAR ENTRIES:</b>	.	.	.	.	.	.	.
FARM ADVANTAGE/ 9699L	99	175	171	56	20	0	98
GOLD COUNTRY/ 95-03CB	95	169	178	59	19	0	98
EPLEY/ E1231	100	166	173	57	19	1	100
SEEDS 2000/ 2953BT	95	166	159	57	16	1	92
<b>ONE-YEAR ENTRIES:</b>	.	.	.	.	.	.	.
EPLEY/ E12L50YGCB	100	.	151	56	21	0	98
Trial avg.:	98	169	166	57	19	>0	97
Highest (H)-avg.:	100	175	178	59	21	1	100
Lowest (L)-avg.:	95	166	151	56	16	0	92
H-L avg. difference:	5	9	27	3	5	1	8
** Lsd (.05):		NS	NS	1	1	NS	4
# Min. TPG-value:		166	151	58	-	-	96
## Max. TPG-value:		-	-	-	17	1	-
+ Coef. of var.:		6	8	1	2	295	2
No. of entries:	5	4	5	5	5	5	5

\* Seeded May 10, 2007 at 28,750 seeds per acre

\*\* LSD (0.5)- 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

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**Table 4b. Late maturity Non-Roundup Ready corn hybrid test trial results - SDSU Plant Science Research, Farm, Brookings, SD, 2006-2007**

Brand/Hybrid (By 2-year then '07 yields)	Brand Rel. Mat.	Hybrid performance variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
<b>TWO-YEAR ENTRIES:</b>							
KRUGER/ EXP8502HX	102	197	210	56	19	0	97
EPLEY/ E1430YGCB	103	196	192	56	23	0	100
KRUGER/ 8602HX	102	189	191	56	19	1	98
KRUGER/ 5504YGCB	102	165	146	57	22	2	96
<b>ONE-YEAR ENTRIES:</b>							
KRUGER/ EXP9502HXT	102	.	220	56	25	0	100
EPLEY/ E2207HXLL	105	.	214	55	23	1	99
FARM ADVANTAGE/ 87X00	103	.	202	56	19	0	94
WENSMAN/ 5343BT	105	.	195	55	19	1	93
KRUGER/ 5006YGCB	106	.	193	57	22	0	99
KRUGER/ EXP9106HXT	105	.	190	58	19	0	99
EPLEY/ E2474	109	.	190	56	19	1	99
KRUGER/ 0401	101	.	185	58	19	0	100
KRUGER/ EXP9504HXT	102	.	185	57	18	0	98
EPLEY/ E1522YGFL	105	.	177	59	19	0	96
Trial avg.:	104	187	192	56	20	>0	98
Highest (H)-avg.:	109	197	220	59	25	2	100
Lowest (L)-avg.:	101	165	146	55	18	0	93
H-L avg. difference:	8	32	74	4	7	2	7
** Lsd (.05):		NS	16	1	1	NS	4
# Min. TPG-value:		165	204	58	-	-	96
## Max. TPG-value:		-	-	-	19	2	-
+ Coef. of var.:		7	5	1	3	306	2
No. of entries:	14	4	14	14	14	14	14

\* Seeded May 10, 2007 at 28,750 seeds per acre

\*\* LSD (0.5)- 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 Farm, Brookings, SD., 2006-2007**

Brand/Hybrid (By 2-year then '07 yields)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
<b>TWO-YEAR ENTRIES:</b>							
RENK/ RK488RRYGPL	97	191	204	59	16	0	98
DEKALB/ DKC50-48RR2YGCB	100	189	208	57	21	0	100
WENSMAN/ W6194BTRR	95	184	192	58	17	1	99
DEKALB/ DKC46-22RR2YGPL	96	183	186	59	16	0	100
DEKALB/ DKC50-20RR2YGCB	100	180	188	57	17	0	98
CROWS/ 4S502	97	180	182	59	18	0	99
GOLD COUNTRY/ 98-10CBR	98	177	201	58	17	0	98
WENSMAN/ W6307RR	100	176	195	56	19	0	100
WENSMAN/ W6266BTRR	97	168	172	58	18	0	97
KRUGER/ 1500RR	100	161	175	58	17	1	98
EPLEY/ E1165RR	95	161	172	56	16	1	100
EPLEY/ E1195RR	98	144	154	59	19	0	96
<b>ONE-YEAR ENTRIES:</b>							
KRUGER/ 6697TS	97	.	203	56	15	0	99
KRUGER/ 2097RR/YGCB	97	.	200	55	17	0	99
AGSOURCE/ 3T-799 VT3	99	.	199	56	17	0	97
WENSMAN/ W7289VT3	99	.	198	58	18	0	97
HOEGEMEYER/ 3113 BTRR	94	.	197	59	16	0	100
RENK/ RK618VT3	100	.	196	59	18	0	100
DEKALB/ DKC43-31RR2YGCB	93	.	195	57	15	0	99
DEKALB/ DKC46-60(VT3)	96	.	195	57	18	0	98
FIELDERS/ CHOICE NG6490	97	.	195	57	17	0	98
WENSMAN/ W7267VT3	97	.	195	57	17	0	100
WENSMAN/ W6271RR	97	.	192	57	16	0	93
AGSOURCE/ 3C-799RR/YGCB	100	.	192	57	18	0	98
WENSMAN/ W7195VT3	95	.	191	57	16	0	95
NUTECH/ 3P-300 RR/YGPL	99	.	190	56	20	1	95
FIELDERS/ CHOICE NG6510	98	.	190	58	17	0	100
GCS/ 99-02CBR	99	.	190	58	17	0	100
EPLEY/ E1225RR	98	.	189	57	18	1	97
PANNAR/ 5D-303RR/YG+	98	.	188	59	18	1	99
NUTECH/ 3P-098A RR/YGPL	95	.	187	57	17	0	94
AGSOURCE/ 3T-099 VT3	99	.	186	59	19	0	100
AGSOURCE/ 3P-902RR/YGPL	100	.	186	60	18	0	99
SEEDS/ 2000 9501VT3	96	.	185	55	14	0	96
PANNAR/ 5E-900RR/YG+	99	.	184	57	19	0	100
SEEDS/ 2000 EXP9901VT3	99	.	183	59	19	1	99
KALTENBERG/ K4012RRBT	94	.	182	54	15	0	96
KRUGER/ 6499VT3	99	.	181	58	17	0	98
EPLEY/ E1205RR	95	.	181	57	17	0	98
NUTECH/ 3P-098 RR/YGPL	98	.	178	56	17	0	97
RENK/ RK570VT3	95	.	178	54	15	0	95
GCS/ 100-07CBR	100	.	178	59	19	0	98

**Table 4c. Early maturity Roundup Ready corn hybrid test trial results- SDSU Plant Science Farm, Brookings, SD., 2006-2007 (continued)**

Brand/Hybrid (By 2-year then '07 yields)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
KALTENBERG/ K4263RRPLUS	99	.	173	59	18	0	97
KRUGER/ 2298RR/YGCB	98	.	169	58	18	0	97
AGSOURCE/ 3C-504ARRYGCB	100	.	169	56	22	0	99
AGVENTURE/ AV5480R2CB	98	.	168	59	18	0	96
Trial avg.:	98	175	186	57	17	>0	98
Highest (H)-avg.:	100	191	208	60	22	1	100
Lowest (L)-avg.:	93	144	154	54	14	0	93
H-L avg. difference:	7	47	54	6	8	1	7
** Lsd (.05):		21	20	1	2	NS	3
# Min. TPG-value:		170	188	59	-	-	97
## Max. TPG-value:		-	-	-	16	1	-
+ Coef. of var.:		7	7	1	7	469	2
No. of entries:	49	12	49	49	49	49	49

\* Seeded May 10, 2007 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

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**Table 4d. Late maturity Roundup Ready corn hybrid test trial results- SDSU Plant Science Research Farm, Brookings, SD., 2006-2007**

Brand/Hybrid (By 2-year then '07 yields)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
<b>TWO-YEAR ENTRIES:</b>							
DEKALB/ DKC52-63RR2YGCB	102	216	220	56	18	1	95
NUTECH/ 5006A RR/YGCB	105	216	217	57	22	1	98
NUTECH/ 9003 RR/YGPL	102	202	201	57	21	0	98
WENSMAN/ W6374BTRR	104	198	215	56	20	0	99
KRUGER/ 6503TS	103	196	196	58	18	1	99
KRUGER/ 6603TS	103	193	212	56	23	0	97
CROWS/ 2121S	101	184	175	58	20	1	91
GOLD COUNTRY/ 102-04CBR	102	182	187	58	19	0	97
<b>ONE-YEAR ENTRIES:</b>							
NUTECH/ 3C-907 RR/YGCB	107	.	212	56	19	0	99
KRUGER/ 6006VT3	106	.	210	57	23	1	98
AGSOURCE/ 3C-007RR/YGCB	107	.	210	56	23	0	98
AGSOURCE/ 3P-302ARRYGPL	102	.	209	58	20	0	98
AGSOURCE/ 5H-008 RR/HX	108	.	209	56	22	0	96
KRUGER/ 1606RR	106	.	208	54	22	3	96
WENSMAN/ W6431RR	107	.	208	55	22	1	93
WENSMAN/ W7375BTRWRR	104	.	205	57	19	0	100
AGVENTURE/ AV6323R2CB	102	.	204	58	17	1	97
NUTECH/ 3C-303A RR/YGCB	103	.	204	56	20	0	99
SEEDS/ 2000 3122RR/BT	102	.	204	55	20	0	100
DEKALB/ DKC51-39RR2YGPL	101	.	203	58	17	0	98
DEKALB/ DKC53-18(RR2)	103	.	203	58	18	1	98
EPLEY/ E16R12YGPL	103	.	203	56	19	0	99
AGSOURCE/ 3T-808 VT3	108	.	203	55	25	1	91
WENSMAN/ W7309VT3	101	.	202	58	21	0	99
AGSOURCE/ 5H-403 RR/HX	103	.	200	56	21	1	98
EPLEY/ E24R32YGPL	108	.	198	57	18	0	98
EPLEY/ E12R34YGPL	101	.	197	58	18	0	99
EPLEY/ E25R52YGPL	110	.	196	57	21	0	96
DAIRYLAND/ STEALTH-9201	101	.	195	59	17	0	98
RENK/ RK670VT3	103	.	195	56	19	1	93
NUTECH/ 5X-402 RR/HXT	102	.	193	57	21	0	94
EPLEY/ E1525RR	104	.	193	56	20	1	97
PANNAR/ 6D-409RR2	103	.	192	54	18	0	92
PANNAR/ 6C-260RR/BT	102	.	189	54	21	0	95
KRUGER/ 6401TS	101	.	186	59	20	0	99
NUTECH/ 3P-703 RR/YGPL	103	.	185	58	21	0	96
DAIRYLAND/ STEALTH-7204	104	.	136	57	22	0	95
Trial avg.:	104	198	199	57	20	>0	97
Highest (H)-avg.:	110	216	220	59	25	3	100
Lowest (L)-avg.:	101	182	136	54	17	0	91
H-L avg. difference:	9	34	84	5	8	3	9
** Lsd (.05):		31	16	1	1	1	4
# Min. TPG-value:		185	204	58	-	-	96
## Max. TPG-value:		-	-	-	18	1	-
+ Coef. of var.:		4	5	1	4	270	2
No. of entries:	37	8	37	37	37	37	37

\* Seeded May 10, 2007 at 28,750 seeds per acre

\*\* LSD (0.5)- 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, 2007**

**Note: Data for 2006 was excluded due to the high level of experimental error in these plots as the result of high temperatures that caused very poor or no pollination which reduced grain yield.**

Brand/Hybrid (By '07 yield)	Brand Rel. Mat.	Hybrid performance variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
KRUGER/ EXP9502HXT	102	.	174	58	21	0	100
KRUGER/ 5504YGCB	102	.	172	59	15	0	99
EPLEY/ E12L50YGCB	100	.	172	60	16	0	92
KRUGER/ EXP9504HXT	102	.	171	60	16	0	98
EPLEY/ E1430YGCB	103	.	170	57	19	0	99
KRUGER/ EXP9106HXT	105	.	167	61	16	1	97
WENSMAN/ 5343BT	105	.	158	57	16	0	93
KRUGER/ 8602HX	102	.	157	59	16	1	100
EPLEY/ E1231	100	.	157	60	15	0	96
EPLEY/ E2207HXLL	105	.	156	59	17	0	95
KRUGER/ EXP8502HX	102	.	155	59	17	0	99
KRUGER/ 0401	101	.	155	61	17	0	96
EPLEY/ E1522YGPL	105	.	155	62	16	0	96
Trial avg.:	103	.	163	59	17	>0	97
Highest (H)-avg.:	105	.	174	62	21	1	100
Lowest (L)-avg.:	100	.	155	57	15	0	92
H-L avg. difference:	5	.	19	5	6	1	8
** Lsd (.05):			NS	2	2	NS	4
# Min. TPG-value:			155	60	-	-	96
## Max. TPG-value:			-	-	17	1	-
+ Coef. of var.:			13	2	6	451	3
No. of entries:	13	0	13	13	13	13	13

\* Seeded May 15, 2007 at 28,750 seeds per acre

\*\* LSD (0.5)- 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 5b. Late maturity Non-Roundup Ready corn hybrid test trial results - Curtis Sybesma Farm, Geddes, SD, 2007**

**Note: Data for 2006 was excluded due to the high level of experimental error in these plots as the result of high temperatures that caused very poor or no pollination which reduced grain yield.**

Brand/Hybrid (By '07 yield)	Brand Rel. Mat.	Hybrid performance variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
KRUGER/ 5111	111	.	176	60	19	0	96
RENK/ RK852LLYGCB	110	.	172	57	19	0	94
KRUGER/ 8310HX	110	.	172	58	17	1	99
FARM ADVANTAGE/ 86X06	106	.	168	58	20	0	95
KRUGER/ 5006YGCB	106	.	168	61	18	0	98
RENK/ RK884YGCB	112	.	161	57	22	0	95
KRUGER/ 8308HX	108	.	161	59	20	0	93
KRUGER/ 5210YGCB	110	.	161	60	20	0	97
KRUGER/ EXP9010HXT	110	.	160	59	20	0	100
EPLEY/ E2474	109	.	160	59	17	1	97
Trial avg.:	109	.	166	59	19	>0	96
Highest (H)-avg.:	112	.	176	61	22	1	100
Lowest (L)-avg.:	106	.	160	57	17	0	93
H-L avg. difference:	6	.	16	4	6	1	6
** Lsd (.05):			NS	2	3	NS	4
# Min. TPG-value:			160	59	-	-	96
## Max. TPG-value:			-	-	20	1	-
+ Coef. of var.:			10	2	8	398	2
No. of entries:	10	0	10	10	10	10	10

\* Seeded May 15, 2007 at 28,750 seeds per acre

\*\* LSD (0.5)- 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 5c. Early maturity Roundup Ready corn hybrid test trial results- Curtis Sybesma Farm, Geddes, SD, 2007****Note: Data for 2006 was excluded due to the high level of experimental error in these plots as the result of high temperatures that caused very poor or no pollination that reduced grain yield.**

Brand/Hybrid (By '07 yield)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
HEINE/ H751RRYG	105	.	202	58	18	1	91
WENSMAN/ W6271RR	97	.	200	60	14	0	93
DEKALB/ DKC50-48RR2YGCB	100	.	196	59	15	1	95
WENSMAN/ W7267VT3	97	.	194	60	15	0	96
DEKALB/ DKC51-39RR2YGPL	101	.	193	61	15	0	94
PANNAR/ 6D-409RR2	103	.	193	59	15	1	93
DAIRYLAND/ STEALTH-7204	104	.	192	60	15	0	98
NUTECH/ 5006A RR/YGCB	105	.	192	60	17	2	97
HEINE/ H726RR	103	.	189	59	15	1	96
NUTECH/ 5X-402 RR/HXT	102	.	188	61	17	0	94
WENSMAN/ W6374BTTR	104	.	188	60	14	1	95
HEINE/ H711RRYGPL	100	.	188	59	15	0	90
NUTECH/ 3C-303A RR/YGCB	103	.	187	61	15	0	90
EPLEY/ E16R12YGPL	103	.	186	59	15	1	93
EPLEY/ E1525RR	104	.	186	61	16	0	93
EPLEY/ E1225RR	98	.	185	60	15	1	93
DEKALB/ DKC52-63RR2YGCB	102	.	184	59	15	0	88
FIELDERS/ CHOICE E640HX	104	.	184	59	16	0	93
DEKALB/ DKC53-18(RR2)	103	.	183	60	15	0	88
KRUGER/ 6603TS	103	.	183	61	17	0	97
WENSMAN/ W7309VT3	101	.	181	62	16	0	100
AGSOURCE/ 3P-302ARRYGPL	102	.	181	61	18	0	93
FONTANELLE/ 5N503	101	.	179	59	15	0	97
WENSMAN/ W7289VT3	99	.	179	61	15	0	94
RENK/ RK670VT3	103	.	178	59	15	0	88
WENSMAN/ W6307RR	100	.	177	59	14	1	90
DEKALB/ DKC46-60(VT3)	96	.	176	59	14	0	93
FARM/ ADVANTAGE 9503GL	103	.	176	60	17	0	87
KRUGER/ 6503TS	103	.	176	61	15	0	95
EPLEY/ E1165RR	95	.	175	59	14	0	95
PANNAR/ 5E-900RR/YG+	99	.	174	59	16	0	92
HEINE/ H764RRYGPL	105	.	174	60	16	0	93
KALTENBERG/ K5243RRPLUS	102	.	173	59	16	0	93
KRUGER/ 6401TS	101	.	172	62	16	0	91
HEINE/ H645RRYGPL	98	.	172	61	15	1	96
EPLEY/ E12R34YGPL	101	.	171	61	15	0	94
AGSOURCE/ 3C-504RR/YGCB	104	.	171	61	18	2	90
PANNAR/ 6C-260RR/BT	102	.	168	59	17	1	84
EPLEY/ E1205RR	95	.	168	59	14	0	95
WENSMAN/ W7375BTRWRR	104	.	168	61	14	0	91
AGSOURCE/ 3C-101RR/YGCB	101	.	166	58	15	1	97
DEKALB/ DKC49-35(RR2)	99	.	165	58	14	1	89
HEINE/ H727RRYGPL	103	.	162	59	14	0	91
AGSOURCE/ 5H-403 RR/HX	103	.	160	61	16	0	92
HEINE/ H713RRYGPL	102	.	159	61	14	0	91

**Table 5c. Early maturity Roundup Ready corn hybrid test trial results- Geddes, SD (continued)**

Brand/Hybrid (By '07 yield)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
NUTECH/ 3P-703 RR/YGPL	103	.	158	61	15	0	92
NUTECH/ 3P-300 RR/YGPL	99	.	152	58	15	1	86
EPLEY/ E1195RR	98	.	152	60	16	0	92
WENSMAN/ W6266BTRR	97	.	152	60	15	0	87
KALTENBERG/ K5683RRPLUS	105	.	151	61	16	1	89
AGSOURCE/ 3P-902RR/YGPL	100	.	151	62	15	0	87
Trial avg.:	101	.	177	60	15	>0	92
Highest (H)-avg.:	105	.	202	62	18	2	100
Lowest (L)-avg.:	95	.	151	58	14	0	84
H-L avg. difference:	10	.	51	4	4	2	16
** Lsd (.05):			19	2	1	NS	6
# Min. TPG-value:			183	60	-	-	94
## Max. TPG-value:			-	-	15	2	-
+ Coef. of var.:			7	2	5	306	4
No. of entries:	51	0	51	51	51	51	51

\* Seeded May 15, 2007 at 28,750 seeds per acre

\*\* LSD (0.5)- 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

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**Table 5d. Late maturity Roundup Ready corn hybrid test trial results- Curtis Sybesma Farm, Geddes, SD, 2007**

**Note: Data for 2006 was excluded due to the high level of experimental error in these plots as the result of high temperatures that caused very poor or no pollination that reduced grain yield.**

Brand/Hybrid (By '07 yield)	Brand Rel. Mat.	Test trial variable at harvest					
		'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand	
DEKALB/ DKC58-16(VT3)	108	.	216	58	18	0	95
KRUGER/ 6208VT3	108	.	216	58	20	1	95
FONTANELLE/ 7N866	108	.	215	58	18	0	86
KRUGER/ 6007VT3	107	.	213	58	18	0	93
NUTECH/ 3C-712 RR/YGCB	112	.	200	59	23	0	93
AGSOURCE/ 3C-007RR/YGCB	107	.	199	59	20	0	93
DEKALB/ DKC61-69(VT3)	111	.	198	58	19	1	84
FIELDERS/ CHOICE NG6686	107	.	198	60	18	0	88
GCS/ 107-01CBRCRW	107	.	198	58	17	1	88
FONTANELLE/ 7T683	108	.	197	59	19	1	91
FIELDERS/ CHOICE NG6721	110	.	196	57	19	0	90
WENSMAN/ W6431RR	107	.	196	57	17	1	86
PANNAR/ 8A-410RR/BT	110	.	193	58	18	1	89
KRUGER/ 1606RR	106	.	193	57	16	0	87
NUTECH/ 5H-312 RR/HX	112	.	192	57	17	1	97
KRUGER/ 6006VT3	106	.	192	59	18	0	90
KRUGER/ 6111VT3	111	.	192	58	20	2	92
AGSOURCE/ 3T-808 VT3	108	.	192	60	19	0	85
NUTECH/ 5210 RR/YGCB	110	.	191	59	18	1	96
FONTANELLE/ 6T226	106	.	191	60	17	0	90
NUTECH/ 3A-113A RR	112	.	189	59	21	1	88
KRUGER/ 1008RR	107	.	186	58	18	0	91
DEKALB/ DKC57-47(RR2)	107	.	184	59	17	3	87
FIELDERS/ CHOICE NG6780	111	.	184	60	20	1	87
AGSOURCE/ 3C-310RR/YGCB	110	.	184	58	18	2	86
RENK/ RK888RRYGPL	112	.	182	57	20	1	93
AGSOURCE/ 3C-009RR/YGCB	109	.	182	58	18	1	87
EPLEY/ E24R32YGPL	108	.	181	59	18	0	93
NUTECH/ 3C-409 RR/YGCB	109	.	179	59	20	0	91
FONTANELLE/ 7K456	110	.	179	60	19	2	89
KRUGER/ 6210TS	110	.	178	60	21	4	90
AGSOURCE/ 3P-910RR/YGPL	111	.	178	58	22	1	86
PANNAR/ 7B880RR/YG+	106	.	175	59	17	1	85
EPLEY/ E3245RR	112	.	172	58	19	0	90
EPLEY/ E25R52YGPL	110	.	171	59	16	2	85
Trial avg.:	109	.	191	58	19	1	90
Highest (H)-avg.:	112	.	216	60	23	4	97
Lowest (L)-avg.:	106	.	171	57	16	0	84
H-L avg. difference:	6	.	45	3	7	4	13
** Lsd (.05):			18	2	2	2	6
# Min. TPG-value:			198	58	-	-	91
## Max. TPG-value:			-	-	18	2	-
+ Coef. of var.:			6	2	6	180	4
No. of entries:	35	0	35	35	35	35	35

\* Seeded May 15, 2007 at 28,750 seeds per acre

\*\* LSD (0.5)- 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, 2006-2007**

Brand/Hybrid (By 2-year then '07 yields)	Brand Rel. Mat.	Hybrid performance variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
<b>TWO-YEAR ENTRIES:</b>							
HEINE/ H818YGCB	108	200	209	55	18	0	99
MYCOGEN/ 2R572	104	178	191	56	15	0	96
<b>ONE-YEAR ENTRIES:</b>							
HOEGEMEYER/ HB+651	109	.	212	57	18	0	100
HEINE/ H818	105	.	208	56	18	0	96
HEINE/ H819	108	.	198	55	17	0	100
KRUGER/ 5210YGCB	110	.	196	57	19	0	99
MYCOGEN/ 2D675	109	.	196	56	19	0	100
KRUGER/ 8308HX	108	.	194	58	18	0	95
HOEGEMEYER/ 9326HX	107	.	191	58	17	0	98
KRUGER/ EXP9106HXT	105	.	190	57	14	0	97
KRUGER/ EXP9010HXT	110	.	190	59	17	0	98
HEINE/ H734	103	.	189	58	15	0	94
MYCOGEN/ 2C597	107	.	188	55	16	0	99
RENK/ RK852LLYGCB	110	.	180	55	16	0	91
WENSMAN/ 5343BT	105	.	179	56	14	0	96
FARM ADVANTAGE/ 86X06	106	.	160	56	16	0	91
Trial avg.:	107	189	192	57	17	0	97
Highest (H)-avg.:	110	200	212	59	19	0	100
Lowest (L)-avg.:	103	178	160	55	14	0	91
H-L avg. difference:	7	22	52	3	5	0	9
** Lsd (.05):		NS	17	1	1	NS	3
# Min. TPG-value:		178	195	58	-	-	97
## Max. TPG-value:		-	-	-	15	0	-
+ Coef. of var.:		2	5	2	4	0	2
No. of entries:	16	2	16	16	16	16	16

\* Seeded May 2, 2007 at 28,750 seeds per acre

\*\* LSD (0.5)- 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, 2006-2007**

Brand/Hybrid (By 2-year then '07 yields)	Brand Rel. Mat.	Hybrid performance variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
<b>TWO-YEAR ENTRIES:</b>	.	.	.	.	.	.	.
KRUGER/ 8616HX	115	199	204	56	21	0	99
MYCOGEN/ 2C727	112	199	188	58	19	0	100
MYCOGEN/ 2T787	114	186	193	55	20	0	95
MYCOGEN/ 2K718	111	174	173	58	18	1	100
<b>ONE-YEAR ENTRIES:</b>	.	.	.	.	.	.	.
KRUGER/ 5013YGCB	113	.	194	58	18	0	97
KRUGER/ 5114YGCB	114	.	194	59	19	1	96
KRUGER/ 9414HXT	114	.	192	57	20	0	99
KRUGER/ 5111	111	.	191	59	19	0	99
KRUGER/ 8112HX	112	.	191	57	17	0	95
RENK/ RK884YGCB	112	.	178	55	21	0	95
Trial avg.:	113	190	190	57	19	0	97
Highest (H)-avg.:	115	199	204	59	21	1	100
Lowest (L)-avg.:	111	174	173	55	17	0	95
H-L avg. difference:	4	25	31	4	4	1	5
** Lsd (.05):		NS	NS	1	1	NS	NS
# Min. TPG-value:		174	173	58	-	-	95
## Max. TPG-value:		-	-	-	18	1	-
+ Coef. of var.:		8	7	1	3	398	3
No. of entries:	10	4	10	10	10	10	10

\* Seeded May 2, 2007 at 28,750 seeds per acre

\*\* LSD (0.5)- 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

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**Table 6c. Early maturity Roundup Ready corn hybrid test trial results- Southeast Experiment Station, Beresford, SD., 2006-2007**

Brand/Hybrid (By 2-year then '07 yields)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
TWO-YEAR ENTRIES:							
NUTECH/ 5210 RR/YGCB	110	190	190	58	19	0	96
FARM/ ADVANTAGE 6504	104	187	191	56	15	0	100
WENSMAN/ W6374BTRR	104	170	185	57	14	0	100
ONE-YEAR ENTRIES:							
FIELDERS/ CHOICE NG6686	107	.	206	58	18	0	97
FONTANELLE/ 7K456	110	.	201	57	18	0	100
NUTECH/ 3T-808A VT3	108	.	200	58	18	0	99
DEKALB/ DKC52-63RR2YGCB	102	.	198	55	14	0	92
KRUGER/ 6208VT3	108	.	198	57	16	1	100
DEKALB/ DKC58-16(VT3)	108	.	196	57	17	0	99
KRUGER/ 1008RR	107	.	196	57	17	0	100
FONTANELLE/ 7T683	108	.	196	57	18	1	98
AGSOURCE/ 3C-007RR/YGCB	107	.	195	58	17	0	100
DEKALB/ DKC53-18(RR2)	103	.	194	57	14	3	97
KRUGER/ 6007VT3	107	.	194	57	16	0	98
CROWS/ 4846T	110	.	193	57	19	0	98
FOUR/ STAR EX9744RRBT	108	.	192	58	18	0	96
WENSMAN/ W6431RR	107	.	192	55	15	0	95
FONTANELLE/ 7N866	108	.	191	58	16	0	98
AGSOURCE/ 5H-008 RR/HX	108	.	191	58	18	0	96
CROWS/ 3846T	105	.	190	59	17	0	94
HEINE/ H818RRYG	108	.	189	56	19	0	96
FONTANELLE/ 6T226	106	.	187	59	19	0	99
HOEGEMEYER/ 5142 RRBT	110	.	186	57	19	0	96
AGSOURCE/ 3T-808 VT3	108	.	186	58	19	0	93
AGSOURCE/ 3C-310RR/YGCB	110	.	186	57	19	0	97
PANNAR/ 8A-410RR/BT	110	.	184	55	17	0	95
HEINE/ H711RRYGPL	100	.	184	54	14	0	97
DEKALB/ DKC50-48RR2YGCB	100	.	183	56	14	0	97
FIELDERS/ CHOICE NG6745	110	.	182	57	19	0	99
GCS/ 107-01CBRCRW	107	.	182	57	16	0	94
HEINE/ H764RRYGPL	105	.	181	57	16	0	94
FIELDERS/ CHOICE NG6721	110	.	180	56	16	0	96
EPLEY/ E25R52YGPL	110	.	180	58	16	0	96
AGSOURCE/ 3C-504RRYGCB	100	.	180	59	16	0	97
KALTENBERG/ K5685RRBT	105	.	178	58	15	0	95
KRUGER/ 6210TS	110	.	178	57	18	1	99
HEINE/ H727RRYGPL	103	.	178	56	14	0	91
WENSMAN/ W7309VT3	101	.	175	57	15	0	99
EPLEY/ E24R32YGPL	108	.	174	57	15	0	99
HEINE/ H798RRYG	108	.	174	56	17	0	91
WENSMAN/ W7375BTRWRR	104	.	173	58	14	0	100
NUTECH/ 3P-302 RR/YGPL	102	.	172	58	16	0	96
NUTECH/ 3C-409 RR/YGCB	109	.	167	59	19	0	91

**Table 6c. Early maturity Roundup Ready corn hybrid test trial results- Southeast Experiment Station, Beresford, SD., 2006-2007 (continued)**

Brand/Hybrid (By 2-year then '07 yields)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
HOEGEMEYER/ 4373	105	.	164	56	16	0	94
FOUR/ STAR EX9762RRYGPL	110	.	158	57	19	0	94
DEKALB/ DKC57-47(RR2)	107	.	154	58	16	0	96
HEINE/ H792RR	108	.	150	58	15	0	93
Trial avg.:	107	182	183	57	17	>0	96
Highest (H)-avg.:	110	190	206	59	19	3	100
Lowest (L)-avg.:	100	170	150	53	14	0	91
H-L avg. difference:	10	20	56	6	5	3	9
** Lsd (.05):		NS	24	2	1	1	4
# Min. TPG-value:		170	182	57	-	-	96
## Max. TPG-value:		-	-	-	15	1	-
+ Coef. of var.:		9	8	2	4	593	3
No. of entries:	50	3	50	50	50	50	50

\* Seeded May 2, 2007 at 28,750 seeds per acre

\*\* LSD (0.5)- 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

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**Table 6d. Late maturity Roundup Ready corn hybrid test trial results- Southeast Experiment Station, Beresford, SD., 2007. Note: All late maturity entries were new for 2007**

Brand/Hybrid (By 2-year then '07 yields)	Brand Rel. Mat.	Test trial variable at harvest					
		2-year Yield bu/a	'07 Yield bu/a	'07 Bu.Wt. lb	'07 Grain Moist. %	'07 Lodging %	'07 Pct.* Stand
DEKALB/ DKC61-69(VT3)	111	.	219	58	17	0	100
DEKALB/ RX715VT3	112	.	217	59	19	0	99
DEKALB/ DKC63-42(VT3)	113	.	203	58	19	0	100
KRUGER/ 6111VT3	111	.	200	60	19	0	99
EPLYE/ E3245RR	112	.	196	57	18	0	96
KRUGER/ 2114RR/YGCB	114	.	195	60	20	0	95
KRUGER/ 6314TS	114	.	194	59	21	0	95
NUTECH/ 3A-113 RR	113	.	193	61	19	0	98
FIELDERS/ CHOICE NG6780	111	.	193	59	20	0	93
KRUGER/ 6011TS	111	.	191	59	18	0	98
NUTECH/ 3P-612 RR/YGPL	112	.	186	59	19	0	98
DEKALB/ DKC62-33RR2YGCB	112	.	183	60	19	0	92
FIELDERS/ CHOICE NG6785	112	.	181	60	18	0	99
RENK/ RK888RRYGPL	112	.	181	58	19	0	95
NUTECH/ 5H-312 RR/HX	112	.	179	59	18	0	97
NUTECH/ 3A-113A RR	112	.	177	61	20	0	94
KRUGER/ 6412VT3	112	.	177	60	21	0	100
KRUGER/ 6015VT3	115	.	175	60	20	0	96
NUTECH/ 3C-712 RR/YGCB	112	.	174	59	18	0	96
FOUR/ STAR 6880VT3	112	.	164	59	20	0	95
Trial avg.:	112	.	189	59	19	0	97
Highest (H)-avg.:	115	.	219	61	21	0	100
Lowest (L)-avg.:	111	.	164	57	17	0	92
H-L avg. difference:	4	.	55	4	4	0	8
** Lsd (.05):		.	24	2	1	NS	4
# Min. TPG-value:		.	195	59	-	-	96
## Max. TPG-value:		.	-	-	18	0	-
+ Coef. of var.:		.	8	2	5	0	2
No. of entries:	20	0	20	20	20	20	20

\* Seeded May 2, 2007 at 28,750 seeds per acre

\*\* LSD (0.5)- 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 2007 corn hybrid trials by seed brand name**

<b>Seed brand</b>	<b>Seed company mailing address</b>
AgSource	AgSource Seeds Inc., 1800 L Ave., Nevada, IA 50201
AgVenture	Keltgen Inc. AgVenture, 44449 U.S. Hwy 212, Watertown, SD 57201
AgVenture	Scherr's Seed LLC, 13464 335 Ave., Roscoe, SD 57471
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 69, Belmond, IA 50421
Fielder's Choice	Grow Direct, 306 N. Main Street, Monticello, IN 47960
Fontanelle	Fontanelle Hybrids, 919 West 23 <sup>th</sup> Street, Fremont, NE 68025
Four Star	Four Star Seed Co., 2929-33 <sup>th</sup> Street, Logan, IA 51546
Gold Country	Gold Country Seed Inc., PO Box 604, Hutchinson, MN 55350
Heine	Heine Hybrid Seed Corn, 1020 E. 320 <sup>th</sup> St., Vermillion, SD 57069
Hoegemeyer	Hoegemeyer Hybrids, 1755 Hoegemeyer Road, Hooper, NE 68031
Kaltenberg	Kaltenberg Seeds, 5506 State Road 19, Box 278, Waunakee, WI 53597
King	Kings Seed Inc., PO Box 939, Huron, SD 57350
Kruger	Kruger Seed Co., Box A, Dike, IA 50624
Mycogen	Mycogen Seeds, 25931 486 <sup>th</sup> Ave., Valley Springs, SD 57068
NuTech	Nutech Seed, LLC, 40321 130 <sup>th</sup> Ave., Leland, IA 50453
Pannar	Pannar Seed Inc., 40329 US Hwy 14 East, 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

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**2008 Precision Planted Performance Trials**

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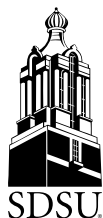
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The crop performance trials are available at <http://plantsci.sdstate.edu/varietytrials/vartrial.html>

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**C253—Precision Planted Corn 2008 Crop Performance Results  
is available electronically on the internet  
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# 2008 Precision Planted Corn Performance Trials

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This publication reports the results of the 2008 South Dakota corn hybrid performance trials for both glyphosate-resistant hybrids and non-glyphosate-resistant hybrids. Information includes both the most recent two-year and one-year grain yields in bushels per acre; and one-year bushel weight, grain moisture at harvest, lodging percentage, and final stand percentages. These performance trials are conducted by the South Dakota Crop Performance Testing program at South Dakota State University. Corn performance trial tables are listed on the inside front cover. Environmental data is listed in tables A and B, indices of brand/hybrid entries to performance table number are listed in table C, table D has the footnote legend, and mailing addresses for seed companies are listed in table E.

## Test Trial Locations

Trial locations, soil types, seedbed and previous crop history, soil fertility yield goals, and seeding dates are indicated in table B. The participation and efforts of our cooperators – Allen and Inel Ryckman at Warner, Al Heuer at South Shore (Northeast Research Farm), Erland Weerts at Bancroft, Douglas Doyle 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) obtained through the efforts of D. Todey and C. Shukla, South Dakota Office of Climate and Weather, are gratefully acknowledged. Precipitation varied across test locations, and all locations experienced some moisture deficits during the growing season. Monthly precipitation totals were below average at Aberdeen for April, May, June, and August; at South Shore for April and August; at Huron for April, July, and September; at Brookings for April, May, July, August, and September; at Centerville for April, July, and August; and at Mitchell for July, August, and September. On average, seasonal moisture varied from 4.81" below average at Brookings to 2.22" above average at Aberdeen.

Average daily temperatures across locations by month were 2 to 5°F below average in April, 3 to 9°F below average in May, and

average to 3°F below average in June. Thereafter, temperatures tended to be average for the remainder of the growing season.

Heat unit or growing-degree day (GDD) monthly totals were below average at Aberdeen, Huron, and Brookings for May and June; and at South Shore, Centerville, and Mitchell for April, May, and June. Heat unit growing season totals were below average at South Shore (-135) and Mitchell (-90); slightly below average at Brookings (-34) and Centerville (-44); average at Aberdeen (-2); and slightly above average at Huron (40). Heat unit totals varied across locations from a high of 3,004 GDD at Mitchell to a low of 2,164 GDD at South Shore.

## General Test Procedures

Seed companies pick the test locations where their entries are tested. Entries are placed into "early" or "late" maturity trials. The relative maturity breaks between the early and late tests are 95 days for Warner and South Shore; 100 days for Yale and Brookings; 105 days for Geddes; and 110 days for Beresford. Hybrids are assigned to trials based on the relative maturity rating reported by the participating seed company. **This testing program does not guarantee that all entries are placed in the proper maturity trial. In some trials, borderline entries with relative maturity ratings at or near the arbitrary break between the early and late trials may crossover at a given location.** In some cases this may be indicated by exceptionally high or low grain moisture contents at harvest. A higher than average moisture content may indicate the hybrid is later in relative maturity than indicated. Likewise, a lower than average moisture may indicate the hybrid is earlier in relative maturity than indicated. A fee was charged for all entries at each location. **A list of participating seed companies for 2008 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, with the center two rows harvested for yield. A Monosem precision row crop planter was used for seeding plots at all locations. In 2008, the precision planter was calibrated to deliver 28,750 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 pounds/acre of 37-18-00 was applied 2" below and 2" to the side (2 x 2) of the seed row. Force insecticide 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 glyphosate-resistant and the non-glyphosate-resistant hybrid corn trials.

## Measurements of Performance

Yields are obtained from the South Dakota Crop Performance Testing Program. Current-year and 2-year yield averages are included where hybrids have been tested in 2008 and for the past two years.

**Yield.** Yield values are an average of three replications, and are expressed as bushels per acre, adjusted to 15.5% moisture on a dry-matter basis and a bushel weight of 56 pounds. 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 2008, the coefficient of variation (CV) values (a measure of experimental error) for yield was relatively low, ranging from 5 to 9% over the six test locations. Experimental error may be the result of several factors, including test methods, or factors such as moisture, temperature, soil variations, or agronomic factors like seeding date, reseeding, or seed quality factors – all of which may or may not be controllable in a given year. Clearly, this year, seasonal moisture distribution and/or subsoil moisture conditions, along with elevated high temperatures, were the two factors that affected the yielding potential of the corn hybrids tested. All test locations likely were exposed to some degree of moisture stress; however, Beresford was particularly dry in July (table B).

**Grain moisture content.** Moisture content is expressed as the percentage of moisture in the shelled corn at harvest. Moisture is generally inversely related to maturity and is important in the evaluation of hybrids. Hybrids that provide satisfactory yields and can be stored without additional drying are desirable. During harvest, moisture values were determined by the combine moisture meter, which in turn was periodically checked with a Dickey-John GAC II to verify it was within 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 significant yield difference. LSD values are given at the bottom of every column where there is significant difference among the averages within the column. If differences among the averages within a column are not significant, the LSD value is reported as “non-significant” (NS).

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 two-year yields, for current-year yields, for bushel weight, for grain moisture at harvest, for lodging (below the ear) percentage, and for final stand percentage for each test trial. In order 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, let's say the column LSD value equals 15 (bu/a) and the highest yield for that column equals 155 bu/a. If you subtract the column LSD value from the highest yield, you obtain an intermediate value of 140 bu/a ( $155 - 15 = 140$ ). The minimum top yield value has to be greater than this intermediate value of 140 bu., and since the yield values are rounded to the nearest bushel, it must be at least 141 bu. Thus, varieties with an average of 141 bu. or higher are included in the top-yield group.

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 reported at the bottom of each yield column (2008 or 2-yr yield averages). If hybrid yield differences are not significant (NS) and the CV values are 15% 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 15%, 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. When comparing yield means, compare current year averages with other current year averages and compare 2-yr yield averages with other 2-yr averages. Do not compare current year averages with 2-yr averages when comparing hybrids. **When evaluating current year averages, do not forget to note that entries tested for two years may also have a yield value that qualifies for the TPG in the 2008 yield column.**

The TPG for other performance factors – such as bushel weight, percent grain moisture at harvest, percent lodging (below the ear), and percent stand (percent of seeded population) – can also be determined. In order to qualify for the TPG group, a hybrid must have a bushel weight and a final stand percentage value that is equal to or greater than the minimum reported TPG value for bushel weight or final stand percentage. Likewise, in order to qualify for the TYG a hybrid must have grain moisture, lodging percentages, or lodging score values that are equal to or less than the maximum reported TPG value for grain moisture, lodging percentage, or lodging score. Note that yield, bushel weight, and percent stand TPG values are greater than a certain yield, bushel weight, or final stand value; or they are minimum values. In contrast, grain moisture, lodging percentage, or lodging score values are equal to or less than a certain value to qualify for the TPG; or they are maximum values. 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**.

The LSD values for the TPG can also 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 grain moisture 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 moisture difference of 3% is more than the reported LSD value 2%; therefore, hybrid A is significantly higher in grain moisture than hybrid C.

## PERFORMANCE TRIAL RESULTS BY LOCATIONS

The performance trial results for one year (2008) and for two years (2007-08) follow:

### Northern Locations

**Note:** The test trial at South Shore was exposed to extremely high winds on July 31, 2008. Consequently, the hybrid lodging response to the high winds were quite variable. At South Shore, the hybrid response to lodging was reported as a lodging score as opposed to a lodging percentage. The lodging score better described the hybrid response to the high winds because many of the entries were lodged over; whereas few entries exhibited any lodging below the ear as indicated in a lodging percentage rating.

#### Warner:

**Early – Glyphosate-resistant trial, Table 1a.** The test trial yield averages were 186 bu/a for both the 2008 and two-year periods. Hybrids that yielded 186 bu/a or more for two years and 191 bu/a or more for 2008 qualified for the TPG for yield. Hybrids had to differ in yield by 13 bu/a for two years and 17 bu/a in 2008 to be significantly different. In 2008, bushel weights averaged 55 lbs, grain moisture averaged 21%, lodging percentage averaged 6%, and final stand percentage averaged 95%. In order for hybrids to be in the TPG for these factors, they had to average 56 lbs. or more in bushel weight, 17% or less in grain moisture, 7% or less in lodging percentage, and 96% or more for final stand percentage.

**Late – Glyphosate-resistant trial, Table 1b.** The test trial yield averages were 187 bu/a for two-years and 192 bu/a for 2008. Hybrids that yielded 182 bu/a or more for two years and 200 bu/a or more for 2008 qualified for the TPG for yield. Hybrids had to differ in yield by 16 bu/a for two years and 19 bu/a in 2008 to be significantly different. In 2008, bushel weights averaged 54 lbs, grain moisture averaged 23%, lodging percentage averaged 5%, and final stand percentage averaged 94%. In order for hybrids to be in the TPG for these factors, they had to average 55 lbs. or more in bushel weight, 21% or less in grain moisture, 7% or less in lodging percentage, and 94% or more for final stand percentage.

#### South Shore:

**Early – Glyphosate-resistant trial, Table 2a.** The test trial

yield averages were 170 bu/a for two-years and 161 bu/a for 2008. The yield differences among those hybrids tested for two years were nonsignificant (NS). Hybrids that yielded 172 bu/a or more for 2008 qualified for the TPG for yield. Hybrids had to differ in yield by 21 bu/a in 2008 to be significantly different. In 2008, bushel weights averaged 54 lbs, grain moisture averaged 22%, lodging score averaged 3, and final stand percentage averaged 96%. In order for hybrids to be in the TPG for these factors, they had to average 55 lbs. or more in bushel weight, 18% or less in grain moisture, and 1 in lodging score. The differences among hybrids in final stand percentage were nonsignificant (NS).

**Late – Glyphosate-resistant trial, Table 2b.** The test trial yield averages were 172 bu/a for two-years and 166 bu/a for 2008. Hybrids that yielded 163 bu/a or more for two years and 176 bu/a or more for 2008 qualified for the TPG for yield. Hybrids had to differ in yield by 25 bu/a for two years and 16 bu/a in 2008 to be significantly different. In 2008, bushel weights averaged 52 lbs, grain moisture averaged 24%, lodging score averaged 3, and final stand percentage averaged 94%. In order for hybrids to be in the TPG for these factors, they had to average 53 lbs. or more in bushel weight, 23% or less in grain moisture, and 1 in lodging score. The differences among hybrids in final stand percentage were nonsignificant (NS).

### Central Locations

#### Bancroft:

**Early – Glyphosate-resistant trial, Table 3a.** The test trial yield averages were 193 bu/a in 2008 and 196 bu/a for two years. Hybrids that yielded 196 bu/a or more in 2008 qualified for the TPG for yield. There were no differences in yield average among the hybrids tested two years, so all qualified for the TPG. Hybrids had to differ in yield by 19 bu/a in 2008 to be significantly different. In 2008, bushel weights averaged 55 lbs, grain moisture averaged 19%, lodging averaged 5%, and percent stand averaged 97%. In order for hybrids to be in the TPG for these factors, they had to average 56 lbs. or more in bushel weight, 18% or less in grain moisture, 6% or less in lodging percentage, and 96% or more for final stand percentage.

**Late – Glyphosate-resistant trial, Table 3b.** The test trial yield averages were 192 bu/a in 2008 and 193 bu/a for two years. Hybrids that yielded 195 bu/a or more in 2008 qualified for the TPG for yield. Yield differences among hybrids were non-signif-

ificant for the two-year period. In 2008, bushel weights averaged 55 lbs, grain moisture averaged 21%, lodging percentage averaged 5%, and the final stand percentage averaged 97%. In order for hybrids to be in the TPG for these factors, they had to average 56 lbs. or more in bushel weight, 19% or less in grain moisture, 7% or less in lodging percentage, and 96% or more for final stand percentage.

### **Brookings:**

**Early – Glyphosate-resistant trial, Table 4a.** The test trial yield averages were 185 bu/a for two years and 172 bu/a for 2008. Hybrids that yielded 176 bu/a or more for two years and 183 bu/a or more for 2008 qualified for the TPG for yield. Hybrids had to differ in yield by 16 bu/a for two years and 14 bu/a in 2008 to be significantly different. In 2008, bushel weights averaged 56 lbs, grain moisture averaged 17%, lodging percentage averaged 5%, and final stand percentage averaged 97%. In order for hybrids to be in the TPG for these factors, they had to average 58 lbs. or more in bushel weight, 16% or less in grain moisture, 6% or less in lodging percentage, and 96% or more for final stand percentage.

**Late – Glyphosate-resistant trial, Table 4b.** The test trial yield averages were 184 bu/a for two years and 171 bu/a for 2008. There were no differences in yield average among the hybrids tested two years, so all hybrids tested qualified for the TPG. Hybrids that yielded 174 bu/a or more in 2008 qualified for the TPG for yield. Hybrids had to differ in yield by 15 bu/a in 2008 to be significantly different. In 2008, bushel weights averaged 56 lbs, grain moisture averaged 19%, lodging averaged slightly more than 8%, and percent stand averaged 96%. In order for hybrids to be in the TPG for all performance factors they had to average 58 lbs. or more in bushel weight, 17% or less in grain moisture, 7% or less in lodging percentage, and 96% or more for final stand percentage.

## **Southern Locations**

### **Geddes:**

**Early – Glyphosate-resistant trial, Table 5a.** The test trial yield average was 176 bu/a for two years and 183 bu/a in 2008. The average yield differences among the hybrids tested two years were non-significant (NS), so all the hybrids tested qualified for the TPG. Hybrids that yielded 185 bu/a or more for 2008 qualified for the TPG for yield. In 2008, bushel weights averaged 59 lbs, grain moisture averaged 18%, lodging percentage averaged 5%, and percent stand averaged 91%. In order for hybrids to be in the TPG for these factors, they had to average 60 lbs. or more in bushel weight, 16% or less in grain moisture, 7% or less in lodging, and 91% or more for percent stand.

**Late – Glyphosate-resistant trial, Table 5b.** The test trial yield average was 198 bu/a for two years and 190 bu/a for 2008.

Yield differences among hybrids tested for two years were non-significant (NS); thus, all entries tested two years were in the TPG for yield. In 2008, bushel weights averaged 57 lbs, grain moisture averaged 21%, lodging percentage averaged 8%, and percent stand averaged 92%. In order for hybrids to be in the TPG for these factors, they had to average 60 lbs. or more in bushel weight, 19% or less in grain moisture, 9% or less in lodging, and 92% or more for percent stand.

### **Beresford:**

**Early – Glyphosate-resistant trial, Table 6a.** The test trial yield averages were 190 bu/a for two years and 196 bu/a in 2008. There were no differences in yield average among the hybrids tested two years, so all hybrids tested qualified for the TPG. Hybrids that yielded 210 bu/a or more in 2008 qualified for the TPG for yield. Hybrids had to differ in yield by 24 bu/a in 2008 to be significantly different. In 2008, bushel weights averaged 55 lbs, grain moisture averaged 21%, lodging percentage averaged 6%, and final stand percentage averaged 83%. In order for hybrids to be in the TPG for these factors, they had to average 57 lbs. or more in bushel weight, 19% or less in grain moisture, 9% or less in lodging percentage, and 83% or more for final stand percentage.

**Late – Glyphosate-resistant, Table 6b.** The test trial yield averages were 199 bu/a for both two years and for 2008. There were no differences in yield average among the hybrids tested two years, so all hybrids tested qualified for the TPG. Hybrids that yielded 192 bu/a or more in 2008 qualified for the TPG for yield. Hybrids had to differ in yield by 26 bu/a in 2008 to be significantly different. In 2008, bushel weights averaged 54 lbs, grain moisture averaged 23%, lodging percentage averaged 7%, and final stand percentage averaged 95%. In order for hybrids to be in the TPG for these factors, they had to average 55 lbs. or more in bushel weight, 20% or less in grain moisture, and 8% or less in lodging percentage. The differences among hybrids in final stand percentage were nonsignificant (NS).

**Early & Late – Non-glyphosate-resistant trial, Table 6c.** The combined early and late maturity test trial yield averages were 195 bu/a two years and 181 bu/a for 2008. There were no differences in yield average among the hybrids tested two years, so all hybrids tested qualified for the TPG. Hybrids that yielded 183 bu/a or more in 2008 qualified for the TPG for yield. Hybrids had to differ in yield by 22 bu/a in 2008 to be significantly different. In 2008, bushel weights averaged 56 lbs, grain moisture averaged 18%, lodging percentage averaged 7%, and final stand percentage averaged 98%. In order for hybrids to be in the TPG for these factors, they had to average 58 lbs. or more in bushel weight, 17% or less in grain moisture, and 97% or higher in final stand percentage. The differences among hybrids in lodging percentage were nonsignificant (NS).



**Table A. Description of 2008 corn hybrid trial locations- soil type, tillage type, prior crop, herbicides and insecticides used, and seeding dates.**

Location (County)	Soils & Management		Prior crop	Herbicides - Applied at label rates				Fertility Yield Goal bu/a	Date Seeded
	Type	Tillage Type		Glyphosate Resistant		Non-Glyphosate Resistant			
				Pre	Post	Pre	Post		
Warner (Brown)	Harmony-Aberdeen silty clay loam, 0-2% slope	Conventional	Spring Wheat	Harness Xtra	Roundup once	-	-	200	May 13
South Shore (Codington)	Kranzburg silty clay loam, 3-6% slope	Conventional	Oat	Dual II Magnum	Roundup once	-	-	180	May 14
Bancroft (Kingsbury)	Houdek-Stickney-Tetonka loam, 0-3% slope	Conventional	Soybean	Fall Dual	Roundup once	-	-	180	May 21
Brookings (Brookings)	Barnes clay loam, 0-2% slope	Conventional	Soybean	-	Roundup twice	-	-	200	May 7
Geddes (Chas. Mix)	Highmore-Walke silt loam, 0-2% slope	No-till	Winter Wheat	-	Roundup once	-	-	200	May 16
Beresford (Clay)	Egan-Clarno-Trent silty clay loam, 0-2% slope	Conventional	Soybean	1.5 pt Dual	-	1.5 pt Dual	-	210	May 19

All plots were seeded at 27,878 seeds per acre. Force insecticide was applied in-furrow at label rate at seeding.

**Table B. Nearest weather station precipitation and growing degree day (GDD) accumulation and average daily temperatures for each growing season month in 2008 and their departures from average (DFA). Source: South Dakota Office of Climate and Weather.**

Station (Test site)	Variable	Monthly data - April 1 to September 30						Total
		April	May	June	July	Aug	Sept	
Aberdeen Airport (Warner)	Precip.- inches '08	0.86	2.19	3.21	6.26	1.24	3.62	17.38
	1971-2000 avg.	1.83	2.69	3.49	2.92	2.42	1.81	15.16
	DFA*	-0.97	-0.50	-0.28	3.34	-1.18	1.81	2.22
	Avg.Temp. -°F '08	43	49	65	73	71	62	
	1971-2000 avg.	45	58	67	72	71	60	
	DFA	-2	-9	-2	1	0	2	
South Shore (NE Farm)	Precip.- inches '08	0.57	2.67	4.48	4.04	1.74	2.25	15.75
	1971-2000 avg.	1.96	2.61	4.01	2.91	2.85	2.03	16.37
	DFA	-1.39	0.06	0.47	1.13	-1.11	0.22	-0.62
	Avg.Temp. -°F '08	39	53	62	70	68	59	
	1971-2000 avg.	43	56	65	70	68	58	
	DFA	-4	-3	-3	0	0	1	
Huron (Bancroft)	Precip.- inches '08	0.19	4.33	4.51	2.47	2.79	1.48	15.77
	1971-2000 avg.	2.29	3.00	3.28	2.86	2.07	1.80	15.30
	DFA	-2.10	1.33	1.23	-0.39	0.72	-0.32	0.47
	Avg.Temp. -°F '08	41	50	66	74	73	62	
	1971-2000 avg.	46	58	68	73	72	61	
	DFA	-5	-8	-2	1	1	1	
Accum GDD's '08		135	281	493	726	704	459	2,798
	1971-2000 avg.	124	318	536	719	665	395	2,757
DFA		11	-37	-43	7	39	64	41

**Table B. Nearest weather station precipitation and growing degree day (GDD) accumulation and average daily temperatures for each growing season month in 2008 and their departures from average. (continued)**

Brookings (Agronomy Farm)	Precip.- inches '08	0.84	2.76	5.60	1.60	0.67	1.46	12.93
	1971-2000 avg.	2.03	2.95	4.23	3.11	2.94	2.48	17.74
	DFA	-1.19	-0.19	1.37	-1.51	-2.27	-1.02	-4.81
	Avg.Temp. -°F '08	41	48	64	71	69	62	
	1971-2000 avg.	44	57	66	71	69	59	
	DFA	-3	-9	-2	0	0	3	
Centerville, 6 SE (Beresford-SE Farm)	Precip.- inches '08	1.84	5.76	4.68	2.63	1.70	2.40	19.01
	1971-2000 avg.	2.47	3.65	3.95	3.35	2.83	2.26	18.51
	DFA	-0.63	2.11	0.73	-0.72	-1.13	0.14	0.50
	Avg.Temp. -°F '08	44	57	69	75	71	62	
	1971-2000 avg.	47	60	69	74	72	62	
	DFA	-3	-3	0	1	-1	0	
Mitchell (Geddes)	Precip.- inches '08	3.31	5.9	4.9	2.46	0.76	1.07	18.40
	1971-2000 avg.	2.71	3.33	3.52	2.64	2.32	2.27	16.79
	DFA	0.60	2.57	1.38	-0.18	-1.56	-1.20	1.61
	Avg.Temp. -°F '08	44	51	68	76	73	66	
	1971-2000 avg.	47	59	69	74	72	62	
	DFA	-3	-8	-1	2	1	4	
	Accum GDD's '08	134	302	553	765	714	482	2,950
	1971-2000 avg.	164	360	596	761	720	439	3,040
	DFA	-30	-58	-43	4	-6	43	-90

\* DFA - departure from normal, difference current year is greater or less (-) than the long-term average.

**Table C. 2008 Glyphosate-resistant corn hybrid entries by brand/hybrid, seed product traits, and index to performance table no. (s).**

Brand/Hybrid	Seed Biotech Traits *	Table No. (s)
AGSOURCE/ 3A-095 RR AGSOURCE/ 3C-007RR/YGCB AGSOURCE/ 3C-104RR/YGCB AGSOURCE/ 3C-505RR/YGCB AGSOURCE/ 3P-400RR/YGPL	Gly Cb,Gly Cb,Gly Cb, Gly Cb,Crw,Gly	1a, 2a 3b, 4b, 5a 5a 3b, 4b, 5a 1b, 2b
AGSOURCE/ 3T-006A VT3 AGSOURCE/ 3T-096 VT3 AGSOURCE/ 3T-110 VT3 AGSOURCE/ 3T-302 VT3 AGSOURCE/ 3T-303 VT3	Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly	3b 1a, 2a 6a 3a 4b
AGSOURCE/ 3T-303A VT3 AGSOURCE/ 3T-310 VT3 AGSOURCE/ 3T-311 VT3 AGSOURCE/ 3T-393 VT3 AGSOURCE/ 3T-399 VT3	WBCw,Cb,Bcw,Faw,MCrw,NCrw,WCrw,Glu,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly	3b, 4b, 5a 5b, 6a 6a 1a, 2a 1b, 2b
AGSOURCE/ 3T-409 VT3 AGSOURCE/ 3T-495 VT3 AGSOURCE/ 3T-603 VT3 AGSOURCE/ 3T-710 VT3 AGSOURCE/ 3T-799 VT3	Cb,Crw,Gly Cb,Crw,Gly Cb,MCrw,NCrw,WCrw,Glu,Gly Cb,Crw,Gly Cb,Crw,Gly	5b, 6a 1a, 2a 3b, 4b, 5a 5b, 6a 1b, 2b, 3a, 4a
AGSOURCE/ 3T-908 VT3 AGSOURCE/ 3T-995 VT3 AGSOURCE/ 5H-597 RR/HX AGSOURCE/ 5H-599 RR/HX AGSOURCE/ 5N-898GTCBLLRW	Cb,Crw,Gly Cb,Crw,Gly WBCw,Cb,Bcw,Faw,Glu,Gly WBCw,Cb,Bcw,Faw,Glu,Gly Cb,MCrw,NCrw,WCrw,Glu,Gly	5b 1a, 2a 1a, 2a, 3a, 4a 4a 1b, 2b, 3a, 4a
AGSOURCE/ 5X-201+HXT/RR DAIRYLAND/ STEALTH-6208 DAIRYLAND/ STEALTH-7891 DAIRYLAND/ STEALTH-9003 DAIRYLAND/ STEALTH-9005	WBCw,Cb,Bcw,Faw,MCrw,NCrw,WCrw,Glu,Gly Gly Cb,Gly,Glu Cb,Crw,Gly Cb,Crw,Gly	1b, 2b, 3a, 4a 5b, 6a 2a 4b 5a
DAIRYLAND/ STEALTH-9006 DAIRYLAND/ STEALTH-9196 DAIRYLAND/ STEALTH-9410 DAIRYLAND/ STEALTH-9497 DAIRYLAND/ STEALTH-9594	Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Gly	6a 1b, 2b 6a 2b 1a, 2a
DAIRYLAND/ STEALTH-9799 DAIRYLAND/ STEALTH-9902 DEKALB/ DKC42-91(VT3) DEKALB/ DKC43-27(VT3) DEKALB/ DKC46-60(VT3)	Cb,Crw,Gly Cb,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly	1b, 3a, 4a 1b, 3b, 4b 1a, 2a 1a, 2a, 3a, 4a, 5a 1b, 2b, 3a, 4a
DEKALB/ DKC48-37(VT3) DEKALB/ DKC50-44(VT3) DEKALB/ DKC52-59(VT3) DEKALB/ DKC53-17(VT3) DEKALB/ DKC53-41(VT3)	Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly	1b, 2b 1b, 2b 1b, 2b, 3b, 4b, 5a, 6a 3b, 4b, 5a, 6a 1b, 2b, 3b, 4b, 5a, 6a
DEKALB/ DKC55-24(VT3) DEKALB/ DKC58-16(VT3) DEKALB/ DKC61-69(VT3) DEKALB/ DKC63-42(VT3) EPLEY/ E1165RR	Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Gly	3b, 4b, 5a, 6a 5b, 6a 5b, 6b 6b 3a, 4a, 5a
EPLEY/ E1225RR EPLEY/ E1254 VT3 EPLEY/ E1265RR EPLEY/ E1475RR EPLEY/ E1525RR	Gly Gly Gly Gly Gly	3a, 4a, 5a 3a, 5a 3a, 4a, 5a 3b, 4b, 5a 5a, 3b, 4b
FARM ADVANTAGE/ 6894 FARM ADVANTAGE/ 87A10GL FARM ADVANTAGE/ 87A99GL FARM ADVANTAGE/ 9803GL FARM ADVANTAGE/ 9890GL	Gly Cb,Crw,Glu,Gly Cb,MCrw,NCrw,WCrw,Glu,Gly Cb,Gly,Glu Cb,Gly,Glu	1a, 2a 5b, 6a 1b, 2b, 3a, 4a 3b, 4b, 5a, 6a 1a, 2a

\* The key to biotech traits is listed at the end of this table.

**Table C. 2008 Glyphosate-resistant corn hybrid entries by brand/hybrid, seed product traits, and index to performance table no.(s) (Continued).**

Brand/Hybrid	Seed Biotech Traits *	Table No. (s)
FIELDERS CHOICE/ NG6510	Cb,Crw,Gly	1b
FIELDERS CHOICE/ NG6520	Cb,Crw,Gly	2b, 3a, 4a
FIELDERS CHOICE/ NG6583	Cb,Crw,Gly	2b, 4b
FIELDERS CHOICE/ NG6686	Cb,Crw,Gly	5b, 6a
FONTANELLE/ 5T128	Cb,Crw,Gly	5a
FONTANELLE/ 5T750	Cb,Crw,Gly	5a
FONTANELLE/ 6T226	Cb,Crw,Gly	5a, 6a
FONTANELLE/ 7N771	Cb, Gly	6a
FONTANELLE/ 7T231	Cb,Crw,Gly	6a
FOUR STAR/ 6844VT3	Cb,Crw,Gly	6a
FOUR STAR/ 6861VT3	Cb,Crw,Gly	6a
FOUR STAR/ 6862VT3	Cb,Crw,Gly	6a
FOUR STAR/ 6863VT3	Cb,Crw,Gly	6a
FOUR STAR/ 8843HXTRRL	Cb,Bcw,WBcw,Faw,NCrw,WCrw,Gly,Glu	6a
FOUR STAR/ 9956VT3	"Cb,Crw,Gly"	6a
G2 GENET./ 3A-513 RR	Cb,Gly	6b
G2 GENET./ 5H-004 RR/HX	WBcw,Cb,Bcw,Faw,Gly,Glu	3b
G2 GENET./ 5H-298 RR/HX	WBcw,Cb,Bcw,Faw,Gly,Glu	1b, 2b, 3a, 4a
G2 GENET./ 5H-501 RR/HX	WBcw,Cb,Bcw,Faw,Gly,Glu	2b, 3a, 4a
G2 GENET./ 5H-506 RR/HX	WBcw,Cb,Bcw,Faw,Gly,Glu	3b, 4b, 5a, 6a
G2 GENET./ 5H-506A RR/HX	WBcw,Cb,Bcw,Faw,Gly,Glu	3b, 4b, 5a, 6a
G2 GENET./ 5H-508 RR/HX	WBcw,Cb,Bcw,Faw,Gly,Glu	3b, 4b, 5b, 6a
G2 GENET./ 5H-702 RR/HX	WBcw,Cb,Bcw,Faw,Gly,Glu	1b, 2b
G2 GENET./ 5H-906 RR/HX	WBcw,Cb,Bcw,Faw,Gly,Glu	3b, 4b, 5a, 6a
G2 GENET./ 5H-911 RR/HX	WBcw,Cb,Bcw,Faw,Gly,Glu	6a
GCS/ 100-07VT3	Cb,Crw,Gly	3a, 4a
GCS/ 102-04VT3	Cb,Crw,Gly	3b, 4b
GCS/ 102-04VT3	Cb,Crw,Gly	6a
GCS/ 107-01CBRCRW	Cb,Crw,Gly	6a
GCS/ 92-03VT3	Cb,Crw,Gly	1a, 2a
GCS/ 94-04VT3	Cb,Crw,Gly	1a, 2a, 3a, 4a
GCS/ 96-08VT3	Cb,Crw,Gly	1a, 2a, 3a, 4a
GCS/ 98-10VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a
HEINE/ H633RR	Gly	5a
HEINE/ H711RR	Gly	5a
HEINE/ H724VT3	Cb,Crw,Gly	5a
HEINE/ H742RRCRW	Crw,Gly	5a, 6a
HEINE/ H747RRYGCB	Cb, Gly	6a
HEINE/ H815VT3	Cb,Crw,Gly	5b, 6a
HEINE/ H816VT3	Cb,Crw,Gly	5b, 6a
HEINE/ H817VT3	Cb,Crw,Gly	5b, 6a
HEINE/ H835VT3	Cb,Crw,Gly	6a
HOEGEMEYER/ 3113VT3	Cb,Crw,Gly	4a
HOEGEMEYER/ 5353VT3	Cb,Crw,Gly	6a
HOEGEMEYER/ 8192HXRR	WBcw,Cb,Bcw,Faw,Gly,Glu	4b, 5a
HOEGEMEYER/ EXP 800	Gly	5a
KALTENBERG/ 4486RRLBTHX	WBcw,Cb,Bcw,Faw,Gly,Glu	4a
KALTENBERG/ 5232RRLBTHX	WBcw,Cb,Bcw,Faw,Gly,Glu	5a
KALTENBERG/ 6355RRLBTHX	WBcw,Cb,Bcw,Faw,Gly,Glu	6a
KALTENBERG/ K3843RRPLUS	Cb,MCrw,NCrw,WCrw,Glu,Gly	2a
KALTENBERG/ K4263VT3	Cb,MCrw,NCrw,WCrw,Glu,Gly	2b, 4a
KALTENBERG/ K4433VT3	Cb,Crw,Gly	4a
KALTENBERG/ K5163VT3	Cb,Crw,Gly	5a
KALTENBERG/ K6663VT3	Cb,MCrw,NCrw,WCrw,Glu,Gly	6a
KRUGER/ 1295RR	Gly	1a, 2a
KRUGER/ 1490RR	Gly	1a, 2a
KRUGER/ 2090RR/YGCB	Cb,Gly	1a, 2a
KRUGER/ 2115RR/YGCB	Cb,Gly	6b
KRUGER/ 2808RR/YGCB	Cb,Bcw,WBcw,Faw,NCrw,WCrw,Gly,Glu	6b
KRUGER/ 3300RR/HX	WBcw,Cb,Bcw,Faw,Gly,Glu	3a, 4a

\* The key to biotech traits is listed at the end of this table.

**Table C. 2008 Glyphosate-resistant corn hybrid entries by brand/hybrid, seed product traits, and index to performance table no.(s) (Continued).**

Brand/Hybrid	Seed Biotech Traits *	Table No. (s)
KRUGER/ 6006VT3 KRUGER/ 6007TS KRUGER/ 6011TS KRUGER/ 6015VT3 KRUGER/ 6093VT3	Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly	3b, 4b, 5b 3b, 4b, 5b, 6a 6b 6b 1a, 2a
KRUGER/ 6094VT3 KRUGER/ 6097VT3 KRUGER/ 6102VT3 KRUGER/ 6111TS KRUGER/ 6114VT3	Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly	1a, 2a 1b, 2b, 3a, 4a 1b, 2b, 3b, 4b, 5a 5b, 6a 6b
KRUGER/ 6208VT3 KRUGER/ 6210TS KRUGER/ 6212TS KRUGER/ 6213VT3 KRUGER/ 6298VT3	Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly	5b, 6a 5b, 6a 6b 6b 1b, 2b, 3a, 4a
KRUGER/ 6400TS KRUGER/ 6401VT3 KRUGER/ 6411VT3 KRUGER/ 6499VT3 KRUGER/ 6503TS	Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Bcw,WBcw,Faw,NCrw,WCrw,Gly,Glu	1b, 2b 1b, 2b, 3b, 4b, 5a 6b 1b, 2b, 3a, 4a 4b, 5a
KRUGER/ 6606VT3 KRUGER/ 6697VT3 KRUGER/ 9414RR/HXT NC+/ 1557 VT3 NC+/ 1775 VT3	Cb,Crw,Gly Cb,Crw,Gly Cb,Bcw,WBcw,Faw,NCrw,WCrw,Gly,Glu Cb,Crw,Gly Cb,Crw,Gly	3b, 4b, 5b 1b, 2b, 3a, 4a 6b 3a, 4a 3a, 4a, 5a
NC+/ 1887 VT3 NC+/ 1981 R NC+/ 2174 VT3 NC+/ 3613 VT3 NC+/ 4022 VT3	Cb,Crw,Gly Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly	3a 3a, 4a, 5a 4b 5a, 6a 5b, 6a
NC+/ 4252 VT3 NC+/ 4582 VT3 NC+/ 5403 VT3 NUTECH/ 3C-006 RR/YGCB NUTECH/ 3C-104 RR/YGCB	Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Gly Cb,Gly	5b, 6a 6a 6b 4b 5a
NUTECH/ 3C-300 RR/YGCB NUTECH/ 3C-408 RR/YGCB NUTECH/ 3C-907 RR/YGCB NUTECH/ 3P-098 RR/YGPL NUTECH/ 3P-098A RR/YGPL	Cb,Gly Cb,Gly Cb,Gly Cb,Crw,Gly Cb,Crw,Gly	1b, 2b 3b, 4b, 5b, 6a 4b 3a 1a, 2a
NUTECH/ 3P-302 RR/YGPL NUTECH/ 3P-494+ RR/YGPL NUTECH/ 3P-708 RR/YGPL NUTECH/ 3T-012 VT3 NUTECH/ 3T-096A VT3	Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly	2b 1a, 2a 3b, 5b, 6a 6b 1a, 2a, 4a
NUTECH/ 3T-098 VT3 NUTECH/ 3T-098A VT3 NUTECH/ 3T-101+ VT3 NUTECH/ 3T-109 VT3 NUTECH/ 3T-213 VT3	Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly	1b, 2b, 3a, 4a 1a, 2a 1b, 2b 5b, 6a 6b
NUTECH/ 3T-500 VT3 NUTECH/ 3T-500A VT3 NUTECH/ 3T-595 VT3 NUTECH/ 3T-808 VT3 NUTECH/ 3T-808A VT3	Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly	1b, 2b 3b 1a, 2a 3b, 4b, 5b 6a
NUTECH/ 3T-809 VT3 NUTECH/ 3T-912 VT3 NUTECH/ 3W-403 RR/YGRW NUTECH/ 5H-512 RR/HXT NUTECH/ 5H-599 RR/HX	Cb,Crw,Gly Cb,Crw,Gly Crw,Gly WBcw,Cb,Bcw,Faw,MCrw,NCrw,WCrw,Gly,Gly WBcw,Cb,Bcw,Faw,Gly,Gly	5b, 6a 6b 3b, 4b, 5a 6b 1b

\* The key to biotech traits is listed at the end of this table.

**Table C. 2008 Glyphosate-resistant corn hybrid entries by brand/hybrid, seed product traits, and index to performance table no.(s) (Continued).**

Brand/Hybrid	Seed Biotech Traits *	Table No. (s)
PIONEER/ 35F40	WBcw,Cb,Bcw,Faw,Glu,Gly	3b, 4b, 5a, 6a
PIONEER/ 36V53	WBcw,Cb,Bcw,Faw,Glu,Gly	1b, 3b, 4b, 5a, 6a
PIONEER/ 38H08	WBcw,Cb,Bcw,Faw,Glu,Gly	1a, 2a
REA/ 4T105	Cb,Crw,Gly	2a
REA/ 4T417	Cb,Crw,Gly	1a, 2a
REA/ 4T722	Cb,Crw,Gly	1a
REA/ 5T128	Cb,Crw,Gly	1b, 2b
RENK/ RK488RRYGPL	Cb,Crw,Gly	1b, 2b
RENK/ RK570VT3	Cb,Crw,Gly	1b, 2b
RENK/ RK575VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a
RENK/ RK670VT3	Cb,Crw,Gly	3b, 4b
RENK/ RK698RRYGRW	Crw,Gly	5b, 6a
RENK/ RK760RRYGCB	Cb,Gly	4b, 5b
RENK/ RK770VT3	Cb,Crw,Gly	5b, 6a
RENK/ RK822VT3	Cb,Crw,Gly	5b, 6a
SEEDS 2000/ 3122RR/BT	Cb,Gly	3b, 4b
SEEDS 2000/ 9501VT3	Cb,Crw,Gly	1a, 2a
SEEDS 2000/ 9901VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a
WENSMAN/ W7107VT3	Cb,Crw,Gly	1a, 2a
WENSMAN/ W7143VT3	Cb,Crw,Gly	1a, 2a
WENSMAN/ W7267VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a
WENSMAN/ W7273VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a
WENSMAN/ W7289VT3	Cb,Crw,Gly	3a, 4a
WENSMAN/ W7309VT3	Cb,Crw,Gly	3b, 4b
WENSMAN/ W7360BTRWRR	Cb,Crw,Gly	3b, 4b, 5a
WENSMAN/ W7433VT3	Cb,Crw,Gly	5a
WENSMAN/ W7455VT3	Cb,Crw,Gly	5b, 6a
WENSMAN/ W7469VT3	Cb,Crw,Gly	5b, 6a
WENSMAN/ W7562VT3	Cb,Crw,Gly	6b

\* Key to biotech traits that impart resistance, tolerance, or protection:

Insect traits - Black cutworm (Bcw), Corn borer (Cb), corn rootworm (Crw), Mexican Corn rootworm (Mcrw), Northern Corn rootworm (Ncrw), Western Corn rootworm (Wcrw), Fall Armyworm (Faw), and Western Bean cutworm (WBcw)

Herbicide traits - Glyphosate tolerance (Gly), Glufosinate tolerance (Glu).

NOTE: Biotech traits were obtained by referencing the product registrant trade name and seed characteristics as listed in the Know Before You Grow section at the National Corn Growers Website (<http://www.ncga.com/>) with the hybrid information supplied by each seed company. Since these biotech seed products change over time, growers are encouraged to verify the biotech traits of any hybrid (s) of interest with the respective seed dealer.

**Table D. Explanation of performance table footnotes.**

No.	Explanation of footnotes
[1]	Entries are listed by Brand/Variety- Entries are sorted by 2-yr then by 2008 yield average.
[2]	Brand Relative Maturity (Rel. Mat.)- the relative maturity rating as reported by the seed company.
[3]	Lodging Percentage- percentage of stalks broken below the ear at harvest.
[4]	Final Stand Percentage - the number of standing stalks at harvest as a percentage of the seeded population.
[5]	Least Significant Difference (LSD 0.05) - the difference two values within a column must equal or exceed to be significantly different (0.05 level of probability). If their difference is less than the LSD value the difference is nonsignificant (NS).
[6]	Min. TPG-avg.- the minimum column value for yield, bushel weight, and final stand percentage that a hybrid must equal or exceed to be in the TPG.
[7]	Max. TPG-avg.- the maximum column value for grain moisture at harvest, lodging percentage, or lodging score that a hybrid must equal or be less than to be in the TPG.
[8]	Coefficient of variation (C.V.) - the percent of experimental error associated with a test trial. Ideally, the CV value for yield is less than 15%. Values less than 5% are less common while values of 6-15% are more common. If values exceed 15%; the trial contained too much experimental error to be valid; so data for that trial was not reported.

**Table 1a. Warner early maturity Roundup Ready corn hybrid test results, 2007-08, Allen & Inel Ryckman Farm, Seeded May 13, 2008 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2008 Averages			
		2-Yr bu/a	2008 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
NUTECH/ 3T-098A VT3 + Cruiser 250	95	198	195	54	24	0	98
NUTECH/ 3P-098A RR/YGPL + Cruiser 250	95	196	197	55	24	1	98
AGSOURCE/ 3T-995 VT3 + Poncho 250	95	192	189	55	23	9	92
NUTECH/ 3P-494+ RR/YGPL + Cruiser 250	94	191	191	55	22	3	96
NUTECH/ 3T-595 VT3 + Cruiser 250	95	185	180	55	21	5	98
AGSOURCE/ 3T-096 VT3 + Cruiser 250	95	183	177	55	24	4	81
KRUGER/ 2090RR/YGCB + Cruiser 250	90	179	176	57	17	20	98
KRUGER/ 1490RR + Cruiser 250	90	165	153	58	19	5	98
GCS/ 96-08VT3 + Poncho 250	95	.	207	53	23	5	99
REA/ 4T417 + Poncho 250	92	.	203	56	23	4	98
AGSOURCE/ 5H-597 RR/HX + Poncho 250	95	.	202	53	27	1	94
REA/ 4T722 + Poncho 250	95	.	199	55	23	1	99
GCS/ 94-04VT3 + Poncho 250	94	.	195	57	23	5	96
KRUGER/ 6094VT3 + Cruiser 250	94	.	194	57	21	4	95
PIONEER/ 38H08 + Poncho 1250	92	.	193	53	16	10	95
KRUGER/ 1295RR + Cruiser 250	95	.	192	56	20	5	100
DEKALB/ DKC43-27(VT3) + Poncho 250	93	.	191	56	19	0	97
SEEDS 2000/ 9501VT3 + Poncho 250	95	.	189	55	20	2	100
WENSMAN/ W7143VT3 + Poncho 250	93	.	187	58	20	4	92
AGSOURCE/ 3A-095 RR + Poncho 250	95	.	185	56	21	3	86
GCS/ 92-03VT3 + Poncho 250	92	.	184	55	22	1	100
DAIRYLAND/ STEALTH-9594 + Poncho 250	94	.	182	56	19	12	91
NUTECH/ 3T-096A VT3 + Cruiser 250	95	.	181	56	24	2	84
WENSMAN/ W7107VT3 + Poncho 250	90	.	181	56	21	7	89
AGSOURCE/ 3T-393 VT3 + Cruiser 250	93	.	180	55	21	3	97
KRUGER/ 6093VT3 + Cruiser 250	93	.	179	55	24	3	96
AGSOURCE/ 3T-495 VT3 + Poncho 250	95	.	175	53	16	12	96
DEKALB/ DKC42-91(VT3) + Poncho 250	92	.	174	56	19	17	97
FARM ADVANTAGE/ 9890GL + Cruiser 250	90	.	172	55	16	24	92
FARM ADVANTAGE/ 6894 + Cruiser 250	94	.	169	55	23	20	89
Trial avg.:	94	186	186	55	21	6	95
High avg.:	95	198	207	58	27	24	100
Low avg.:	90	165	153	53	16	0	81
[5] LSD(.05):		13	17	2	2	7	5
[6] Min.TPG value:		186	191	57	.	.	96
[7] Max.TPG value:		.	.	.	17	7	.
[8] Coef. of var.:		5	6	2	5	69	3
No. entries:	30	8	30	30	30	30	30

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2008 yield average. Note that additional table footnotes are explained in table D.

**Table 1b. Warner late maturity Roundup Ready corn hybrid test results, 2007-08, Allen & Inel Ryckman Farm. Seeded May 13, 2008 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2008 Averages			
		2-Yr bu/a	2008 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
SEEDS 2000/ 9901VT3 + Poncho 250	99	197	210	55	23	2	99
KRUGER/ 6499VT3 + Cruiser 250	99	194	200	54	24	1	95
DEKALB/ DKC46-60(VT3) + Poncho 250	96	192	199	54	22	1	93
NUTECH/ 3T-098 VT3 + Cruiser 250	98	192	196	54	24	1	86
WENSMAN/ W7267VT3 + Poncho 250	97	191	192	54	22	3	95
FIELDERS CHOICE/ NG6510 + Poncho 250	98	187	180	54	25	4	86
DAIRYLAND/ STEALTH-9196 + Poncho 250	96	186	193	55	23	5	88
AGSOURCE/ 3T-799 VT3 + Cruiser 250	99	185	187	52	25	2	94
DAIRYLAND/ STEALTH-9799 + Poncho 250	99	184	189	54	22	2	99
GCS/ 98-10VT3 + Poncho 250	98	178	175	53	22	3	97
RENK/ RK488RRYGPL + Poncho 250	96	176	179	55	22	7	95
PIONEER/ 36V53 + Poncho 1250	102	.	218	51	25	1	98
KRUGER/ 6401VT3 + Cruiser 250	101	.	217	53	26	4	97
DEKALB/ DKC50-44(VT3) + Poncho 250	100	.	207	54	25	6	93
DEKALB/ DKC52-59(VT3) + Poncho 250	102	.	205	53	26	3	92
KRUGER/ 6102VT3 + Cruiser 250	102	.	205	56	23	3	99
KRUGER/ 6097VT3 + Cruiser 250	97	.	202	52	23	4	95
AGSOURCE/ 3P-400RR/YGPL + Cruiser 250	100	.	201	53	26	1	95
G2 GENET/ 5H-298 RR/HX + Poncho 250	98	.	200	53	23	0	97
WENSMAN/ W7273VT3 + Poncho 250	98	.	199	54	22	4	96
AGSOURCE/ 3T-399 VT3 + Poncho 250	99	.	198	54	24	22	99
AGSOURCE/ 5N-898GTCBLLRW + Poncho 250	98	.	197	53	24	4	98
RENK/ RK570VT3 + Poncho 250	96	.	196	53	22	0	92
DEKALB/ DKC53-41(VT3) + Poncho 250	103	.	193	54	23	17	94
KRUGER/ 6298VT3 + Cruiser 250	98	.	191	54	21	4	97
AGSOURCE/ 5X-201+HXT/RR + Poncho 250	100	.	189	51	27	1	94
REA/ 5T128 + Poncho 250	100	.	188	53	25	2	98
NUTECH/ 3C-300 RR/YGCB + Poncho 250	100	.	186	54	22	11	92
NUTECH/ 5H-599 RR/HX + Poncho 250	99	.	185	51	25	1	91
NUTECH/ 3T-500 VT3 + Poncho 250	100	.	185	54	23	7	98
G2 GENET/ 5H-702 RR/HX + Poncho 250	100	.	185	53	24	12	88
FARM ADVANTAGE/ 87A99GL + Cruiser 250	99	.	184	53	24	7	94
DEKALB/ DKC48-37(VT3) + Poncho 250	98	.	182	55	22	6	94
RENK/ RK575VT3 + Poncho 250	97	.	181	53	23	3	91
KRUGER/ 6697VT3 + Cruiser 250	96	.	178	55	21	5	94
KRUGER/ 6400TS + Cruiser 250	100	.	178	55	20	19	95
DAIRYLAND/ STEALTH-9902 + Poncho 250	102	.	177	54	23	8	90
NUTECH/ 3T-101+ VT3 + Poncho 250	100	.	169	52	26	5	82
Trial avg.:	99	187	192	54	23	5	94
High avg.:	103	197	218	56	27	22	99
Low avg.:	96	176	169	51	20	0	82
[5] LSD(.05):		16	19	2	2	7	6
[6] Min.TPG value:		182	200	55	.	.	94
[7] Max.TPG value:		.	.	.	21	7	.
[8] Coef. of var.:		5	6	2	5	83	4
No. entries:	38	11	38	38	38	38	38

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2008 yield average. Note that additional table footnotes are explained in table D.



**Table 2a. South Shore early maturity Roundup Ready corn hybrid test results, 2007-08, Northeast Research Farm.  
Seeded May 14, 2008 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2008 Averages			
		2-Yr bu/a	2008 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Score [*]	Final Stand Pctg [4]
AGSOURCE/ 3T-995 VT3 + Poncho 250	95	182	191	53	23	3	97
NUTECH/ 3T-595 VT3 + Cruiser 250	95	181	176	54	22	3	96
AGSOURCE/ 3T-096 VT3 + Cruiser 250	95	180	171	55	24	3	95
KRUGER/ 2090RR/YGCB + Cruiser 250	90	176	168	55	20	3	95
SEEDS 2000/ 9501VT3 + Poncho 250	95	167	152	54	20	1	98
NUTECH/ 3P-098A RR/YGPL + Cruiser 250	95	166	139	54	22	1	97
KRUGER/ 1490RR + Cruiser 250	90	165	159	56	20	3	97
NUTECH/ 3T-098A VT3 + Cruiser 250	95	164	147	54	22	1	98
NUTECH/ 3P-494+ RR/YGPL + Cruiser 250	94	153	113	52	24	2	100
DEKALB/ DKC43-27(VT3) + Poncho 250	93	.	192	55	21	3	97
FARM ADVANTAGE/ 6894 + Cruiser 250	94	.	177	54	23	2	96
DEKALB/ DKC42-91(VT3) + Poncho 250	92	.	175	56	21	3	95
GCS/ 94-04VT3 + Poncho 250	94	.	173	54	24	4	95
PIONEER/ 38H08 + Poncho 1250	92	.	172	53	22	3	97
GCS/ 92-03VT3 + Poncho 250	92	.	172	55	24	3	96
AGSOURCE/ 5H-597 RR/HX + Poncho 250	95	.	172	51	27	3	95
WENSMAN/ W7107VT3 + Poncho 250	90	.	171	56	19	3	96
KRUGER/ 6093VT3 + Cruiser 250	93	.	169	53	24	3	96
KRUGER/ 1295RR + Cruiser 250	95	.	169	52	22	4	96
DAIRYLAND/ STEALTH-7891 + Poncho 250	91	.	168	55	18	3	97
REA/ 4T417 + Poncho 250	92	.	168	54	24	3	98
WENSMAN/ W7143VT3 + Poncho 250	93	.	167	56	22	3	98
KRUGER/ 6094VT3 + Cruiser 250	94	.	166	55	24	3	97
FARM ADVANTAGE/ 9890GL + Cruiser 250	90	.	164	54	18	4	96
NUTECH/ 3T-096A VT3 + Cruiser 250	95	.	162	53	24	3	94
AGSOURCE/ 3A-095 RR + Poncho 250	95	.	150	55	22	2	99
REA/ 4T105 + Poncho 250	95	.	148	53	21	1	96
KALTENBERG/ K3843RRPLUS + Poncho 250	95	.	144	51	23	3	95
AGSOURCE/ 3T-495 VT3 + Poncho 250	95	.	144	52	19	4	91
AGSOURCE/ 3T-393 VT3 + Cruiser 250	93	.	142	54	21	2	96
DAIRYLAND/ STEALTH-9594 + Poncho 250	94	.	139	54	16	3	96
GCS/ 96-08VT3 + Poncho 250	95	.	135	54	19	1	99
Trial avg.:	93	170	161	54	22	3	96
High avg.:	95	182	192	56	27	4	100
Low avg.:	90	153	113	51	16	1	91
[5] LSD(.05):		NS	21	2	3	1	NS
[6] Min.TPG value:		153	172	55	.	.	91
[7] Max.TPG value:		.	.	.	18	1	.
[8] Coef. of var.:		8	8	2	6	23	2
No. entries:	32	9	32	32	32	32	32

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2008 yield average.

Note that additional table footnotes are explained in table D.

[\*] Lodging scores: 0= all plants erect, 3= 50% of plants lodged at 45°-angle, 5= all plants flat. This trial was exposed to extremely high winds on July 31, 2008. To facilitate the collection of lodging data following these high winds lodging was accessed as a lodging score as opposed to a lodging percentage that was collected at other test trials.

**Table 2b. South Shore late maturity Roundup Ready corn hybrid test results, 2007-08, Northeast Research Farm.  
Seeded May 14, 2008 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2008 Averages			
		2-Yr bu/a	2008 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Score [*]	Final Stand Pctg [4]
DEKALB/ DKC46-60(VT3) + Poncho 250	96	187	191	52	23	3	97
RENK/ RK488RRYGPL + Poncho 250	96	185	178	54	21	3	97
DAIRYLAND/ STEALTH-9497 + Poncho 250	97	182	184	52	22	3	96
NUTECH/ 3P-302 RR/YGPL + Cruiser 250	100	179	166	51	27	4	98
SEEDS 2000/ 9901VT3 + Poncho 250	99	174	179	51	25	4	98
GCS/ 98-10VT3 + Poncho 250	98	171	157	54	23	1	97
AGSOURCE/ 3T-799 VT3 + Cruiser 250	99	167	161	52	24	1	96
NUTECH/ 3T-098 VT3 + Cruiser 250	98	166	150	53	24	1	97
DAIRYLAND/ STEALTH-9196 + Poncho 250	96	165	150	54	21	1	97
WENSMAN/ W7267VT3 + Poncho 250	97	163	150	53	23	1	96
KRUGER/ 6499VT3 + Cruiser 250	99	157	143	54	21	1	97
KRUGER/ 6102VT3 + Cruiser 250	102	.	188	53	24	3	97
DEKALB/ DKC48-37(VT3) + Poncho 250	98	.	184	54	23	3	97
KRUGER/ 6298VT3 + Cruiser 250	98	.	184	54	23	3	98
WENSMAN/ W7273VT3 + Poncho 250	98	.	183	52	23	3	97
G2 GENET./ 5H-702 RR/HX + Poncho 250	100	.	181	53	24	3	97
DEKALB/ DKC50-44(VT3) + Poncho 250	100	.	179	52	25	4	97
AGSOURCE/ 5N-898GTCBLLRW + Poncho 250	98	.	177	52	26	2	98
FARM ADVANTAGE/ 87A99GL + Cruiser 250	99	.	175	52	26	3	97
DEKALB/ DKC53-41(VT3) + Poncho 250	103	.	174	51	26	4	98
AGSOURCE/ 3T-399 VT3 + Poncho 250	99	.	173	55	24	3	96
AGSOURCE/ 3P-400RR/YGPL + Cruiser 250	100	.	173	53	24	3	98
NUTECH/ 3C-300 RR/YGCB + Poncho 250	100	.	172	51	25	3	96
NUTECH/ 3T-500 VT3 + Poncho 250	100	.	171	53	25	2	97
RENK/ RK575VT3 + Poncho 250	97	.	171	52	21	2	97
KALTENBERG/ K4263VT3 + Poncho 250	98	.	171	53	23	3	95
KRUGER/ 6400TS + Cruiser 250	100	.	169	52	25	4	97
KRUGER/ 6401VT3 + Cruiser 250	101	.	167	50	27	4	94
FIELDERS CHOICE/ NG6583 + Poncho 250	102	.	166	52	27	4	93
G2 GENET./ 5H-298 RR/HX + Poncho 250	98	.	163	52	23	3	96
NUTECH/ 3T-101+ VT3 + Poncho 250	100	.	157	52	25	2	99
G2 GENET./ 5H-501 RR/HX + Poncho 250	100	.	156	51	26	4	95
KRUGER/ 6697VT3 + Cruiser 250	96	.	154	52	22	1	98
DEKALB/ DKC52-59(VT3) + Poncho 250	102	.	150	51	23	2	100
KRUGER/ 6097VT3 + Cruiser 250	97	.	148	51	22	2	97
AGSOURCE/ 5X-201+HXT/RR + Poncho 250	100	.	147	52	26	3	98
FIELDERS CHOICE/ NG6520 + Poncho 250	98	.	140	52	22	2	98
RENK/ RK570VT3 + Poncho 250	96	.	138	52	22	2	98
REA/ 5T128 + Poncho 250	100	.	137	52	24	1	97
Trial avg.:	99	172	166	52	24	3	97
High avg.:	103	187	191	55	27	4	100
Low avg.:	96	157	137	50	21	1	93
[5] LSD(.05):		25	16	3	3	1	NS
[6] Min.TPG value:		163	176	53	.	.	93
[7] Max.TPG value:		.	.	.	23	1	.
[8] Coef. of var.:		5	6	3	5	25	2
No. entries:	39	11	39	39	39	39	39

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2008 yield average.

Note that additional table footnotes are explained in table D.

[\*] Lodging scores: 0= all plants erect, 3= 50% of plants lodged at 45°-angle, 5= all plants flat. This trial was exposed to extremely high winds on July 31, 2008. To facilitate the collection of lodging data following these high winds lodging was accessed as a lodging score as opposed to a lodging percentage that was collected at other test trials.

**Table 3a. Bancroft early maturity glyphosate-resistant corn hybrid test results, 2007-08, Erland Weerts Farm.  
Seeded May 21, 2008 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2008 Averages			
		2-Yr bu/a	2008 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
DAIRYLAND/ STEALTH-9799 + Poncho 250	99	212	212	55	18	5	95
WENSMAN/ W726VT3 + Poncho 250	97	205	204	55	18	8	100
NUTECH/ 3P-098 RR/YGPL + Cruiser 250	98	203	197	55	17	3	95
KRUGER/ 6499VT3 + Cruiser 250	99	200	193	55	17	6	98
DEKALB/ DKC46-60(VT3) + Poncho 250	96	198	198	57	18	4	96
AGSOURCE/ 3T-799 VT3 + Cruiser 250	99	195	190	55	19	4	97
WENSMAN/ W7289VT3 + Poncho 250	99	194	210	57	19	8	100
GCS/ 100-07VT3 + Poncho 250	100	190	214	56	18	3	100
GCS/ 98-10VT3 + Poncho 250	98	189	192	54	19	3	96
EPLEY/ E1165RR + Not reported	95	188	183	55	17	4	99
EPLEY/ E1225RR + Not reported	98	184	179	55	19	2	93
NC+/ 1557 VT3 + Cruiser 250	95	.	205	57	19	2	97
NC+/ 1775 VT3 + Cruiser 250	97	.	205	55	18	2	95
G2 GENET./ 5H-501 RR/HX + Poncho 250	100	.	202	55	20	4	94
FIELDERS CHOICE/ NG6520 + Poncho 250	98	.	200	54	18	17	99
NC+/ 1981 R + Cruiser 250	99	.	200	53	19	7	100
GCS/ 96-08VT3 + Poncho 250	95	.	200	53	17	8	98
DEKALB/ DKC48-37(VT3) + Poncho 250	98	.	197	56	19	3	96
KRUGER/ 6097VT3 + Cruiser 250	97	.	197	53	18	10	100
DEKALB/ DKC43-27(VT3) + Poncho 250	93	.	196	56	17	1	99
KRUGER/ 3300RR/HX + Cruiser 250	100	.	196	53	21	2	96
WENSMAN/ W7273VT3 + Poncho 250	98	.	196	54	18	9	98
G2 GENET./ 5H-298 RR/HX + Poncho 250	98	.	194	56	19	1	99
NC+/ 1887 VT3 + Cruiser 250	98	.	194	54	18	4	98
KRUGER/ 6298VT3 + Cruiser 250	98	.	192	56	18	2	99
NUTECH/ 3C-300 RR/YGCB + Poncho 250	100	.	191	55	18	4	96
DEKALB/ DKC50-44(VT3) + Poncho 250	100	.	190	55	19	13	97
NUTECH/ 3T-500 VT3 + Poncho 250	100	.	190	56	20	5	95
EPLEY/ E1265RR + Not reported	100	.	190	54	18	4	99
SEEDS 2000/ 9901VT3 + Poncho 250	99	.	190	56	19	8	97
AGSOURCE/ 5X-201+HXT/RR + Poncho 250	100	.	190	53	22	3	94
NUTECH/ 3T-098 VT3 + Cruiser 250	98	.	189	54	17	5	92
EPLEY/ E1254 VT3 + Not reported	95	.	189	56	20	7	95
G2 GENET./ 5H-702 RR/HX + Poncho 250	100	.	188	56	21	7	96
GCS/ 94-04VT3 + Poncho 250	94	.	188	56	18	9	100
RENK/ RK575VT3 + Poncho 250	97	.	187	54	18	12	99
KRUGER/ 6400TS + Cruiser 250	100	.	186	56	19	6	96
AGSOURCE/ 3T-302 VT3 + Cruiser 250	100	.	186	55	21	2	93
AGSOURCE/ 5H-597 RR/HX + Poncho 250	95	.	185	52	23	2	94
NUTECH/ 3P-302 RR/YGPL + Cruiser 250	100	.	184	56	21	2	97
FARM ADVANTAGE/ 87A99GL + Cruiser 250	99	.	183	54	19	4	96
KRUGER/ 6697VT3 + Cruiser 250	96	.	182	55	18	11	96
AGSOURCE/ 5N-898GTCBLLRW + Poncho 250	98	.	173	55	18	4	98
Trial avg.:	98	196	193	55	19	5	97
High avg.:	100	212	214	57	23	17	100
Low avg.:	93	184	173	52	17	1	92
[5] LSD(0.05):		NS	19	2	2	6	5
[6] Min.TPG value:		184	196	56	.	.	96
[7] Max.TPG value:		.	.	.	18	6	.
[8] Coef. of var.:		6	6	2	5	65	3
No. entries:	43	11	43	43	43	43	43

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2008 yield average.  
Note that additional table footnotes are explained in table D.

**Table 3b. Bancroft late maturity glyphosate-resistant corn hybrid test results, 2007-08, Erland Weerts Farm.  
Seeded May 21, 2008 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2008 Averages			
		2-Yr bu/a	2008 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
AGSOURCE/ 3C-007RR/YGCB + Cruiser 250	105	205	204	54	25	3	94
KRUGER/ 6006VT3 + Cruiser 250	106	198	187	55	23	4	97
WENSMAN/ W7309VT3 + Poncho 250	101	194	185	56	20	5	96
AGSOURCE/ 3T-006A VT3 + Cruiser 250	106	189	172	54	22	6	89
EPLEY/ E1525RR + Not reported	105	186	182	55	22	2	96
SEEDS 2000/ 3122RR/BT + Poncho 250	102	185	186	56	19	11	99
GCS/ 102-04VT3 + Poncho 250	102	.	212	55	21	2	98
KRUGER/ 6007TS + Cruiser 250	107	.	210	55	23	3	100
KRUGER/ 6401VT3 + Cruiser 250	101	.	208	56	21	4	100
PIONEER/ 36V53 + Poncho 1250	102	.	207	55	20	3	99
DEKALB/ DKC52-59(VT3) + Poncho 250	102	.	205	53	19	7	98
G2 GENET./ 5H-508 RR/HX + Poncho 250	108	.	203	56	23	0	92
DEKALB/ DKC53-41(VT3) + Poncho 250	103	.	202	55	19	4	99
G2 GENET./ 5H-506A RR/HX + Poncho 250	105	.	201	56	23	2	99
DAIRYLAND/ STEALTH-9902 + Poncho 250	102	.	200	56	19	5	99
DEKALB/ DKC53-17(VT3) + Poncho 250	103	.	199	57	20	1	96
WENSMAN/ W7360BTRWRR + Poncho 250	103	.	199	56	21	3	96
NUTECH/ 3W-403 RR/YGRW + Poncho 250	103	.	198	54	19	3	94
DEKALB/ DKC55-24(VT3) + Poncho 250	105	.	195	55	20	12	95
PIONEER/ 35F40 + Poncho 1250	105	.	195	57	22	2	100
G2 GENET./ 5H-506 RR/HX + Poncho 250	105	.	195	54	23	0	98
AGSOURCE/ 3C-505RR/YGCB + Poncho 250	105	.	194	56	22	3	100
NUTECH/ 3C-408 RR/YGCB + Poncho 250	108	.	193	55	24	9	95
G2 GENET./ 5H-906 RR/HX + Poncho 250	105	.	192	57	23	4	93
KRUGER/ 6606VT3 + Cruiser 250	106	.	192	55	22	6	99
AGSOURCE/ 3T-603 VT3 + Poncho 250	104	.	188	56	18	2	94
NUTECH/ 3T-500A VT3 + Poncho 250	101	.	187	56	20	5	96
EPLEY/ E1475RR + Not reported	104	.	187	54	18	3	93
NUTECH/ 3P-708 RR/YGPL + Poncho 250	108	.	185	53	25	4	100
RENK/ RK670VT3 + Poncho 250	102	.	185	54	19	6	96
KRUGER/ 6102VT3 + Cruiser 250	102	.	185	56	19	6	100
AGSOURCE/ 3T-303A VT3 + Poncho 250	104	.	185	53	22	1	92
FARM ADVANTAGE/ 9803GL + Cruiser 250	103	.	178	53	21	1	99
G2 GENET./ 5H-004 RR/HX + Poncho 250	104	.	175	56	21	5	95
NUTECH/ 3T-808 VT3 + Cruiser 250	108	.	159	55	24	25	100
Trial avg.:	104	193	192	55	21	5	97
High avg.:	108	205	212	57	25	25	100
Low avg.:	101	185	159	53	18	0	89
[5] LSD(0.05):		NS	18	2	2	7	5
[6] Min.TPG value:		185	195	56	.	.	96
[7] Max.TPG value:		.	.	.	19	7	.
[8] Coef. of var.:		5	6	2	3	88	3
No. entries:	35	6	35	35	35	35	35

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2008 yield average.  
Note that additional table footnotes are explained in table D.

**Table 4a. Brookings early maturity glyphosate-resistant corn hybrid test results, 2007-08, Plant Science Farm.  
Seeded May 7, 2008 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2008 Averages			
		2-Yr bu/a	2008 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
WENSMAN/ W7289VT3 + Poncho 250	99	191	183	57	19	8	100
HOEGEMEYER/ 3113VTRR + Poncho 250	95	190	182	57	17	4	96
GCS/ 98-10VT3 + Poncho 250	98	190	179	56	16	2	96
AGSOURCE/ 3T-799 VT3 + Cruiser 250	99	189	178	55	20	2	99
WENSMAN/ W7267VT3 + Poncho 250	97	188	181	55	16	4	97
EPLEY/ E1225RR + Not reported	98	186	183	56	19	10	98
DEKALB/ DKC46-60(VT3) + Poncho 250	96	185	175	57	16	2	99
KRUGER/ 6499VT3 + Cruiser 250	99	182	183	55	16	1	100
GCS/ 100-07VT3 + Poncho 250	100	181	184	59	17	4	98
SEEDS 2000/ 9901VT3 + Poncho 250	99	179	175	58	17	6	97
EPLEY/ E1165RR + Not reported	95	175	177	55	16	5	99
G2 GENET./ 5H-298 RR/HX + Poncho 250	98	.	196	55	17	1	100
AGSOURCE/ 5X-201+HXT/RR + Poncho 250	100	.	188	55	19	9	97
DAIRYLAND/ STEALTH-9799 + Poncho 250	99	.	185	56	17	3	95
EPLEY/ E1265RR + Not reported	100	.	185	56	18	5	95
G2 GENET./ 5H-501 RR/HX + Poncho 250	100	.	184	56	20	1	93
NUTECH/ 3P-302 RR/YGPL + Cruiser 250	100	.	179	57	22	7	96
DEKALB/ DKC43-27(VT3) + Poncho 250	93	.	177	56	15	1	96
WENSMAN/ W7273VT3 + Poncho 250	98	.	177	54	16	5	99
G2 GENET./ 5H-702 RR/HX + Poncho 250	100	.	176	56	19	13	94
GCS/ 96-08VT3 + Poncho 250	95	.	176	55	15	4	100
DEKALB/ DKC50-44(VT3) + Poncho 250	100	.	175	56	19	1	94
FIELDERS CHOICE/ NG6520 + Poncho 250	98	.	175	54	15	8	98
NUTECH/ 3C-300 RR/YGCB + Poncho 250	100	.	174	55	18	6	95
FARM ADVANTAGE/ 87A99GL + Cruiser 250	99	.	174	56	16	4	95
NC+/ 1775 VT3 + Cruiser 250	97	.	173	56	16	4	99
NC+/ 1557 VT3 + Cruiser 250	95	.	172	58	16	3	98
NUTECH/ 3T-096A VT3 + Cruiser 250	95	.	171	58	18	3	85
RENK/ RK575VT3 + Poncho 250	97	.	171	55	16	0	95
NC+/ 1981 R + Cruiser 250	99	.	170	54	17	4	99
KRUGER/ 6298VT3 + Cruiser 250	98	.	169	58	17	3	99
KRUGER/ 6097VT3 + Cruiser 250	97	.	168	54	16	11	100
DEKALB/ DKC48-37(VT3) + Poncho 250	98	.	167	57	16	2	99
GCS/ 94-04VT3 + Poncho 250	94	.	165	57	16	9	98
AGSOURCE/ 5N-898GTCBLLRW + Poncho 250	98	.	165	56	16	3	95
NUTECH/ 3T-098 VT3 + Cruiser 250	98	.	164	56	16	2	91
KALTENBERG/ K4433VT3 + Poncho 250	100	.	163	55	17	2	97
KALTENBERG/ 4486RRLBTHX + Poncho 250	100	.	163	56	18	11	94
NUTECH/ 3T-500 VT3 + Poncho 250	100	.	160	57	16	2	97
KRUGER/ 6400TS + Cruiser 250	100	.	159	58	16	8	100
KALTENBERG/ K4263VT3 + Poncho 250	98	.	156	58	16	10	93
KRUGER/ 6697VT3 + Cruiser 250	96	.	155	56	15	4	99
AGSOURCE/ 5H-599 RR/HX + Poncho 250	99	.	153	54	17	2	99
KRUGER/ 3300RR/HX + Cruiser 250	100	.	147	56	18	13	95
AGSOURCE/ 5H-597 RR/HX + Poncho 250	95	.	146	56	18	18	99
Trial avg.:	98	185	172	56	17	5	97
High avg.:	100	191	196	59	22	18	100
Low avg.:	93	175	146	54	15	0	85
[5] LSD(0.05):		16	14	2	2	6	4
[6] Min.TPG value:		176	183	58	.	.	96
[7] Max.TPG value:		.	.	.	16	6	.
[8] Coef. of var.:	2	6	5	2	6	74	2
No. entries:	45	11	45	45	45	45	45

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2008 yield average.  
Note that additional table footnotes are explained in table D.

**Table 4b. Brookings late maturity glyphosate-resistant corn hybrid test results, 2007-08, Plant Science Farm.  
Seeded May 7, 2008 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2008 Averages			
		2-Yr bu/a	2008 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
AGSOURCE/ 3C-007RR/YGCB + Cruiser 250	105	194	179	57	23	11	94
NUTECH/ 3C-907 RR/YGCB + Poncho 250	107	192	171	55	22	5	95
SEEDS 2000/ 3122RR/BT + Poncho 250	102	188	172	55	18	5	96
WENSMAN/ W7309VT3 + Poncho 250	101	183	165	57	17	10	100
KRUGER/ 6503TS + Cruiser 250	105	181	166	57	18	7	98
NUTECH/ 3C-006 RR/YGCB + Cruiser 250	105	180	144	54	17	14	86
KRUGER/ 6006VT3 + Cruiser 250	106	179	147	56	16	11	99
EPLEY/ E1525RR + Not reported	105	174	155	57	18	8	98
G2 GENET./ 5H-506A RR/HX + Poncho 250	105	.	193	56	22	7	96
G2 GENET./ 5H-506 RR/HX + Poncho 250	105	.	193	57	21	6	98
GCS/ 102-04VT3 + Poncho 250	102	.	190	58	19	7	99
PIONEER/ 36V53 + Poncho 1250	102	.	189	55	20	3	97
PIONEER/ 35F40 + Poncho 1250	105	.	188	57	22	11	99
G2 GENET./ 5H-906 RR/HX + Poncho 250	105	.	185	59	22	4	94
KRUGER/ 6401VT3 + Cruiser 250	101	.	184	56	19	6	99
NUTECH/ 3W-403 RR/YGRW + Poncho 250	103	.	182	56	19	5	89
DEKALB/ DKC52-59(VT3) + Poncho 250	102	.	180	56	16	2	99
WENSMAN/ W7360BTRWRR + Poncho 250	103	.	180	57	20	9	95
DAIRYLAND/ STEALTH-9003 + Poncho 250	103	.	179	55	18	4	94
RENK/ RK670VT3 + Poncho 250	102	.	179	55	17	3	100
KRUGER/ 6007TS + Cruiser 250	107	.	177	55	20	9	97
DEKALB/ DKC53-41(VT3) + Poncho 250	103	.	176	56	17	9	97
NC+/ 2174 VT3 + Cruiser 250	101	.	176	58	20	12	96
FIELDERS CHOICE/ NG6583 + Poncho 250	102	.	175	57	20	8	84
FARM ADVANTAGE/ 9803GL + Cruiser 250	103	.	172	55	18	3	95
KRUGER/ 6606VT3 + Cruiser 250	106	.	172	57	18	9	100
AGSOURCE/ 3C-505RR/YGCB + Poncho 250	105	.	171	58	20	8	97
DEKALB/ DKC53-17(VT3) + Poncho 250	103	.	170	57	16	3	100
KRUGER/ 6102VT3 + Cruiser 250	102	.	169	57	16	9	97
DEKALB/ DKC55-24(VT3) + Poncho 250	105	.	168	56	17	4	93
RENK/ RK760RRYGCB + Poncho 250	106	.	168	58	20	8	99
EPLEY/ E1475RR + Not reported	104	.	168	54	16	2	98
NUTECH/ 3C-408 RR/YGCB + Poncho 250	108	.	164	56	22	11	96
HOEGEMEYER/ 8192HXRR + Poncho 250	101	.	164	58	20	22	93
G2 GENET./ 5H-508 RR/HX + Poncho 250	108	.	162	57	23	6	91
DAIRYLAND/ STEALTH-9902 + Poncho 250	102	.	158	56	17	7	95
AGSOURCE/ 3T-603 VT3 + Poncho 250	104	.	157	55	15	4	100
AGSOURCE/ 3T-303 VT3 + Cruiser 250	103	.	156	56	18	20	99
NUTECH/ 3T-808 VT3 + Cruiser 250	108	.	153	55	21	28	100
AGSOURCE/ 3T-303A VT3 + Poncho 250	104	.	153	55	18	10	97
Trial avg.:	104	184	171	56	19	8	96
High avg.:	108	194	193	59	23	28	100
Low avg.:	101	174	144	54	15	2	84
[5] LSD(0.05):		NS	15	2	3	7	5
[6] Min.TPG value:		174	179	58	.	.	96
[7] Max.TPG value:		.	.	.	17	7	.
[8] Coef. of var.:		5	5	2	6	53	3
No. entries:	40	8	40	40	40	40	40

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2008 yield average.  
Note that additional table footnotes are explained in table D.

**Table 5a. Geddes early maturity glyphosate-resistant corn hybrid test results, 2007-08, Curtis Sybesma Farm.  
Seeded May 16, 2008 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2008 Averages			
		2-Yr bu/a	2008 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
EPLEY/ E1525RR + Not reported	105	181	177	59	18	8	96
KRUGER/ 6503TS + Cruiser 250	105	175	174	60	17	6	83
EPLEY/ E1225RR + Not reported	98	174	162	59	18	10	85
EPLEY/ E1165RR + Not reported	95	172	170	57	16	4	92
DEKALB/ DKC50-44(VT3) + Poncho 250	100	.	200	59	18	6	94
DEKALB/ DKC52-59(VT3) + Poncho 250	102	.	197	57	18	1	99
PIONEER/ 36V53 + Poncho 1250	102	.	196	57	18	2	94
G2 GENET./ 5H-506 RR/HX + Poncho 250	105	.	196	59	20	3	89
WENSMAN/ W7433VT3 + Poncho 250	105	.	196	57	20	4	91
DEKALB/ DKC55-24(VT3) + Poncho 250	105	.	194	59	17	13	95
HOEGEMEYER/ EXP 800 + Poncho 250	105	.	194	60	21	6	91
G2 GENET./ 5H-506A RR/HX + Poncho 250	105	.	193	58	20	2	94
NUTECH/ 3C-104 RR/YGCB + Poncho 250	104	.	192	57	20	4	97
DEKALB/ DKC53-41(VT3) + Poncho 250	103	.	191	59	16	18	92
NC+/ 3613 VT3 + Cruiser 250	105	.	191	60	19	19	98
KRUGER/ 6401VT3 + Cruiser 250	101	.	190	58	19	7	96
FONTANELLE/ 5T128 + Poncho 250	100	.	190	60	17	0	95
NC+/ 1981 R + Cruiser 250	99	.	190	59	17	3	95
AGSOURCE/ 3T-303A VT3 + Poncho 250	104	.	190	58	18	3	92
AGSOURCE/ 3C-104RR/YGCB + Poncho 250	104	.	189	57	19	12	91
KALTENBERG/ K5163VT3 + Poncho 250	103	.	188	59	17	4	93
AGSOURCE/ 3C-007RR/YGCB + Cruiser 250	105	.	188	58	22	0	88
DAIRYLAND/ STEALTH-9005 + Poncho 250	105	.	187	59	17	3	96
DEKALB/ DKC53-17(VT3) + Poncho 250	103	.	186	61	18	1	96
NC+/ 1775 VT3 + Cruiser 250	97	.	186	60	17	2	86
WENSMAN/ W7360BTRWRR + Poncho 250	103	.	186	60	19	4	90
FONTANELLE/ 6T226 + Poncho 250	104	.	185	60	19	5	85
NUTECH/ 3T-500 VT3 + Poncho 250	100	.	184	59	18	1	91
G2 GENET./ 5H-906 RR/HX + Poncho 250	105	.	184	60	21	4	91
EPLEY/ E1265RR + Not reported	100	.	184	59	17	4	93
AGSOURCE/ 3C-505RR/YGCB + Poncho 250	105	.	184	59	20	2	89
PIONEER/ 35F40 + Poncho 1250	105	.	183	60	19	9	92
NUTECH/ 3C-300 RR/YGCB + Poncho 250	100	.	183	60	17	6	93
DEKALB/ DKC48-37(VT3) + Poncho 250	98	.	182	60	17	3	91
FARM ADVANTAGE/ 9803GL + Cruiser 250	103	.	182	58	18	2	86
KRUGER/ 6102VT3 + Cruiser 250	102	.	182	58	17	3	96
NUTECH/ 3W-403 RR/YGRW + Poncho 250	103	.	180	59	17	4	87
KALTENBERG/ 5232RRLBTHX + Poncho 250	103	.	180	59	19	3	87
NUTECH/ 3P-302 RR/YGPL + Cruiser 250	100	.	179	59	20	6	92
KRUGER/ 6400TS + Cruiser 250	100	.	179	60	16	3	91
HEINE/ H742RRCRW + Poncho 250	105	.	179	59	18	2	89
G2 GENET./ 5H-702 RR/HX + Poncho 250	100	.	177	59	19	8	92
AGSOURCE/ 3T-603 VT3 + Poncho 250	104	.	177	59	17	3	87
EPLEY/ E1254 VT3 + Not reported	95	.	174	59	18	8	94
HEINE/ H711RR + Poncho 250	100	.	173	58	17	5	93
EPLEY/ E1475RR + Not reported	104	.	171	57	16	2	92
HEINE/ H633RR + Poncho 250	97	.	171	59	18	6	90
FONTANELLE/ 5T750 + Poncho 250	100	.	170	60	17	3	80
DEKALB/ DKC43-27(VT3) + Poncho 250	93	.	169	58	16	0	87
HEINE/ H724VT3 + Poncho 250	102	.	164	58	18	6	89
HOEGEMEYER/ 8192HXRR + Poncho 250	101	.	151	58	20	4	67
Trial avg.:	102	176	183	59	18	5	91
High avg.:	105	181	200	61	22	19	99
Low avg.:	93	172	151	57	16	0	67
[5] LSD(0.05):		NS	16	2	1	7	9
[6] Min.TPG value:		172	185	60	.	.	91
[7] Max.TPG value:		.	.	.	16	7	.
[8] Coef. of var.:		7	5	2	4	92	6
No. entries:	51	4	51	51	51	51	51

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2008 yield average.  
Note that additional table footnotes are explained in table D.

**Table 5b. Geddes late maturity glyphosate-resistant corn hybrid test results, 2007-08, Curtis Sybesma Farm.  
Seeded May 16, 2008 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2008 Averages			
		2-Yr bu/a	2008 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
DEKALB/ DKC58-16(VT3) + Poncho 250	108	208	201	57	20	8	95
KRUGER/ 6208VT3 + Cruiser 250	108	208	200	57	22	1	95
DEKALB/ DKC61-69(VT3) + Poncho 250	111	199	200	56	22	3	92
FIELDERS CHOICE/ NG6686 + Poncho 250	107	194	190	59	19	18	91
KRUGER/ 6006VT3 + Cruiser 250	106	193	194	60	18	15	97
KRUGER/ 6210TS + Cruiser 250	110	188	199	58	23	7	93
KRUGER/ 6606VT3 + Cruiser 250	106	.	210	58	20	3	94
KRUGER/ 6007TS + Cruiser 250	107	.	206	57	20	2	100
NC+/ 4252 VT3 + Cruiser 250	107	.	205	57	23	4	95
NC+/ 4022 VT3 + Cruiser 250	109	.	203	59	20	7	95
WENSMAN/ W7455VT3 + Poncho 250	107	.	201	55	22	2	86
RENK/ RK760RRYGCB + Poncho 250	106	.	196	60	20	8	97
WENSMAN/ W7469VT3 + Poncho 250	109	.	196	55	21	9	95
NUTECH/ 3T-809 VT3 + Poncho 250	109	.	192	56	19	17	90
G2 GENET./ 5H-508 RR/HX + Poncho 250	108	.	192	60	21	1	86
AGSOURCE/ 3T-710 VT3 + Poncho 250	110	.	192	57	20	8	92
RENK/ RK822VT3 + Poncho 250	110	.	191	60	21	6	97
NUTECH/ 3C-408 RR/YGCB + Poncho 250	108	.	188	59	21	2	86
AGSOURCE/ 3T-409 VT3 + Cruiser 250	109	.	186	58	20	3	88
RENK/ RK770VT3 + Poncho 250	107	.	184	57	20	1	86
HEINE/ H817VT3 + Poncho 250	109	.	184	56	23	10	89
HEINE/ H815VT3 + Poncho 250	109	.	184	58	21	1	89
RENK/ RK698RRYGRW + Poncho 250	107	.	183	58	18	2	86
AGSOURCE/ 3T-908 VT3 + Poncho 250	108	.	183	57	21	1	86
DAIRYLAND/ STEALTH-6208 + Poncho 250	108	.	182	57	19	15	94
NUTECH/ 3T-109 VT3 + Poncho 250	109	.	182	56	22	15	93
NUTECH/ 3P-708 RR/YGPL + Poncho 250	108	.	180	58	21	3	93
AGSOURCE/ 3T-310 VT3 + Cruiser 250	110	.	179	57	21	18	94
FARM ADVANTAGE/ 87A10GL + Cruiser 250	110	.	177	54	21	7	84
KRUGER/ 6111TS + Cruiser 250	110	.	177	57	22	10	82
NUTECH/ 3T-808 VT3 + Cruiser 250	108	.	171	58	21	16	95
HEINE/ H816VT3 + Poncho 250	109	.	170	58	19	31	97
Trial avg.:	108	198	190	57	21	8	92
High avg.:	111	208	210	60	23	31	100
Low avg.:	106	188	170	54	18	1	82
[5] LSD(0.05):		NS	15	1	2	10	7
[6] Min.TPG value:		188	196	60	.	.	92
[7] Max.TPG value:		.	.	.	19	9	.
[8] Coef. of var.:		6	5	1	5	78	5
No. entries:	32	6	32	32	32	32	32

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2008 yield average.  
Note that additional table footnotes are explained in table D.



**Table 6a. Beresford early maturity glyphosate-resistant corn hybrid test results, 2007-08, Southeast Experiment Station. Seeded May 19, 2008 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2008 Averages			
		2-Yr bu/a	2008 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
DEKALB/ DKC58-16(VT3) + Poncho 250	108	197	199	55	20	3	82
FIELDERS CHOICE/ NG6686 + Poncho 250	107	197	188	56	22	5	76
KRUGER/ 6208VT3 + Cruiser 250	108	196	195	54	22	10	85
KRUGER/ 6210TS + Cruiser 250	110	194	210	54	24	1	78
NUTECH/ 3T-808A VT3 + Cruiser 250	108	191	183	55	20	21	78
FONTANELLE/ 6T226 + Poncho 250	104	180	174	57	22	4	71
GCS/ 107-01CBRCRW + Poncho 250	107	175	169	54	19	2	64
NC+/ 4582 VT3 + Cruiser 250	110	.	233	54	25	8	86
FONTANELLE/ 7T231 + Poncho 250	110	.	226	53	22	12	96
WENSMAN/ W7455VT3 + Poncho 250	107	.	221	55	21	1	90
KALTENBERG/ K6663VT3 + Poncho 250	110	.	218	55	23	3	81
HOEGEMEYER/ 5353VTRR + Poncho 250	109	.	218	55	22	7	86
NC+/ 4252 VT3 + Cruiser 250	107	.	217	55	22	3	83
KRUGER/ 6111TS + Cruiser 250	110	.	215	54	24	17	87
AGSOURCE/ 3T-710 VT3 + Poncho 250	110	.	212	56	24	2	93
FOUR STAR/ 6844VT3 + Cruiser 250	108	.	211	55	24	5	82
G2 GENET/ 5H-506A RR/HX + Poncho 250	105	.	209	56	20	3	86
WENSMAN/ W7469VT3 + Poncho 250	109	.	209	53	23	1	78
DEKALB/ DKC52-59(VT3) + Poncho 250	102	.	208	56	16	3	87
AGSOURCE/ 3T-311 VT3 + Poncho 250	110	.	208	54	24	5	84
FOUR STAR/ 6863VT3 + Cruiser 250	110	.	205	55	21	15	92
NUTECH/ 3P-708 RR/YGPL + Poncho 250	108	.	205	55	22	3	89
HEINE/ H817VT3 + Poncho 250	109	.	205	55	22	7	80
DAIRYLAND/ STEALTH-9006 + Poncho 250	106	.	204	56	19	9	94
KALTENBERG/ 6355RRLLBTHX + Poncho 250	109	.	203	55	22	2	91
KRUGER/ 6007TS + Cruiser 250	107	.	203	54	19	2	89
FOUR STAR/ 8843HXTRRL + Cruiser 250	108	.	201	57	21	2	89
DAIRYLAND/ STEALTH-9410 + Poncho 250	110	.	201	55	23	1	82
G2 GENET/ 5H-506 RR/HX + Poncho 250	105	.	201	55	23	2	70
FOUR STAR/ 6861VT3 + Cruiser 250	110	.	200	54	21	4	83
FARM ADVANTAGE/ 87A10GL + Cruiser 250	110	.	200	54	22	8	83
FONTANELLE/ 7N771 + Poncho 250	110	.	200	56	23	4	94
DAIRYLAND/ STEALTH-6208 + Poncho 250	108	.	199	55	19	15	89
RENK/ RK822VT3 + Poncho 250	110	.	199	58	21	3	88
HEINE/ H835VT3 + Poncho 250	110	.	199	55	22	9	89
PIONEER/ 35F40 + Poncho 1250	105	.	198	57	21	5	85
AGSOURCE/ 3T-409 VT3 + Cruiser 250	109	.	198	56	23	2	83
NUTECH/ 3T-809 VT3 + Poncho 250	109	.	197	53	21	13	86
G2 GENET/ 5H-508 RR/HX + Poncho 250	108	.	197	59	22	2	84
DEKALB/ DKC53-41(VT3) + Poncho 250	103	.	196	56	16	5	89
NC+/ 4022 VT3 + Cruiser 250	109	.	195	55	22	7	85
HEINE/ H815VT3 + Poncho 250	109	.	195	56	23	3	83
FOUR STAR/ 6862VT3 + Cruiser 250	108	.	191	54	21	6	91
NUTECH/ 3T-109 VT3 + Poncho 250	109	.	191	55	20	5	79
HEINE/ H816VT3 + Poncho 250	109	.	190	56	19	26	93
GCS/ 102-04VT3 + Poncho 250	102	.	190	57	19	2	75
DEKALB/ DKC55-24(VT3) + Poncho 250	105	.	189	57	18	10	81
FARM ADVANTAGE/ 9803GL + Cruiser 250	103	.	189	55	16	3	90
PIONEER/ 36V53 + Poncho 1250	102	.	187	56	18	0	69
RENK/ RK698RRYGRW + Poncho 250	107	.	187	56	18	1	72

**Table 6a. Beresford early maturity glyphosate-resistant corn hybrid test results (continued).**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2008 Averages			
		2-Yr bu/a	2008 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
AGSOURCE/ 3T-110 VT3 + Poncho 250	110	.	187	54	21	25	86
RENK/ RK770VT3 + Poncho 250	107	.	186	55	23	2	72
NUTECH/ 3C-408 RR/YGCB + Poncho 250	108	.	181	56	22	4	69
DEKALB/ DKC53-17(VT3) + Poncho 250	103	.	180	57	19	4	75
NC+/ 3613 VT3 + Cruiser 250	105	.	176	57	21	5	73
G2 GENET./ 5H-906 RR/HX + Poncho 250	105	.	175	58	21	2	79
FOUR STAR/ 9956VT3 + Cruiser 250	109	.	173	56	23	3	70
G2 GENET./ 5H-911 RR/HX + Poncho 250	110	.	173	57	21	10	85
HEINE/ H747RRYGCB + Poncho 250	104	.	172	56	17	2	67
HEINE/ H742RRCRW + Poncho 250	105	.	169	56	18	0	67
AGSOURCE/ 3T-310 VT3 + Cruiser 250	110	.	164	55	20	12	89
Trial avg.:		190	196	55	21	6	83
High avg.:		197	233	59	25	26	96
Low avg.:	108	175	164	53	16	0	64
[5] LSD(0.05):	110	NS	24	3	4	9	14
[6] Min.TPG value:	102	175	210	57	.	.	83
[7] Max.TPG value:	61	.	.	.	19	9	.
[8] Coef. of var.:		8	7	2	8	98	10
No. entries:		7	61	61	61	61	61

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2008 yield average.  
Note that additional table footnotes are explained in table D.

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**Table 6b. Beresford late maturity glyphosate-resistant corn hybrid test results, 2007-08, Southeast Experiment Station. Seeded May 19, 2008 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2008 Averages			
		2-Yr bu/a	2008 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
DEKALB/ DKC61-69(VT3) + Poncho 250	111	217	214	54	22	8	94
DEKALB/ DKC63-42(VT3) + Poncho 250	113	202	202	54	24	10	94
KRUGER/ 6015VT3 + Cruiser 250	115	192	209	54	24	6	95
KRUGER/ 6111TS + Cruiser 250	110	185	178	54	19	2	98
KRUGER/ 6114VT3 + Cruiser 250	114	.	217	55	24	7	99
KRUGER/ 6411VT3 + Cruiser 250	111	.	215	53	22	8	98
NUTECH/ 3T-912 VT3 + Poncho 250	112	.	213	55	23	3	93
KRUGER/ 2115RR/YGCB + Cruiser 250	115	.	212	55	24	4	97
KRUGER/ 6213VT3 + Cruiser 250	113	.	208	52	25	8	95
KRUGER/ 9414RR/HXT + Cruiser 250	114	.	208	55	23	5	99
WENSMAN/ W7562VT3 + Poncho 250	111	.	208	52	23	6	95
KRUGER/ 2208RR/YGCB + Cruiser 250	111	.	202	55	20	7	98
G2 GENET./ 3A-513 RR + Poncho 250	113	.	201	55	20	8	92
NUTECH/ 3T-012 VT3 + Poncho 250	112	.	198	54	24	5	95
NC+/ 5403 VT3 + Cruiser 250	113	.	189	56	23	5	94
KRUGER/ 6212TS + Cruiser 250	112	.	179	54	24	5	91
NUTECH/ 3T-213 VT3 + Cruiser 250	113	.	170	54	21	8	95
NUTECH/ 5H-512 RR/HXT + Poncho 250	112	.	152	52	22	25	94
Trial avg.:	113	199	199	54	23	7	95
High avg.:	115	217	217	56	25	25	99
Low avg.:	110	185	152	52	19	2	91
[5] LSD(0.05):		NS	26	2	2	7	NS
[6] Min.TPG value:		185	192	55	.	.	91
[7] Max.TPG value:		.	.	.	20	8	.
[8] Coef. of var.:		9	8	2	5	58	4
No. entries:	18	4	18	18	18	18	18

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2008 yield average. Note that additional table footnotes are explained in table D.

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**Table 6c. Beresford non-glyphosate-resistant corn hybrid combined early and late maturity test, 2007-08. South-east Experiment Station, seeded May 19, 2008 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2008 Averages			
		2-Yr bu/a	2008 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
HOEGEMEYER/ HBT651 + Poncho 250	109	197	183	56	17	7	97
HEINE/ H818YGCB + Poncho 250	109	192	174	56	16	7	99
KRUGER/ 8616HX + Poncho 250	110	.	204	55	23	6	100
KRUGER/ 8112HX + Poncho 250	110	.	189	56	20	6	100
HEINE/ H758YGCB + Poncho 250	106	.	185	56	20	7	92
RENK/ RK692CBLLRW + Poncho 250	105	.	179	58	15	8	95
KRUGER/ 8414HX + Poncho 250	114	.	169	56	18	7	100
KRUGER/ 8106HX + Poncho 250	106	.	164	56	16	7	100
Trial avg.:	109	195	181	56	18	7	98
High avg.:	114	197	204	58	23	8	100
Low avg.:	105	192	164	55	15	6	92
[5] LSD(.05):		NS	22	1	3	NS	4
[6] Min.TPG value:		192	183	58	.	.	97
[7] Max.TPG value:		.	.	.	17	8	.
[8] Coef. of var.:		7	7	1	8	32	2
No. entries:	8	2	8	8	8	8	8

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2008 yield average. Note that additional table footnotes are explained in table D.

# ARCHIVE

**Table E. Mailing addresses for seed entries in the 2008 corn hybrid trials by seed brand name.**

Seed brand	Seed company mailing address
AgSource Dairyland Dekalb	AgSource Seeds Inc., 1800 L Ave., Nevada, IA 50201 Dairyland Seed, PO Box 958, West Bend, WI 53095 Monsanto, 102 W. Carol Ave., Cortland, IL 60112
Epley Bros. Farm Advantage Fielder's Choice	Epley Bros. Hybrids Inc., PO Box 310, Shell Rock, IA 50670 Farm Advantage, 1275 Hwy 69, Belmond, IA 50421 Grow Direct, 306 N. Main Street, Monticello, IN 47960
Fontanelle Four Star Gold Country	Fontanelle Hybrids, 919 West 23rd Street, Fremont, NE 68025 Four Star Seed Co., 2929-335th Street, Logan, IA 51546 Gold Country Seed Inc., PO Box 604, Hutchinson, MN 55350
G-2 Genetics Heine Hoegemeyer	G-2 Genetics, 415 S. Duff Avenue, Suite C, Ames, IA 50010 Heine Hybrid Seed Corn, 1020 E. 320th St., Vermillion, SD 57069 Hoegemeyer Hybrids, 1755 Hoegemeyer Road, Hooper, NE 68031
Kaltenberg Kruger NC+	Kaltenberg Seeds, 5506 State Road 19, Box 278, Waunakee, WI 53597 Kruger Seed Co., Box A, Dike, IA 50624 719 E. 15th Avenue, Mitchell, SD 57301
NuTech Pioneer Rea	Nutech Seed, LLC, 415 S. Duff Avenue, Suite C, Ames, IA 50010 Pioneer Hi-Bred International, 151 Saint Andrews Court, Mankato, MN 6001 Rea Hybrids, 919 W. 23rd Street, Fremont, NE 68025
Renk Seeds 2000 Wensman	Renk Seed Co., 6809 Wilburn Rd., Sun Prairie, WI 53590 Seeds 2000, PO Box 200, Breckenridge, MN 56520 Wensman Seed Co., 67784 330th Street, Watkins, MN 55389

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**2009 Precision Planted Performance Trials**

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

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**C253—Precision Planted Corn 2009 Crop Performance Results  
is available electronically on the internet  
<http://agbiopubs.sdstate.edu/articles/C253-09.pdf>**



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# 2009 Precision Planted Corn Performance Trials

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This publication reports the results of the 2009 South Dakota corn hybrid performance trials for glyphosate-resistant hybrids. 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, lodging percentage, and final stand percentages. These performance trials are conducted by the South Dakota Crop Performance Testing program at South Dakota State University. Corn performance trial tables are listed on the inside front cover. Environmental data is listed in tables A and B, indices of brand/hybrid entries to performance table number are listed in table C, table D has the footnote legend, and mailing addresses for seed companies are listed in table E.

## Test Trial Locations

Trial locations, soil types, seedbed and previous crop history, soil fertility yield goals, and seeding dates are indicated in table A. The participation and efforts of our cooperators — Allen and Inel Ryckman at Warner, Al Heuer at South Shore (Northeast Research Farm), E. Weerts Farm Inc. at Bancroft, Douglas Doyle at Brookings (SDSU Plant Science Research Farm), Curtis Sybesma at Geddes, and Robert Berg and staff at Beresford (Southeast Experiment Station) — are gratefully acknowledged.

## Seasonal Temperatures and Precipitation

Seasonal rainfall and its distribution and average temperatures at weather reporting stations nearest each test trial are reported in table B for the period April 1 to October 31. Seasonal precipitation sums were above average at Aberdeen (3.15"), South Shore (2.95"), and Huron (2.25"); near average at Centerville (0.65"); and below average at Brookings (-1.38") and White Lake (-1.37"). The greatest moisture deficits tended to occur at most locations in April and May. In some areas of the state, such early season moisture deficits may have resulted in the delayed emergence of some crops seeded at their normal seeding dates.

Seasonal average temperatures from April to October were at or near normal at Brookings and Centerville. Seasonal temperatures were below average at Aberdeen (-2.37°F), South Shore (-3.07°F), Huron (-2.00°F) and White Lake (-3.13°F). The monthly departures from average temperatures in June, July, and August varied from near normal at Brookings and Centerville to nearly 7°F below average at South Shore and White Lake in July.

Seasonal sums of accumulated growing degree days (GDDs) varied from a low of 2,010 at South Shore to a high of 2,630 at Centerville for the April–October period. The seasonal accumulated GDDs departures from average were below average for all locations and varied from a low of -279 at Huron to a high of -588 GDDs at White Lake. If only the May to September period is considered, then the seasonal GDDs departure from average would be -224 at Aberdeen, -291 at South Shore, -162 at Huron, -171 at Brookings, -306 at Centerville, and -415 at White Lake. If one calculates the average loss in GDDs per day from May to September, the average losses were -1.5 at Aberdeen, -1.9 at South Shore, -1.1 at Huron and Brookings, -2.0 at Centerville, and -2.7 at White Lake.

In summary, the growing season precipitation sums for corn varied from -1.3" below to over 3" above normal across the 6 locations tested, with the greatest precipitation generally occurring in October. In addition, the greatest monthly departures from average temperature occurred in June, July, August, and October. Generally, the GDD loss per day during the growing season was low at Huron and Brookings; slightly higher at Aberdeen, South Shore, and Centerville; and the highest at White Lake.

## General Test Procedures

Seed companies pick the test locations where their entries are tested. Entries are placed into "early" or "late" maturity trials. The relative maturity breaks between the early and late tests are 95 days for Warner and South Shore, 100 days for Bancroft and Brookings, 105 days for Geddes, and 110 days for Beresford. Hybrids are assigned to trials based on the 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 2009 is presented in table E.**

## Experimental Procedures

Entries were seeded in 3 replications, with each hybrid randomly located within each trial. Plots consisted of four 30-inch rows that were 20 feet long, with the center two rows harvested for yield. A Monosem precision row crop planter was used for seeding plots at all locations. In 2009, the precision planter was calibrated to deliver 28,750 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, 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 pounds/acre of 37-18-00 was applied 2" below and 2" to the side (2 x 2) of the seed row. The weed control herbicides applied at recommended label rates are indicated in table A.

## Measurements of Performance

Yields are obtained from the South Dakota Crop Performance Testing Program. Current-year and 2-year yield averages are included where hybrids have been tested in 2009 and for the past 2 years.

**Yield.** Yield values are an average of 3 replications and are expressed as bushels per acre, adjusted to 15.5% moisture on a dry-matter basis and a bushel weight of 56 pounds. 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 2009, the coefficient of variation (CV) values (a measure of experimental error) for yield was relatively low, ranging from 3 to 8% over the 6 test locations. Experimental error may be the result of several factors, including test methods, or factors such as moisture, temperature, or soil variations, or agronomic factors like seeding date, reseeding, or seed quality factors — all of which may or may not be controllable in a given year. This year, good seasonal moisture distribution and cooler than normal mid-summer temperatures were the 2 factors that were instrumental in producing good yields but very low bushel weights and high kernel moisture levels at harvest.

**Grain moisture content.** Moisture content is expressed as the percentage of moisture in the shelled corn at harvest. Moisture is generally inversely related to maturity and is important in the evaluation of hybrids. Hybrids that provide satisfactory yields and can be stored without additional drying are desirable. During harvest, moisture values were determined by the combine moisture meter, which in turn was periodically checked with a Dickey-John GAC-2100 to verify it was within limits. In 2009, grain moisture values were higher than normal as the result of lower than normal heat unit accumulation (below average temperatures) that slowed the progress of the crop during grain filling that in turn contributed to both high kernel moisture and low bushel weight values.

**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 2 hybrids before there is a significant yield difference. LSD values are given at the bottom of every column where there

is significant difference among the averages within the column. If differences among the averages within a column are not significant, the LSD value is reported as "non-significant" (NS).

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 2-year yields, for current-year yields, for bushel weight, for grain moisture at harvest, for lodging (below the ear) percentage, and for final stand percentage for each test trial. In order 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, let's say the column LSD value equals 15 (bu/a) and the highest yield for that column equals 155 bu/a. If you subtract the column LSD value from the highest yield, you obtain an intermediate value of 140 bu/a ( $155 - 15 = 140$ ). The minimum top yield value has to be greater than this intermediate value of 140 bu., and since the yield values are rounded to the nearest bushel, it must be at least 141 bu. Thus, varieties with an average of 141 bu. or higher are included in the top-yield group.

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 reported at the bottom of each yield column (2-yr or 2009 yield averages). If hybrid yield differences are not significant (NS) and the CV values are 15% 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 15%, then no minimum TPG value is indicated because there was too much experimental error associated with the test to make a valid determination of the TPG for yield. When comparing yield means, compare current-year averages with other current-year averages and compare 2-yr yield averages with other 2-yr averages. When evaluating 2-yr averages, do not forget to note how the entries tested for 2 years performed in 2009. **Entries tested for 2 years may also have a yield value that qualifies for the TPG in the 2009 yield column.**

The TPG for other performance factors — such as bushel weight, percent grain moisture at harvest, percent lodging (below the ear), and percent stand (percent of seeded population) — can also be determined. In order to qualify for the TPG group, a hybrid must have a bushel weight and a final stand percentage value that is equal to or greater than the minimum reported TPG value for bushel weight or final stand percentage. Likewise, in order to qualify for the TYG, a hybrid must have grain moisture and lodging percentage values that are equal to or less than the maximum reported TPG value for grain moisture or lodging percentage. Note that yield, bushel weight, and percent stand TPG values are greater than a certain yield, bushel weight, or final stand value, or they are minimum values. In contrast, grain moisture and lodging percentages are equal to or less than a certain value to qualify for the TPG, or they are maximum values. 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**.

The LSD values for the TPG can also 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 grain moisture 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 moisture difference of 3% is more than the reported LSD value 2%; therefore, hybrid A is significantly higher in grain moisture than hybrid C.

The performance trial results for one year (2009) and for two years (2008-09) follow:

## PERFORMANCE TRIAL RESULTS BY LOCATIONS

### Northern Locations

A brief discussion of the corn performance trial results at the various test trial locations for the past 2 years (2008–2009) and for the most recent year (2009) follow. In addition, note that all yield averages are reported as harvest yield adjusted to 15.5% grain moisture and a 56 pound bushel weight. Generally, Warner, Geddes, and Beresford exhibited the best yield and bushel weight averages, along with grain moisture levels of 17 to 27%. At South Shore, Bancroft, and Brookings the yield averages were surprisingly good, but the bushel weight averages were very low and varied from 47 to 50 pounds with high grain-moisture levels of 20 to 31%. At all locations, the coefficient of variation (a measure of experimental error) for yield was very low and only varied from 3 to 6% for 2009. The cooler than average temperatures this past summer had a significant influence that resulted in high yields but lower than average bushel weights and higher than average moisture levels at harvest at most locations.

#### Warner:

**Early – Glyphosate-resistant trial, Table 1a.** The test trial yield averages were **210** bu/a for 2 years and **230** bu/a for 2009. Hybrids that yielded **206** bu/a or more for 2 years and **234** bu/a or more for 2009 qualified for the TPG for yield. Hybrids had to differ in yield by **13** bu/a in 2009 to be significantly different, while the yield differences for 2 years were not significant (NS). Because there were no differences in yield average among the hybrids tested 2 years, all entries tested qualified for the TPG. In 2009, bushel weights averaged **52** lbs, grain moisture averaged **21%**, lodging percentage averaged **zero percent**, and final stand percentage averaged **94%**. In order for hybrids to be in the TPG for these factors, the hybrid had to average **53** lbs. or more in bushel weight, **19%** or less in grain moisture, **1%** or less in lodging percentage, and **94%** or more for final stand percentage.

**Late – Glyphosate-resistant trial, Table 1b.** The test trial yield averages were **220** bu/a for 2 years and **231** bu/a for 2009. Hybrids that yielded **210** bu/a or more for 2 years qualified for the TPG for yield. Because there were no differences in yield average among the hybrids tested two years, all entries tested qualified for the TPG. Hybrids had to differ in yield by **12** bu/a in 2009 to be significantly different. In 2009, bushel weights averaged **52** lbs, grain moisture averaged **23%**, lodging percentage averaged **zero percent**, and final stand percentage averaged **94%**. In order for hybrids to be in the TPG for these factors, the hybrid had to aver-

age **53** lbs. or more in bushel weight, **19%** or less in grain moisture, **1%** or less in lodging percentage, and **95%** or more for final stand percentage.

#### South Shore:

**Early – Glyphosate-resistant trial, Table 2a.** The test trial yield averages were **187** bu/a for 2 years and **200** bu/a for 2009. The yield differences among those hybrids tested for 2 years were not significant (NS). Hybrids that yielded **205** bu/a or more for 2009 qualified for the TPG for yield. Hybrids had to differ in yield by **11** bu/a in 2009 to be significantly different. In 2009, bushel weights averaged **50** lbs, grain moisture averaged **20%**, lodging averaged **zero percent**, and final stand percentage averaged **96%**. In order for hybrids to be in the TPG for these factors, the hybrid had to average **52** lbs. or more in bushel weight, **18%** or less in grain moisture, **1%** or less in lodging, and **95%** or more in final stand percentage.

**Late – Glyphosate-resistant trial, Table 2b.** The test trial yield averages were **185** bu/a for 2 years and **192** bu/a for 2009. Hybrids that yielded **171** bu/a or more for 2 years and **204** bu/a or more for 2009 qualified for the TPG for yield. Hybrids had to differ in yield by **28** bu/a for two years and **13** bu/a in 2009 to be significantly different. In 2009, bushel weights averaged **47** lbs, grain moisture averaged **26%**, lodging averaged **zero percent**, and final stand percentage averaged **93%**. In order for hybrids to be in the TPG for these factors, the hybrid had to average **49** lbs. or more in bushel weight, **22%** or less in grain moisture, and **1%** or less in lodging, and **93%** or higher in final stand percentage.

### Central Locations

#### Bancroft:

**Early – Glyphosate-resistant trial, Table 3a.** The test trial yield averages were **189** bu/a for 2 years and **179** bu/a in 2009. Hybrids that yielded **179** bu/a or more for 2 years and **183** bu/a in 2009 qualified for the TPG for yield. Hybrids had to differ in yield by **20** bu/a for 2 years and **18** bu/a in 2009 to be significantly different. In 2009, bushel weights averaged **49** lbs, grain moisture averaged **24%**, lodging averaged **zero percent**, and percent stand averaged **90%**. In order for hybrids to be in the TPG for these factors, the hybrid had to average **51** lbs. or more in bushel weight, **20%** or less in grain moisture, **2%** or less in lodging percentage, and **91%** or more for final stand percentage.

**Late – Glyphosate-resistant trial, Table 3b.** The test trial

yield averages were **181** bu/a for 2 years and **161** bu/a in 2009. Hybrids that yielded **168** bu/a or more in 2009 qualified for the TPG for yield. Yield differences among hybrids were not significant for the 2-year period. In 2009, bushel weights averaged **48** lbs, grain moisture averaged **31%**, lodging percentage averaged **1%**, and the final stand percentage averaged **89%**. In order for hybrids to be in the TPG for these factors, the hybrid had to average **47** lbs. or more in bushel weight, **26%** or less in grain moisture, **4%** or less in lodging percentage, and **90%** or more for final stand percentage.

#### **Brookings:**

**Early – Glyphosate-resistant trial, Table 4a.** The test trial yield averages were **197** bu/a for 2 years and **219** bu/a for 2009. Hybrids that yielded **234** bu/a or more for 2009 qualified for the TPG for yield, while the yield differences for 2 years were not significant (NS). Hybrids had to differ in yield by **11** bu/a in 2009 to be significantly different. In 2009, bushel weights averaged **50** lbs, grain moisture averaged **23%**, lodging percentage averaged **zero percent**, and final stand percentage averaged **93%**. In order for hybrids to be in the TPG for these factors, the hybrid had to average **51** lbs. or more in bushel weight, **22%** or less in grain moisture, **2%** or less in lodging percentage, and **94%** or more for final stand percentage.

**Late – Glyphosate-resistant trial, Table 4b.** The test trial yield averages were **201** bu/a for 2 years and **223** bu/a for in 2009. There were no differences in yield average among the hybrids tested 2 years, so all hybrids tested qualified for the TPG. Hybrids that yielded **231** bu/a or more in 2009 qualified for the TPG for yield. Hybrids had to differ in yield by **12** bu/a in 2009 to be significantly different. In 2009, bushel weights averaged **48** lbs, grain moisture averaged **27%**, lodging averaged slightly more than zero percent, and percent stand averaged **93%**. In order for hybrids to be in the TPG for all performance factors, the hybrid had to average **51** lbs. or more in bushel weight, **24%** or less in grain moisture, **2%** or less in lodging percentage, and **95%** or more for final stand percentage.

## **Southern Locations**

#### **Geddes:**

**Early – Glyphosate-resistant trial, Table 5a.** The test trial yield average was **211** bu/a for 2 years and **229** bu/a in 2009. The average yield differences among the hybrids tested 2 years were non-significant (NS), so all the hybrids tested qualified for the TPG. Hybrids that yielded **228** bu/a or more for 2009 qualified for

the TPG for yield. In 2009, bushel weights averaged **54** lbs, grain moisture averaged **17%**, lodging percentage averaged **zero percent**, and percent final stand averaged **93%**. In order for hybrids to be in the TPG for these factors, the hybrid had to average **55** lbs. or more in bushel weight, **16%** or less in grain moisture, **2%** or less in lodging, and **93%** or more for final stand.

**Late – Glyphosate-resistant trial, Table 5b.** The test trial yield average was **208** bu/a for 2 years and **216** bu/a for 2009. Yield differences among hybrids tested for 2 years were non-significant (NS); thus, all entries tested two years were in the TPG for yield. Hybrids that yielded **216** bu/a or more for 2009 qualified for the TPG for yield. Hybrids had to differ in yield by **18** bu/a in 2009 to be significantly different. In 2009, bushel weights averaged **52** lbs, grain moisture averaged **20%**, lodging percentage averaged **zero percent**, and percent final stand averaged **91%**. In order for hybrids to be in the TPG for these factors, the hybrid had to average **53** lbs. or more in bushel weight, **18%** or less in grain moisture, **2%** or less in lodging, and **95%** or more for final stand.

#### **Beresford:**

**Early – Glyphosate-resistant trial, Table 6a.** The test trial yield averages were **225** bu/a for 2 years and **236** bu/a in 2009. There were no differences in yield average among the hybrids tested 2 years, so all hybrids tested qualified for the TPG. Hybrids that yielded **239** bu/a or more in 2009 qualified for the TPG for yield. Hybrids had to differ in yield by **14** bu/a in 2009 to be significantly different. In 2009, bushel weights averaged **52** lbs, grain moisture averaged **24%**, lodging percentage averaged **1%**, and final stand percentage averaged **93%**. In order for hybrids to be in the TPG for these factors, the hybrid had to average **53** lbs. or more in bushel weight, **19%** or less in grain moisture, **2%** or less in lodging percentage, and **93%** or more for final stand percentage.

**Late – Glyphosate-resistant, Table 6b.** The test trial yield averages were **225** bu/a for 2 years and **232** bu/a in 2009. There were no differences in yield average among the hybrids tested 2 years, so all hybrids tested qualified for the TPG. Hybrids that yielded **235** bu/a or more in 2009 qualified for the TPG for yield. Hybrids had to differ in yield by **14** bu/a in 2009 to be significantly different. In 2009, bushel weights averaged **52** lbs, grain moisture averaged **27%**, lodging percentage averaged **1%**, and final stand percentage averaged **93%**. In order for hybrids to be in the TPG for these factors, the hybrid had to average **53** lbs. or more in bushel weight, **25%** or less in grain moisture, and **3%** or less in lodging percentage.

**Table A. Description of 2009 corn hybrid trial locations- soil type, tillage method, prior crop, herbicides used, and seeding dates.**

Location (County)	Soil Type	Tillage Method	Prior crop	Herbicides Applied at label rates		Fertility Yield Goal bu/a	Date Seeded
				Pre	Post		
Warner (Brown)	Harmony-Aberdeen silty clay loam, 0-2% slope	Conventional	Spring Wheat	Harness Xtra	Roundup once	200	May 7
South Shore (Codington)	Kranzburg silty clay loam, 3-6% slope	Conventional	Spring Wheat	Dual II Magnum	Roundup once	180	May 7
Bancroft (Kingsbury)	Houdek-Stickney-Tetonka loam, 0-3% slope	Conventional	Soybean	Fall Dual	Roundup once	180	May 18
Brookings (Brookings)	Barnes clay loam, 0-2% slope	Conventional	Soybean	Dual II Magnum	Roundup twice	200	May 6
Geddes (Chas. Mix)	Highmore-Walke silt loam, 0-2% slope	No-till	Winter Wheat	-	Roundup twice	200	May 14
Beresford (Clay)	Egan-Clarno-Trent silty clay loam, 0-2% slope	Conventional	Soybean	-	Roundup once	210	May 11

Plots were seeded at 28,750 seeds per acre.

**Table B. Nearest weather station precipitation accumulation and average daily temperatures for each growing season month in 2009 and departures from average (DFA), SD Office of Climate and Weather.**

Station (Test site)	Variable		Monthly data - April 1 to October 31							Sum or Average
			April	May	June	July	Aug	Sept	Oct	
Aberdeen Airport (Warner)	Precip.- inches 1971-2000 avg.	'09	1.90	0.47	3.87	2.46	2.83	4.41	4.00	19.94
		DFA*	0.07	-2.22	0.38	-0.46	0.41	2.60	2.37	3.15
	Avg.Temp. -°F 1971-2000 avg.	'09	43.0	56.4	64.0	68.0	66.5	63.5	41.4	57.54
		DFA	-2.4	-1.5	-2.8	-4.2	-4.0	3.7	-5.4	-2.37
	Accum. GDDs 1971-2000 avg.	'09	108	309	450	549	535	431	40	2422
		DFA*	-3	-7	-48	-142	-109	82	-103	-330
South Shore Northeast Research Farm	Precip.- inches 1971-2000 avg.	'09	1.09	1.73	2.70	3.97	3.60	1.62	6.53	21.24
		DFA	-0.87	-0.88	-1.31	1.06	0.75	-0.41	4.61	2.95
	Avg.Temp. -°F 1971-2000 avg.	'09	40.7	54.3	61.9	64.0	63.9	61.1	38.1	54.86
		DFA	-2.5	-1.7	-3.4	-6.4	-3.9	3.3	-6.9	-3.07
	Accum. GDDs 1971-2000 avg.	'09	89	250	391	439	449	377	15	2010
		DFA*	16	-28	-65	-192	-109	71	-92	-399
Huron (Bancroft)	Precip.- inches 1971-2000 avg.	'09	1.68	2.08	4.45	2.95	1.57	2.54	3.87	19.14
		DFA	-0.61	-0.92	1.17	0.09	-0.50	0.74	2.28	2.25
	Avg.Temp. -°F 1971-2000 avg.	'09	44.5	58.5	65.0	69.0	68.5	64.5	42.0	58.86
		DFA	-1.6	0.3	-2.9	-4.4	-3.0	3.5	-5.9	-2.00
	Accum. GDDs 1971-2000 avg.	'09	122	344	478	580	587	465	54	2630
		DFA*	-2	26	-58	-139	-78	87	-115	-279

Brookings (SDSU Plant Science Farm)	Precip.- inches 1971-2000 avg.	'09	0.86 2.03	2.23 2.95	3.32 4.23	3.78 3.11	1.37 2.94	1.25 2.48	5.33 1.78	18.14 19.52
		DFA	-1.17	-0.72	-0.91	0.67	-1.57	-1.23	3.55	-1.38
	Avg.Temp. -°F 1971-2000 avg.	'09	44.4 44.2	56.9 56.7	66.2 66.1	70.7 70.7	68.5 68.6	58.9 59.1	46.0 46.3	58.80 58.81
		DFA	0.2	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.01
	Accum. GDDs 1971-2000 avg.	'09	100 85	299 293	429 483	496 640	504 577	394 330	23 138	2245 2546
	DFA*	15	6	-54	-144	-73	64	-115	-301	
Centerville, 6 SE (Beresford)	Precip.- inches 1971-2000 avg.	'09	1.60 2.47	0.94 3.65	4.64 3.95	4.82 3.35	2.08 2.83	2.16 2.26	4.72 1.80	20.96 20.31
		DFA	-0.87	-2.71	0.69	1.47	-0.75	-0.10	2.92	0.65
	Avg.Temp. -°F 1971-2000 avg.	'09	47.4 47.2	59.7 59.5	69.5 69.4	73.7 73.7	71.4 71.5	62.6 62.3	49.4 49.7	61.96 61.90
		DFA	0.2	0.2	0.1	0.0	-0.1	0.3	-0.3	0.06
	Accum. GDDs 1971-2000 avg.	'09	136 135	354 338	504 582	561 733	564 666	424 396	52 194	2595 3044
	DFA*	1	16	-78	-172	-102	28	-142	-449	
Southeast Experiment Station (Test site)	Precip.- inches 1971-2000 avg.	'09	0.96 2.49	1.18 3.6	3.11 3.19	3.4 2.88	2.63 2.21	1.72 2.09	3.68 1.59	16.68 18.05
		DFA	-1.53	-2.42	-0.08	0.52	0.42	-0.37	2.09	-1.37
	Avg.Temp. -°F 1971-2000 avg.	'09	43.7 47.9	58.0 59.7	65.1 69.0	68.0 74.5	67.5 72.7	62.7 62.8	49.5 49.8	59.21 62.34
		DFA	-4.2	-1.7	-3.9	-6.5	-5.2	-0.1	-0.3	-3.13
	Accum. GDDs 1971-2000 avg.	'09	125 148	340 342	457 567	570 740	552 696	426 415	40 190	2510 3098
	DFA*	-23	-2	-110	-170	-144	11	-150	-588	

\* DFA - departure from normal, difference current year is greater or less (-) than the long-term average.

**Table C. 2009 Glyphosate-resistant corn hybrid entries by brand/hybrid, seed product traits, and index to performance table no.(s).**

Brand/Hybrid	Seed Biotech Traits	Table No.(s)
AGSOURCE/ 3P-494+RR/YGPL AGSOURCE/ 3T-096 VT3 AGSOURCE/ 3T-294 VT3 AGSOURCE/ 3T-302 VT3 AGSOURCE/ 3T-603B VT3	Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly	1a, 2a 1a, 2a, 3a 1a, 2a 1b, 2b, 5a 3b, 4b, 5a
AGSOURCE/ 3T-712 VT3 AGSOURCE/ 3T-799 VT3 AGSOURCE/ 3T-904 VT3 AGSOURCE/ 3T-995 VT3 AGSOURCE/ 5B-198 GTCBLL	Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Glu,Gly	6b 1b, 2b, 3a, 4a 3b, 4b, 5a 1a, 2a, 3a 1b, 2b, 3a, 4a
AGSOURCE/ 5X-100A RR/HXT AGSOURCE/ 5X-805 RR/HXT DAIRYLAND/ ST-6992 DAIRYLAND/ ST-7790 DAIRYLAND/ ST-9003	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly Gly Crw*,Glu Cb,Crw,Gly	1b, 2b 3b, 4b, 5a 2a 2a 4b
DAIRYLAND/ ST-9006 DAIRYLAND/ ST-9395 DAIRYLAND/ ST-9500Q DAIRYLAND/ ST-9594 DAIRYLAND/ ST-9597Q	Cb,Crw,Gly Cb,Crw,Gly WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly Cb,Crw,Gly WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	6a 1a, 2a 1b, 4a 1a, 2a 1b, 2b, 4a
DAIRYLAND/ ST-9703Q DAIRYLAND/ ST-9789 DAIRYLAND/ ST-9799 DAIRYLAND/ ST-9810 DAIRYLAND/ ST9206Q	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	4b 2a 1b 6a 6a

**Table C. 2009 Glyphosate-resistant corn hybrid entry index to performance table no. (s). (Continued)**

Brand/Hybrid	Seed Biotech Traits	Table No.(s)
DEKALB/ DKC40-20(VT3)	Cb,Crw,Gly	1a, 2a
DEKALB/ DKC42-72(VT3)	Cb,Crw,Gly	1a, 2a
DEKALB/ DKC43-27(VT3)	Cb,Crw,Gly	1a, 2a, 3a, 4a, 5a
DEKALB/ DKC46-60(VT3)	Cb,Crw,Gly	1b, 2b, 3a, 4a
DEKALB/ DKC48-37(VT3)	Cb,Crw,Gly	2b, 3a
DEKALB/ DKC50-35(VT3)	Cb,Crw,Gly	3a, 5a
DEKALB/ DKC50-44(VT3)	Cb,Crw,Gly	1b, 2b, 4a, 5a
DEKALB/ DKC50-66(VT3)	Cb,Crw,Gly	1b, 2b, 3a, 4a, 5a
DEKALB/ DKC51-13(VT3)	Cb,Crw,Gly	1b, 2b, 3b, 4b, 5a
DEKALB/ DKC52-59(VT3)	Cb,Crw,Gly	1b, 3b, 4b, 5a, 6a
DEKALB/ DKC53-76(VT3)	Cb,Crw,Gly	3b, 4b, 5a, 6a
DEKALB/ DKC55-07(VT3)	Cb,Crw,Gly	3b, 5a, 6a
DEKALB/ DKC57-50(VT3)	Cb,Crw,Gly	6a
DEKALB/ DKC58-16(VT3)	Cb,Crw,Gly	5b
DEKALB/ DKC59-64(VT3)	Cb,Crw,Gly	5b, 6a
DEKALB/ DKC61-69(VT3)	Cb,Crw,Gly	5b, 6b
DEKALB/ DKC62-54(VT3)	Cb,Crw,Gly	6b
EPLEY/ E1115GT	WBcw,Cb,Bcw,Faw,Glu,Gly	2a, 3a, 4a
EPLEY/ E1184VT3	Cb,Crw,Gly	2b, 3a, 4a
EPLEY/ EXP1307HXLLRR	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	2b, 3a, 4a
FOUR/ STAR 6844VT3	Cb,Crw,Gly	6a
FOUR/ STAR EXP6066VT3	Cb,Crw,Gly	6a
FOUR/ STAR EXP9056VT3	Cb,Crw,Gly	6a
FOUR/ STAR EXP9072VT3	Cb,Crw,Gly	6a
G2/ GEN. 3P-595 RR/YGPL	Cb,Crw,Gly	1a, 2a
G2/ GEN. 5H-005 RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	3b, 4b, 5a
G2/ GEN. 5H-007 RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	3b, 4b, 5b, 6a
G2/ GEN. 5H-199 RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	1b, 2b
G2/ GEN. 5H-210 RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	5b, 6a
G2/ GEN. 5H-314 RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	6b
G2/ GEN. 5H-501 RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	1b, 2b, 3a, 4a, 5a
G2/ GEN. 5H-506 RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	3b, 4b, 5a
G2/ GEN. 5H-506A RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	3b, 4b, 5a
G2/ GEN. 5H-511 RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	5b, 6a
G2/ GEN. 5H-511A RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	5b, 6b
G2/ GEN. 5H-797 RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	1b, 2b, 3a
G2/ GEN. 5H-905 RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	3b, 4b, 5a
G2/ GEN. 5H-999 RR/HX	WBcw,Cb,Bcw,Faw,Glu,Gly	1b, 2b, 3a, 4a
G2/ GEN. 5X-199RR/HXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	1b, 2b, 3a, 4a
G2/ GEN. 5X-210 RR/HXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	5b, 6a
G2/ GEN. 5X-398 RR/HXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	1a, 2a, 3a, 4a
G2/ GEN. 5X-513 RR/HXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	6b
G2/ GEN. 5X-594 RR/HXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	1a, 2a
G2/ GEN. 5X-707 RR/HXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	3b, 4b
G2/ GEN. 5X-711 RR/HXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	6a
G2/ GEN. 5X-711A RR/HXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	6b
G2/ GEN. 5X-802 RR/HXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	1b, 2b, 3a, 4a, 5a
G2/ GEN. 5X-911 RR/HXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	5b, 6a
G2/ GEN. 5X-911A RR/HXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	6b
HEINE/ 727VT3	Cb,Crw,Gly	4b
HEINE/ 742VT3	Cb,Crw,Gly	4b
HEINE/ 744RRYGCB	Cb,Gly	4b
HEINE/ 745VT3	Cb,Crw,Gly	4b
HEINE/ 753VT3	Cb,Crw,Gly	4b
HOEGEMEYER/ 3113	Cb,Crw,Gly	3a, 4a
HOEGEMEYER/ 7421	Cb,Glu,Gly	5a
HOEGEMEYER/ 7445	Cb,Crw,Gly	5a
HOEGEMEYER/ HPT 6962	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	4a
HOEGEMEYER/ HPT 7757	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	5a, 6a
HOEGEMEYER/ HPTXP6589	WBcw,Cb,Bcw,Faw,Glu,Gly	3a
HOEGEMEYER/ HPTXP7041	WBcw,Cb,Bcw,Faw,Glu,Gly	3a
HOEGEMEYER/ HPTXP7408	WBcw,Cb,Bcw,Faw,Glu,Gly	5a
KALTENBERG/ 5355LLGTBT11	Cb,Glu,Gly	5a
KALTENBERG/ 5588LLRRHXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	5a
KALTENBERG/ K4053VT3	Cb,Crw,Gly	4a

**Table C. 2009 Glyphosate-resistant corn hybrid entry index to performance table no. (s). (Continued)**

Brand/Hybrid	Seed Biotech Traits	Table No.(s)
KALTENBERG/ K4149LLGT3	Cb,Crw,Gly	4a
KALTENBERG/ K4521LLRRHXT	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	4a
KALTENBERG/ K5163VT3	Cb,Crw,Gly	5a
KALTENBERG/ K5332GT	Gly	5a
KALTENBERG/ K6645LLGT3	Cb,Crw*,Glu,Gly	6a
KALTENBERG/ K6663VT3	Cb,Crw,Gly	6a
KRUGER/ 6006VT3	Cb,Crw,Gly	3b, 4b, 5b
KRUGER/ 6010VT3	Cb,Crw,Gly	5b, 6a
KRUGER/ 6013VT3	Cb,Crw,Gly	6b
KRUGER/ 6093VT3	Cb,Crw,Gly	1a, 2a
KRUGER/ 6097VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a
KRUGER/ 6102VT3	Cb,Crw,Gly	1b, 2b, 3b, 4b, 5a
KRUGER/ 6116VT3	Cb,Crw,Gly	6b
KRUGER/ 6200VT3	Cb,Crw,Gly	1b, 2b
KRUGER/ 6205VT3	Cb,Crw,Gly	3b, 4b, 5a
KRUGER/ 6208VT3	Cb,Crw,Gly	5b, 6a
KRUGER/ 6213VT3	Cb,Crw,Gly	6b
KRUGER/ 6214VT3	Cb,Crw,Gly	6b
KRUGER/ 6295VT3	Cb,Crw,Gly	1a, 2a
KRUGER/ 6298VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a
KRUGER/ 6401VT3	Cb,Crw,Gly	1b, 2b, 3b, 4b, 5a
KRUGER/ 6408VT3	Cb,Crw,Gly	5b, 6a
KRUGER/ 6410VT3	Cb,Crw,Gly	5b, 6a
KRUGER/ 6411VT3	Cb,Crw,Gly	6b
KRUGER/ 6412VT3	Cb,Crw,Gly	6b
KRUGER/ 6490VT3	Cb,Crw,Gly	1a, 2a
KRUGER/ 6499VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a
KRUGER/ 6606VT3	Cb,Crw,Gly	3b, 4b, 5b
NC+/ 1775VT3	Cb,Crw,Gly	3a, 4a, 5a
NC+/ 1982VT3	Cb,Crw,Gly	3a, 4a, 5a
NC+/ 208-72VT3	Cb,Crw,Gly	5b, 6a
NC+/ 210-57VT3	Cb,Crw,Gly	5b, 6a
NC+/ 4517VT3	Cb,Crw,Gly	6b
NC+/ 4582VT3	Cb,Crw,Gly	5b, 6a
NUTECH/ 3T-098 VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a
NUTECH/ 3T-106 VT3	Cb,Crw,Gly	3b, 4b, 5a, 6a
NUTECH/ 3T-110 VT3	Cb,Crw,Gly	5b, 6a
NUTECH/ 3T-295 VT3	Cb,Crw,Gly	1a, 2a
NUTECH/ 3T-300 VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a
NUTECH/ 3T-308 VT3	Cb,Crw,Gly	3b, 4b, 5b, 6a
NUTECH/ 3T-313 VT3	Cb,Crw,Gly	6b
NUTECH/ 3T-401 VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a, 5a
NUTECH/ 3T-408 VT3	Cb,Crw,Gly	3b, 4b, 5b, 6a
NUTECH/ 3T-409 VT3	Cb,Crw,Gly	5b
NUTECH/ 3T-413 VT3	Cb,Crw,Gly	6b
NUTECH/ 3T-493 VT3	Cb,Crw,Gly	1a, 2a
NUTECH/ 3T-512 VT3	Cb,Crw,Gly	5b, 6a
NUTECH/ 3T-512A VT3	Cb,Crw,Gly	6b
NUTECH/ 3T-600 VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a
NUTECH/ 3T-601 VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a
NUTECH/ 3T-603 VT3	Cb,Crw,Gly	1b, 2b, 3b, 4b, 5a
NUTECH/ 3T-612 VT3	Cb,Crw,Gly	6b
NUTECH/ 3T-706 VT3	Cb,Crw,Gly	3b, 4b, 5a
NUTECH/ 3T-713 VT3	Cb,Crw,Gly	6b
NUTECH/ 3T-801 VT3	Cb,Crw,Gly	1b, 2b, 3a, 4a, 5a
NUTECH/ 3T-894 VT3	Cb,Crw,Gly	1a, 2a
NUTECH/ 5B-804 GT/CB/LL	Cb,Glu,Gly	3b, 4b, 5a
NUTECH/ 5N-909 GTCBLLRW	Cb,Crw*,Glu,Gly	5b, 6a
PIONEER/ 33Z74	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	6b
PIONEER/ 35F44	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	3b, 4b, 5a, 6a
PIONEER/ 36V53	WBcw,Cb,Bcw,Faw,Glu,Gly	3b, 4b, 5a
PIONEER/ 37K11	WBcw,Cb,Bcw,Faw,Glu,Gly	1b, 3a
PIONEER/ 37N68	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	1b, 4b
PIONEER/ 38H08	WBcw,Cb,Bcw,Faw,Glu,Gly	1a, 2a
PIONEER/ 38P43	WBcw,Cb,Bcw,Faw,Crw*,Glu,Gly	2a



**Table C. 2009 Glyphosate-resistant corn hybrid entry index to performance table no. (s). (Continued)**

Brand/Hybrid	Seed Biotech Traits [1]	Table No.(s)
PROSEED/ 794 PROSEED/ 8100 PROSEED/ 8101VT3 PROSEED/ 8104 PROSEED/ 894	Cb,Glu,Gly Gly Cb,Crw,Gly Cb,Glu,Gly Cb,Crw,Gly	1a, 2a 4a 5a, 6a 6a 1a, 2a
PROSEED/ 896 PROSEED/ 897 PROSEED/ 9102 PROSEED/ 9105 RENK/ EXP7-816VT3	Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly	1b, 2b 1b, 2b, 3a, 4a 5a, 6a 5a, 6a 6b
RENK/ EXP8-809VT3 RENK/ RK670VT3 RENK/ RK698VT3 RENK/ RK711RRHXTRA RENK/ RK744VT3	Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly WBCw,Cb,Bcw,Faw,Crw*,Glu,Gly Cb,Crw,Gly	6b 3b, 4b, 5a, 6a 3b, 4b, 5a, 6a 5b, 6a 5b, 6a
RENK/ RK760VT3 RENK/ RK822VT3 SEEDS/ 2000 9501VT3 SEEDS/ 2000 9502VT3 SEEDS/ 2000 9901VT3	Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly	4b, 5b, 6a 5b, 6a 1a, 2a 1a, 2a 1b, 2b, 3a, 4a
WENSMAN/ W 7195VT3 WENSMAN/ W 7267VT3 WENSMAN/ W 7270VT3 WENSMAN/ W 7273VT3 WENSMAN/ W 7289VT3	Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly	1a, 2a 4a 1b, 2b, 3a, 4a 1b, 2b 3a
WENSMAN/ W 7360VT3 WENSMAN/ W 7433VT3 WENSMAN/ W 7455VT3 WENSMAN/ W 7469VT3 WENSMAN/ W 8180	Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly Cb,Crw,Gly	3b, 4b, 5a 5a 3b, 4b, 5b, 6a 5b, 6a 1a, 2a

[1] Crw\* includes Western, Northern, and Mexican Corn rootworm.

Insect traits - Black cutworm (Bcw), Corn borer (Cb), corn rootworm (Crw), Mexican Corn rootworm (MCrw), Northern Corn rootworm (NCrw), Western Corn rootworm (WCrw), Fall Armyworm (Faw), and Western Bean cutworm (WBCw)

Herbicide traits - Glyphosate tolerance (Gly), Glufosinate tolerance (Glu).

NOTE: Biotech traits were obtained by referencing the product registrant trade name and seed characteristics as listed in the Know Before You Grow section at the National Corn Growers Website (<http://www.ncga.com/>) with the hybrid information supplied by each seed company. Since these biotech seed products change over time, growers are encouraged to verify the biotech traits of any hybrid (s) of interest with the respective seed dealer.

**Table D. Explanation of performance table footnotes**

No.	Explanation of footnotes
[1]	Entries are listed by brand/variety – entries are sorted by 2-yr then by 2009 yield average.
[2]	Brand Relative Maturity (Rel. Mat.) – the relative maturity rating as reported by the seed company.
[3]	Lodging Percentage – percentage of stalks broken below the ear at harvest.
[4]	Final Stand Percentage – the number of standing stalks at harvest as a percentage of the seeded population.
[5]	Least Significant Difference (LSD 0.05) – the difference any two values within a column must equal or exceed to be significantly different (0.05 level of probability). If the difference is less than the LSD value, the difference is nonsignificant (NS).
[6]	Min. TPG-avg. – the minimum column value for yield, bushel weight, and final stand percentage that a hybrid must equal or exceed to be in the TPG.
[7]	Max. TPG-avg. – the maximum column value for grain moisture at harvest, lodging percentage, or lodging score that a hybrid must equal or be less than to be in the TPG.
[8]	Coefficient of variation (C.V.) – the percent of experimental error associated with a test trial. Ideally, the CV value for yield is less than 15%. Values less than 5% are less common, while values of 6-15% are more common. If a value exceeds 15%, the trial contained too much experimental error to be valid, so results for that trial are not reported.

**Table E. Mailing addresses for seed entries in the 2009 corn hybrid trials by seed brand name**

<b>Seed Brand</b>	<b>Seed Company Mailing Address</b>
AgSource Dairyland Dekalb	AgSource Seeds Inc., 1800 L Ave., Nevada, IA 50201 Dairyland Seed, PO Box 958, West Bend, WI 53095 Monsanto, 102 W. Carol Ave., Cortland, IL 60112
Epley Bros. Four Star G-2 Genetics	Epley Bros. Hybrids Inc., PO Box 310, Shell Rock, IA 50670 Four Star Seed Co., 2929-335th Street, Logan, IA 51546 G-2 Genetics, 415 S. Duff Avenue, Suite C, Ames, IA 50010
Heine Hoegemeyer Kaltenberg	Heine Hybrid Seed Corn, 1020 E. 320th St., Vermillion, SD 57069 Hoegemeyer Hybrids, 1755 Hoegemeyer Road, Hooper, NE 68031 Kaltenberg Seeds, 5506 State Road 19, Box 278, Waunakee, WI 53597
Kruger NC+ NuTech	Kruger Seed Co., Box A, Dike, IA 50624 NC+, 525 South 211th Street, Elkhorn, NE 68022 Nutech Seed, LLC, 415 S. Duff Avenue, Suite C, Ames, IA 50010
Pioneer Proseed Renk	Pioneer Hi-Bred International, 151 Saint Andrews Court, Mankato, MN 56001 Proseed, 701 E. Brewster St., Harvey, ND 58341 Renk Seed Co., 6809 Wilburn Rd., Sun Prairie, WI 53590
Seeds 2000 Wensman	Seeds 2000, PO Box 200, Breckenridge, MN 56520 Wensman Seed Co., 67784 330th Street, Watkins, MN 55389

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**Table 1a. Warner early maturity Roundup Ready corn hybrid test results, 2008-09, Allen & Inel Ryckman Farm. Seeded May 7, 2009 at 28,750 seeds per acre.**

Brand/Hybrid & Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2009 Averages			
		2-Yr bu/a	2009 bu/a	Bu. Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
SEEDS/ 2000 9501VT3 + Poncho 1250	95	<b>217</b>	<b>245</b>	52	<b>19</b>	<b>0</b>	<b>98</b>
DAIRYLAND/ ST-9594 + Poncho 250	94	<b>214</b>	<b>246</b>	<b>54</b>	<b>19</b>	<b>0</b>	<b>97</b>
PIONEER/ 38H08 + Poncho 250	92	<b>209</b>	225	50	17	<b>0</b>	<b>95</b>
AGSOURCE/ 3T-995 VT3 + Cruiser 250	95	<b>207</b>	225	52	21	<b>0</b>	<b>98</b>
KRUGER/ 6093VT3 + Cruiser 250	93	<b>206</b>	233	<b>53</b>	21	<b>0</b>	<b>99</b>
DEKALB/ DKC43-27(VT3) + Poncho 250	93	<b>206</b>	220	<b>54</b>	20	<b>1</b>	93
PROSEED/ 794 + Poncho 250	94	.	<b>247</b>	52	22	<b>0</b>	<b>95</b>
DAIRYLAND/ ST-9395 + Poncho 250	95	.	<b>245</b>	52	20	<b>0</b>	<b>97</b>
NUTECH/ 3T-295 VT3 + Poncho 250	95	.	<b>244</b>	<b>54</b>	23	<b>0</b>	<b>96</b>
AGSOURCE/ 3P-494+RR/YGPL + Cruiser 250	94	.	<b>242</b>	52	20	<b>0</b>	<b>99</b>
PROSEED/ 894 + Poncho 250	94	.	<b>240</b>	51	20	<b>0</b>	<b>95</b>
KRUGER/ 6295VT3 + Cruiser 250	95	.	<b>236</b>	<b>53</b>	21	<b>0</b>	<b>95</b>
DEKALB/ DKC42-72(VT3) + Poncho 250	92	.	232	<b>54</b>	<b>19</b>	<b>0</b>	<b>97</b>
WENSMAN/ W 7195VT3 + Poncho 250	95	.	232	52	22	<b>0</b>	<b>97</b>
SEEDS/ 2000 9502VT3 + Poncho 1250	95	.	232	<b>53</b>	21	<b>0</b>	89
G2/ GEN. 5X-398 RR/HXT + Cruiser 250	95	.	230	51	24	<b>0</b>	93
NUTECH/ 3T-493 VT3 + Poncho 250	93	.	229	50	21	<b>1</b>	86
DEKALB/ DKC40-20(VT3) + Poncho 250	90	.	226	<b>53</b>	20	<b>0</b>	<b>95</b>
WENSMAN/ W 8180 + Poncho 250	95	.	226	<b>53</b>	23	<b>0</b>	<b>96</b>
G2/ GEN. 5X-594 RR/HXT + Cruiser 250	94	.	225	49	21	<b>0</b>	92
NUTECH/ 3T-894 VT3 + Poncho 250	94	.	224	<b>54</b>	20	<b>0</b>	<b>95</b>
AGSOURCE/ 3T-096 VT3 + Cruiser 250	95	.	215	<b>54</b>	22	<b>1</b>	<b>97</b>
G2/ GEN. 3P-595 RR/YGPL + Cruiser 250	95	.	212	52	22	<b>0</b>	83
KRUGER/ 6490VT3 + Cruiser 250	90	.	208	<b>54</b>	<b>18</b>	<b>0</b>	<b>95</b>
AGSOURCE/ 3T-294 VT3 + Poncho 250	94	.	208	<b>54</b>	21	<b>0</b>	88
Trial avg.:	94	210	230	52	21	0	94
High avg.:	95	217	247	54	24	1	99
Low avg.:	90	206	208	49	17	0	83
[5] LSD(.05):		NS	13	1	2	NS	5
[6] Min.TPG value:		206	234	53	.	.	94
[7] Max.TPG value:		.	.	.	19	1	.
[8] Coef. of var.:		4	3	2	6	372	3
No. entries:	25	6	25	25	25	25	25

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2009 yield average.

\* Values in **bold type** within a column are included in the top-performance group.

Note that additional table footnotes are explained in table D.

**Table 1b. Warner late maturity Roundup Ready corn hybrid test results, 2008-09, Allen & Inel Ryckman Farm.  
Seeded May 7, 2009 at 28,750 seeds per acre.**

Brand/Hybrid & Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2009 Averages			
		2-Yr bu/a	2009 bu/a	Bu. Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
KRUGER/ 6401VT3 + Cruiser 250	101	<b>230</b>	<b>242</b>	<b>53</b>	24	<b>0</b>	<b>95</b>
DEKALB/ DKC52-59(VT3) + Poncho 250	102	<b>223</b>	<b>241</b>	50	23	<b>0</b>	<b>95</b>
SEEDS/ 2000 9901VT3 + Poncho 250	99	<b>223</b>	<b>236</b>	<b>53</b>	23	<b>0</b>	<b>95</b>
KRUGER/ 6499VT3 + Cruiser 250	99	<b>222</b>	<b>243</b>	51	24	<b>0</b>	<b>97</b>
DEKALB/ DKC50-44(VT3) + Poncho 250	100	<b>222</b>	<b>237</b>	<b>54</b>	23	<b>0</b>	93
NUTECH/ 3T-098 VT3 + Cruiser 250	98	<b>221</b>	<b>247</b>	51	23	<b>0</b>	<b>95</b>
WENSMAN/ W 7273VT3 + Poncho 250	98	<b>221</b>	<b>243</b>	52	23	<b>0</b>	<b>95</b>
G2/ GEN. 5H-797 RR/HX + Cruiser 250	96	<b>221</b>	<b>241</b>	51	21	<b>0</b>	<b>97</b>
KRUGER/ 6097VT3 + Cruiser 250	97	<b>220</b>	<b>237</b>	50	23	<b>1</b>	94
KRUGER/ 6102VT3 + Cruiser 250	102	<b>219</b>	234	<b>53</b>	22	<b>0</b>	93
KRUGER/ 6298VT3 + Cruiser 250	98	<b>213</b>	<b>236</b>	<b>53</b>	20	<b>0</b>	<b>99</b>
DEKALB/ DKC46-60(VT3) + Poncho 250	96	<b>213</b>	227	<b>53</b>	20	<b>0</b>	<b>95</b>
DAIRYLAND/ ST-9799 + Poncho 250	99	<b>210</b>	231	50	24	<b>0</b>	94
G2/ GEN. 5H-199 RR/HX + Cruiser 250	99	.	<b>243</b>	51	21	<b>0</b>	93
NUTECH/ 3T-601 VT3 + Poncho 250	100	.	<b>240</b>	<b>53</b>	23	<b>0</b>	<b>96</b>
G2/ GEN. 5H-501 RR/HX + Cruiser 250	100	.	<b>240</b>	52	23	<b>0</b>	<b>95</b>
G2/ GEN. 5X-199RR/HXT + Cruiser 250	99	.	<b>235</b>	52	23	<b>1</b>	<b>97</b>
WENSMAN/ W 7270VT3 + Poncho 250	97	.	<b>235</b>	<b>53</b>	20	<b>0</b>	94
DEKALB/ DKC50-66(VT3) + Poncho 250	100	.	234	<b>53</b>	20	<b>1</b>	<b>96</b>
NUTECH/ 3T-801 VT3 + Poncho 250	100	.	234	50	24	<b>0</b>	90
G2/ GEN. 5H-999 RR/HX + Cruiser 250	99	.	234	<b>54</b>	22	<b>0</b>	92
PIONEER/ 37K11 + Poncho 250	99	.	233	49	22	<b>0</b>	<b>95</b>
NUTECH/ 3T-401 VT3 + Cruiser 250	100	.	233	52	24	<b>0</b>	<b>96</b>
NUTECH/ 3T-300 VT3 + Cruiser 250	100	.	231	52	24	<b>0</b>	<b>95</b>
KRUGER/ 6200VT3 + Cruiser 250	100	.	231	52	<b>18</b>	<b>0</b>	<b>95</b>
PROSEED/ 897 + Poncho 250	97	.	229	<b>54</b>	21	<b>0</b>	92
NUTECH/ 3T-600 VT3 + Poncho 250	100	.	229	52	24	<b>1</b>	89
G2/ GEN. 5X-802 RR/HXT + Cruiser 250	100	.	228	51	24	<b>0</b>	<b>98</b>
AGSOURCE/ 5B-198 GTCBLL + Poncho 250	100	.	225	52	24	<b>0</b>	83
PROSEED/ 896 + Poncho 250	96	.	222	<b>53</b>	23	<b>0</b>	90
PIONEER/ 37N68 + Poncho 250	101	.	222	51	24	<b>1</b>	93
AGSOURCE/ 3T-799 VT3 + Cruiser 250	99	.	219	50	24	<b>0</b>	88
AGSOURCE/ 3T-302 VT3 + Cruiser 250	102	.	219	51	25	<b>0</b>	90
DAIRYLAND/ ST-9597Q + Cruiser 250	97	.	218	50	24	<b>0</b>	91
NUTECH/ 3T-603 VT3 + Cruiser 250	103	.	218	51	24	<b>0</b>	92
AGSOURCE/ 5X-100A RR/HXT + Poncho 250	100	.	216	48	25	<b>0</b>	92
DEKALB/ DKC51-13(VT3) + Poncho 250	101	.	207	51	23	<b>0</b>	93
DAIRYLAND/ ST-9500Q + Cruiser 250	99	.	207	51	24	<b>0</b>	91
Trial avg.:	99	220	231	52	23	0	94
High avg.:	103	230	247	54	25	1	99
Low avg.:	96	210	207	48	18	0	83
[5] LSD(.05):		NS	12	1	1	NS	4
[6] Min.TPG value:		210	235	53	.	.	95
[7] Max.TPG value:		.	.	.	19	1	.
[8] Coef. of var.:		4	3	2	4	482	2
No. entries:	38	13	38	38	38	38	38

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2009 yield average.

\* Values in **bold type** within a column are included in the top-performance group.

Note that additional table footnotes are explained in table D.

**Table 2a. South Shore early maturity Roundup Ready corn hybrid test results, 2008-09, Northeast Research Farm. Seeded May 7, 2009 at 28,750 seeds per acre.**

Brand/Hybrid & Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2009 Averages			
		2-Yr bu/a	2009 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
DEKALB/ DKC43-27(VT3) + Poncho 250	93	<b>202</b>	<b>212</b>	<b>52</b>	20	<b>0</b>	<b>95</b>
AGSOURCE/ 3T-995 VT3 + Cruiser 250	95	<b>199</b>	<b>206</b>	49	20	<b>0</b>	<b>96</b>
KRUGER/ 6093VT3 + Cruiser 250	93	<b>185</b>	201	50	22	<b>0</b>	<b>98</b>
PIONEER/ 38H08 + Poncho 250	92	<b>184</b>	195	47	<b>18</b>	<b>0</b>	94
SEEDS/ 2000 9501VT3 + Poncho 1250	95	<b>178</b>	204	48	19	<b>0</b>	<b>99</b>
DAIRYLAND/ ST-9594 + Poncho 250	94	<b>176</b>	<b>213</b>	51	<b>16</b>	<b>0</b>	<b>95</b>
DAIRYLAND/ ST-6992 + Poncho 250	92	.	<b>216</b>	51	20	<b>1</b>	<b>95</b>
KRUGER/ 6295VT3 + Cruiser 250	95	.	<b>215</b>	49	19	<b>0</b>	<b>99</b>
DEKALB/ DKC42-72(VT3) + Poncho 250	92	.	<b>212</b>	51	20	<b>0</b>	<b>96</b>
DAIRYLAND/ ST-9395 + Poncho 250	95	.	<b>212</b>	49	19	<b>0</b>	<b>95</b>
DAIRYLAND/ ST-9789 + Poncho 250	89	.	<b>210</b>	51	<b>18</b>	<b>1</b>	<b>99</b>
NUTECH/ 3T-493 VT3 + Poncho 250	93	.	<b>207</b>	49	<b>17</b>	<b>0</b>	92
NUTECH/ 3T-295 VT3 + Poncho 250	95	.	<b>207</b>	50	23	<b>0</b>	94
AGSOURCE/ 3T-294 VT3 + Poncho 250	94	.	<b>207</b>	51	19	<b>0</b>	93
WENSMAN/ W 8180 + Poncho 250	95	.	<b>206</b>	51	22	<b>0</b>	94
PROSEED/ 894 + Poncho 250	94	.	<b>205</b>	49	21	<b>1</b>	<b>95</b>
NUTECH/ 3T-894 VT3 + Poncho 250	94	.	<b>205</b>	49	20	<b>0</b>	<b>96</b>
DEKALB/ DKC40-20(VT3) + Poncho 250	90	.	204	51	21	<b>0</b>	94
KRUGER/ 6490VT3 + Cruiser 250	90	.	203	<b>53</b>	19	<b>0</b>	<b>99</b>
SEEDS/ 2000 9502VT3 + Poncho 1250	95	.	203	50	20	<b>0</b>	93
DAIRYLAND/ ST-7790 + Cruiser 250	90	.	202	51	21	<b>0</b>	93
WENSMAN/ W 7195VT3 + Poncho 250	95	.	198	49	23	<b>0</b>	<b>95</b>
AGSOURCE/ 3P-494+RR/YGPL + Cruiser 250	94	.	193	49	22	<b>0</b>	<b>97</b>
AGSOURCE/ 3T-096 VT3 + Cruiser 250	95	.	191	50	23	<b>0</b>	92
G2/ GEN. 3P-595 RR/YGPL + Cruiser 250	95	.	189	49	23	<b>0</b>	<b>99</b>
PROSEED/ 794 + Poncho 250	94	.	187	47	20	<b>0</b>	<b>99</b>
G2/ GEN. 5X-594 RR/HXT + Cruiser 250	94	.	182	45	21	<b>0</b>	<b>95</b>
G2/ GEN. 5X-398 RR/HXT + Cruiser 250	95	.	173	47	24	<b>0</b>	<b>95</b>
PIONEER/ 38P43 + Poncho 250	95	.	171	51	22	<b>0</b>	<b>95</b>
EPLEY/ E1115GT + Not reported	93	.	159	50	22	<b>0</b>	<b>95</b>
Trial avg.:		187	200	50	20	0	96
High avg.:		202	216	53	24	1	99
Low avg.:	94	176	159	45	16	0	92
[5] LSD(.05):	95	NS	11	1	2	NS	4
[6] Min.TPG value:	89	176	205	52	.	.	95
[7] Max.TPG value:	30	.	.	.	18	1	.
[8] Coef. of var.:		6	3	2	5	557	3
No. entries:		6	30	30	30	30	30

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2009 yield average.

\* Values in **bold type** within a column are included in the top-performance group.

Note that additional table footnotes are explained in table D.

**Table 2b. South Shore late maturity Roundup Ready corn hybrid test results, 2008-09, Northeast Research Farm.  
Seeded May 7, 2009 at 28,750 seeds per acre.**

Brand/Hybrid & Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2009 Averages			
		2-Yr bu/a	2009 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
KRUGER/ 6102VT3 + Cruiser 250	102	<b>199</b>	<b>209</b>	48	25	<b>0</b>	<b>93</b>
DEKALB/ DKC48-37(VT3) + Poncho 250	98	<b>196</b>	<b>209</b>	<b>50</b>	<b>20</b>	<b>0</b>	<b>93</b>
DEKALB/ DKC46-60(VT3) + Poncho 250	96	<b>196</b>	200	48	<b>21</b>	<b>0</b>	<b>97</b>
DEKALB/ DKC50-44(VT3) + Poncho 250	100	<b>194</b>	<b>208</b>	47	25	<b>1</b>	92
KRUGER/ 6298VT3 + Cruiser 250	98	<b>190</b>	197	48	24	<b>0</b>	<b>96</b>
SEEDS/ 2000 9901VT3 + Poncho 250	99	<b>187</b>	195	<b>49</b>	24	<b>0</b>	92
KRUGER/ 6097VT3 + Cruiser 250	97	<b>182</b>	<b>215</b>	46	27	<b>0</b>	<b>97</b>
WENSMAN/ W 7273VT3 + Poncho 250	98	<b>182</b>	181	47	31	<b>0</b>	<b>94</b>
KRUGER/ 6401VT3 + Cruiser 250	101	<b>181</b>	195	<b>50</b>	27	<b>0</b>	<b>96</b>
G2/ GEN. 5H-797 RR/HX + Cruiser 250	96	<b>179</b>	196	45	24	<b>0</b>	<b>94</b>
NUTECH/ 3T-098 VT3 + Cruiser 250	98	169	188	46	29	<b>0</b>	<b>96</b>
KRUGER/ 6499VT3 + Cruiser 250	99	164	186	47	29	<b>0</b>	<b>95</b>
G2/ GEN. 5H-999 RR/HX + Cruiser 250	99	.	<b>217</b>	48	23	<b>1</b>	<b>94</b>
DEKALB/ DKC50-66(VT3) + Poncho 250	100	.	<b>214</b>	<b>49</b>	<b>22</b>	<b>0</b>	<b>94</b>
KRUGER/ 6200VT3 + Cruiser 250	100	.	<b>213</b>	<b>49</b>	<b>21</b>	<b>0</b>	<b>94</b>
EPLEY/ E1184VT3 + Cruiser 250	96	.	<b>208</b>	48	<b>21</b>	<b>0</b>	<b>94</b>
G2/ GEN. 5H-501 RR/HX + Cruiser 250	100	.	203	47	24	<b>0</b>	92
G2/ GEN. 5X-199RR/HXT + Cruiser 250	99	.	199	47	25	<b>0</b>	91
PROSEED/ 896 + Poncho 250	96	.	198	<b>49</b>	25	<b>0</b>	91
NUTECH/ 3T-601 VT3 + Poncho 250	100	.	198	48	24	<b>0</b>	96
PROSEED/ 897 + Poncho 250	97	.	197	47	26	<b>1</b>	91
G2/ GEN. 5H-199 RR/HX + Cruiser 250	99	.	197	47	23	<b>0</b>	90
WENSMAN/ W 7270VT3 + Poncho 250	97	.	196	47	25	<b>0</b>	<b>95</b>
NUTECH/ 3T-401 VT3 + Cruiser 250	100	.	193	46	29	<b>0</b>	<b>93</b>
DAIRYLAND/ ST-9597Q + Cruiser 250	97	.	192	<b>49</b>	24	<b>0</b>	92
DEKALB/ DKC51-13(VT3) + Poncho 250	101	.	189	47	26	<b>0</b>	<b>94</b>
NUTECH/ 3T-300 VT3 + Cruiser 250	100	.	184	46	31	<b>0</b>	<b>94</b>
AGSOURCE/ 5B-198 GTCBLL + Poncho 250	100	.	182	47	29	<b>0</b>	84
G2/ GEN. 5X-802 RR/HXT + Cruiser 250	100	.	180	46	26	<b>0</b>	<b>97</b>
NUTECH/ 3T-600 VT3 + Poncho 250	100	.	179	47	25	<b>1</b>	87
AGSOURCE/ 3T-799 VT3 + Cruiser 250	99	.	173	48	29	<b>0</b>	88
NUTECH/ 3T-603 VT3 + Cruiser 250	103	.	168	48	25	<b>0</b>	87
AGSOURCE/ 5X-100A RR/HXT + Poncho 250	100	.	165	48	31	<b>0</b>	<b>94</b>
AGSOURCE/ 3T-302 VT3 + Cruiser 250	102	.	165	48	35	<b>0</b>	<b>95</b>
EPLEY/ EXP1307HXLLRR + Cruiser 250	100	.	162	46	30	<b>0</b>	91
NUTECH/ 3T-801 VT3 + Poncho 250	100	.	154	45	34	<b>0</b>	91
Trial avg.:	99	185	192	47	26	0	93
High avg.:	103	199	217	50	35	1	97
Low avg.:	96	164	154	45	20	0	92
[5] LSD(.05):		28	13	1	2	NS	4
[6] Min.TPG value:		171	204	49	.	.	93
[7] Max.TPG value:		.	.	.	22	1	.
[8] Coef. of var.:		5	4	2	5	420	3
No. entries:	36	12	36	36	36	36	36

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2009 yield average.

\* Values in **bold type** within a column are included in the top-performance group.

Note that additional table footnotes are explained in table D.

**Table 3a. Bancroft early maturity glyphosate-resistant corn hybrid test results, 2009-09, E. Weerts Farm Inc.  
Seeded May 21, 2009 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2009 Averages			
		2-Yr bu/a	2009 bu/a	Bu. Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
DEKALB/ DKC46-60(VT3) + Poncho 250	96	<b>199</b>	<b>200</b>	<b>51</b>	21	<b>1</b>	<b>94</b>
DEKALB/ DKC48-37(VT3) + Poncho 250	98	<b>196</b>	<b>196</b>	<b>52</b>	<b>20</b>	<b>0</b>	<b>93</b>
DEKALB/ DKC43-27(VT3) + Poncho 250	93	<b>195</b>	<b>194</b>	<b>51</b>	21	<b>0</b>	89
WENSMAN/ W 7289VT3 + Poncho 250	99	<b>195</b>	179	48	24	<b>0</b>	<b>91</b>
NC+/ 1982VT3 + Cruiser 250	99	<b>193</b>	<b>186</b>	47	25	<b>0</b>	<b>94</b>
KRUGER/ 6298VT3 + Cruiser 250	98	<b>189</b>	<b>186</b>	49	23	<b>0</b>	<b>92</b>
G2/ GEN. 5H-797 RR/HX + Cruiser 250	96	<b>189</b>	<b>184</b>	48	23	<b>0</b>	87
NC+/ 1775VT3 + Cruiser 250	97	<b>189</b>	174	49	25	<b>1</b>	89
NUTECH/ 3T-098 VT3 + Cruiser 250	98	<b>186</b>	<b>183</b>	49	26	<b>0</b>	<b>92</b>
KRUGER/ 6097VT3 + Cruiser 250	97	<b>186</b>	175	47	25	<b>0</b>	<b>92</b>
KRUGER/ 6499VT3 + Cruiser 250	99	<b>180</b>	168	48	27	<b>1</b>	<b>95</b>
SEEDS/ 2000 9901VT3 + Poncho 250	99	175	160	49	24	<b>1</b>	82
EPLEY/ E1184VT3 + Cruiser 250	96	.	<b>201</b>	48	<b>18</b>	<b>0</b>	<b>92</b>
G2/ GEN. 5X-199RR/HXT + Cruiser 250	99	.	<b>193</b>	47	24	<b>0</b>	90
HOEGEMEYER/ 3113 + Poncho 250	95	.	<b>193</b>	51	21	<b>0</b>	<b>92</b>
AGSOURCE/ 3T-995 VT3 + Cruiser 250	95	.	<b>192</b>	48	21	<b>0</b>	90
HOEGEMEYER/ HPTXP6589 + Cruiser 250	95	.	<b>191</b>	47	23	<b>0</b>	<b>94</b>
PROSEED/ 897 + Poncho 250	97	.	<b>190</b>	50	22	<b>0</b>	<b>92</b>
WENSMAN/ W 7270VT3 + Poncho 250	97	.	<b>190</b>	48	24	<b>0</b>	<b>94</b>
DEKALB/ DKC50-66(VT3) + Poncho 250	100	.	<b>187</b>	49	22	<b>1</b>	<b>95</b>
DEKALB/ DKC50-35(VT3) + Poncho 250	100	.	182	49	26	<b>0</b>	<b>92</b>
PIONEER/ 37K11 + Poncho 250	99	.	182	47	22	<b>0</b>	<b>91</b>
AGSOURCE/ 3T-799 VT3 + Cruiser 250	99	.	180	48	27	<b>1</b>	<b>95</b>
NUTECH/ 3T-300 VT3 + Cruiser 250	100	.	177	48	27	<b>0</b>	<b>93</b>
G2/ GEN. 5H-501 RR/HX + Cruiser 250	100	.	177	49	26	<b>0</b>	88
G2/ GEN. 5H-999 RR/HX + Cruiser 250	99	.	175	50	24	<b>0</b>	87
G2/ GEN. 5X-398 RR/HXT + Cruiser 250	95	.	174	47	26	<b>0</b>	<b>94</b>
NUTECH/ 3T-401 VT3 + Cruiser 250	100	.	173	50	26	<b>0</b>	<b>91</b>
EPLEY/ E1115GT + Not reported	93	.	171	<b>51</b>	23	<b>1</b>	88
AGSOURCE/ 3T-096 VT3 + Cruiser 250	95	.	171	50	24	<b>2</b>	<b>92</b>
KRUGER/ 6200VT3 + Cruiser 250	100	.	170	50	21	<b>0</b>	89
NUTECH/ 3T-801 VT3 + Poncho 250	100	.	169	48	32	<b>0</b>	<b>93</b>
EPLEY/ EXP1307HXLLRR + Cruiser 250	100	.	168	47	28	<b>0</b>	<b>94</b>
HOEGEMEYER/ HPTXP7041 + Cruiser 250	100	.	165	48	26	<b>0</b>	<b>94</b>
NUTECH/ 3T-600 VT3 + Poncho 250	100	.	164	48	24	<b>0</b>	78
AGSOURCE/ 5B-198 GTCBLL + Poncho 250	100	.	161	48	28	<b>0</b>	75
G2/ GEN. 5X-802 RR/HXT + Cruiser 250	100	.	153	47	25	<b>0</b>	<b>94</b>
NUTECH/ 3T-601 VT3 + Poncho 250	100	.	151	48	25	<b>0</b>	77
Trial avg.:	98	189	179	49	24	0	90
High avg.:	100	199	201	52	32	2	95
Low avg.:	93	175	151	47	18	0	75
[5] LSD(0.05):		20	18	1	2	NS	4
[6] Min.TPG value:		179	183	51	.	.	91
[7] Max.TPG value:		.	.	.	20	2	.
[8] Coef. of var.:		5	6	2	5	310	3
No. entries:	38	12	38	38	38	38	38

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2009 yield average.

\* Values in **bold type** within a column are included in the top-performance group.

Note that additional table footnotes are explained in table D.

**Table 3b. Bancroft late maturity glyphosate-resistant corn hybrid test results, 2008-09, E. Weerts Farm Inc.  
Seeded May 21, 2009 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2009 Averages			
		2-Yr bu/a	2009 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
WENSMAN/ W 7360VT3 + Poncho 250	103	<b>193</b>	<b>187</b>	<b>48</b>	27	<b>1</b>	88
DEKALB/ DKC52-59(VT3) + Poncho 250	102	<b>190</b>	<b>175</b>	<b>49</b>	<b>25</b>	<b>1</b>	<b>93</b>
PIONEER/ 36V53 + Poncho 250	102	<b>190</b>	<b>174</b>	<b>48</b>	<b>26</b>	<b>0</b>	<b>90</b>
KRUGER/ 6102VT3 + Cruiser 250	102	<b>187</b>	<b>189</b>	<b>47</b>	<b>24</b>	<b>0</b>	<b>90</b>
KRUGER/ 6401VT3 + Cruiser 250	101	<b>186</b>	165	<b>50</b>	29	<b>0</b>	88
KRUGER/ 6606VT3 + Cruiser 250	106	<b>176</b>	161	<b>48</b>	32	<b>1</b>	<b>91</b>
G2/ GEN. 5H-506A RR/HX + Cruiser 250	105	<b>175</b>	149	<b>48</b>	35	<b>0</b>	<b>90</b>
KRUGER/ 6006VT3 + Cruiser 250	106	<b>174</b>	162	<b>50</b>	29	<b>1</b>	<b>91</b>
G2/ GEN. 5H-506 RR/HX + Cruiser 250	105	<b>169</b>	143	<b>48</b>	34	<b>0</b>	85
RENK/ RK670VT3 + Poncho 250	103	<b>168</b>	151	<b>48</b>	31	<b>4</b>	<b>91</b>
NUTECH/ 5B-804 GT/CB/LL + Cruiser 250	104	.	<b>177</b>	<b>48</b>	28	<b>0</b>	<b>93</b>
RENK/ RK698VT3 + Poncho 250	105	.	<b>173</b>	<b>50</b>	27	<b>1</b>	87
DEKALB/ DKC51-13(VT3) + Poncho 250	101	.	<b>169</b>	<b>50</b>	<b>26</b>	<b>1</b>	89
DEKALB/ DKC53-76(VT3) + Poncho 250	103	.	<b>169</b>	<b>48</b>	31	<b>1</b>	89
KRUGER/ 6205VT3 + Cruiser 250	105	.	<b>168</b>	46	33	<b>2</b>	<b>94</b>
AGSOURCE/ 3T-904 VT3 + Poncho 250	104	.	165	<b>48</b>	27	<b>3</b>	84
NUTECH/ 3T-706 VT3 + Poncho 250	105	.	164	<b>49</b>	32	<b>0</b>	<b>90</b>
PIONEER/ 35F44 + Poncho 250	105	.	163	<b>49</b>	30	<b>0</b>	<b>92</b>
NUTECH/ 3T-106 VT3 + Poncho 250	105	.	163	<b>48</b>	35	<b>0</b>	88
NUTECH/ 3T-408 VT3 + Cruiser 250	108	.	162	<b>48</b>	29	<b>1</b>	<b>95</b>
AGSOURCE/ 3T-603B VT3 + Cruiser 250	103	.	162	<b>48</b>	27	<b>2</b>	<b>94</b>
DEKALB/ DKC55-07(VT3) + Poncho 250	105	.	161	<b>48</b>	29	<b>0</b>	79
G2/ GEN. 5H-905 RR/HX + Cruiser 250	105	.	161	<b>47</b>	32	<b>0</b>	<b>91</b>
NUTECH/ 3T-308 VT3 + Poncho 250	108	.	156	<b>50</b>	31	<b>0</b>	89
WENSMAN/ W 7455VT3 + Poncho 250	107	.	151	45	36	<b>0</b>	<b>90</b>
G2/ GEN. 5H-007 RR/HX + Cruiser 250	107	.	148	<b>47</b>	33	<b>1</b>	83
G2/ GEN. 5X-707 RR/HXT + Cruiser 250	107	.	148	<b>50</b>	37	<b>0</b>	81
NUTECH/ 3T-603 VT3 + Cruiser 250	103	.	135	<b>47</b>	28	<b>1</b>	80
AGSOURCE/ 5X-805 RR/HXT + Poncho 250	105	.	134	<b>47</b>	37	<b>2</b>	88
G2/ GEN. 5H-005 RR/HX + Cruiser 250	105	.	132	44	34	<b>1</b>	<b>91</b>
Trial avg.:	105	181	161	48	31	1	89
High avg.:	108	193	189	50	37	4	95
Low avg.:	101	168	132	44	24	0	79
[5] LSD(0.05):		NS	21	3	2	NS	5
[6] Min.TPG value:		168	168	47	.	.	90
[7] Max.TPG value:		.	.	.	26	4	.
[8] Coef. of var.:		6	8	3	5	225	3
No. entries:	30	10	30	30	30	30	30

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2009 yield average.

\* Values in **bold type** within a column are included in the top-performance group.

Note that additional table footnotes are explained in table D.



**Table 4a. Brookings early maturity glyphosate-resistant corn hybrid test results, 2008-09, Plant Science Farm. Seeded May 7, 2009 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2009 Averages			
		2-Yr bu/a	2009 bu/a	Bu. Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
HOEGEMEYER/ 3113 + Poncho 250	95	<b>202</b>	223	<b>52</b>	23	<b>0</b>	91
WENSMAN/ W 7267VT3 + Poncho 250	97	<b>202</b>	222	48	24	<b>0</b>	92
KRUGER/ 6298VT3 + Cruiser 250	98	<b>201</b>	233	<b>51</b>	23	<b>0</b>	<b>97</b>
DEKALB/ DKC46-60(VT3) + Poncho 250	96	<b>197</b>	219	50	<b>22</b>	<b>0</b>	<b>96</b>
DEKALB/ DKC50-44(VT3) + Poncho 250	100	<b>197</b>	219	<b>52</b>	23	<b>0</b>	<b>95</b>
SEEDS/ 2000 9901VT3 + Poncho 250	99	<b>197</b>	219	<b>52</b>	<b>21</b>	<b>0</b>	91
KRUGER/ 6499VT3 + Cruiser 250	99	<b>197</b>	211	50	24	<b>0</b>	<b>97</b>
KRUGER/ 6097VT3 + Cruiser 250	97	<b>196</b>	224	49	<b>20</b>	<b>2</b>	<b>97</b>
NC+/ 1775VT3 + Cruiser 250	97	<b>195</b>	216	49	24	<b>1</b>	<b>96</b>
DEKALB/ DKC43-27(VT3) + Poncho 250	93	<b>195</b>	213	50	<b>20</b>	<b>1</b>	<b>94</b>
NC+/ 1982VT3 + Cruiser 250	99	<b>193</b>	217	47	24	<b>1</b>	<b>96</b>
NUTECH/ 3T-098 VT3 + Cruiser 250	98	<b>191</b>	218	49	23	<b>0</b>	<b>97</b>
G2/ GEN. 5H-501 RR/HX + Cruiser 250	100	.	<b>245</b>	49	24	<b>0</b>	<b>95</b>
NUTECH/ 3T-401 VT3 + Cruiser 250	100	.	<b>243</b>	<b>52</b>	24	<b>0</b>	<b>94</b>
KRUGER/ 6200VT3 + Cruiser 250	100	.	<b>240</b>	<b>52</b>	<b>21</b>	<b>0</b>	<b>95</b>
DEKALB/ DKC50-66(VT3) + Poncho 250	100	.	<b>238</b>	<b>53</b>	<b>21</b>	<b>0</b>	<b>98</b>
G2/ GEN. 5X-199RR/HXT + Cruiser 250	99	.	<b>237</b>	50	24	<b>0</b>	<b>94</b>
NUTECH/ 3T-601 VT3 + Poncho 250	100	.	233	50	23	<b>0</b>	<b>95</b>
WENSMAN/ W 7270VT3 + Poncho 250	97	.	226	<b>52</b>	23	<b>0</b>	<b>96</b>
DAIRYLAND/ ST-9597Q + Cruiser 250	97	.	225	<b>51</b>	23	<b>0</b>	91
G2/ GEN. 5H-999 RR/HX + Cruiser 250	99	.	223	50	23	<b>0</b>	<b>94</b>
AGSOURCE/ 5B-198 GTCBLL + Poncho 250	100	.	223	49	25	<b>0</b>	87
DAIRYLAND/ ST-9500Q + Cruiser 250	99	.	221	50	25	<b>0</b>	91
PROSEED/ 897 + Poncho 250	97	.	220	<b>52</b>	24	<b>0</b>	<b>98</b>
KALTENBERG/ K4053VT3 + Poncho 250	97	.	215	<b>51</b>	24	<b>1</b>	92
EPLEY/ E1184VT3 + Cruiser 250	96	.	214	<b>51</b>	<b>20</b>	<b>0</b>	90
EPLEY/ EXP1307HXLLRR + Cruiser 250	100	.	212	49	25	<b>1</b>	<b>95</b>
NUTECH/ 3T-600 VT3 + Poncho 250	100	.	211	49	24	<b>0</b>	89
KALTENBERG/ K4149LLGT3 + Cruiser 250	98	.	211	50	26	<b>0</b>	92
EPLEY/ E1115GT + Not reported	93	.	210	49	<b>21</b>	<b>0</b>	<b>95</b>
NUTECH/ 3T-300 VT3 + Cruiser 250	100	.	209	49	24	<b>0</b>	92
HOEGEMEYER/ HPT 6962 + Cruiser 250	100	.	209	49	<b>22</b>	<b>1</b>	85
G2/ GEN. 5X-802 RR/HXT + Cruiser 250	100	.	206	48	25	<b>0</b>	<b>98</b>
AGSOURCE/ 3T-799 VT3 + Cruiser 250	99	.	205	48	24	<b>0</b>	92
KALTENBERG/ K4521LLRRHXT + Poncho 250	100	.	203	50	25	3	84
NUTECH/ 3T-801 VT3 + Poncho 250	100	.	201	46	28	<b>0</b>	90
G2/ GEN. 5X-398 RR/HXT + Cruiser 250	95	.	200	50	<b>21</b>	<b>1</b>	<b>95</b>
PROSEED/ 8100 + Poncho 250	100	.	189	49	<b>22</b>	<b>1</b>	80
Trial avg.:	98	197	219	50	23	0	93
High avg.:	100	202	245	53	28	3	98
Low avg.:	93	191	189	46	20	0	80
[5] LSD(0.05):	38	NS	11	2	2	2	4
[6] Min.TPG value:	.	191	234	51	.	.	94
[7] Max.TPG value:	.	.	.	.	22	2	.
[8] Coef. of var.:	.	4	3	2	4	307	2
No. entries:	.	12	38	38	38	38	38

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2009 yield average.

\* Values in **bold type** within a column are included in the top-performance group.

Note that additional table footnotes are explained in table D.

**Table 4b. Brookings late maturity glyphosate-resistant corn hybrid test results, 2008-09, Plant Science Farm.  
Seeded 7 May 2009 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2009 Averages			
		2-Yr bu/a	2009 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
DEKALB/ DKC52-59(VT3) + Poncho 250	102	<b>211</b>	<b>241</b>	49	<b>23</b>	<b>0</b>	94
KRUGER/ 6401VT3 + Cruiser 250	101	<b>209</b>	<b>235</b>	<b>51</b>	<b>23</b>	<b>0</b>	<b>95</b>
PIONEER/ 36V53 + Poncho 250	102	<b>207</b>	225	50	<b>24</b>	<b>0</b>	<b>96</b>
WENSMAN/ W 7360VT3 + Poncho 250	103	<b>206</b>	<b>233</b>	48	27	<b>0</b>	94
RENK/ RK670VT3 + Poncho 250	103	<b>203</b>	228	44	28	<b>0</b>	<b>96</b>
G2/ GEN. 5H-506 RR/HX + Cruiser 250	105	<b>203</b>	212	46	30	<b>0</b>	90
KRUGER/ 6102VT3 + Cruiser 250	102	<b>200</b>	230	<b>53</b>	<b>24</b>	<b>0</b>	<b>96</b>
G2/ GEN. 5H-506A RR/HX + Cruiser 250	105	<b>200</b>	208	48	30	<b>0</b>	88
KRUGER/ 6606VT3 + Cruiser 250	106	<b>197</b>	221	49	27	<b>0</b>	92
DAIRYLAND/ ST-9003 + Poncho 250	103	<b>194</b>	209	47	30	<b>1</b>	92
KRUGER/ 6006VT3 + Cruiser 250	106	<b>183</b>	220	46	29	<b>0</b>	<b>96</b>
HEINE/ 744RRYGCB + Poncho 250	104	.	<b>243</b>	50	<b>23</b>	<b>0</b>	<b>96</b>
HEINE/ 742VT3 + Poncho 250	104	.	<b>241</b>	<b>52</b>	<b>24</b>	<b>0</b>	92
RENK/ RK698VT3 + Poncho 250	105	.	<b>240</b>	<b>51</b>	25	<b>0</b>	<b>97</b>
NUTECH/ 3T-706 VT3 + Poncho 250	105	.	<b>238</b>	47	28	<b>0</b>	93
NUTECH/ 5B-804 GT/CB/LL + Cruiser 250	104	.	<b>234</b>	48	<b>23</b>	<b>0</b>	94
DEKALB/ DKC53-76(VT3) + Poncho 250	103	.	<b>232</b>	49	28	<b>1</b>	94
G2/ GEN. 5H-905 RR/HX + Cruiser 250	105	.	230	47	29	<b>0</b>	92
KRUGER/ 6205VT3 + Cruiser 250	105	.	230	48	29	<b>0</b>	<b>95</b>
AGSOURCE/ 3T-904 VT3 + Poncho 250	104	.	230	47	<b>24</b>	<b>0</b>	89
PIONEER/ 35F44 + Poncho 250	105	.	228	50	26	<b>0</b>	<b>95</b>
WENSMAN/ W 7455VT3 + Poncho 250	107	.	228	46	31	<b>0</b>	<b>96</b>
NUTECH/ 3T-408 VT3 + Cruiser 250	108	.	227	48	27	<b>0</b>	<b>95</b>
HEINE/ 745VT3 + Poncho 250	104	.	227	<b>51</b>	<b>22</b>	<b>0</b>	94
HEINE/ 727VT3 + Poncho 250	102	.	225	49	27	<b>0</b>	94
DEKALB/ DKC51-13(VT3) + Poncho 250	101	.	223	47	25	<b>0</b>	<b>96</b>
G2/ GEN. 5X-707 RR/HXT + Cruiser 250	107	.	220	46	34	<b>0</b>	93
DAIRYLAND/ ST-9703Q + Cruiser 250	103	.	219	49	26	<b>0</b>	93
NUTECH/ 3T-106 VT3 + Poncho 250	105	.	219	47	29	<b>0</b>	94
RENK/ RK760VT3 + Poncho 250	106	.	219	48	28	<b>0</b>	87
PIONEER/ 37N68 + Poncho 250	101	.	217	49	25	<b>0</b>	<b>96</b>
HEINE/ 753VT3 + Poncho 250	104	.	213	49	28	<b>0</b>	92
NUTECH/ 3T-603 VT3 + Cruiser 250	103	.	210	49	<b>24</b>	<b>0</b>	94
NUTECH/ 3T-308 VT3 + Poncho 250	108	.	210	48	29	<b>0</b>	91
AGSOURCE/ 3T-603B VT3 + Cruiser 250	103	.	210	48	<b>24</b>	<b>2</b>	<b>99</b>
AGSOURCE/ 5X-805 RR/HXT + Poncho 250	105	.	207	47	29	<b>1</b>	94
G2/ GEN. 5H-007 RR/HX + Cruiser 250	107	.	201	45	27	<b>0</b>	79
G2/ GEN. 5H-005 RR/HX + Cruiser 250	105	.	175	45	36	<b>1</b>	88
Trial avg.:	104	201	223	48	27	0	93
High avg.:	108	211	243	53	36	2	99
Low avg.:	101	183	175	44	22	0	79
[5] LSD(0.05):		NS	12	2	2	NS	4
[6] Min.TPG value:		183	231	51	.	..	95
[7] Max.TPG value:		.	.	.	24	2	.
[8] Coef. of var.:		4	4	2	4	417	2
No. entries:	38	11	38	38	38	38	38

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2009 yield average.

\* Values in **bold type** within a column are included in the top-performance group.

Note that additional table footnotes are explained in table D.

**Table 5a. Geddes early maturity glyphosate-resistant corn hybrid test results, 2008-09, Curtis Sybesma Farm. Seeded May 14, 2009 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2009 Averages			
		2-Yr bu/a	2009 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
PIONEER/ 36V53 + Poncho 250	102	<b>221</b>	<b>247</b>	<b>55</b>	<b>15</b>	<b>0</b>	<b>96</b>
WENSMAN/ W 7433VT3 + Poncho 250	105	<b>219</b>	<b>242</b>	<b>56</b>	17	1	<b>94</b>
DEKALB/ DKC52-59(VT3) + Poncho 250	102	<b>219</b>	<b>241</b>	54	<b>16</b>	<b>0</b>	<b>96</b>
KRUGER/ 6401VT3 + Cruiser 250	101	<b>216</b>	<b>243</b>	<b>56</b>	<b>16</b>	1	<b>95</b>
WENSMAN/ W 7360VT3 + Poncho 250	103	<b>215</b>	<b>243</b>	<b>56</b>	<b>16</b>	<b>0</b>	<b>96</b>
NC+/ 1982VT3 + Cruiser 250	99	<b>213</b>	<b>235</b>	54	<b>15</b>	1	<b>93</b>
KRUGER/ 6102VT3 + Cruiser 250	102	<b>211</b>	<b>240</b>	<b>56</b>	17	<b>0</b>	<b>94</b>
G2/ GEN. 5H-506A RR/HX + Cruiser 250	105	<b>211</b>	<b>230</b>	52	18	1	<b>93</b>
G2/ GEN. 5H-506 RR/HX + Cruiser 250	105	<b>211</b>	226	52	21	1	89
DEKALB/ DKC50-44(VT3) + Poncho 250	100	<b>210</b>	221	53	<b>16</b>	<b>0</b>	91
NC+/ 1775VT3 + Cruiser 250	97	<b>208</b>	230	54	<b>16</b>	<b>0</b>	<b>93</b>
KALTENBERG/ K5163VT3 + Poncho 250	103	<b>200</b>	212	51	18	<b>0</b>	<b>95</b>
HOEGEMEYER/ HPT 7757 + Cruiser 250	105	<b>200</b>	205	54	19	1	90
DEKALB/ DKC43-27(VT3) + Poncho 250	93	<b>199</b>	230	<b>56</b>	<b>16</b>	<b>0</b>	92
NUTECH/ 3T-401 VT3 + Cruiser 250	100	.	<b>247</b>	<b>55</b>	<b>16</b>	1	<b>97</b>
G2/ GEN. 5H-905 RR/HX + Cruiser 250	105	.	<b>246</b>	52	<b>15</b>	<b>0</b>	<b>94</b>
HOEGEMEYER/ 7421 + Cruiser 250	104	.	<b>243</b>	<b>55</b>	18	<b>0</b>	92
DEKALB/ DKC50-35(VT3) + Poncho 250	100	.	<b>242</b>	<b>55</b>	<b>16</b>	<b>0</b>	<b>97</b>
G2/ GEN. 5H-501 RR/HX + Cruiser 250	100	.	<b>242</b>	<b>55</b>	<b>16</b>	<b>0</b>	91
DEKALB/ DKC50-66(VT3) + Poncho 250	100	.	<b>240</b>	<b>57</b>	<b>15</b>	<b>0</b>	<b>93</b>
PROSEED/ 9102 + Poncho 250	102	.	<b>239</b>	<b>55</b>	17	1	<b>95</b>
KRUGER/ 6205VT3 + Cruiser 250	105	.	<b>236</b>	52	<b>15</b>	<b>0</b>	<b>95</b>
RENK/ RK670VT3 + Poncho 250	103	.	<b>235</b>	52	17	<b>0</b>	<b>96</b>
DEKALB/ DKC51-13(VT3) + Poncho 250	101	.	<b>234</b>	<b>56</b>	<b>16</b>	1	<b>93</b>
NUTECH/ 3T-706 VT3 + Poncho 250	105	.	<b>233</b>	54	17	1	92
NUTECH/ 5B-804 GT/CB/LL + Cruiser 250	104	.	<b>232</b>	<b>55</b>	17	<b>0</b>	<b>94</b>
HOEGEMEYER/ 7445 + Poncho 250	103	.	<b>232</b>	54	18	<b>0</b>	<b>94</b>
KRUGER/ 6200VT3 + Cruiser 250	100	.	<b>231</b>	<b>55</b>	<b>15</b>	<b>0</b>	89
KALTENBERG/ K5332GT + Poncho 250	104	.	<b>230</b>	<b>56</b>	<b>16</b>	<b>0</b>	90
KALTENBERG/ 5355LLGTBT11 + Poncho 250	104	.	<b>230</b>	52	<b>16</b>	<b>0</b>	<b>96</b>
AGSOURCE/ 3T-904 VT3 + Poncho 250	104	.	<b>229</b>	51	<b>15</b>	1	91
NUTECH/ 3T-106 VT3 + Poncho 250	105	.	226	52	<b>16</b>	1	<b>94</b>
G2/ GEN. 5H-005 RR/HX + Cruiser 250	105	.	226	51	19	<b>0</b>	91
AGSOURCE/ 3T-603B VT3 + Cruiser 250	103	.	226	53	17	1	<b>96</b>
NUTECH/ 3T-801 VT3 + Poncho 250	100	.	225	52	<b>16</b>	<b>0</b>	89
RENK/ RK698VT3 + Poncho 250	105	.	224	<b>55</b>	17	<b>0</b>	87
NUTECH/ 3T-603 VT3 + Cruiser 250	103	.	223	54	<b>15</b>	1	90
PROSEED/ 8101VT3 + Poncho 250	101	.	221	53	17	<b>0</b>	<b>94</b>
G2/ GEN. 5X-802 RR/HXT + Cruiser 250	100	.	221	51	17	<b>0</b>	92
PROSEED/ 9105 + Poncho 250	105	.	220	53	<b>16</b>	<b>0</b>	90
PIONEER/ 35F44 + Poncho 250	105	.	219	54	<b>16</b>	<b>0</b>	<b>94</b>
DEKALB/ DKC53-76(VT3) + Poncho 250	103	.	217	<b>55</b>	17	2	91
DEKALB/ DKC55-07(VT3) + Poncho 250	105	.	215	<b>55</b>	19	<b>0</b>	90
AGSOURCE/ 3T-302 VT3 + Cruiser 250	102	.	212	54	<b>15</b>	1	91
HOEGEMEYER/ HPTXP7408 + Cruiser 250	104	.	211	51	18	<b>0</b>	90
KALTENBERG/ 5588LLRRHXT + Poncho 250	105	.	205	50	17	<b>0</b>	<b>93</b>
AGSOURCE/ 5X-805 RR/HXT + Poncho 250	105	.	195	51	19	1	92
Trial avg.:	103	211	229	54	17	0	93
High avg.:	105	221	247	57	21	2	97
Low avg.:	93	199	195	50	15	0	87
[5] LSD(0.05):		NS	19	2	1	NS	4
[6] Min.TPG value:		199	228	55	.	.	93
[7] Max.TPG value:		.	.	.	16	2	.
[8] Coef. of var.:		4	5	2	5	276	3
No. entries:	47	14	47	47	47	47	47

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2008 yield average.

\*Values in **bold type** within a column are included in the top-performance group.

Note that additional table footnotes are explained in table D.

**Table 5b. Geddes late maturity glyphosate-resistant corn hybrid test results, 2008-09, Curtis Sybesma Farm. Seeded May 14, 2009 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2009 Averages			
		2-Yr bu/a	2009 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
DEKALB/ DKC58-16(VT3) + Poncho 250	108	<b>214</b>	<b>226</b>	52	20	<b>0</b>	92
KRUGER/ 6606VT3 + Cruiser 250	106	<b>214</b>	<b>218</b>	<b>54</b>	<b>18</b>	<b>1</b>	91
KRUGER/ 6006VT3 + Cruiser 250	106	<b>210</b>	<b>226</b>	<b>55</b>	20	<b>0</b>	92
WENSMAN/ W 7455VT3 + Poncho 250	107	<b>210</b>	<b>220</b>	50	20	<b>0</b>	89
WENSMAN/ W 7469VT3 + Poncho 250	109	<b>207</b>	<b>217</b>	49	20	<b>0</b>	93
DEKALB/ DKC61-69(VT3) + Poncho 250	111	<b>207</b>	214	50	21	<b>0</b>	88
KRUGER/ 6208VT3 + Cruiser 250	108	<b>204</b>	209	<b>54</b>	22	<b>0</b>	94
RENK/ RK822VT3 + Poncho 250	110	<b>200</b>	209	<b>54</b>	21	<b>0</b>	<b>97</b>
KRUGER/ 6410VT3 + Cruiser 250	110	.	<b>234</b>	51	20	<b>1</b>	91
G2/ GEN. 5H-210 RR/HX + Cruiser 250	110	.	<b>231</b>	51	<b>18</b>	<b>2</b>	<b>95</b>
KRUGER/ 6010VT3 + Cruiser 250	110	.	<b>231</b>	50	21	<b>1</b>	91
NC+/ 208-72VT3 + Cruiser 250	108	.	<b>225</b>	52	19	<b>0</b>	93
G2/ GEN. 5H-511 RR/HX + Cruiser 250	110	.	<b>224</b>	<b>54</b>	19	<b>0</b>	87
NUTECH/ 3T-408 VT3 + Cruiser 250	108	.	<b>222</b>	53	20	<b>0</b>	<b>99</b>
RENK/ RK744VT3 + Poncho 250	107	.	<b>222</b>	<b>54</b>	<b>17</b>	<b>0</b>	86
G2/ GEN. 5H-511A RR/HX + Cruiser 250	111	.	<b>222</b>	<b>54</b>	21	<b>2</b>	89
G2/ GEN. 5H-007 RR/HX + Cruiser 250	107	.	<b>219</b>	52	<b>17</b>	<b>1</b>	87
NC+/ 4582VT3 + Cruiser 250	110	.	<b>218</b>	52	20	<b>0</b>	<b>95</b>
NC+/ 210-57VT3 + Cruiser 250	110	.	<b>218</b>	52	21	<b>1</b>	91
NUTECH/ 3T-308 VT3 + Poncho 250	108	.	<b>217</b>	<b>54</b>	20	<b>1</b>	91
RENK/ RK711RRHXTRA + Poncho 250	107	.	<b>217</b>	52	<b>16</b>	<b>0</b>	94
RENK/ RK760VT3 + Poncho 250	106	.	<b>216</b>	<b>53</b>	19	<b>1</b>	88
G2/ GEN. 5X-911 RR/HXT + Cruiser 250	110	.	<b>216</b>	<b>54</b>	19	<b>0</b>	94
NUTECH/ 5N-909 GTCBLLRW + Cruiser 250	109	.	211	50	19	<b>1</b>	89
G2/ GEN. 5X-210 RR/HXT + Cruiser 250	110	.	211	51	20	<b>0</b>	93
DEKALB/ DKC59-64(VT3) + Poncho 250	109	.	208	49	23	<b>1</b>	92
KRUGER/ 6408VT3 + Cruiser 250	108	.	205	<b>53</b>	19	<b>0</b>	82
NUTECH/ 3T-409 VT3 + Cruiser 250	109	.	204	52	22	<b>0</b>	89
NUTECH/ 3T-512 VT3 + Poncho 250	110	.	193	52	25	<b>0</b>	93
NUTECH/ 3T-110 VT3 + Cruiser 250	110	.	185	48	24	<b>1</b>	92
Trial avg.:	109	208	216	52	20	0	91
High avg.:	111	214	234	55	25	2	99
Low avg.:	106	200	185	48	16	0	82
[5] LSD(0.05):		NS	18	2	2	NS	4
[6] Min.TPG value:		200	216	53	.	.	95
[7] Max.TPG value:		.	.	.	18	2	.
[8] Coef. of var.:		6	5	2	6	237	3
No. entries:	30	8	30	30	30	30	30

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2009 yield average.

\* Values in **bold type** within a column are included in the top-performance group.

Note that additional table footnotes are explained in table C.

**Table 6a. Beresford early maturity glyphosate-resistant corn hybrid test results, 2008-09, Southeast Experiment Station. Seeded May 19, 2009 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2009 Averages			
		2-Yr bu/a	2009 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
NC+/ 4582VT3 + Cruiser 250	110	<b>239</b>	<b>245</b>	<b>53</b>	27	<b>1</b>	<b>98</b>
KALTENBERG/ K6663VT3 + Poncho 250	110	<b>233</b>	<b>247</b>	51	25	<b>0</b>	<b>93</b>
WENSMAN/ W 7455VT3 + Poncho 250	107	<b>231</b>	<b>240</b>	51	26	4	92
DAIRYLAND/ ST-9006 + Poncho 250	106	<b>227</b>	<b>250</b>	<b>54</b>	23	<b>0</b>	<b>96</b>
WENSMAN/ W 7469VT3 + Poncho 250	109	<b>222</b>	235	49	26	<b>0</b>	<b>94</b>
FOUR/ STAR 6844VT3 + Cruiser 250	108	<b>221</b>	231	50	24	4	85
DEKALB/ DKC52-59(VT3) + Poncho 250	102	<b>220</b>	232	<b>53</b>	<b>18</b>	<b>1</b>	<b>96</b>
KRUGER/ 6208VT3 + Cruiser 250	108	<b>217</b>	<b>240</b>	51	25	3	<b>94</b>
RENK/ RK822VT3 + Poncho 250	110	<b>214</b>	228	52	25	<b>1</b>	<b>97</b>
DEKALB/ DKC57-50(VT3) + Poncho 250	107	.	<b>253</b>	50	24	<b>0</b>	<b>96</b>
KRUGER/ 6408VT3 + Cruiser 250	108	.	<b>252</b>	<b>54</b>	24	<b>0</b>	91
NC+/ 210-57VT3 + Cruiser 250	110	.	<b>249</b>	51	25	<b>0</b>	<b>96</b>
G2/ GEN. 5H-511 RR/HX + Cruiser 250	110	.	<b>248</b>	<b>53</b>	25	<b>0</b>	<b>94</b>
KRUGER/ 6410VT3 + Cruiser 250	110	.	<b>248</b>	<b>53</b>	25	<b>0</b>	92
DEKALB/ DKC59-64(VT3) + Poncho 250	109	.	<b>247</b>	52	26	<b>1</b>	<b>96</b>
RENK/ RK744VT3 + Poncho 250	107	.	<b>247</b>	51	23	<b>0</b>	92
KRUGER/ 6010VT3 + Cruiser 250	110	.	<b>246</b>	49	26	<b>1</b>	92
DAIRYLAND/ ST-9810 + Poncho 250	110	.	<b>245</b>	<b>53</b>	25	<b>0</b>	<b>93</b>
FOUR/ STAR EXP9072VT3 + Cruiser 250	110	.	<b>244</b>	51	26	<b>0</b>	<b>93</b>
NUTECH/ 3T-308 VT3 + Poncho 250	108	.	<b>243</b>	52	24	<b>0</b>	<b>94</b>
KALTENBERG/ K6645LLGT3 + Poncho 250	110	.	<b>243</b>	50	24	<b>1</b>	90
NUTECH/ 3T-408 VT3 + Cruiser 250	108	.	<b>242</b>	<b>53</b>	25	<b>0</b>	<b>97</b>
RENK/ RK711RRHXTRA + Poncho 250	107	.	<b>241</b>	51	24	<b>0</b>	<b>93</b>
RENK/ RK698VT3 + Poncho 250	105	.	<b>239</b>	<b>54</b>	21	<b>0</b>	88
NC+/ 208-72VT3 + Cruiser 250	108	.	238	51	24	<b>0</b>	91
DEKALB/ DKC53-76(VT3) + Poncho 250	103	.	237	<b>54</b>	22	<b>0</b>	<b>94</b>
NUTECH/ 5N-909 GTCBLLRW + Cruiser 250	109	.	237	51	24	<b>1</b>	92
NUTECH/ 3T-512 VT3 + Poncho 250	110	.	236	52	26	<b>0</b>	<b>93</b>
G2/ GEN. 5H-210 RR/HX + Cruiser 250	110	.	236	52	24	<b>0</b>	<b>96</b>
PROSEED/ 9105 + Poncho 250	105	.	235	<b>53</b>	<b>19</b>	<b>0</b>	88
NUTECH/ 3T-106 VT3 + Poncho 250	105	.	234	51	23	<b>0</b>	<b>93</b>
NUTECH/ 3T-110 VT3 + Cruiser 250	110	.	234	50	27	<b>1</b>	92
PROSEED/ 9102 + Poncho 250	102	.	233	52	21	<b>2</b>	<b>95</b>
PIONEER/ 35F44 + Poncho 250	105	.	233	<b>53</b>	21	<b>0</b>	<b>95</b>
G2/ GEN. 5X-711 RR/HXT + Cruiser 250	110	.	233	<b>54</b>	25	<b>0</b>	<b>93</b>
DAIRYLAND/ ST9206Q + Cruiser 250	106	.	232	51	24	<b>0</b>	<b>97</b>
G2/ GEN. 5X-210 RR/HXT + Cruiser 250	110	.	230	50	26	<b>0</b>	92
FOUR/ STAR EXP6066VT3 + Cruiser 250	110	.	229	50	29	<b>0</b>	90
DEKALB/ DKC55-07(VT3) + Poncho 250	105	.	227	<b>55</b>	24	<b>1</b>	<b>93</b>
G2/ GEN. 5H-007 RR/HX + Cruiser 250	107	.	226	50	23	<b>0</b>	87
G2/ GEN. 5X-911 RR/HXT + Cruiser 250	110	.	226	52	24	<b>0</b>	87
RENK/ RK670VT3 + Poncho 250	103	.	225	52	21	<b>1</b>	<b>96</b>
RENK/ RK760VT3 + Poncho 250	106	.	225	52	23	<b>1</b>	<b>93</b>
HOEGEMEYER/ HPT 7757 + Cruiser 250	105	.	220	54	24	<b>0</b>	92
PROSEED/ 8101VT3 + Poncho 250	101	.	218	53	20	<b>2</b>	<b>93</b>
PROSEED/ 8104 + Poncho 250	104	.	218	54	21	<b>1</b>	78
FOUR/ STAR EXP9056VT3 + Poncho 250	108	.	217	54	26	<b>1</b>	<b>93</b>
Trial avg.:	107	225	236	52	24	1	93
High avg.:	110	239	253	55	29	4	98
Low avg.:	101	214	217	49	18	0	78
[5] LSD(0.05):		NS	14	2	1	2	5
[6] Min.TPG value:		214	239	53	.	.	93
[7] Max.TPG value:		.	.	.	19	2	.
[8] Coef. of var.:		5	4	3	4	284	3
No. entries:	47	9	47	47	47	47	47

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2009 yield average.

\* Values in **bold type** within a column are included in the top-performance group.

Note that additional table footnotes are explained in table D.

**Table 6b. Beresford late maturity glyphosate-resistant corn hybrid test results, 2008-09, Southeast Experiment Station. Seeded May 19, 2009 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages		Other 2009 Averages			
		2-Yr bu/a	2009 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
KRUGER/ 6411VT3 + Cruiser 250	111	<b>229</b>	<b>243</b>	51	<b>24</b>	<b>0</b>	<b>91</b>
KRUGER/ 6213VT3 + Cruiser 250	113	<b>225</b>	<b>243</b>	52	27	<b>2</b>	<b>93</b>
DEKALB/ DKC61-69(VT3) + Poncho 250	111	<b>223</b>	231	51	26	<b>0</b>	<b>95</b>
DEKALB/ DKC62-54(VT3) + Poncho 250	112	.	<b>249</b>	<b>53</b>	<b>25</b>	<b>1</b>	<b>95</b>
NUTECH/ 3T-413 VT3 + Cruiser 250	113	.	<b>246</b>	52	28	<b>0</b>	<b>95</b>
G2/ GEN. 5H-511A RR/HX + Cruiser 250	111	.	<b>242</b>	<b>53</b>	<b>25</b>	<b>0</b>	<b>92</b>
KRUGER/ 6214VT3 + Cruiser 250	114	.	<b>240</b>	51	27	<b>1</b>	<b>92</b>
NC+/ 4517VT3 + Cruiser 250	113	.	<b>240</b>	52	26	<b>1</b>	<b>94</b>
AGSOURCE/ 3T-712 VT3 + Poncho 250	112	.	<b>237</b>	<b>53</b>	29	<b>0</b>	<b>96</b>
KRUGER/ 6116VT3 + Cruiser 250	116	.	<b>236</b>	52	28	<b>1</b>	<b>93</b>
G2/ GEN. 5X-911A RR/HXT + Cruiser 250	111	.	<b>235</b>	<b>53</b>	<b>24</b>	<b>0</b>	<b>92</b>
NUTECH/ 3T-713 VT3 + Poncho 250	113	.	234	50	29	<b>1</b>	<b>93</b>
NUTECH/ 3T-313 VT3 + Cruiser 250	113	.	233	<b>54</b>	26	<b>0</b>	<b>91</b>
KRUGER/ 6013VT3 + Cruiser 250	113	.	233	51	29	<b>3</b>	<b>94</b>
G2/ GEN. 5X-711A RR/HXT + Cruiser 250	112	.	232	<b>53</b>	<b>25</b>	<b>0</b>	<b>95</b>
NUTECH/ 3T-612 VT3 + Poncho 250	112	.	230	<b>55</b>	28	<b>0</b>	<b>90</b>
KRUGER/ 6412VT3 + Cruiser 250	112	.	228	52	27	<b>0</b>	<b>95</b>
NUTECH/ 3T-512A VT3 + Poncho 250	111	.	226	52	28	<b>0</b>	<b>95</b>
RENK/ EXP8-809VT3 + Poncho 250	111	.	226	52	28	<b>1</b>	<b>93</b>
G2/ GEN. 5H-314 RR/HX + Cruiser 250	114	.	224	52	28	<b>0</b>	<b>92</b>
G2/ GEN. 5X-513 RR/HXT + Cruiser 250	114	.	220	51	28	<b>1</b>	<b>94</b>
RENK/ EXP7-816VT3 + Poncho 250	112	.	212	<b>53</b>	<b>25</b>	<b>1</b>	<b>93</b>
PIONEER/ 33Z74 + Poncho 250	113	.	199	51	27	<b>1</b>	<b>91</b>
Trial avg.:	112	225	232	52	27	1	93
High avg.:	116	229	249	55	29	3	96
Low avg.:	111	223	199	50	24	0	90
[5] LSD(0.05):		NS	14	2	1	NS	NS
[6] Min.TPG value:		223	235	53	.	3	90
[7] Max.TPG value:		.	.	.	25	3	.
[8] Coef. of var.:		5	4	2	3	213	3
No. entries:	23	3	23	23	23	23	23

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2009 yield average.  
 \* Values in **bold type** within a column are included in the top-performance group.  
 Note that additional table footnotes are explained in table D.

C 253  
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Annually

# CORN

## 2010 Precision Planted Performance Trials



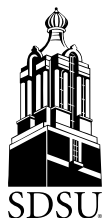
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The crop performance trials are available at <http://www.sdstate.edu/ps/extension/crop-mgmt/variety-trials-results.cfm>

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**C253—Precision Planted Corn 2010 Crop Performance Results  
is available electronically on the internet**  
<http://www.sdstate.edu/ps/extension/crop-mgmt/variety-trials-results.cfm>



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# 2010 Precision Planted Corn Performance Trials

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This publication reports the results of the 2010 South Dakota corn hybrid performance trials for glyphosate-resistant hybrids. Information includes both the most recent two-year and one-year grain yields in bushels per acre and one-year bushel weight in pounds, along with grain moisture at harvest, lodging, and final stand in percentages. These performance trials are conducted by the South Dakota Crop Performance Testing program at South Dakota State University. Corn performance trial tables are listed on the inside front cover. Environmental data is listed in tables A and B, indices of brand/hybrid entries to performance table number are listed in table C, table D has the performance table footnote legends, and mailing addresses for seed companies are listed in table E.

## Test Trial Locations

Trial locations, soil types, seedbed and previous crop history, soil fertility yield goals, and seeding dates are indicated in table B. The participation and efforts of our cooperators—Allen and Inel Ryckman at Warner, Al Heuer at South Shore (Northeast Research Farm), E. Weerts Farms Inc. at Bancroft, Douglas Doyle 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

The efforts of Dennis Today and his staff at the South Dakota Office of Climate and Weather at South Dakota State University are gratefully acknowledged in obtaining the weather data reported in table B. Seasonal rainfall and its distribution and average temperatures at weather reporting stations nearest each test trial are reported for the period April 1 to October 31. Seasonal precipitation totals were 5" above average at Aberdeen (22.37"), 6" above average at White Lake (24.12"), 8" above average at Beresford (28.49"), 9" above average at Huron (25.98"), and 10" above average at Brookings (29.72"). Seasonal precipitation totals were 4" below average at South Shore (13.99"). The moisture distribution across locations was fairly uniform at Huron, Brookings, Beresford, and White Lake. Two locations encountered moisture deficits. Aberdeen only received 1" of moisture at the airport during August, while 10 miles south at the test trial site there was no moisture. This lack of rainfall likely reduced the potential yield

at the Warner trial. At Northeast Research Farm at South Shore, the early season moisture in April was well above average and was near average through July. Thereafter, there was little if any rainfall through harvest. Again, this lack of moisture may have reduced the potential yield at the Northeast Research Farm. The test trials at Bancroft (Huron airport station) were likely affected by the rainfall totals in June and July that were 4" above average. The above average rainfall along with water ponding in the field at Bancroft likely was a major cause in the higher coefficient of variation of 10% or higher amount of experimental error associated with the trial. The coefficient of variation was well within acceptable limits; this means the test trial was valid. The lower coefficient of variation at the other locations only means there was less experimental error associated with the other trial locations, compared to Bancroft.

The average daily temperatures for April were well above average for Huron, Brookings, Beresford, and White Lake, while Aberdeen was 1 degree above average and South Shore was 1 degree below average. May through July temperatures were near average across all locations. However, August temperatures were 3 to 5 degrees higher than average at Aberdeen, South Shore, Bancroft, and Brookings, while other locations were near average.

The accumulation of growing degree days (GDDs) in April and May started out average to slightly below average at Aberdeen, South Shore, and Huron, and well above average at Brookings, Centerville, and White Lake. Thereafter, the GDDs accumulations tended to be average to higher than average (June through August). Again, in September, the GDDs accumulations were below average at all locations, while in October the GDDs accumulations were slightly below average at some locations and above average at other locations. Aberdeen and White were the only locations with below average total season GDDs accumulations, while at the other locations the GDDs accumulations were nearly 100 to 300 GDDs above their average seasonal totals.

## General Test Procedures

Seed companies pick the test locations where their entries are tested. Entries are placed into "early" or "late" maturity trials. The relative maturity breaks between the early and late tests are 95 days for Warner and South Shore, 100 days for Yale and Brookings, 105 days for Geddes, and 110 days for Beresford. Hybrids are assigned to trials based on the relative maturity rating reported

by the participating seed company; therefore, we cannot always guarantee entries are placed in the proper maturity trial. In some trials, borderline entries with relative maturity ratings at or near the arbitrary break between the early and late trials may crossover at a given location. In some cases, this may be indicated by exceptionally high or low grain moisture contents at harvest. A higher-than-average moisture content may indicate the hybrid is later in relative maturity than indicated. Likewise, a lower-than-average moisture may indicate the hybrid is earlier in relative maturity than indicated. A fee was charged for all entries at each location. A list of participating seed companies for 2010 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, with the center two rows harvested for yield. A Monosem precision row crop planter was used for seeding plots at all locations. In 2010, the precision planter was calibrated to deliver 28,750 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 pounds/acre of 37-18-00 was applied 2" below and 2" to the side (2 x 2) of the seed row. Force insecticide 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.

## Measurements of Performance

Yields are obtained from the South Dakota Crop Performance Testing Program. Two-year and current yield averages are included where hybrids have been tested for the most recent two-year period.

**Yield.** Yield values are an average of three replications and are expressed as bushels per acre, adjusted to 15.5% moisture on a dry-matter basis and a bushel weight of 56 pounds. 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 2010, the coefficient of variation (CV) values (a measure of experimental error) for yield was relatively low, ranging from 5 to 9% over the six test locations. Experimental error may be the result of several factors, including test methods, or factors such as moisture, temperature, soil variations, or agronomic factors like seeding date, reseeding, or seed quality factors—all of which may or may not be controllable in a given year. Clearly, this year, seasonal moisture distribution and/or subsoil moisture conditions, along with above-average temperatures, combined to produce excellent yields at most locations, along with some very good bushel weight values.

**Grain moisture content.** Moisture content is expressed as the percentage of moisture in the shelled corn at harvest. Moisture is generally inversely related to maturity and is important in the evaluation of hybrids. Hybrids that provide satisfactory yields and

can be stored without additional drying are desirable. During harvest, moisture values were determined by the combine moisture meter, which in turn was periodically checked with a Dickey-John GAC II to verify it was within 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 significant yield difference. LSD values are given at the bottom of every column where there is significant difference among the averages within the column. If differences among the averages within a column are not significant, the LSD value is reported as "non-significant" (NS).

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 two-year yields, for current-year yields, for bushel weight, for grain moisture at harvest, for lodging (below the ear) percentage, and for final stand percentage for each test trial. In order 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, let's say the column LSD value equals 15 (bu/a) and the highest yield for that column equals 155 bu/a. If you subtract the column LSD value from the highest yield, you obtain an intermediate value of 140 bu/a ( $155 - 15 = 140$ ). In this case, the minimum top yield value is generally 141 bu., or one bushel greater than the intermediate value of 140 bu. However, we can say the 140 bu. value also qualifies for the top performance group for yield because the yield values are rounded to the nearest bushel per acre. Thus, varieties with an average of 140 bu. or higher are also included in the top yield group to compensate for rounding-off the yield averages to the nearest bushel.

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 reported at the bottom of each yield column (2010 or 2-yr yield averages). If hybrid yield differences are not significant (NS) and the CV values are 15% 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 15%, 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. When comparing yield means, compare current year averages with other current year averages and compare two-year yield averages with other two-year averages. Do not compare current year averages with two-year averages when comparing hybrids. When evaluating current year averages, remember that entries tested for two years may also have a yield value that qualifies for the TPG in the 2010 yield column.

The TPG for other performance factors—such as bushel weight, percent grain moisture at harvest, percent lodging (below the ear), and percent stand (percent of seeded population)—can also be determined. In order to qualify for the TPG group, a hybrid must have a bushel weight and a final stand percentage value that is equal to or greater than the minimum reported TPG value for bushel weight or final stand percentage. Likewise, in order to qualify for the TYG, a hybrid must have grain moisture, lodging percentages, or lodging score values that are equal to or less

than the maximum reported TPG value for grain moisture and lodging percentage. Note that yield, bushel weight, and percent stand TPG values are greater than a certain yield, bushel weight, or final stand value; or they are minimum values. In contrast, grain moisture and lodging percentage values are equal to or less than a certain value to qualify for the TPG; or they are maximum values. Again, as with hybrid yields, if there are no differences for a performance factor, then, by definition, all hybrids in the test are in the TPG for that performance factor.

The LSD values for the TPG can also 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 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 trial grain moisture LSD value equals 2%, and hybrid A measures 18% and hybrid B measures 16, their grain moisture 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 trial 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-moisture difference of 3% is more than the reported LSD value 2%; therefore, hybrid A is significantly higher in grain moisture than hybrid C.

## PERFORMANCE TRIAL RESULTS BY LOCATIONS

The performance trial results for one year (2010) and for two years (2009–10) follow:

### Northern Locations

**Note:** The top performance group (TPG) for the performance factors yield (bu/a), bushel weight in (lbs.), harvest grain moisture (%), lodging below the ear (%), and final stage (%) are indicated in each performance table by the presence of shaded data values. Evaluate the performance of each hybrid (row) by moving across the table and observing if any of the reported performance values are shaded. The more shaded performance values there are in each row the better the hybrid did as a top-performing hybrid for a given test trial.

#### Warner:

**Early – Glyphosate-resistant trial, Table 1a.** The test-trial yield averages were 214 bu/a for two years and 196 bu/a in 2010. Hybrids that yielded 208 bu/a or more for two years and 199 bu/a or more for 2010 qualified for the top-performance-group (TPG) for yield. Hybrids had to differ in yield by 20 bu/a for two years and 19 bu/a in 2010 to be significantly different. In 2010, bushel weights averaged 56 lbs, grain moisture averaged 17%, lodging percentage averaged zero, and final stand percentage averaged 93%. In order for a hybrid to be in the TPG for these factors, it had to average 58 lbs. or more in bushel weight, 16% or less in grain moisture, 1% or less in lodging percentage, and 95% or more for final stand percentage.

**Late – Glyphosate-resistant trial, Table 1b.** The test-trial yield averages were 224 bu/a for two years and 209 bu/a in 2010. Hybrids that yielded 210 bu/a or more for two years and 211 bu/a or more for 2010 qualified for the TPG for yield. Hybrids had to differ in yield by 20 bu/a in 2010 to be significantly different. There was no significant difference in yield among the hybrids tested for the two years. In 2010, bushel weights averaged 58 lbs, grain moisture averaged 19%, lodging percentage averaged 1%, and final stand percentage averaged 90%. In order for a hybrid to be in the TPG for these factors, it had to average 59 lbs. or more in bushel weight, 18% or less in grain moisture, 5% or less in lodging percentage, and 96% or more for final stand percentage.

#### South Shore:

**Early – Glyphosate-resistant trial, Table 2a.** The test-trial yield averages were 203 bu/a for two years and 198 bu/a in 2010. The yield differences among those hybrids tested for two years were nonsignificant (NS). Hybrids that yielded 196 bu/a or more for 2010 qualified for the TPG for yield. Hybrids had to differ in yield by 17 bu/a in 2010 to be significantly different. In 2010, bushel weights averaged 56 lbs, grain moisture averaged 16%, lodging averaged 1%, and final stand percentage averaged 92%. In order for hybrids to be in the TPG for these factors, they had to average 57 lbs. or more in bushel weight, 15% or less in grain moisture, 2% in lodging percentage, and 95% or higher in final stand percentage.

**Late – Glyphosate-resistant trial, Table 2b.** The test-trial yield averages were 210 bu/a for two years and 214 bu/a in 2010. The yield differences among those hybrids tested for two years were nonsignificant (NS). Hybrids that yielded 222 bu/a or more for 2010 qualified for the TPG for yield. Hybrids had to differ in yield by 17 bu/a in 2010 to be significantly different. In 2010, bushel weights averaged 59 lbs, grain moisture averaged 19%, lodging averaged 1%, and final stand percentage averaged 91%. In order for hybrids to be in the TPG for these factors, they had to average 59 lbs. or more in bushel weight, 18% or less in grain moisture, and 3% or more in lodging percentage, and 95% or more in final stand percentage.

### Central Locations

#### Bancroft:

**Early – Glyphosate-resistant trial, Table 3a.** The test-trial yield averages were 169 bu/a for two years and 152 bu/a in 2010. Hybrids that yielded 143 bu/a or more in 2010 qualified for the TPG for yield. There were no differences in yield average among the hybrids tested two years, so all qualified for the TPG. Hybrids had to differ in yield by 26 bu/a in 2010 to be significantly different. In 2010, bushel weights averaged 56 lbs., grain moisture averaged 17%, lodging averaged 3%, and final stand percentage averaged 93%. In order for hybrids to be in the TPG for these factors, they had to average 57 lbs. or more in bushel weight, 17% or

less in grain moisture, 4% or less in lodging percentage, and 94% or more for final stand percentage.

**Late – Glyphosate-resistant trial, Table 3b.** The test-trial yield averages were 165 bu/a for two years and 161 bu/a in 2010. Yield differences among hybrids were non-significant for the two-year period. Hybrids that yielded 148 bu/a or more in 2010 qualified for the TPG for yield. In 2010, bushel weights averaged 54 lbs, grain moisture averaged 21%, lodging percentage averaged 1%, and the final stand percentage averaged 95%. In order for hybrids to be in the TPG for these factors, they had to average 54 lbs. or more in bushel weight, 20% or less in grain moisture, 4% or less in lodging percentage, and 93% or more for final stand percentage.

### **Brookings:**

**Early – Glyphosate-resistant trial, Table 4a.** The test-trial yield averages were 226 bu/a for two years and 228 bu/a in 2010. Hybrids that yielded 230 bu/a or more for two years and 242 bu/a or more for 2010 qualified for the TPG for yield. Hybrids had to differ in yield by 20 bu/a for two years and 14 bu/a in 2010 to be significantly different. In 2010, bushel weights averaged 57 lbs, grain moisture averaged 15%, lodging percentage averaged 1%, and final stand percentage averaged 93%. In order for hybrids to be in the TPG for these factors, they had to average 59 lbs. or more in bushel weight, 13% or less in grain moisture, 2% or less in lodging percentage, and 94% or more for final stand percentage.

**Late – Glyphosate-resistant trial, Table 4b.** The test-trial yield averages were 231 bu/a for two years and 235 bu/a in 2010. Hybrids that yielded 230 bu/a or more for two years and 247 bu/a or more in 2010 qualified for the TPG for yield. Hybrids had to differ in yield by 15 bu/a for two years and 12 bu/a in 2010 to be significantly different. In 2010, bushel weights averaged 57 lbs, grain moisture averaged 18%, lodging averaged slightly more than 1%, and percent stand averaged 90%. In order for hybrids to be in the TPG for all performance factors, they had to average 58 lbs. or more in bushel weight, 17% or less in grain moisture, 1% or less in lodging percentage, and 86% or more for final stand percentage.

## **Southern Locations**

### **Geddes:**

**Early – Glyphosate-resistant trial, Table 5a.** The test-trial yield average was 236 bu/a for two years and 223 bu/a in 2010. The average yield differences among the hybrids tested two years

were non-significant (NS), so all the hybrids tested qualified for the TPG. Hybrids that yielded 226 bu/a or more in 2010 qualified for the TPG for yield. In 2010, bushel weights averaged 58 lbs, grain moisture averaged 16%, lodging percentage averaged 2%, and percent stand averaged 95%. In order for hybrids to be in the TPG for these factors, they had to average 60 lbs. or more in bushel weight, 16% or less in grain moisture, 6% or less in lodging, and 94% or more for percent stand.

**Late – Glyphosate-resistant trial, Table 5b.** The test trial yield average was 224 bu/a for two years and 228 bu/a in 2010. Yield differences among hybrids tested for two years were non-significant (NS); thus, all entries tested two years were in the TPG for yield. Hybrids that yielded 221 bu/a or more in 2010 qualified for the TPG for yield. In 2010, bushel weights averaged 57 lbs, grain moisture averaged 18%, lodging percentage averaged 4%, and percent stand averaged 94%. In order for hybrids to be in the TPG for these factors, they had to average 59 lbs. or more in bushel weight, 18% or less in grain moisture, 4% or less in lodging, and 94% or more for final stand percentage.

### **Beresford:**

**Early – Glyphosate-resistant trial, Table 6a.** The test-trial yield averages were 234 bu/a for two years and 230 bu/a in 2010. There were no differences in yield average among the hybrids tested two years, so all hybrids tested qualified for the TPG. Hybrids that yielded 236 bu/a or more in 2010 qualified for the TPG for yield. Hybrids had to differ in yield by 15 bu/a in 2010 to be significantly different. In 2010, bushel weights averaged 58 lbs, grain moisture averaged 17%, lodging percentage averaged zero percent, and final stand percentage averaged 98%. In order for hybrids to be in the TPG for these factors, they had to average 60 lbs. or more in bushel weight, 15% or less in grain moisture, 2% or less in lodging percentage, and 97% or more for final stand percentage.

**Late – Glyphosate-resistant, Table 6b.** The test trial yield averages were 233 bu/a for two years and 224 bu/a in 2010. There were no differences in yield average among the hybrids tested two years, so all hybrids tested qualified for the TPG. Hybrids that yielded 224 bu/a or more in 2010 qualified for the TPG for yield. Hybrids had to differ in yield by 20 bu/a in 2010 to be significantly different. In 2010, bushel weights averaged 57 lbs, grain moisture averaged 21%, lodging percentage averaged 2%, and final stand percentage averaged 96%. In order for hybrids to be in the TPG for these factors, they had to average 59 lbs. or more in bushel weight, 19% or less in grain moisture, 3% or less in lodging percentage, and 95% or more in final stand percentage.

**Table A. Description of 2010 corn hybrid trial locations- soil type, tillage method, prior crop, herbicides used, and seeding dates.**

Location (County)	Soil Type	Tillage Method	Prior crop	Herbicides Applied at label rates		Fertility Yield Goal bu/a	Date Seeded
				Pre	Post		
Warner (Brown)	Harmony-Aberdeen silty clay loam, 0-2% slope	Conventional	Spring Wheat	Harness Xtra	Roundup once	200	May 4
South Shore (Codington)	Kranzburg silty clay loam, 3-6% slope	Conventional	Spring Wheat	Dual II Magnum	Roundup once	180	May 5
Bancroft (Kingsbury)	Houdek-Stickney-Tetonka loam, 0-3% slope	Conventional	Soybean	Fall Dual	Roundup once	180	May 19
Brookings (Brookings)	Barnes clay loam, 0-2% slope	Conventional	Soybean	Dual II Magnum	Roundup twice	200	April 28
Geddes (Chas. Mix)	Highmore-Walke silt loam, 0-2% slope	No-till	Winter Wheat	-	Roundup twice	200	May 18
Beresford (Clay)	Egan-Clarno-Trent silty clay loam, 0-2% slope	Conventional	Soybean	-	Roundup once	210	May 3

Plots were seeded at 28,750 seeds per acre.

**Table B. Nearest weather station monthly rainfall and growing degree day totals and average daily temperatures and their departures from average during the 2010 growing season. South Dakota Office of Climate and Weather, South Dakota State University, Brookings, SD.**

Station (Test site)	Variable	Monthly data - April 1 to October 31								Sum or Average
		April	May	June	July	Aug	Sept	Oct		
Aberdeen Airport (Warner)	Rain totals - inch '10	3.15	4.46	5.40	3.24	1.01	4.08	1.03	22.37	
	1971-2000 avg.	1.83	2.69	3.49	2.92	2.42	1.81	1.63	16.79	
	DFA*	1.32	1.77	1.91	0.32	-1.41	2.27	-0.60	5.58	
	Temp.Avg. -°F '10	51.0	56.2	67.2	72.6	73.4	57.9	49.3	61.09	
	1971-2000 avg.	45.4	57.9	66.8	72.2	70.5	59.8	46.7	59.90	
	DFA	5.6	-1.7	0.4	0.4	2.9	-1.9	2.6	1.19	
South Shore Northeast Research Farm	GDDs Totals '10	85	265	525	708	734	245	106	2,668	
	1971-2000 avg.	111	316	498	691	644	349	143	2,752	
	DFA*	-26	-51	27	17	90	-104	-37	-84	
	Rain totals - inch '10	0.94	2.76	6.53	3.51	0.25	0.00	0.00	13.99	
	1971-2000 avg.	1.96	2.61	4.01	2.91	2.85	2.03	1.92	18.29	
	DFA	-1.02	0.15	2.52	0.60	-2.60	-2.03	-1.92	-4.30	
Huron (Bancroft)	Temp.Avg. -°F '10	51.1	56.4	65.9	71.7	72.5	57.2	50.1	60.70	
	1971-2000 avg.	43.2	56.0	65.3	70.4	67.8	57.8	45.0	57.93	
	DFA	7.9	0.4	0.6	1.3	4.7	-0.6	5.1	2.77	
	GDDs Totals '10	83	272	478	673	697	221	115	2,539	
	1971-2000 avg.	73	278	456	631	558	306	107	2,409	
	DFA*	10	-6	22	42	139	-85	8	130	
Huron (Bancroft)	Rain totals - inch '10	2.40	3.67	7.52	6.43	1.60	3.50	0.86	25.98	
	1971-2000 avg.	2.29	3.00	3.28	2.86	2.07	1.80	1.59	16.89	
	DFA	0.11	0.67	4.24	3.57	-0.47	1.70	-0.73	9.09	
	Temp.Avg. -°F '10	52.6	57.3	68.4	74.6	75.4	60.2	51.6	62.87	
	1971-2000 avg.	46.1	58.2	67.9	73.4	71.5	61.0	47.9	60.86	
	DFA	6.5	-0.9	0.5	1.2	3.9	-0.8	3.7	2.01	
Huron (Bancroft)	GDDs Totals '10	124	286	560	770	798	318	141	2,997	
	1971-2000 avg.	124	318	536	719	665	378	169	2,909	
DFA*	0	-32	24	51	133	-60	-28	88		

Brookings  SDSU Plant Science Farm	Rain totals - inch '10 1971-2000 avg.	1.24 2.03	2.22 2.95	7.95 4.23	5.29 3.11	4.75 2.94	7.39 2.48	0.88 1.78	29.72 19.52
	DFA	-0.79	-0.73	3.72	2.18	1.81	4.91	-0.90	10.20
	Temp.Avg. -°F '10 1971-2000 avg.	51.5 44.2	56.7 56.7	66.4 66.1	72.1 70.7	72.7 68.6	57.9 59.1	49.1 46.3	60.91 58.81
	DFA	7.3	0.0	0.3	1.4	4.1	-1.2	2.8	2.10
	GDDs Totals '10 1971-2000 avg.	203 85	303 293	487 483	668 640	700 577	288 330	189 138	2,838 2,546
DFA*	118	10	4	28	123	-42	51	292	
Centerville, 6 SE (Beresford) Southeast Experiment Station	Rain totals - inch '10 1971-2000 avg.	1.91 2.47	2.19 3.65	6.69 3.95	6.99 3.35	3.47 2.83	6.03 2.26	1.21 1.80	28.49 20.31
	DFA	-0.56	-1.46	2.74	3.64	0.64	3.77	-0.59	8.18
	Temp.Avg. -°F '10 1971-2000 avg.	53.4 47.2	58.8 59.5	69.8 69.4	74.1 73.7	73.9 71.5	60.6 62.3	51.2 49.7	63.11 61.90
	DFA	6.2	-0.7	0.4	0.4	2.4	-1.7	1.5	1.21
	GDDs Totals '10 1971-2000 avg.	257 135	355 338	561 582	720 733	733 666	384 396	250 194	3,260 3,044
DFA*	122	17	-21	-13	67	-12	56	216	
White Lake (Geddes)	Rain totals - inch '10 1971-2000 avg.	2.86 2.49	2.93 3.6	6.45 3.19	6.4 2.88	2.35 2.21	2.48 2.09	0.65 1.59	24.12 18.05
	DFA	0.37	-0.67	3.26	3.52	0.14	0.39	-0.94	6.07
	Temp.Avg. -°F '10 1971-2000 avg.	51.3 47.9	56.8 59.7	68.5 69.0	74.3 74.5	74.0 72.7	58.8 62.8	50.7 49.8	62.06 62.34
	DFA	3.4	-2.9	-0.5	-0.2	1.3	-4.0	0.9	-0.29
	GDDs Totals '10 1971-2000 avg.	204 148	305 342	552 567	707 740	698 696	272 415	243 190	2,981 3,098
DFA*	56	-37	-15	-33	2	-143	53	-117	

\* DFA - departure from normal, difference current year is greater or less (-) than the long-term average.

**Table C. Glyphosate-resistant 2010 corn hybrid entries by brand/hybrid, seed product traits, and index to performance table no.(s).**

Brand/Hybrid	Seed Biotech Traits [1]	Table No.(s)
AGSOURCE/ 3A-889 RR AGSOURCE/ 3P-494+RR/YGPL AGSOURCE/ 3T-294 VT3 AGSOURCE/ 3T-297 VT3 AGSOURCE/ 3T-914 VT3	Gly CB,CRw,Gly CB,CRw,Gly CB,CRw,Gly	1a, 2a 1a, 2a 1a, 2a 1b, 2b 6b
AGSOURCE/ 5N-593GTCBLLRW AGSOURCE/ 5N-813GTCBLLRW AGSOURCE/ 5N695AGTCBLLRW AGSOURCE/ 5X-500A RR/HXT AGSOURCE/ 5X-598A RR/HXT	CB,CRw*,Glu,Gly CB,CRw*,Glu,Gly CB,CRw*,Glu,Gly WBCw,CB,BCw,FAw,CRw*,Glu,Gly WBCw,CB,BCw,FAw,CRw*,Glu,Gly	1a, 2a 6b 3a 2b, 3b 2b, 3a
CHANNEL/ 189-59VT3 CHANNEL/ 190-21VT3P CHANNEL/ 193-46VT3 CHANNEL/ 196-06VT3 CHANNEL/ 199-55VT3	CB,CRw,Gly ECB,SWCB,SCB,CEw,FAw,CRw*,Gly CB,CRw,Gly CB,CRw,Gly CB,CRw,Gly	1a, 2a 1a, 2a 1a, 2a 1b, 2b, 3a, 4a 3a, 4a, 5a
CHANNEL/ 201-16VT3 DAIRYLAND/ ST-6310 DAIRYLAND/ ST-9208Q DAIRYLAND/ ST-9395 DAIRYLAND/ ST-9500Q	CB,CRw,Gly Gly WBCw,CB,BCw,FAw,CRw*,Glu,Gly CB,CRw,Gly WBCw,CB,BCw,FAw,CRw*,Glu,Gly	5a, 6a 6a 6a 1a, 2a 1b, 4a
DAIRYLAND/ ST-9594 DAIRYLAND/ ST-9597Q DAIRYLAND/ ST-9703Q DAIRYLAND/ ST-9789 DAIRYLAND/ ST-9992	CB,CRw,Gly WBCw,CB,BCw,FAw,CRw*,Glu,Gly WBCw,CB,BCw,FAw,CRw*,Glu,Gly CB,CRw,Gly CB,CRw,Gly	1a, 2a 1b, 4a 4b 1a, 2a 1a, 2a
DAIRYLAND/ ST9206Q DEKALB/ DKC42-72(VT3) DEKALB/ DKC43-27(VT3) DEKALB/ DKC45-52(GENV3P) DEKALB/ DKC48-37(VT3)	WBCw,CB,BCw,FAw,CRw*,Glu,Gly CB,CRw,Gly CB,CRw,Gly ECB,SWCB,SCB,CEw,FAw,CRw*,Gly CB,CRw,Gly	6a 1a, 2a, 3a, 4a 1a, 2a, 3a, 4a 1a, 2a, 3a, 4a, 5a 1b, 2b, 3a, 4a, 5a
DEKALB/ DKC50-35(VT3) DEKALB/ DKC50-66(VT3) DEKALB/ DKC51-86(GENV3P) DEKALB/ DKC52-59(VT3) DEKALB/ DKC58-83(GENV3P)	CB,CRw,Gly CB,CRw,Gly ECB,SWCB,SCB,CEw,FAw,CRw*,Gly CB,CRw,Gly ECB,SWCB,SCB,CEw,FAw,CRw*,Gly	1b, 2b, 3a, 4a, 6a 1b, 2b, 3a, 4a, 5a, 6a 2b, 6a 1b, 2b, 5a, 6a 5b, 6a
DEKALB/ DKC59-35(VT3) DEKALB/ DKC59-88(VT3) DEKALB/ DKC61-69(VT3) DEKALB/ DKC62-54(VT3) DEKALB/ DKC63-84(VT3)	CB,CRw,Gly CB,CRw,Gly CB,CRw,Gly CB,CRw,Gly CB,CRw,Gly	5b, 6a 5b, 6a 5b, 6b 6b 6b
EPLEY/ E1125GT EPLEY/ E1275RR EPLEY/ E1315RR EPLEY/ E1418GT3000 EPLEY/ E1479HXTLLRR	Gly Gly Gly CB,CRw*,Glu,Gly WBCw,CB,BCw,FAw,CRw*,Glu,Gly	1b, 2b 1b, 2b, 4a 3a, 4a, 5a 3b, 4b, 5a 3b, 4b, 5a, 6a
EPLEY/ E1535GT EPLEY/ E2404VT3PRO G2 GEN./ 5H-007 RR/HX G2 GEN./ 5H-105 RR/HX G2 GEN./ 5H-210 RR/HX	Gly ECB,SWCB,SCB,CEw,FAw,CRw*,Gly WBCw,CB,BCw,FAw,Glu, Gly WBCw,CB,BCw,FAw,Glu, Gly WBCw,CB,BCw,FAw,Glu, Gly	3b, 4b, 5a, 6a 6a 4b 3b, 4b, 5a 5b, 6a
G2 GEN./ 5H-404 RR/HX G2 GEN./ 5H-501 RR/HX G2 GEN./ 5H-501A RR/HX G2 GEN./ 5H-502 RR/HX G2 GEN./ 5H-502A RR/HX	WBCw,CB,BCw,FAw,Glu, Gly WBCw,CB,BCw,FAw,Glu, Gly WBCw,CB,BCw,FAw,Glu, Gly WBCw,CB,BCw,FAw,Glu, Gly WBCw,CB,BCw,FAw,Glu, Gly	3b, 4b 1b, 4a, 5a 3b 2b, 3a, 4a, 5a 3b
G2 GEN./ 5H-509 RR/HX G2 GEN./ 5H-511 RR/HX G2 GEN./ 5H-511A RR/HX G2 GEN./ 5H-513 RR/HX G2 GEN./ 5H-597 RR/HX	WBCw,CB,BCw,FAw,Glu, Gly WBCw,CB,BCw,FAw,Glu, Gly WBCw,CB,BCw,FAw,Glu, Gly WBCw,CB,BCw,FAw,Glu, Gly WBCw,CB,BCw,FAw,Glu, Gly	5b, 6a 5b, 6a 6b 6b 1b

**Table C. Glyphosate-resistant 2010 corn hybrid entries by brand/hybrid, seed product traits, and index to performance table no.(s) (continued).**

Brand/Hybrid	Seed Biotech Traits [1]	Table No.(s)
G2 GEN./ 5H-597A RR/HX G2 GEN./ 5H-696 RR/HX G2 GEN./ 5H-700 RR/HX G2 GEN./ 5H-797 RR/HX G2 GEN./ 5H-812 RR/HX	WBCw,CB,BCw,FAw,Glu, Gly WBCw,CB,BCw,FAw,Glu, Gly WBCw,CB,BCw,FAw,Glu, Gly WBCw,CB,BCw,FAw,Glu, Gly WBCw,CB,BCw,FAw,Glu, Gly	1a, 2a 1a, 2a 3a, 4a 1b, 2b 6b
G2 GEN./ 5H-891 RR/HX G2 GEN./ 5H-905 RR/HX G2 GEN./ 5H-992 RR/HX G2 GEN./ 5H-999 RR/HX G2 GEN./ 5X-007 RR/HXT	WBCw,CB,BCw,FAw,Glu, Gly WBCw,CB,BCw,FAw,Glu, Gly WBCw,CB,BCw,FAw,Glu, Gly WBCw,CB,BCw,FAw,Glu, Gly WBCw,CB,BCw,FAw,CRw*,Glu,Gly	1a, 2a 4b, 5a 1a, 2a 2b 4b, 5a
G2 GEN./ 5X-411 RR/HXT G2 GEN./ 5X-411A RR/HXT G2 GEN./ 5X-411B RR/HXT G2 GEN./ 5X-500 RR/HXT G2 GEN./ 5X-512 RR/HXT	WBCw,CB,BCw,FAw,CRw*,Glu,Gly WBCw,CB,BCw,FAw,CRw*,Glu,Gly WBCw,CB,BCw,FAw,CRw*,Glu,Gly WBCw,CB,BCw,FAw,CRw*,Glu,Gly WBCw,CB,BCw,FAw,CRw*,Glu,Gly	5b, 6a 5b, 6a 6b 1b, 2b, 3a, 4a 6b
G2 GEN./ 5X-598 RR/HXT G2 GEN./ 5X-895 RR/HXT HEINE/ 723VT3 HEINE/ 742VT3 HEINE/ 744RRYGCB	WBCw,CB,BCw,FAw,CRw*,Glu,Gly Gly CB,CRw,Gly CB,CRw,Gly	1b, 2b, 3a, 4a 1a, 2a 4b 4b 4b
HEINE/ 745VT3 HEINE/ 810VT3 PRO HOEGEMEYER/ EX6200GTCBLL HOEGEMEYER/ EX68383000GT HOEGEMEYER/ EXP6456HXRR	CB,CRw,Gly ECB,SWCB,SCB,CEw,FAw,CRw*,Gly CB,Glu,Gly CB,CRw*,Glu,Gly WBCw,CB,BCw,FAw,Glu, Gly	4b 6a 4a 4a 4a
HOEGEMEYER/ EXP7998HXRR HOEGEMEYER/ HPT6589HXRR HOEGEMEYER/ HPT7584HXTRR HOEGEMEYER/ HPT7757HXTRR HOEGEMEYER/ HPT8041HXRR	WBCw,CB,BCw,FAw,Glu, Gly WBCw,CB,BCw,FAw,Glu, Gly WBCw,CB,BCw,FAw,CRw*,Glu,Gly WBCw,CB,BCw,FAw,CRw*,Glu,Gly WBCw,CB,BCw,FAw,Glu, Gly	6a 4a 6a 6a 6a
MASTERS CHOICE/ MCT-480 MASTERS CHOICE/ MCT-493 MASTERS CHOICE/ MCT-527 NUTECH/ 3A-109 GT NUTECH/ 3A-406 GT	Gly CB,CRw*,Glu,Gly CB,CRw*,Glu,Gly Gly Gly	1a 1a 5a 6a 5b
NUTECH/ 3A-710 GT NUTECH/ 3A-804 GT NUTECH/ 3C-889 RR/YGCB NUTECH/ 3C-889A RR/YGCB NUTECH/ 3P-494+ RR/YGPL	Gly Gly CRw*,Gly CRw*,Gly CB,CRw*,Gly	5b, 6a 4b 1a, 2a 1a 1a, 2a
NUTECH/ 3T-098 VT3 NUTECH/ 3T-300 VT3 NUTECH/ 3T-393 VT3 NUTECH/ 3T-401 VT3 NUTECH/ 3T-401A VT3	CB,CRw,Gly CB,CRw,Gly CB,CRw,Gly CB,CRw,Gly CB,CRw,Gly	1b, 2b, 3a, 4a 1b, 4a 1a, 2a 1b, 2b, 3a, 4a, 5a 3b, 4b
NUTECH/ 3T-413 VT3 NUTECH/ 3T-415 VT3 NUTECH/ 3T-603A VT3 NUTECH/ 3T-713 VT3 NUTECH/ 3T-810 VT3	CB,CRw,Gly CB,CRw,Gly CB,CRw,Gly CB,CRw,Gly CB,CRw,Gly	6b 6b 5a 5b, 6b 5b, 6a
NUTECH/ 5B-290 GT/CB/LL NUTECH/ 5B-612 GT/CB/LL NUTECH/ 5H-700A RR/HX NUTECH/ 5N-001 GTCBLLRW NUTECH/ 5N-102 GTCBLLRW	CB,Glu,Gly CB,Glu,Gly WBCw,CB,BCw,FAw,Glu, Gly CB,CRw*,Glu,Gly CB,CRw*,Glu,Gly	2a 5b, 6b 2b 3a 1b, 2b, 3a, 4a, 5a
NUTECH/ 5N-102AGTCBLLRW NUTECH/ 5N-197 GTCBLLRW NUTECH/ 5N-197AGTCBLLRW NUTECH/ 5N-215 GTCBLLRW NUTECH/ 5N-695 GTCBLLRW	CB,CRw*,Glu,Gly CB,CRw*,Glu,Gly CB,CRw*,Glu,Gly CB,CRw*,Glu,Gly CB,CRw*,Glu,Gly	3b, 4b 1b, 2b, 3a, 4a 1a, 2a 6b 1a, 2a



**Table C. Glyphosate-resistant 2010 corn hybrid entries by brand/hybrid, seed product traits, and index to performance table no.(s) (continued).**

Brand/Hybrid	Seed Biotech Traits [1]	Table No.(s)
NUTECH/ 5N-803 GTCBLLRW NUTECH/ 5N-804 GTCBLLRW PIONEER/ PIONEER BR.33P83 PIONEER/ PIONEER BR.36V53 PIONEER/ PIONEER BR.37K11	CB,CRw*,Glu,Gly CB,CRw*,Glu,Gly WBCw,CB,BCw,FAw,CRw*,Glu,Gly WBCw,CB,BCw,FAw,Glu,Gly WBCw,CB,BCw,FAw,Glu,Gly	3b, 4b, 5a 3b, 4b, 5a 6b 1b, 3b, 4b, 5a, 6a 5a
PIONEER/ PIONEER BR.38H08 PIONEER/ PIONEER BR.P0461HR PIONEER/ PIONEER BR.P0461XR PIONEER/ PIONEER BR.P8917XR PIONEER/ PIONEER BR.P9176XR	WBCw,CB,BCw,FAw,Glu,Gly WBCw,CB,BCw,FAw,CRw*,Glu,Gly WBCw,CB,BCw,FAw,CRw*,Glu,Gly Gly Gly	1a, 2a 5a 3b, 4b, 6a 2a 2a
PIONEER/ PIONEER BR.P9494XR SEEDS 2000/ 3172RR SEEDS 2000/ 9501VT3 SEEDS 2000/ 9502VT3 SEEDS 2000/ 9701SS	Gly CRw*,Gly CB,CRw,Gly CB,CRw,Gly ECB,SWCB,SCB,CEw,FAw,CRw*,WBCw,BCw,Gly	1a, 3a, 4a 5b 1a, 2a 1a, 2a 1b, 2b, 3a, 4a
SEEDS 2000/ 9901VT3 SEEDS 2000/ EXP 9602G3 SEEDS 2000/ EXP X104G3 SEEDS 2000/ EXP X299V WENSMAN/ W 7230VT3	CB,CRw,Gly CB,CRw*,Glu,Gly CB,CRw*,Glu,Gly CB,CRw,Gly CB,CRw,Gly	1b, 2b, 3a, 4a 1b, 2b, 3a, 4a 3b, 4b, 5a 1b, 2b, 3a, 4a 3a, 4a
WENSMAN/ W 7267VT3 WENSMAN/ W 7270VT3PRO WENSMAN/ W 7273VT3 WENSMAN/ W 7289VT3 WENSMAN/ W 7433VT3	CB,CRw,Gly ECB,SWCB,SCB,CEw,FAw,CRw*,Gly CB,CRw,Gly CB,CRw,Gly CB,CRw,Gly	3a, 4a 3a, 4a 3a, 4a 3a, 4a, 5a 3b, 4b, 5a, 6a
WENSMAN/ W 7455VT3 WENSMAN/ W 7473VT3 WENSMAN/ W 7562VT3 WENSMAN/ W 8180STX WENSMAN/ W 8364STX	CB,CRw,Gly CB,CRw,Gly CB,CRw,Gly ECB,SWCB,SCB,CEw,FAw,CRw*,WBCw,BCw,Gly ECB,SWCB,SCB,CEw,FAw,CRw*,WBCw,BCw,Gly	3b, 4b, 5b, 6a 5b, 6a 5b, 6b 3a, 4a 3b, 4b, 5a, 6a

[1] Insect traits - Black Cutworm (BCw), Western Bean Cutworm (WBCw), Corn Borer (CB), Eastern Corn Borer (ECB), Southwestern Corn Borer (SWCB), Sugarcane Borer (SCB), Corn Rootworm (CRw), CRw\*(includes Mexican, Northern, and Western Corn Rootworm, Fall Armyworm (FAw), and Corn Earworm CEw.

Herbicide traits - Glyphosate tolerance (Gly) and Glufosinate tolerance (Glu).

**NOTE:** Biotech traits were obtained by referencing the product registrant trade name and seed characteristics as listed in the Know Before You Grow section at the National Corn Growers Website (<http://www.ncga.com/>) with the hybrid information supplied by each seed company. Biotech seed products change over time, therefore, growers are strongly encouraged to verify all biotech traits of interest with the respective seed dealer.

**Table D. Explanation of performance table footnotes.**

No.	Explanation of footnotes
[1]	Entries are listed by Brand/Variety– Entries are sorted by 2-yr then by 2009 yield average.
[2]	Brand Relative Maturity (Rel. Mat.)– the relative maturity rating as reported by the seed company.
[3]	Lodging Percentage– percentage of stalks broken below the ear at harvest.
[4]	Final Stand Percentage – the number of standing stalks at harvest as a percentage of the seeded population.
[5]	Least Significant Difference (LSD 0.05) – the difference any two values within a column must be equal to or exceed for the values to be significantly different (0.05 level of probability). If the difference is less than the LSD values the difference between them are nonsignificant (NS).
[6]	Min. TPG-avg.– the minimum column value for yield, bushel weight, and final stand percentage that a hybrid must equal or exceed to be in the TPG.
[7]	Max. TPG-avg.– the maximum column value for grain moisture at harvest, lodging percentage, or lodging score that a hybrid must equal or be less than to be in the TPG.
[8]	Coefficient of variation (C.V.)– the percent of experimental error associated with a test trial. Ideally, the CV value for yield is less than 15%. Values less than 5% are less common while values of 6-15% are more common. If a value exceeds 15%; the trial contained too much experimental error to be valid, so the results are not reported.

**Table E. Mailing addresses for seed entries in the 2010 corn hybrid trials by seed brand name.**

Seed brand	Seed company mailing address
AgSource	AgSource Seeds Inc., 415 S. Duff Avenue, Suite C, Ames, IA 50010
Dairyland	Dairyland Seed, PO Box 958, West Bend, WI 53095
Dekalb	Monsanto, 102 W. Carol Ave., Cortland, IL 60112
Masters Choice	3010 St. Rt. 146 E, Anna, IL 62906
Epley Bros.	Epley Bros. Hybrids Inc., PO Box 310, Shell Rock, IA 50670
G-2 Genetics	G-2 Genetics, 415 S. Duff Avenue, Suite C, Ames, IA 50010
Heine	Heine Hybrid Seed Corn, 1020 E. 320th St., Vermillion, SD 57069
Hoegemeyer	Hoegemeyer Hybrids, 1755 Hoegemeyer Road, Hooper, NE 68031
Channel	Channelbio Corp., Box 277, Laurel, NE 68745
NuTech	Nutech Seed, LLC, 415 S. Duff Avenue, Suite C, Ames, IA 50010
Pioneer	Pioneer Hi-Bred International, 151 Saint Andrews Court, Mankato, MN 5600
Seeds 2000	Seeds 2000, 115 N 3rd St., Breckenridge, MN 56520
Wensman	Wensman Seed Co., PO Box 190, 63585 HWY 10, Wadena, MN 56482

**Table 1a. Warner early maturity Roundup Ready corn hybrid test results, 2009-10, Allen & Inel Ryckman Farm.  
Seeded May 4, 2010 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages*		Other 2010 Averages*			
		2-Yr bu/a	2010 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
AGSOURCE/ 3P-494+RR/YGPL + Cruiser 250	94	228	215	56	16	0	100
DAIRYLAND/ ST-9594 + Cruiser Extreme 250	94	222	197	59	16	0	95
DAIRYLAND/ ST-9395 + Cruiser Extreme 250	95	221	197	56	16	1	91
SEEDS 2000/ 9501VT3 + Poncho 250	95	221	197	56	16	1	94
PIONEER/ PIONEER BR.38H08 + Poncho 1250	92	215	205	55	16	0	95
DEKALB/ DKC42-72(VT3) + Poncho 250	92	211	189	56	16	0	98
SEEDS 2000/ 9502VT3 + Poncho 250	95	209	187	56	17	1	91
DEKALB/ DKC43-27(VT3) + Poncho 250	93	199	179	57	16	0	89
AGSOURCE/ 3T-294 VT3 + Poncho 250	94	198	188	57	17	0	96
MASTERS CHOICE/ MCT-493 + Poncho 250	93	.	218	58	17	0	100
G2 GEN./ 5H-597A RR/HX + Cruiser 250	95	.	214	57	18	1	93
DEKALB/ DKC45-52(GENVT3P) + Acceleron	95	.	213	57	16	0	98
G2 GEN./ 5H-696 RR/HX + Cruiser 250	95	.	213	55	21	0	96
CHANNEL/ 190-21VT3P + Acceleron	90	.	205	57	15	1	99
NUTECH/ 3P-494+ RR/YGPL +	94	.	200	56	16	0	100
DAIRYLAND/ ST-9992 + Cruiser Extreme 250	92	.	199	56	16	0	94
NUTECH/ 3C-889A RR/YGCB + Poncho 250	89	.	199	56	16	0	89
NUTECH/ 5N-197AGTCBLLRW + Poncho 250	95	.	198	55	20	0	86
AGSOURCE/ 5N-593GTCBLLRW + Poncho 250	93	.	197	56	17	0	96
PIONEER/ PIONEER BR.P9494XR + Poncho 1250	94	.	196	54	17	0	97
DAIRYLAND/ ST-9789 + Cruiser Extreme 250	89	.	196	58	16	0	97
G2 GEN./ 5X-895 RR/HXT + Cruiser 250	95	.	196	53	20	0	85
NUTECH/ 5N-695 GTCBLLRW + Cruiser 250	95	.	194	56	19	0	89
CHANNEL/ 193-46VT3 + Acceleron	93	.	194	58	16	0	97
CHANNEL/ 189-59VT3 + Acceleron	89	.	193	56	16	0	95
MASTERS CHOICE/ MCT-480 + Poncho 250	90	.	191	57	17	2	99
NUTECH/ 3C-889 RR/YGCB + Poncho 250	89	.	190	57	17	0	93
AGSOURCE/ 3A-889 RR + Poncho 250	89	.	190	57	16	0	95
G2 GEN./ 5H-891 RR/HX + Cruiser 250	91	.	188	57	15	0	96
G2 GEN./ 5H-992 RR/HX + Cruiser 250	92	.	174	54	16	0	61
NUTECH/ 3T-393 VT3 + Cruiser 250	93	.	173	56	17	0	72
Trial avg.:	93	214	196	56	17	0	93
High avg.:	95	228	218	59	21	2	103
Low avg.:	89	198	173	53	15	0	61
[5] LSD(.05):		20	19	1	1	1	6
[6] Min.TPG value:		208	199	58	.	.	95
[7] Max.TPG value:		.	.	.	16	1	.
[8] Coef. of var.:		4	6	1	5	320	4
No. entries:	31	9	31	31	31	31	31

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2010 yield average.

\* Shaded values within a column are included in the top-performance group - look for hybrids with one or more shaded values; the more the better. Note that additional table footnotes are explained in table D.

**Table 1b. Warner late maturity Roundup Ready corn hybrid test results, 2009-10, Allen & Inel Ryckman Farm.  
Seeded May 4, 2010 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages*		Other 2010 Averages*			
		2-Yr bu/a	2010 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
DEKALB/ DKC52-59(VT3) + Poncho 250	102	236	231	56	20	0	100
NUTECH/ 3T-401 VT3 + Cruiser 250	100	230	227	59	20	0	97
DEKALB/ DKC50-66(VT3) + Poncho 250	100	230	226	58	16	0	100
NUTECH/ 3T-098 VT3 + Cruiser 250	98	230	214	59	18	1	90
G2 GEN./ 5H-501 RR/HX + Cruiser 250	100	227	214	57	21	0	91
G2 GEN./ 5H-797 RR/HX + Cruiser 250	97	227	213	57	18	0	93
NUTECH/ 3T-300 VT3 + Cruiser 250	100	226	222	56	20	1	82
SEEDS 2000/ 9901VT3 + Poncho 250	99	216	195	59	19	0	81
DAIRYLAND/ ST-9500Q + Cruiser Extreme 250	100	210	212	57	22	0	95
DAIRYLAND/ ST-9597Q + Cruiser Extreme 250	97	210	201	58	18	1	100
CHANNEL/ 196-06VT3 + Accelaron	96	.	226	58	18	0	95
SEEDS 2000/ EXP 9602G3 + Cruiser 250	96	.	222	57	18	0	93
NUTECH/ 5N-102 GTCBLLRW + Cruiser 250	100	.	221	57	19	1	96
G2 GEN./ 5H-597 RR/HX + Cruiser 250	97	.	221	59	18	1	100
SEEDS 2000/ 9701SS + Accelaron	97	.	219	56	17	3	93
DEKALB/ DKC50-35(VT3) + Poncho 250	100	.	214	58	19	0	98
PIONEER/ PIONEER BR.36V53 + Poncho 1250	102	.	214	57	19	0	90
NUTECH/ 5N-197 GTCBLLRW + Poncho 250	97	.	210	58	18	0	86
EPLEY/ E1125GT + Maxim XL,Lorsban Dynasty	98	.	208	57	19	5	99
DEKALB/ DKC48-37(VT3) + Poncho 250	98	.	203	60	17	0	93
G2 GEN./ 5X-500 RR/HXT + Cruiser 250	100	.	196	58	18	1	83
EPLEY/ E1275RR + Maxim XL,Lorsban Dynasty	97	.	196	59	17	1	91
G2 GEN./ 5X-598 RR/HXT + Cruiser 250	98	.	195	57	19	1	86
AGSOURCE/ 3T-297 VT3 + Poncho 250	97	.	159	58	17	0	67
SEEDS 2000/ EXP X299V + Poncho 250	99	.	155	59	19	0	64
Trial avg.:	99	224	209	58	19	1	90
High avg.:	102	236	231	60	22	5	100
Low avg.:	96	210	155	56	16	0	64
[5] LSD(.05):		NS**	20	1	2	NS	4
[6] Min.TPG value:		210	211	59	.	.	96
[7] Max.TPG value:		.	.	.	18	5	.
[8] Coef. of var.:		5	6	1	6	275	3
No. entries:	25	10	25	25	25	25	25

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2010 yield average.

\* Shaded values within a column are included in the top-performance group - look for hybrids with one or more shaded values; the more the better.

\*\* Indicates differences between values within a column are non-significant (NS).

Note that additional table footnotes are explained in table D.

**Table 2a. South Shore early maturity Roundup Ready corn hybrid test results, 2009-10, Northeast Research Farm.  
Seeded May 5, 2010 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages*		Other 2010 Averages*			
		2-Yr bu/a	2010 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
DAIRYLAND/ ST-9594 + Cruiser Extreme 250	94	213	212	59	17	0	98
DAIRYLAND/ ST-9789 + Cruiser Extreme 250	89	209	208	58	17	0	97
AGSOURCE/ 3T-294 VT3 + Poncho 250	94	207	207	58	17	0	100
DAIRYLAND/ ST-9395 + Cruiser Extreme 250	95	206	200	57	17	1	85
DEKALB/ DKC42-72(VT3) + Poncho 250	92	206	199	57	17	0	91
DEKALB/ DKC43-27(VT3) + Poncho 250	93	204	196	57	16	1	91
SEEDS 2000/ 9502VT3 + Poncho 250	95	199	195	57	18	0	87
SEEDS 2000/ 9501VT3 + Poncho 250	95	197	190	56	15	1	100
PIONEER/ PIONEER BR.38H08 + Poncho 1250	92	196	196	55	15	1	90
AGSOURCE/ 3P-494+RR/YGPL + Cruiser 250	94	195	197	55	15	1	94
CHANNEL/ 190-21VT3P + Acceleron	90	.	213	59	16	0	99
DAIRYLAND/ ST-9992 + Cruiser Extreme 250	92	.	212	56	17	1	99
NUTECH/ 3P-494+ RR/YGPL +	94	.	211	55	16	2	95
NUTECH/ 5B-290 GT/CB/LL + Poncho 250	90	.	211	56	15	1	99
DEKALB/ DKC45-52(GENVT3P) + Acceleron	95	.	210	57	17	0	100
G2 GEN./ 5H-696 RR/HX + Cruiser 250	95	.	205	57	18	0	96
AGSOURCE/ 5N-593GTCBLLRW + Poncho 250	93	.	203	56	15	0	98
G2 GEN./ 5H-597A RR/HX + Cruiser 250	95	.	202	57	18	0	92
CHANNEL/ 189-59VT3 + Acceleron	89	.	202	57	16	0	94
NUTECH/ 3C-889 RR/YGCB + Poncho 250	89	.	199	57	16	0	97
G2 GEN./ 5H-891 RR/HX + Cruiser 250	91	.	198	56	14	0	94
AGSOURCE/ 3A-889 RR + Poncho 250	89	.	198	56	15	0	94
PIONEER/ PIONEER BR.P9176XR + Poncho 1250	91	.	197	58	16	1	97
CHANNEL/ 193-46VT3 + Acceleron	93	.	195	57	16	1	95
NUTECH/ 5N-695 GTCBLLRW + Cruiser 250	95	.	189	55	16	7	86
NUTECH/ 5N-197AGTCBLLRW + Poncho 250	95	.	184	56	16	5	89
PIONEER/ PIONEER BR.P8917XR + Poncho 1250	89	.	178	58	16	1	89
NUTECH/ 3T-393 VT3 + Cruiser 250	93	.	178	55	17	0	80
G2 GEN./ 5H-992 RR/HX + Cruiser 250	92	.	178	54	16	0	64
G2 GEN./ 5X-895 RR/HXT + Cruiser 250	95	.	176	54	17	0	77
Trial avg.:	93	203	198	56	16	1	92
High avg.:	95	213	213	59	18	7	100
Low avg.:	89	195	176	54	14	0	64
[5] LSD(.05):		NS**	17	2	1	2	5
[6] Min.TPG value:		195	196	57	.	.	95
[7] Max.TPG value:		.	.	.	15	2	.
[8] Coef. of var.:		4	5	2	6	145	4
No. entries:	30	10	30	30	30	30	30

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2010 yield average.

\* Shaded values within a column are included in the top-performance group - look for hybrids with one or more shaded values; the more the better.

\*\* Indicates differences between values within a column are non-significant (NS).

Note that additional table footnotes are explained in table D.

**Table 2b. South Shore late maturity Roundup Ready corn hybrid test results, 2009-10, Northeast Research Farm.  
Seeded May 5, 2010 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages*		Other 2010 Averages*			
		2-Yr bu/a	2010 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
G2 GEN./ 5H-999 RR/HX + Cruiser 250	99	220	224	59	19	1	96
DEKALB/ DKC50-66(VT3) + Poncho 250	100	218	222	60	17	0	99
NUTECH/ 3T-401 VT3 + Cruiser 250	100	214	235	58	22	0	100
NUTECH/ 3T-098 VT3 + Cruiser 250	98	208	228	59	20	0	94
DEKALB/ DKC48-37(VT3) + Poncho 250	98	208	207	60	17	0	91
G2 GEN./ 5H-797 RR/HX + Cruiser 250	97	204	212	59	18	0	92
SEEDS 2000/ 9901VT3 + Poncho 250	99	201	207	59	20	0	83
DEKALB/ DKC50-35(VT3) + Poncho 250	100	.	239	59	21	0	98
DEKALB/ DKC51-86(GENVT3P) + Accelaron	101	.	238	59	20	0	100
DEKALB/ DKC52-59(VT3) + Poncho 250	102	.	228	59	20	0	92
G2 GEN./ 5H-502 RR/HX + Cruiser 250	100	.	226	58	22	1	91
SEEDS 2000/ EXP 9602G3 + Cruiser 250	96	.	226	57	17	0	97
CHANNEL/ 196-06VT3 + Accelaron	96	.	224	59	19	1	98
NUTECH/ 5H-700A RR/HX + Cruiser 250	100	.	219	58	21	0	88
NUTECH/ 5N-197 GTCBLLRW + Poncho 250	97	.	217	58	21	3	89
NUTECH/ 5N-102 GTCBLLRW + Cruiser 250	100	.	212	56	21	1	92
EPLEY/ E1275RR + Maxim XL,Lorsban Dynasty	97	.	212	59	17	2	97
SEEDS 2000/ 9701SS + Accelaron	97	.	207	59	17	3	92
EPLEY/ E1125GT + Maxim XL,Lorsban Dynasty	98	.	206	57	19	9	91
AGSOURCE/ 3T-297 VT3 + Poncho 250	97	.	202	59	19	0	80
G2 GEN./ 5X-500 RR/HXT + Cruiser 250	100	.	201	59	19	0	87
AGSOURCE/ 5X-598A RR/HXT + Cruiser 250	98	.	199	57	19	1	84
G2 GEN./ 5X-598 RR/HXT + Cruiser 250	98	.	196	57	19	0	80
AGSOURCE/ 5X-500A RR/HXT + Cruiser 250	101	.	196	58	19	0	90
SEEDS 2000/ EXP X299V + Poncho 250	99	.	178	59	20	0	66
Trial avg.:	99	210	214	59	19	1	91
High avg.:	102	220	239	60	22	9	100
Low avg.:	96	201	178	56	17	0	66
[5] LSD(.05):		NS**	17	1	1	3	5
[6] Min.TPG value:		201	222	59	.	.	95
[7] Max.TPG value:		.	.	.	18	3	.
[8] Coef. of var.:		5	5	1	4	248	4
No. entries:	25	7	25	25	25	25	25

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2010 yield average.

\* Shaded values within a column are included in the top-performance group - look for hybrids with one or more shaded values; the more the better.

\*\* Indicates differences between values within a column are non-significant (NS).

Note that additional table footnotes are explained in table D.

**Table 3a. Bancroft early maturity glyphosate-resistant corn hybrid test results, 2009-10, E. Weerts Farms Inc. Seeded May 19, 2010 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages*		Other 2010 Averages*			
		2-Yr bu/a	2010 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
DEKALB/ DKC48-37(VT3) + Poncho 250	98	177	159	56	16	2	90
DEKALB/ DKC50-66(VT3) + Poncho 250	100	176	165	56	17	1	99
WENSMAN/ W 7270VT3PRO + Acceleron	97	175	160	57	16	1	98
NUTECH/ 3T-098 VT3 + Cruiser 250	98	173	163	54	17	4	94
NUTECH/ 3T-401 VT3 + Cruiser 250	100	171	169	57	19	2	100
DEKALB/ DKC43-27(VT3) + Poncho 250	93	170	146	57	16	0	91
DEKALB/ DKC50-35(VT3) + Poncho 250	100	167	152	56	17	0	90
WENSMAN/ W 7289VT3 + Poncho 250	99	166	153	57	18	3	96
SEEDS 2000/ 9901VT3 + Poncho 250	99	156	152	58	20	0	88
EPLEY/ E1315RR + Maxim XL,Lorsban Dynasty	100	156	144	55	18	7	94
WENSMAN/ W 7267VT3 + Poncho 250	97	.	168	54	17	7	95
CHANNEL/ 199-55VT3 + Acceleron	99	.	165	55	16	3	96
G2 GEN./ 5H-502 RR/HX + Cruiser 250	100	.	160	56	19	1	97
SEEDS 2000/ EXP 9602G3 + Cruiser 250	96	.	158	54	15	0	95
CHANNEL/ 196-06VT3 + Acceleron	96	.	156	55	16	4	94
SEEDS 2000/ 9701SS + Acceleron	97	.	155	55	19	1	99
PIONEER/ PIONEER BR.P9494XR + Poncho 1250	94	.	153	53	16	2	94
G2 GEN./ 5H-700 RR/HX + Cruiser 250	100	.	153	57	18	3	93
NUTECH/ 5N-001 GTCBLLRW + Cruiser 250	100	.	152	53	17	2	95
DEKALB/ DKC42-72(VT3) + Poncho 250	92	.	150	56	16	0	92
WENSMAN/ W 7273VT3 + Poncho 250	98	.	150	55	18	9	92
NUTECH/ 5N-197 GTCBLLRW + Poncho 250	97	.	149	55	19	1	90
WENSMAN/ W 8180STX + Acceleron	95	.	147	56	17	7	99
DEKALB/ DKC45-52(GENVT3P) + Acceleron	95	.	146	56	16	3	100
G2 GEN./ 5X-500 RR/HXT + Cruiser 250	100	.	146	55	18	2	94
WENSMAN/ W 7230VT3 + Poncho 250	96	.	145	57	16	9	96
AGSOURCE/ 5X-598A RR/HXT + Cruiser 250	98	.	144	56	18	0	87
SEEDS 2000/ EXP X299V + Poncho 250	99	.	141	57	17	5	96
G2 GEN./ 5X-598 RR/HXT + Cruiser 250	98	.	140	55	19	0	81
AGSOURCE/ 5N695AGTCBLLRW + Cruiser 250	95	.	136	56	17	5	82
NUTECH/ 5N-102 GTCBLLRW + Cruiser 250	100	.	127	56	18	4	87
Trial avg.:	98	169	152	56	17	3	93
High avg.:	100	177	169	58	20	9	100
Low avg.:	92	156	127	53	15	0	81
[5] LSD(0.05):		NS**	26	1	2	4	6
[6] Min.TPG value:		156	143	57	.	.	94
[7] Max.TPG value:		.	.	.	17	4	.
[8] Coef. of var.:		9	10	2	6	91	4
No. entries:	31	10	31	31	31	31	31

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2010 yield average.

\* Shaded values within a column are included in the top-performance group - look for hybrids with one or more shaded values; the more the better.

\*\* Indicates differences between values within a column are non-significant (NS).

Note that additional table footnotes are explained in table D.

**Table 3b. Bancroft late maturity glyphosate-resistant corn hybrid test results, 2009-10, E. Weerts Farms Inc.  
Seeded May 19, 2010 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages*		Other 2010 Averages*			
		2-Yr bu/a	2010 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
PIONEER/ PIONEER BR.36V53 + Poncho 1250	102	173	172	54	20	1	98
WENSMAN/ W 7455VT3 + Poncho 250	107	158	164	51	24	2	96
NUTECH/ 5N-804 GTCBLLRW + Cruiser 250	104	.	175	53	22	0	97
G2 GEN./ 5H-404 RR/HX + Cruiser 250	104	.	173	55	21	0	91
G2 GEN./ 5H-502A RR/HX + Cruiser 250	102	.	172	56	20	1	98
EPLEY/ E1535GT + Maxim XL,Lorsban Dynasty	104	.	171	54	20	1	96
SEEDS 2000/ EXP X104G3 + Cruiser 250	104	.	170	53	22	0	93
EPLEY/ E1418GT3000 + Cruiser Extreme 250	104	.	164	52	24	0	98
WENSMAN/ W 7433VT3 + Poncho 250	105	.	164	54	22	4	96
EPLEY/ E1479HXTLLRR + Cruiser Extreme 250	104	.	162	53	23	3	96
AGSOURCE/ 5X-500A RR/HXT + Cruiser 250	101	.	161	56	18	1	93
NUTECH/ 5N-803 GTCBLLRW + Cruiser 250	103	.	155	52	21	2	91
G2 GEN./ 5H-501A RR/HX + Cruiser 250	101	.	155	55	20	2	98
G2 GEN./ 5H-105 RR/HX + Cruiser 250	105	.	155	55	21	2	94
NUTECH/ 3T-401A VT3 + Cruiser 250	101	.	152	56	20	4	94
NUTECH/ 5N-102AGTCBLLRW + Cruiser 250	102	.	152	55	19	1	92
PIONEER/ PIONEER BR.P0461XR + Poncho 1250	104	.	151	54	22	0	93
WENSMAN/ W 8364STX + Acceleron	103	.	141	55	21	4	97
Trial avg.:	103	165	161	54	21	1	95
High avg.:	107	173	175	56	24	4	98
Low avg.:	101	158	141	51	18	0	91
[5] LSD(0.05):		NS**	27	2	2	NS	5
[6] Min.TPG value:		158	148	54	.	.	93
[7] Max.TPG value:		.	.	.	20	4	.
[8] Coef. of var.:		4	10	2	5	150	3
No. entries:	18	2	18	18	18	18	18

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2010 yield average.

\* Shaded values within a column are included in the top-performance group - look for hybrids with one or more shaded values; the more the better.

\*\* Indicates differences between values within a column are non-significant (NS).

Note that additional table footnotes are explained in table D.



**Table 4a. Brookings early maturity glyphosate-resistant corn hybrid test results, 2009-10, Plant Science Farm. Seeded April 28, 2010 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages*		Other 2010 Averages*			
		2-Yr bu/a	2010 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
NUTECH/ 3T-401 VT3 + Cruiser 250	100	250	256	58	17	1	99
DEKALB/ DKC50-66(VT3) + Poncho 250	100	239	242	60	15	1	97
G2 GEN./ 5H-501 RR/HX + Cruiser 250	100	239	233	58	16	1	89
WENSMAN/ W 7267VT3 + Poncho 250	97	229	236	58	16	0	95
DAIRYLAND/ ST-9597Q + Cruiser Extreme 250	97	226	228	57	16	2	99
DAIRYLAND/ ST-9500Q + Cruiser Extreme 250	100	224	226	57	18	2	93
WENSMAN/ W 7270VT3PRO + Acceleron	97	223	219	57	14	1	96
NUTECH/ 3T-300 VT3 + Cruiser 250	100	222	234	58	16	1	91
EPLEY/ E1315RR + Maxim XL,Lorsban Dynasty	100	222	231	56	17	6	97
NUTECH/ 3T-098 VT3 + Cruiser 250	98	222	226	57	16	0	95
SEEDS 2000/ 9901VT3 + Poncho 250	99	220	221	59	16	0	90
DEKALB/ DKC43-27(VT3) + Poncho 250	93	203	193	58	13	1	87
WENSMAN/ W 7273VT3 + Poncho 250	98	.	256	57	16	0	97
CHANNEL/ 199-55VT3 + Acceleron	99	.	256	56	16	0	99
DEKALB/ DKC50-35(VT3) + Poncho 250	100	.	246	57	16	0	98
G2 GEN./ 5H-502 RR/HX + Cruiser 250	100	.	246	58	17	1	92
HOEGEMEYER/ EX6200GTCBLL + Poncho or Cruiser 250	92	.	243	56	14	2	93
G2 GEN./ 5H-700 RR/HX + Cruiser 250	100	.	242	58	17	0	98
DEKALB/ DKC45-52(GENV3P) + Acceleron	95	.	237	58	15	0	99
NUTECH/ 5N-197 GTCBLLRW + Poncho 250	97	.	236	58	16	4	92
SEEDS 2000/ EXP 9602G3 + Cruiser 250	96	.	234	56	15	1	98
CHANNEL/ 196-06VT3 + Acceleron	96	.	234	57	16	0	93
HOEGEMEYER/ EX68383000GT + Poncho or Cruiser 250	97	.	233	57	16	0	85
WENSMAN/ W 7289VT3 + Poncho 250	99	.	232	58	16	0	94
SEEDS 2000/ 9701SS + Acceleron	97	.	227	54	12	2	97
HOEGEMEYER/ HPT6589HXRR + Poncho or Cruiser 250	96	.	226	57	14	0	95
NUTECH/ 5N-102 GTCBLLRW + Cruiser 250	100	.	224	56	16	2	93
WENSMAN/ W 8180STX + Acceleron	95	.	224	57	16	0	95
SEEDS 2000/ EXP X299V + Poncho 250	99	.	223	59	16	1	88
DEKALB/ DKC42-72(VT3) + Poncho 250	92	.	220	57	14	0	93
G2 GEN./ 5X-500 RR/HXT + Cruiser 250	100	.	220	57	15	0	94
PIONEER/ PIONEER BR.P9494XR + Poncho 1250	94	.	219	55	13	0	92
EPLEY/ E1275RR + Maxim XL,Lorsban Dynasty	97	.	211	58	14	7	96
WENSMAN/ W 7230VT3 + Poncho 250	96	.	210	56	15	2	95
DEKALB/ DKC48-37(VT3) + Poncho 250	98	.	208	59	15	0	89
HOEGEMEYER/ EXP6456HXRR + Poncho or Cruiser 250	94	.	207	56	12	5	82
G2 GEN./ 5X-598 RR/HXT + Cruiser 250	98	.	183	56	15	0	79
Trial avg.:	97	226	228	57	15	1	93
High avg.:	100	250	256	60	18	7	99
Low avg.:	92	203	183	54	12	0	79
[5] LSD(0.05):		20	14	1	1	2	5
[6] Min.TPG value:		230	242	59	.	.	94
[7] Max.TPG value:		.	.	.	13	2	.
[8] Coef. of var.:		3	4	1	3	131	3
No. entries:	37	12	37	37	37	37	37

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2010 yield average.

\* Shaded values within a column are included in the top-performance group - look for hybrids with one or more shaded values; the more the better. Note that additional table footnotes are explained in table D.

**Table 4b. Brookings late maturity glyphosate-resistant corn hybrid test results, 2009-10, Plant Science Farm. Seeded April 28, 2009 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages*		Other 2010 Averages*			
		2-Yr bu/a	2010 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
HEINE/ 744RRYGCB + Poncho 250	104	245	247	58	18	0	91
HEINE/ 745VT3 + Poncho 250	104	243	259	58	20	0	96
G2 GEN./ 5H-905 RR/HX + Cruiser 250	105	241	253	56	17	1	91
HEINE/ 742VT3 + Poncho 250	102	235	228	59	17	0	84
PIONEER/ PIONEER BR.36V53 + Poncho 1250	102	230	234	57	17	1	94
DAIRYLAND/ ST-9703Q + Cruiser Extreme 250	103	221	222	56	19	0	85
G2 GEN./ 5H-007 RR/HX + Cruiser 250	105	218	235	56	19	0	89
WENSMAN/ W 7455VT3 + Poncho 250	107	212	197	56	19	1	75
EPLEY/ E1418GT3000 + Cruiser Extreme 250	104	.	259	55	18	1	95
NUTECH/ 5N-803 GTCBLLRW + Cruiser 250	103	.	246	56	16	2	95
HEINE/ 723VT3 + Poncho 250	102	.	245	55	19	0	93
NUTECH/ 5N-804 GTCBLLRW + Cruiser 250	104	.	241	57	17	0	93
WENSMAN/ W 7433VT3 + Poncho 250	105	.	241	56	19	0	91
EPLEY/ E1479HXTLLRR + Cruiser Extreme 250	104	.	240	56	22	0	95
WENSMAN/ W 8364STX + Acceleron	103	.	240	57	18	1	96
NUTECH/ 3T-401A VT3 + Cruiser 250	101	.	238	57	17	2	94
G2 GEN./ 5H-105 RR/HX + Cruiser 250	105	.	233	57	19	0	74
PIONEER/ PIONEER BR.P0461XR + Poncho 1250	104	.	231	57	17	0	89
NUTECH/ 5N-102AGTCBLLRW + Cruiser 250	102	.	231	57	17	0	87
NUTECH/ 3A-804 GT + Cruiser 250	104	.	230	56	17	2	92
SEEDS 2000/ EXP X104G3 + Cruiser 250	104	.	228	57	17	1	90
G2 GEN./ 5X-007 RR/HXT + Cruiser 250	105	.	221	58	19	0	89
EPLEY/ E1535GT + Maxim XL,Lorsban Dynasty	104	.	221	58	16	2	94
G2 GEN./ 5H-404 RR/HX + Cruiser 250	104	.	218	57	17	0	81
Trial avg.:	104	231	235	57	18	1	90
High avg.:	107	245	259	59	22	2	96
Low avg.:	101	212	197	55	16	0	74
[5] LSD(0.05):		15	12	1	1	1	10
[6] Min.TPG value:		230	247	58	.	.	86
[7] Max.TPG value:		.	.	.	17	1	.
[8] Coef. of var.:		4	3	1	3	177	7
No. entries:	24	8	24	24	24	24	24

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2010 yield average.

\* Shaded values within a column are included in the top-performance group - look for hybrids with one or more shaded values; the more the better.

Note that additional table footnotes are explained in table D.

**Table 5a. Geddes early maturity glyphosate-resistant corn hybrid test results, 2009-10, Curtis Sybesma Farm. Seeded May 18, 2010 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages*		Other 2010 Averages*			
		2-Yr bu/a	2010 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
G2 GEN./ 5H-905 RR/HX + Cruiser 250	105	242	238	57	17	0	99
DEKALB/ DKC52-59(VT3) + Poncho 250	102	239	236	58	16	4	97
NUTECH/ 3T-401 VT3 + Cruiser 250	100	237	228	59	17	2	96
PIONEER/ PIONEER BR.36V53 + Poncho 1250	102	235	223	57	16	0	99
WENSMAN/ W 7433VT3 + Poncho 250	105	234	227	58	16	1	95
DEKALB/ DKC50-66(VT3) + Poncho 250	100	231	222	59	15	2	96
G2 GEN./ 5H-501 RR/HX + Cruiser 250	100	231	220	59	16	3	95
CHANNEL/ 199-55VT3 + Acceleron	99	.	237	57	15	3	98
CHANNEL/ 201-16VT3 + Acceleron	101	.	235	60	16	3	94
PIONEER/ PIONEER BR.P0461HR + Poncho 1250	104	.	234	57	17	2	98
NUTECH/ 5N-803 GTCBLLRW + Cruiser 250	103	.	234	58	17	3	94
EPLEY/ E1418GT3000 + Cruiser Extreme 250	104	.	231	57	18	2	94
NUTECH/ 3T-603A VT3 + Cruiser 250	103	.	229	60	17	3	94
EPLEY/ E1479HXTLLRR + Cruiser Extreme 250	104	.	226	58	18	4	97
PIONEER/ PIONEER BR.37K11 + Poncho 1250	99	.	224	58	15	3	99
G2 GEN./ 5H-502 RR/HX + Cruiser 250	100	.	223	59	17	2	85
SEEDS 2000/ EXP X104G3 + Cruiser 250	104	.	223	59	16	3	89
WENSMAN/ W 8364STX + Acceleron	103	.	221	58	17	3	94
MASTERS CHOICE/ MCT-527 + Poncho 250	105	.	220	58	17	3	96
EPLEY/ E1535GT + Maxim XL,Lorsban Dynasty	104	.	220	58	17	1	94
NUTECH/ 5N-804 GTCBLLRW + Cruiser 250	104	.	219	57	17	1	88
G2 GEN./ 5H-105 RR/HX + Cruiser 250	105	.	218	58	17	2	97
WENSMAN/ W 7289VT3 + Poncho 250	99	.	215	61	16	1	99
DEKALB/ DKC45-52(GENVT3P) + Acceleron	95	.	213	59	15	0	99
NUTECH/ 5N-102 GTCBLLRW + Cruiser 250	100	.	209	59	15	4	95
G2 GEN./ 5X-007 RR/HXT + Cruiser 250	105	.	202	59	17	1	90
EPLEY/ E1315RR + Maxim XL,Lorsban Dynasty	100	.	202	57	16	6	96
DEKALB/ DKC48-37(VT3) + Poncho 250	98	.	201	59	15	1	95
Trial avg.:	102	236	223	58	16	2	95
High avg.:	105	242	238	61	18	6	99
Low avg.:	95	231	201	57	15	0	85
[5] LSD(0.05):		NS**	12	1	1	NS	5
[6] Min.TPG value:		231	226	60	.	.	94
[7] Max.TPG value:		.	.	.	16	6	.
[8] Coef. of var.:		4	3	1	4	133	3
No. entries:	28	7	28	28	28	28	28

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2010 yield average.

\* Shaded values within a column are included in the top-performance group - look for hybrids with one or more shaded values; the more the better.

\*\* Indicates differences between values within a column are non-significant (NS).

Note that additional table footnotes are explained in table D.

**Table 5b. Geddes late maturity glyphosate-resistant corn hybrid test results, 2009-10, Curtis Sybesma Farm. Seeded May 18, 2010 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages*		Other 2010 Averages*			
		2-Yr bu/a	2010 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
G2 GEN./ 5H-210 RR/HX + Cruiser 250	110	235	238	58	16	4	89
G2 GEN./ 5H-511 RR/HX + Cruiser 250	110	230	235	59	18	6	95
DEKALB/ DKC61-69(VT3) + Poncho 250	111	223	233	58	19	2	95
WENSMAN/ W 7455VT3 + Poncho 250	107	210	200	57	17	4	95
WENSMAN/ W 7562VT3 + Poncho 250	111	.	243	56	18	3	98
WENSMAN/ W 7473VT3 + Poncho 250	109	.	243	56	20	3	97
DEKALB/ DKC59-35(VT3) + Poncho 250	109	.	240	59	19	1	96
NUTECH/ 5B-612 GT/CB/LL + Poncho 250	112	.	239	54	18	4	93
DEKALB/ DKC58-83(GENV3P) + Acceleron	108	.	237	60	16	3	95
NUTECH/ 3T-810 VT3 + Poncho 250	110	.	232	56	19	5	88
SEEDS 2000/ 3172RR + Poncho 250	107	.	231	56	16	7	99
NUTECH/ 3A-406 GT + Cruiser 250	106	.	229	56	16	0	96
G2 GEN./ 5X-411A RR/HXT + Cruiser 250	110	.	228	58	21	2	90
NUTECH/ 3T-713 VT3 + Poncho 250	113	.	224	57	21	5	94
G2 GEN./ 5X-411 RR/HXT + Cruiser 250	110	.	223	59	20	5	92
G2 GEN./ 5H-509 RR/HX + Cruiser 250	109	.	217	59	18	1	95
NUTECH/ 3A-710 GT + Poncho 250	110	.	211	57	17	7	98
DEKALB/ DKC59-88(VT3) + Poncho 250	109	.	201	58	19	0	90
Trial avg.:	110	224	228	57	18	4	94
High avg.:	113	235	243	60	21	7	99
Low avg.:	106	210	200	54	16	0	88
[5] LSD(0.05):		NS**	22	1	2	4	5
[6] Min.TPG value:		210	221	59	.	.	94
[7] Max.TPG value:		.	.	.	18	4	.
[8] Coef. of var.:		5	6	1	8	63	3
No. entries:	18	4	18	18	18	18	18

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2010 yield average.

\* Shaded values within a column are included in the top-performance group - look for hybrids with one or more shaded values; the more the better.

\*\* Indicates differences between values within a column are non-significant (NS).

Note that additional table footnotes are explained in table D.

**Table 6a. Beresford early maturity glyphosate-resistant corn hybrid test results, 2009-10, Southeast Experiment Station. Seeded May 3, 2010 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages*		Other 2010 Averages*			
		2-Yr bu/a	2010 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
G2 GEN./ 5H-210 RR/HX + Cruiser 250	110	242	248	58	20	1	98
WENSMAN/ W 7455VT3 + Poncho 250	107	240	239	59	17	1	96
G2 GEN./ 5H-511 RR/HX + Cruiser 250	110	239	230	57	20	0	96
DAIRYLAND/ ST9206Q + Cruiser Extreme 250	106	235	238	57	18	0	99
DEKALB/ DKC52-59(VT3) + Poncho 250	102	228	224	58	14	0	100
HOEGEMEYER/ HPT7757HXTRR + Poncho or Cruiser 250	106	220	219	61	18	0	100
WENSMAN/ W 7473VT3 + Poncho 250	109	.	251	56	18	0	98
NUTECH/ 3A-710 GT + Poncho 250	110	.	250	59	18	1	100
HEINE/ 810VT3 PRO + Acceleron	109	.	249	58	19	0	100
NUTECH/ 3A-109 GT + Poncho 250	109	.	248	57	17	1	99
DEKALB/ DKC59-35(VT3) + Poncho 250	109	.	245	57	19	1	100
G2 GEN./ 5H-509 RR/HX + Cruiser 250	109	.	243	58	18	0	100
DAIRYLAND/ ST-9208Q + Cruiser Extreme 250	108	.	241	58	18	1	100
HOEGEMEYER/ HPT8041HXRR + Poncho or Cruiser 250	109	.	241	60	20	0	98
HOEGEMEYER/ HPT7584HXTRR + Poncho or Cruiser 250	105	.	235	57	17	0	100
EPLEY/ E1479HXTLLRR + Cruiser Extreme 250	104	.	233	58	18	0	99
DEKALB/ DKC58-83(GENVT3P) + Acceleron	108	.	232	60	17	0	100
PIONEER/ PIONEER BR.P0461XR + Poncho 1250	104	.	231	58	16	0	100
G2 GEN./ 5X-411 RR/HXT + Cruiser 250	110	.	231	58	20	0	92
DEKALB/ DKC59-88(VT3) + Poncho 250	109	.	230	59	19	1	99
PIONEER/ PIONEER BR.36V53 + Poncho 1250	102	.	227	59	15	0	99
HOEGEMEYER/ EXP7998HXRR + Poncho or Cruiser 250	109	.	226	58	18	0	98
WENSMAN/ W 7433VT3 + Poncho 250	105	.	226	59	15	3	100
DAIRYLAND/ ST-6310 + Cruiser Extreme 250	110	.	225	59	17	0	99
NUTECH/ 3T-810 VT3 + Poncho 250	110	.	224	54	22	0	89
G2 GEN./ 5X-411A RR/HXT + Cruiser 250	110	.	224	58	20	0	98
EPLEY/ E1535GT + Maxim XL,Lorsban Dynasty	104	.	223	58	15	1	98
WENSMAN/ W 8364STX + Acceleron	103	.	219	59	16	0	98
DEKALB/ DKC51-86(GENVT3P) + Acceleron	101	.	214	58	14	2	100
DEKALB/ DKC50-35(VT3) + Poncho 250	100	.	212	60	14	1	100
EPLEY/ E2404VT3PRO + Cruiser Extreme 250	107	.	210	58	16	0	88
DEKALB/ DKC50-66(VT3) + Poncho 250	100	.	203	59	14	1	100
CHANNEL/ 201-16VT3 + Acceleron	101	.	197	59	14	1	99
Trial avg.:	107	234	230	58	17	0	98
High avg.:	110	242	251	61	22	3	100
Low avg.:	100	220	197	54	14	0	88
[5] LSD(0.05):		NS**	15	1	1	2	3
[6] Min.TPG value:		220	236	60	.	.	97
[7] Max.TPG value:		.	.	.	15	2	.
[8] Coef. of var.:		3	4	1	4	226	2
No. entries:	33	6	33	33	33	33	33

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2010 yield average.

\* Shaded values within a column are included in the top-performance group - look for hybrids with one or more shaded values; the more the better.

\*\* Indicates differences between values within a column are non-significant (NS).

Note that additional table footnotes are explained in table D.

**Table 6b. Beresford late maturity glyphosate-resistant corn hybrid test results, 2009-10, Southeast Experiment Station. Seeded May 3, 2010 at 28,750 seeds per acre.**

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages*		Other 2010 Averages*			
		2-Yr bu/a	2010 bu/a	Bu.Wt. lb	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
NUTECH/ 3T-413 VT3 + Cruiser 250	113	237	228	57	23	1	94
DEKALB/ DKC61-69(VT3) + Poncho 250	111	234	237	58	18	0	95
NUTECH/ 3T-713 VT3 + Poncho 250	113	234	234	57	21	0	98
G2 GEN./ 5H-511A RR/HX + Cruiser 250	111	234	226	58	20	1	96
DEKALB/ DKC62-54(VT3) + Poncho 250	112	226	203	59	18	1	96
DEKALB/ DKC63-84(VT3) + Poncho 250	113	.	244	56	20	0	100
NUTECH/ 3T-415 VT3 + Poncho 250	115	.	241	57	22	0	99
WENSMAN/ W 7562VT3 + Poncho 250	111	.	241	57	19	1	100
PIONEER/ PIONEER BR.33P83 + Poncho 1250	111	.	239	59	19	1	99
G2 GEN./ 5H-513 RR/HX + Cruiser 250	113	.	231	57	23	1	98
G2 GEN./ 5H-812 RR/HX + Cruiser 250	112	.	228	60	22	1	99
NUTECH/ 5B-612 GT/CB/LL + Poncho 250	112	.	224	53	20	5	98
NUTECH/ 5N-215 GTCBLLRW + Poncho 250	115	.	224	57	23	1	98
G2 GEN./ 5X-411B RR/HXT + Cruiser 250	111	.	215	60	20	1	92
G2 GEN./ 5X-512 RR/HXT + Cruiser 250	112	.	214	56	23	0	87
AGSOURCE/ 3T-914 VT3 + Poncho 250	114	.	193	54	24	17	98
AGSOURCE/ 5N-813GTCBLLRW + Poncho 250	113	.	181	55	22	4	93
Trial avg.:	112	233	224	57	21	2	96
High avg.:	115	237	244	60	24	17	100
Low avg.:	111	226	181	53	18	0	87
[5] LSD(0.05):		NS**	20	1	1	3	5
[6] Min.TPG value:		226	224	59	.	.	95
[7] Max.TPG value:		.	.	.	19	3	.
[8] Coef. of var.:		3	5	1	3	88	3
No. entries:	17	5	17	17	17	17	17

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2010 yield average.

\* Shaded values within a column are included in the top-performance group - look for hybrids with one or more shaded values; the more the better.

\*\* Indicates differences between values within a column are non-significant (NS).

Note that additional table footnotes are explained in table D.

**Corn production is greatly affected by hybrid selection.**

This publication reports the agronomic performance of entries in the 2011 South Dakota performance trials for glyphosate-resistant field corn hybrids.

**Major factors in hybrid selection include:**

- Yield
- Maturity
- Lodging resistance
- Seed traits

## Glyphosate-Resistant Corn Hybrid Performance Trials – 2011 Results

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Tables containing corn hybrid performance information are reported to participating seed companies and to the general public.

Tables by location and maturity trial include:

<b>Warner</b>	Table 1a, Early trial and Table 1b, Late trial
<b>South Shore</b>	Table 2a, Early trial and Table 2b, Late trial
<b>Bancroft</b>	Table 3a, Early trial and Table 3b, Late trial
<b>Brookings</b>	Table 4a, Early trial and Table 4b, Late trial
<b>Geddes</b>	Table 5a, Early trial and Table 5b, Late trial
<b>Beresford</b>	Table 6a, Early trial and Table 6b, Late trial

These performance trials are conducted by the South Dakota Crop Performance Testing program at South Dakota State University. Environmental data is listed in tables A and B, indices of brand/hybrid entries to performance table number are listed in table C, performance table reference legends are listed in Table D, and mailing addresses for seed companies are listed in table E.

## Test Trial Locations

Trial locations, soil types, seedbed and previous crop history, soil fertility yield goals, and seeding dates are indicated in table B.

The participation and efforts of our cooperators—Allen and Inel Ryckman at Warner, Al Heuer at South Shore (Northeast Research Farm), Weerts Farms Inc. at Bancroft, Douglas Doyle at Brookings (Volga Research Farm), Curtis Sybesma at Geddes, and Robert Berg and staff at Beresford (Southeast Experiment Station)—are gratefully acknowledged.

## Weather Conditions

The efforts of Dennis Todey and his staff at the South Dakota Office of Climate and Weather at South Dakota State University are gratefully acknowledged in obtaining the weather data reported in table B. Seasonal rainfall and its distribution at weather reporting stations nearest each test trial are reported for the period April 1 to September 30. Seasonal precipitation totals were about 2.5" above average at Aberdeen (Wagner), 1.5" above average at the Northeast Research Farm (South Shore), 1" below average at Huron Airport (Bancroft), near average at Brookings (Volga Research Farm) and White Lake (Geddes), and 1.5" below average at the Southeast Research Station (Beresford or Centerville). Generally, across all the test trial locations, precipitation was generally highest in June and July and tended to be lower in August and September.

The accumulation of growing degree days (GDDs) in April through June were generally below average for all locations. In July, the GDDs were near or above average across all locations; and in August the GDDs accumulation across locations varied from about 129 to 179 GDDs below average. The seasonal GDDs accumulations were below average at all locations including Aberdeen (-791), Northeast Research Farm (-1057), Huron (-786), Brookings (-807), White Lake (-1059), and the Southeast Research Station (-841 GDDs). The coefficients of variation for yield were 8% or less across locations and well within acceptable limits; this means the test trials for yield were valid. Although the rainfall distribution and heat unit distribution did vary significantly this year compared to the average; the variability did not have a significant effect on the ability of the test trials to identify corn hybrid differences.

## General Test Procedures

Seed companies pick the test locations where their entries are tested. Entries are placed into "early" or "late" maturity trials. The relative maturity breaks between the early and late tests are 95 days for Warner and South Shore, 100 days for Yale and Brookings, 105 days for Geddes, and 110 days for Beresford. Hybrids are assigned to trials based on the relative maturity rating reported by the participating seed company; therefore, we cannot always guarantee entries are placed in the proper maturity trial. In some trials, borderline

entries with relative maturity ratings at or near the arbitrary break between the early and late trials may crossover at a given location. In some cases, this may be indicated by exceptionally high or low grain moisture contents at harvest. A higher-than-average moisture content may indicate the hybrid is later in relative maturity than indicated. Likewise, a lower-than-average moisture may indicate the hybrid is earlier in relative maturity than indicated. A fee was charged for all entries at each location. A list of participating seed companies for current year 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, with the center two rows harvested for yield. A Monosem precision row crop planter was used for seeding plots at all locations. In 2011, the precision planter was calibrated to deliver 29,621 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 pounds/acre of 37-18-00 was applied 2" below and 2" to



the side (2 x 2) of the seed row. The weed control herbicides applied at recommended label rates are indicated in table A.

## Measurements of Performance

Yields are obtained from the South Dakota Crop Performance Testing Program. Two-year and current yield averages are included where hybrids have been tested for the most recent two-year period.

**Yield.** Yield values are an average of three replications and are expressed as bushels per acre, adjusted to 15.5% moisture on a dry-matter basis and a bushel weight of 56 pounds. 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 2011, the coefficient of variation (CV) values (a measure of experimental error) for yield was relatively low, ranging from 5 to 9% over the six test locations. Experimental error may be the result of several factors, including test methods, or factors such as moisture, temperature, soil variations, or agronomic factors like seeding date, reseeding, or seed quality factors—all of which may or may not be controllable in a given year. Clearly, this year, seasonal moisture distribution and/or subsoil moisture conditions, along with above-average temperatures, combined to produce excellent yields at most locations, along

with some very good bushel weight values.

### Grain moisture content.

Moisture content is expressed as the percentage of moisture in the shelled corn at harvest. Moisture is generally inversely related to maturity and is important in the evaluation of hybrids. Hybrids that provide satisfactory yields and can be stored without additional drying are desirable. During harvest, moisture values were determined by the combine moisture meter, which in turn was periodically checked with a Dickey-John GAC II to verify it was within 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 significant yield difference. LSD values are given at the bottom of every column where there is significant difference among the averages within the column. If differences among the averages within a column are not significant, the LSD value is reported as “non-significant” (NS).

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 two-year yields, for current-year yields, for bushel weight, for grain moisture at harvest, for lodging (below the ear) percentage, and for final

stand percentage for each test trial. In order 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, let’s say the column LSD value equals 15 (bu/a) and the highest yield for that column equals 155 bu/a. If you subtract the column LSD value from the highest yield, you obtain an intermediate value of 140 bu/a ( $155 - 15 = 140$ ). In this case, the minimum top yield value is generally 141 bu., or one bushel greater than the intermediate value of 140 bu. However, we can say the 140 bu. value also qualifies for the top performance group for yield because the yield values are rounded to the nearest bushel per acre. Thus, varieties with an average of 140 bu. or higher are also included in the top yield group to compensate for rounding-off the yield averages to the nearest bushel.

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 reported at the bottom of each yield column (2011 or 2-yr yield averages). If hybrid yield differences are not significant (NS) and the CV values are 15% 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 15%, 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. When comparing yield means, compare current year averages with other current year averages and compare two-year yield averages with other two-year averages. Do not compare current year averages with two-year averages when comparing hybrids. When evaluating current year averages, remember that entries tested for two years may also have a yield value that qualifies for the TPG in the 2011 yield column.

The TPG for other performance factors—such as bushel weight, percent grain moisture at harvest, percent lodging (below the ear), and percent stand (percent of seeded population)—can also be determined. In order to qualify for the TPG group, a hybrid must have a bushel weight and a final stand percentage value that is equal to or greater than the minimum reported TPG value for bushel weight or final stand percentage. Likewise, in order to qualify for the TYG, a hybrid must have grain moisture, lodging percentages, or lodging score values that are equal to or less than the maximum reported TPG value for grain moisture and lodging percentage. Note that yield, bushel weight, and percent stand TPG values are greater than a certain yield, bushel weight, or final stand value; or they are minimum values. In contrast, grain moisture and lodging percentage values are equal to or less than a certain value to qualify for the TPG; or they are maximum values. Again, as with hybrid

yields, if there are no differences for a performance factor, then, by definition, all hybrids in the test are in the TPG for that performance factor.

The LSD values for the TPG can also 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 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 trial grain moisture LSD value equals 2%; and hybrid A measures 18% and hybrid B measures 16, their grain moisture 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 trial 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-moisture difference of 3% is more than the

reported LSD value 2%; therefore, hybrid A is significantly higher in grain moisture than hybrid C.

## Performance Trial Results By Locations

The performance trial results for one year (2011) and for two years (2011–11) follow:

### Northern Location

**Note:** The top performance group (TPG) for the performance factors yield (bu/a), bushel weight in (lbs.), harvest grain moisture (%), lodging below the ear (%), final stand (%), and ear drop (%) at Geddes are indicated in the performance tables by the shaded data values. Evaluate the performance of each hybrid (row) by moving across the table and observing if any of the reported performance values are shaded. The more shaded performance values there are in each row the better the hybrid did as a top-performing hybrid for a given test trial.

### Warner

**Early – Glyphosate-resistant trial, Table 1a.** The test-trial yield averages were 203 bu/a for two years and 207 bu/a in 2011. Hybrids that yielded 187 bu/a or more for two years and 218 bu/a or more for 2011 qualified for the top-performance-group (TPG) for yield. There was no significant difference in yield average among the hybrids tested for the two year period. Hybrids had to differ in yield average by 16 bu/a in 2011 to be significantly different. In 2011, bushel weights averaged 59 lbs., grain moisture averaged 15%, lodging percentage averaged

3%, and final stand percentage averaged 96%. In order for a hybrid to be in the TPG for these factors, it had to average 59 lbs. or more in bushel weight, 15% or less in grain moisture, 3% or less in lodging percentage, and 96% or more for final stand percentage. In order for a hybrid variable to differ from one hybrid compared to another, their difference had to equal 16 bu/a or more for yield in 2011, 1 lb. or more in bushel weight, 1% or more in grain moisture, 4% or more in lodging percentage and 5% or more in the final stand percentage.

**Late – Glyphosate-resistant trial, Table 1b.** The test-trial yield averages were 215 bu/a for two years and 213 bu/a in 2011. Hybrids with yield averages of 214 bu/a or more for two years and 223 bu/a or more for 2011 qualified for the TPG. Hybrids had to differ in yield average by 14 bu/a in for two years and 13 bu/a in 2011 to be significantly different. In 2011, bushel weights averaged 58 lbs., grain moisture averaged 16%, lodging percentage averaged 2%, and final stand percentage averaged 93%. In order for a hybrid to be in the TPG for these factors, it had to average 59 lbs. or more in bushel weight, 15% or less in grain moisture, 3% or less in lodging percentage, and 94% or more for final stand percentage. In order for a hybrid variable to differ from one hybrid compared to another, their difference had to equal 14 bu/a or more for two years, 13 bu/a or more for yield in 2011, 1 lb. or more in bushel weight, 1% or more in grain

moisture, 3% or more in lodging percentage and 5% or more in the final stand percentage.

## South Shore

**Early – Glyphosate-resistant trial, Table 2a.** The test-trial yield averages were 179 bu/a for two years and 155 bu/a in 2011. The yield average differences among the hybrids tested for two years were nonsignificant (NS). Hybrids with yield averages of 158 bu/a or more for 2011 qualified for the TPG. In 2011, bushel weights averaged 54 lbs., grain moisture averaged 17%, lodging averaged zero, and final stand percentage averaged 96%. In order for hybrids to be in the TPG for these factors, they had to average 56 lbs. or more in bushel weight, 14% or less in grain moisture, zero in lodging percentage, and 95% or higher in final stand percentage. In order for a hybrid variable to differ from one hybrid compared to another, their difference had to equal 15 bu/a or more for yield in 2011, 1 lb. or more in bushel weight, 1% or more in grain moisture, 1% or more in lodging percentage and 4% or more in the final stand percentage.

**Late – Glyphosate-resistant trial, Table 2b.** The test-trial yield averages were 187 bu/a for two years and 151 bu/a in 2011. The yield average differences among the hybrids tested for two years were nonsignificant (NS). Hybrids with yield averages of 158 bu/a or more for 2011 qualified for the TPG. In 2011, bushel weights

averaged 52 lbs., grain moisture averaged 20%, lodging averaged zero, and final stand percentage averaged 95%. In order for hybrids to be in the TPG for these factors, they had to average 55 lbs. or more in bushel weight, 16% or less in grain moisture, and 1% or more in lodging percentage, and 95% or more in final stand percentage. In order for a hybrid variable to differ from one hybrid compared to another, their difference had to equal 11 bu/a or more for yield in 2011, 1 lb. or more in bushel weight, 1% or more in grain moisture, 1% or more in lodging percentage and 5% or more in the final stand percentage.

## Central Locations

### Bancroft

**Early – Glyphosate-resistant trial, Table 3a.** The test-trial yield averages were 183 bu/a for two years and 211 bu/a in 2011. Hybrids with yield averages of 177 bu/a or more for two years and 225 bu/a or more in 2011 qualified for the TPG. In 2011, bushel weights averaged 57 lbs., grain moisture averaged 19%, lodging averaged 1%, and final stand percentage averaged 99%. In order for hybrids to be in the TPG for these factors, they had to average 58 lbs. or more in bushel weight, 17% or less in grain moisture, 3% or less in lodging percentage, and 95% or more for final stand percentage. In order for a hybrid variable to differ from one hybrid compared to another, their difference had to equal 14 bu/a or more for two years, 15 bu/a or more for yield in 2011, 1 lb. or more in bushel weight, 1%

or more in grain moisture, zero in lodging percentage and zero in the final stand percentage.

**Late – Glyphosate-resistant trial, Table 3b.** The test-trial yield averages were 182 bu/a for two years and 208 bu/a in 2011. Hybrids that yielded 178 bu/a or more for two years and 213 bu/a or more in 2011 qualified for the TPG. In 2011, bushel weights averaged 55 lbs., grain moisture averaged 24%, lodging percentage averaged 1%, and the final stand percentage averaged 98%. In order for hybrids to be in the TPG for these factors, they had to average 56 lbs. or more in bushel weight, 23% or less in grain moisture, 2% or less in lodging percentage, and 97% or more for final stand percentage. In order for a hybrid variable to differ from one hybrid compared to another, their difference had to equal 15 bu/a or more for two years, 14 bu/a or more for 2011, 1 lb. or more in bushel weight, 2% or more in grain moisture, zero in lodging percentage and 4% or more in the final stand percentage.

### Brookings

**Early – Glyphosate-resistant trial, Table 4a.** The test-trial yield averages were 219 bu/a for two years and 206 bu/a in 2011. Hybrids with yield averages of 205 bu/a or more for two years and 208 bu/a or more for 2011 qualified for the TPG. There were no differences in yield average among the hybrids tested two years, so all qualified for the TPG. In 2011, bushel weights averaged 56 lbs., grain moisture averaged

15%, lodging percentage averaged 1%, and final stand percentage averaged 96%. In order for hybrids to be in the TPG for these factors, they had to average 57 lbs. or more in bushel weight, 15% or less in grain moisture, 2% or less in lodging percentage, and 96% or more for final stand percentage. In order for a hybrid variable to differ from one hybrid compared to another, their difference had to equal 14 bu/a or more for yield in 2011, 1 lb. or more in bushel weight, 1% or more in grain moisture, 2% or more in lodging percentage and 4% or more in the final stand percentage.

**Late – Glyphosate-resistant trial, Table 4b.** The test-trial yield averages were 226 bu/a for two years and 208 bu/a in 2011. There were no differences in yield average among the hybrids tested two years, so all qualified for the TPG. Hybrids that yielded 213 bu/a or more in 2011 qualified for the TPG. In 2011, bushel weights averaged 55 lbs., grain moisture averaged 16%, lodging averaged zero, and percent final stand averaged 96%. In order for hybrids to be in the TPG for these factors, they had to average 57 lbs. or more in bushel weight, 15% or less in grain moisture, 1% or less in lodging percentage, and 96% or more for final stand percentage. In order for a hybrid variable to differ from one hybrid compared to another, their difference had to equal 13 bu/a or more for yield in 2011, 1 lb. or more in bushel weight, 1% or more in grain moisture, 1% or more in lodging percentage and

4% or more in the final stand percentage.

### Southern Locations Geddes

**Note:** The amount of ear drop at this location was significant in both trials. Hence, the ear drop percentage is reported in tables 5a and 5b. Ear dropped occurred in some hybrids more so than in others. The trial and hybrid yield averages for both the two year period and for 2011 were affected by the ear drop at this location.

**Early – Glyphosate-resistant trial, Table 5a.** The test-trial yield average was 176 bu/a for two years and 125 bu/a in 2011. The average yield differences among the hybrids tested two years were non-significant (NS), so all the hybrids tested qualified for the TPG. Hybrids with yield averages of 141 bu/a or more in 2011 qualified for the TPG. In 2011, bushel weights averaged 56 lbs., grain moisture averaged 14%, lodging percentage averaged 2%, percent final stand averaged 92%, and ear drop averaged 4%. In order for hybrids to be in the TPG for these factors, they had to average 57 lbs. or more in bushel weight, 13% or less in grain moisture, 3% or less in lodging, 93% or more for percent final stand, and 4% or less for ear drop percentage. In order for a hybrid variable to differ from one hybrid compared to another, their difference had to equal 17 bu/a or more for yield in 2011, 2 lb. or more in bushel weight, 1% or more in grain moisture, 3% in lodging percentage, 6% or more in the final stand percentage,

and 4% or more in ear drop percentage.

**Late – Glyphosate-resistant trial, Table 5b.** The test trial yield average was 183 bu/a for two years and 131 bu/a in 2011. Yield differences among hybrids tested for two years were non-significant (NS); thus, all entries tested two years were in the TPG. Hybrids with yield averages of 137 bu/a or more in 2011 qualified for the TPG. In 2011, bushel weights averaged 56 lbs., grain moisture averaged 15%, lodging percentage averaged zero, percent stand averaged 92%, and ear drop percentage averaged 3%. In order for hybrids to be in the TPG for these factors, they had to average 57 lbs. or more in bushel weight, 13% or less in grain moisture, 2% or less in lodging, 92% or more for final stand percentage, and 3% or less for ear drop percentage. In order for a hybrid variable to differ from one hybrid compared to another, their difference had to equal 14 bu/a or more for yield in 2011, 1 lb. or more in bushel weight, 1% or more in grain moisture, zero in lodging percentage, 5% or more in the final stand percentage, and 3% or more in ear drop percentage.

## Beresford

**Early – Glyphosate-resistant trial, Table 6a.** The test-trial yield averages were 215 bu/a for two years and 193 bu/a in 2011. Hybrids with yield average of 219 bu/a for two years and 203 bu/a or more in 2011 qualified for the TPG. In 2011, bushel weights averaged 58 lbs., grain moisture averaged 17%, lodging percentage averaged

zero percent, and final stand percentage averaged 92%. In order for hybrids to be in the TPG for these factors, they had to average 59 lbs. or more in bushel weight, 14% or less in grain moisture, 2% or less in lodging percentage, and 94% or more for final stand percentage. In order for a hybrid variable to differ from one hybrid compared to another, their difference had to equal 8 bu/a or more for two years and 16 bu/a or more for 2011, 1 lb. or more in bushel weight, 1% or more in grain moisture, zero in lodging percentage, 6% or more in the final stand percentage.

**Late – Glyphosate-resistant, Table 6b.** The test trial yield averages were 217 bu/a for two years and 199 bu/a in 2011. There was no difference in yield average among the hybrids tested two years because there was only one hybrid tested. Hybrids with yield averages of 196 bu/a or more in 2011 qualified for the TPG. In 2011, bushel weights averaged 57 lbs. grain moisture averaged 20%, lodging percentage averaged zero, and final stand percentage averaged 91%. In order for hybrids to be in the TPG for these factors, they had to average 59 lbs. or more in bushel weight, 20% or less in grain moisture, 1% or less in lodging percentage, and 87% or more in final stand percentage. In order for a hybrid variable to differ from one hybrid compared to another, their difference had to equal 18 bu/a or more for yield in 2011, 1 lb. or more in bushel weight, 1% or more in grain moisture, zero in lodging percentage, and zero in final stand percentage.

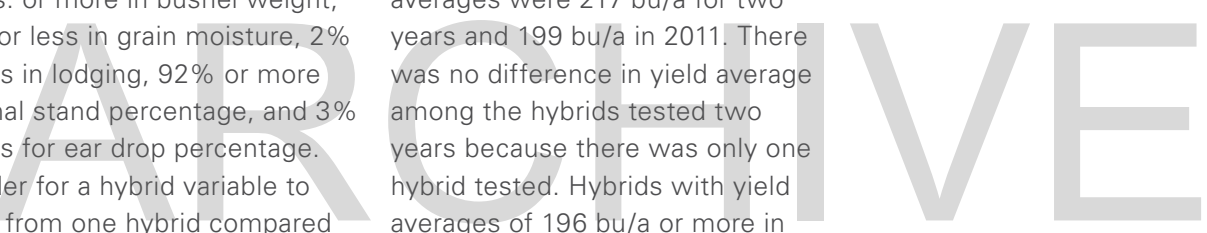


Table A. Description of 2011 corn hybrid trial locations- soil type, tillage method, prior crop, herbicides used, and seeding dates.

Location (County)	Soil Type	Tillage Method	Prior crop	Herbicides Applied at label rates		Fertility Yield Goal bu/a	Date Seeded
				Pre	Post		
Warner (Brown)	Harmony-Aberdeen silty clay loam, 0-2% slope	Conventional	Soybean	Harness Xtra	Roundup once	200	May 5
South Shore (Codington)	Kranzburg silty clay loam, 3-6% slope	Conventional	Spring Wheat	Dual II Magnum	Roundup once	180	May 16
Bancroft (Kingsbury)	Houdek-Stickney- Tetonka loam, 0-3% slope	Conventional	Soybean	Fall Dual	Roundup once	180	May 24
Brookings (Volga)	Barnes clay loam, 0-2% slope	Conventional	Soybean	Dual II Magnum	Roundup once	200	May 15
Geddes (Chas. Mix)	Highmore-Walke silt loam, 0-2% slope	No-till	Winter Wheat	-	Roundup twice	200	May 17
Beresford (Clay)	Egan-Clarno-Trent silty clay loam, 0-2% slope	Conventional	Soybean	-	Roundup twice	210	May 17

Plots were seeded at 29,621 seeds per acre.

Table B. Nearest weather station monthly rainfall and growing degree day totals and their departures from average during the 2011 growing season. Data is courtesy of the South Dakota Office of Climate and Weather, South Dakota State University, Brookings, SD.

Station (Test site)	Variable	Monthly data - April 1 to October 31						Sum
		April	May	June	July	Aug	Sept	
Aberdeen	Rain totals - inch '11	2.98	2.93	4.69	6.63	0.87	0.64	18.74
	30 year avg.	1.85	3.11	3.70	3.02	2.43	2.19	16.30
	DFA*	1.13	-0.18	0.99	3.61	-1.56	-1.55	2.44
	GDDs Totals '11	86	265	498	786	641	376	2,652
30 year avg.	278	480	678	751	770	486	3,443	
	DFA*	-192	-215	-180	35	-129	-110	-791
Northeast Research Farm	Rain totals - inch '11	1.38	4.72	3.28	8.13	1.20	0.58	19.29
	30 year avg.	2.18	2.74	3.77	3.34	2.93	2.78	17.74
	DFA	-0.80	1.98	-0.49	4.79	-1.73	-2.20	1.55
	GDDs Totals '11	65	217	426	717	554	310	2,289
30 year avg.	270	466	669	723	733	485	3,346	
	DFA*	-205	-249	-243	-6	-179	-175	-1,057
Huron Airport (Bancroft)	Rain totals - inch '11	2.59	3.34	3.95	3.49	2.35	0.45	16.17
	30 year avg.	2.31	3.11	3.93	2.92	2.43	2.46	17.16
	DFA	0.28	0.23	0.02	0.57	-0.08	-2.01	-0.99
	GDDs Totals '11	98	300	524	842	670	383	2,817
30 year avg.	304	473	686	801	794	545	3,603	
	DFA*	-206	-173	-162	41	-124	-162	-786
Brookings (Volga Res. Farm)	Rain totals - inch '11	2.64	6.18	3.98	4.88	1.52	0.14	19.34
	30 year avg.	2.13	2.97	4.30	3.25	3.07	3.19	18.91
	DFA	0.51	3.21	-0.32	1.63	-1.55	-3.05	0.43
	GDDs Totals '11	62	257	457	772	586	347	2,481
30 year avg.	238	445	643	745	740	477	3,288	
	DFA*	-176	-188	-186	27	-154	-130	-807
White Lake (Geddes)	Rain totals - inch '11	2.74	4.12	6.61	1.63	2.35	0.35	17.80
	30 year avg.	2.72	3.54	3.64	2.63	2.53	2.23	17.29
	DFA	0.02	0.58	2.97	-1.00	-0.18	-1.88	0.51
	GDDs Totals '11	97	254	478	784	652	383	2,648
30 year avg.	314	517	712	800	796	568	3,707	
	DFA*	-217	-263	-234	-16	-144	-185	-1,059
Centerville, Experiment Station	Rain totals - inch '11	3.52	5.16	4.38	1.06	3.43	0.74	18.29
	30 year avg.	2.73	3.64	4.36	3.28	2.95	2.93	19.89
	DFA	0.79	1.52	0.02	-2.22	0.48	-2.19	-1.60
	GDDs Totals '11	98	312	532	830	668	368	2,808
30 year avg.	286	532	722	780	770	559	3,649	
	DFA*	-188	-220	-190	50	-102	-191	-841

\* DFA - departure from average, difference current year is greater or less (-) than the 30 year average.

Table C. 2011 Glyphosate-resistant corn hybrid entries by brand/hybrid, seed product traits, and index to performance table no.(s).

Brand/Hybrid	Seed Biotech Traits [1]	Table No.(s)
CHANNEL/ 190-95VT3P	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,Gly	1a, 2a
CHANNEL/ 196-06VT3P	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,Gly	1b, 2b, 3a, 4a
CHANNEL/ 197-32VT3P	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,Gly	1a, 2a
CHANNEL/ 197-67VT3P	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,Gly	1b, 2b, 3a, 4a
CHANNEL/ 199-55VT3	ECB,SWCB,SB,SCB,CRw*,Gly	3a, 4a, 5a
CHANNEL/ 200-91VT3P	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,Gly	3b, 4b, 5a
CHANNEL/ 201-16VT3	ECB,SWCB,SB,SCB,CRw*,Gly	3b, 4b, 5a
CHANNEL/ 203-43VT3P	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,Gly	3b, 4b
CHANNEL/ 209-85VT3P	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,Gly	5b, 6a
CHANNEL/ 210-61VT3	ECB,SWCB,SB,SCB,CRw*,Gly	5b, 6a
CHANNEL/ 211-99VT3P	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,Gly	5b, 6b
DAIRYLAND/ ST-6310	Gly	6a
DAIRYLAND/ ST-6494	Not reported	1a, 2a
DAIRYLAND/ ST-7291SSX	Not reported	2a
DAIRYLAND/ ST-9210SSX	ECB,SWCB,SB,SCB,CEw,Faw,Gly	6a
DAIRYLAND/ ST-9303SSX	ECB,SWCB,SB,SCB,CEw,Faw,Gly	4b
DAIRYLAND/ ST-9395SSX	ECB,SWCB,SB,SCB,CEw,Faw,Gly	1a, 2a
DAIRYLAND/ ST-9399	CB,CRw*,Glu,Gly	1b, 4a
DAIRYLAND/ ST-9500SSX	ECB,SWCB,SB,SCB,CEw,Faw,Gly	1b, 4b
DAIRYLAND/ ST-9501SSX	ECB,SWCB,SB,SCB,CEw,Faw,Gly	1b, 4b
DAIRYLAND/ ST-9992	ECB,SWCB,SB,SCB,CRw*,Gly	2a
DEKALB/ DKC42-72	ECB,SWCB,SB,SCB,CRw*,Gly	1a, 2a, 3a, 4a
DEKALB/ DKC43-27	ECB,SWCB,SB,SCB,CRw*,Gly	1a, 2a, 3a, 4a
DEKALB/ DKC45-51	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,WBCw,BCw,Gly,Glu	1a, 2a, 3a, 4a
DEKALB/ DKC48-12	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,WBCw,BCw,Gly,Glu	1b, 2b, 3a, 4a, 5a
DEKALB/ DKC48-37	ECB,SWCB,SB,SCB,CRw*,Gly	2b, 3a
DEKALB/ DKC49-94	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,WBCw,BCw,Gly,Glu	1b, 2b, 3a, 4a, 5a
DEKALB/ DKC50-66	ECB,SWCB,SB,SCB,CRw*,Gly	1b, 2b, 3a, 4a, 5a
DEKALB/ DKC52-59	ECB,SWCB,SB,SCB,CRw*,Gly	1b, 2b, 5a, 6a
DEKALB/ DKC53-78	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,WBCw,BCw,Gly,Glu	6a
DEKALB/ DKC55-09	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,WBCw,BCw,Gly,Glu	5a, 6a
DEKALB/ DKC59-35	ECB,SWCB,SB,SCB,CRw*,Gly	5b, 6a
DEKALB/ DKC62-97	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,Gly	5b, 6b
DEKALB/ DKC63-84	ECB,SWCB,SB,SCB,CRw*,Gly	5b, 6b
EPLEY/ E1275RR	Gly	1b, 2b, 3a, 4a
EPLEY/ E1315RR	Gly	1b, 2b, 3a, 4a
EPLEY/ E1418GT3000	CB,CRw*,Glu,Gly	1b, 2b, 3b, 4b, 5a
EPLEY/ E1479HXTLLRR	WBCw,CB,BCw,FAw,CRw**,Glu,Gly	3b, 4b, 5a
EPLEY/ E1602SS	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,WBCw,BCw,Gly,Glu	3b, 4b, 5b
G2 GEN./ 5H-013	WBCw,CB,BCw,FAw,Glu, Gly	5b, 6b
G2 GEN./ 5H-0701	WBCw,CB,BCw,FAw,Glu, Gly	3b, 4b, 5b, 6a
G2 GEN./ 5H-210	WBCw,CB,BCw,FAw,Glu, Gly	5b, 6a
G2 GEN./ 5H-492	WBCw,CB,BCw,FAw,Glu, Gly	1a, 2a
G2 GEN./ 5H-501	WBCw,CB,BCw,FAw,Glu, Gly	1b, 2b, 3a, 4a
G2 GEN./ 5H-511	WBCw,CB,BCw,FAw,Glu, Gly	5b, 6a
G2 GEN./ 5H-700	WBCw,CB,BCw,FAw,Glu, Gly	1b, 2b, 3a, 4a
G2 GEN./ 5H-712	WBCw,CB,BCw,FAw,Glu, Gly	5b, 6b
G2 GEN./ 5H-905	WBCw,CB,BCw,FAw,Glu, Gly	3b, 4b, 5a, 6a
G2 GEN./ 5X-500	WBCw,CB,BCw,FAw,CRw**,Glu,Gly	1b, 2b, 3a, 4a
G2 GEN./ 5X-795	WBCw,CB,BCw,FAw,CRw**,Glu,Gly	1a, 2a, 3a, 4a



Table C. 2011 Glyphosate-resistant corn hybrid entries by brand/hybrid and index to performance table no.(s) (Continued).

Brand/Hybrid	Seed Biotech Traits [1]	Table No.(s)
G2 GEN./ 5X-903	WBCw,CB,BCw,FAw,CRw**,Glu,Gly	3b, 4b, 5a, 6a
HEINE/ 635VT3	ECB,SWCB,SB,SCB,CRw*,Gly	4a
HEINE/ 637VT3	ECB,SWCB,SB,SCB,CRw*,Gly	4a
HEINE/ 705VT3 PRO	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,Gly	4a
HEINE/ 731VT3	Not reported	4b, 5a
HEINE/ 735VT3 PRO	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,Gly	4b, 5a
HEINE/ 741GT3000	CB,CRw*,Glu,Gly	4b, 5a
HEINE/ 744RRYGCB	ECB,SWCB,SCB,Gly	4b, 5a
HEINE/ 745VT3 PRO	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,Gly	4b, 5a
HEINE/ 810VT3 PRO	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,Gly	6a
HOEGEMEYER/ HPT 6200 GTCBLL	ECB,SWCB,SB,SCB,CRw*,Glu,Gly	4a
HOEGEMEYER/ HPT 6572 3000GT	CB,CRw*,Glu,Gly	4a
HOEGEMEYER/ HPT 6838 3000GT	CB,CRw*,Glu,Gly	4a
HOEGEMEYER/ HPT 7041 HXLLRR	WBCw,CB,BCw,FAw,Glu	3a, 4a
HOEGEMEYER/ HPT 7278 HXLLRR	WBCw,CB,BCw,FAw,Glu	3b, 5a
HOEGEMEYER/ HPT 7584 HXTLLRR	CRw*,Glu	6a
HOEGEMEYER/ HPT 7998 HXLLRR	WBCw,CB,BCw,FAw,Glu	6a
HOEGEMEYER/ HPT EXP 7726	CB,CRw*,Glu,Gly	5b
INTEGRA/ 043093RR2	Not reported	1a
INTEGRA/ 142095 VT3PRO	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,Gly	1a, 2a
INTEGRA/ 915102VT3	ECB,SWCB,SB,SCB,CRw*,Gly	3b
INTEGRA/ 921095GT3000	ECB,SWCB,SB,SCB,FAw,BAw,WBCw,BCw,DCw,CRW**,GI	2a
INTEGRA/ 921100GT3000		3a
INTEGRA/ 9422VT3	ECB,SWCB,SB,SCB,CRw*,Gly	1a
INTEGRA/ 9460SS	Not reported	2b
LEGEND/ LR9098GENSS	Not reported	3a
LEGEND/ LR9197GENSS	Not reported	3a
LEGEND/ LR9800VT3	Not reported	3a
LEGEND/ LR9904VT3	Not reported	3b
LEGEND/ LR9993VT3	Not reported	3a
LEGEND/ LR99983000GT	Not reported	3a
MASTERS CHOICE/ MCT-4561	Gly	1b
MASTERS CHOICE/ MCT-493	CB,CRw*,Glu,Gly	1a
MASTERS CHOICE/ MCT-5324	ECB,SWCB,SB,SCB,FAw,BAw,WBCw,BCw,DCw,CRW**,GI	5a
NUTECH/ 5B-1003	ECB,SWCB,SB,SCB,CRw*,Glu,Gly	5b, 6a
NUTECH/ 5N-001	CB,CRw*,Glu,Gly	1b, 2b, 3a, 4a, 5a, 6a
NUTECH/ 5N-102	CB,CRw*,Glu,Gly	1b, 2b, 3a, 4a, 5a, 6a
NUTECH/ 5N-186	CB,CRw*,Glu,Gly	1a, 2a
NUTECH/ 5N-197	ECB,SWCB,SB,SCB,FAw,BAw,WBCw,BCw,DCw,CRW**,GI	1b, 2b, 3a, 4a
NUTECH/ 5N-290	CB,CRw*,Glu,Gly	1a, 2a
NUTECH/ 5N-803	CB,CRw*,Glu,Gly	3b, 4b, 5a, 6a
NUTECH/ 5N-9001	CB,CRw*,Glu,Gly	1a, 2a
NUTECH/ 5V-705	ECB,SWCB,SB,SCB,FAw,BAw,WBCw,BCw,DCw,CRW**,GI	3b, 4b, 5a, 6a
PETERSON FARMS/ 48Q95	CB,CRw*,Glu,Gly	1a, 2a
PETERSON FARMS/ 76R92	ECB,SWCB,SB,SCB,CEw,Faw,Gly	1a, 2a
PETERSON FARMS/ 98L90	ECB,SWCB,SB,SCB,CRw*,Glu,Gly	1a, 2a
PIONEER/ PIONEER BR. 34F07	WBCw,CB,BCw,FAw,Glu,Gly	6a
PIONEER/ PIONEER BR. 36V53	WBCw,CB,BCw,FAw,Glu,Gly	1b, 3b, 4b, 5a
PIONEER/ PIONEER BR. 38H08	WBCw,CB,BCw,FAw,Glu,Gly	1a, 2a
PIONEER/ PIONEER BR. P0115XR	WBCw,CB,BCw,FAw,CRw**,Glu,Gly	1b, 3b, 4b

Table C. 2011 Glyphosate-resistant corn hybrid entries by brand/hybrid and index to performance table no.(s) (Continued).		
Brand/Hybrid	Seed Biotech Traits [1]	Table No.(s)
PIONEER/ PIONEER BR. P0448XR	WBCw,CB,BCw,FAw,CRw**,Glu,Gly	3b, 4b, 5a
PIONEER/ PIONEER BR. P0533XR	WBCw,CB,BCw,FAw,CRw**,Glu,Gly	3b, 4b, 5a, 6a
PIONEER/ PIONEER BR. P8917XR	WBCw,CB,BCw,FAw,CRw**,Glu,Gly	1a, 2a
PIONEER/ PIONEER BR. P9630XR	WBCw,CB,BCw,FAw,CRw**,Glu,Gly	1b, 2b
PIONEER/ PIONEER BR. P9807HR	WBCw,CB,BCw,FAw,Glu, Gly	1b, 2b, 3a, 4a
PIONEER/ PIONEER BR. P9910XR	WBCw,CB,BCw,FAw,CRw**,Glu,Gly	1b, 3a, 4a
PIONEER/ PIONEER BR. P9917XR	WBCw,CB,BCw,FAw,CRw**,Glu,Gly	1b, 3a, 4a
RENK/ 5K565GTCBLLRW	Not reported	1b, 2b, 3a, 4a
RENK/ RK530VT3P	CRw*,Gly	1a, 2a
RENK/ RK580VT3	CRw*,Gly	1b, 2b, 3a, 4a
RENK/ RK585VT3P	CRw*,Gly	1a, 2a
RENK/ RK698VT3	CB,CRw*,Glu,Gly	3b, 4b
RENK/ RK741VT3P	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,Gly	3b
RENK/ RK744VT3P	ECB,SWCB,SB,SCB,CRw*,Gly	4b, 6a
RENK/ RK818VT3P	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,Gly	6a
RENK/ RK858VT3P	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,Gly	6b
RENK/ RK880SSTX	ECB,SWCB,SB,SCB,CEw,FAw,CRw*,WBCw,BCw,Gly,Glu	6b
SEEDS 2000/ 2903GTCBLL	ECB,SWCB,SB,SCB,CRw*,Glu,Gly	1a, 2a
SEEDS 2000/ 2982GT	Gly	1b, 2b, 3a, 4a
SEEDS 2000/ 3141GT	Gly	3b, 4b
SEEDS 2000/ 9202 VT2P	ECB,SWCB,SB,SCB,CEw,Faw,Gly	1a, 2a
SEEDS 2000/ 9602G3	CB,CRw*,Glu,Gly	1b, 2b, 3a, 4a
SEEDS 2000/ EXP X302	CB,CRw*,Glu,Gly	1b, 2b, 3b, 4b
SEEDS 2000/ EXP X398	CB,CRw*,Glu,Gly	1b, 2b, 3a, 4a
SEEDS 2000/ EXP X495	Gly	1a, 2a
SEEDS 2000/ EXP X695	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,Gly	1a, 2a
WENSMAN/ W 6443RR	Not reported	5b, 6a
WENSMAN/ W 7107VT3	ECB,SWCB,SB,SCB,CRw*,Gly	1a, 2a
WENSMAN/ W 7140VT3PRO	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,Gly	1a, 2a
WENSMAN/ W 7143VT3	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,Gly	1a, 2a
WENSMAN/ W 7268VT3	ECB,SWCB,SB,SCB,CRw*,Gly	1b, 2b
WENSMAN/ W 7270VT3PRO	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,Gly	1b, 2b
WENSMAN/ W 7273VT3	ECB,SWCB,SB,SCB,CRw*,Gly	1b, 2b, 3a, 4a
WENSMAN/ W 7290VT3PRO	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,Gly	3a, 4a
WENSMAN/ W 7320VT3PRO	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,Gly	3b, 4b, 5a, 6a
WENSMAN/ W 7360VT3	ECB,SWCB,SB,SCB,CRw*,Gly	3b, 4b, 5a, 6a
WENSMAN/ W 7392GT3	CB,CRw*,Glu,Gly	3b, 4b, 5a, 6a
WENSMAN/ W 7473VT3	ECB,SWCB,SB,SCB,CRw*,Gly	5b, 6a
WENSMAN/ W 7566VT3PRO	ECB,SWCB,SB,SCB,CEw,Faw,CRw*,Gly	5b, 6b
WENSMAN/ W 8120VT2PRO	ECB,SWCB,SB,SCB,CEw,Faw,Gly	1a, 2a

[1] Insect traits - Black Cutworm (BCw), Western Bean Cutworm (WBCw), Corn Borer (CB), Eastern Corn Borer (ECB), Southwestern Corn Borer (SWCB), Sugarcane Borer (SCB), Corn Rootworm (CRw), CRw\*(includes Mexican, Northern, and Western Corn Rootworm, Fall Armyworm (FAw), and Corn Earworm (CEw). Herbicide traits - Glyphosate (Gly) and Glufosinate tolerance (Glu).

Note: Biotech traits were obtained by referencing the product registrant trade name and seed characteristics as listed in the Know Before You Grow section at the National Corn Growers Website (<http://www.ncga.com/>) with the hybrid information supplied by each seed company. Because biotech products continually change, growers are strongly encouraged to verify all biotech traits of interest with the respective seed dealer.

Table D. Explanation of performance table references.

No.	Explanation of references
[1]	Entries are listed by Brand/Variety– Entries are sorted by 2-yr then by 2009 yield average.
[2]	Brand Relative Maturity (Rel. Mat.)– the relative maturity rating as reported by the seed company.
[3]	Lodging Percentage– stalks broken below the ear as a percentage of the final stand. Ear Drop Percentage– ears dropped as a percentage of the final stand.
[4]	Final Stand Percentage – the number of standing stalks at harvest as a percentage of the seeded population.
[5]	Least Significant Difference (LSD 0.05) – the difference any two values within a column must be equal to or exceed for the values to be significantly different (0.05 level of probability). If the difference is less than the LSD values the difference between them are nonsignificant (NS).
[6]	Min. TPG-avg.– the minimum column value for yield, bushel weight, and final stand percentage that a hybrid must equal or exceed to be in the TPG.
[7]	Max. TPG-avg.– the maximum column value for grain moisture at harvest, lodging percentage, or lodging score that a hybrid must equal or be less than to be in the TPG.
[8]	Coefficient of variation (C.V.)– the percent of experimental error associated with a test trial. Ideally, the CV value for yield is less than 15%. Values less than 5% are less common ; while values of 6-15% are more common. If a value exceeds 15%; the trial had too much error to be valid, so the results are not reported.

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Table E. Mailing addresses for seed entries in the 2011 corn hybrid trials and listed by seed brand name

Seed brand	Seed company mailing address
Channel	Channelbio Corp., Box 277, Laurel, NE 68745
Dairyland	610 Lauren Lane, Forsyth, IL 62535
Dekalb	46040 SD Hwy 44, Chancellor, SD 57016
Epley Bros.	Epley Bros. Hybrids Inc., PO Box 310, Shell Rock, IA 50670
G-2 Genetics	G-2 Genetics, 415 S. Duff Avenue, Suite 2, Ames, IA 50010
Heine	Heine Hybrids, 1020 E. 320th St., Vermillion, SD 57069
Hoegemeyer	Hoegemeyer Hybrids, 1755 Hoegemeyer Road, Hooper, NE 68031
Integra	PO Box 40, Bozeman, MT 59771
Legend Seed	116 W. 10th Ave., Webster, SD 57274
Masters Choice	3010 St. Rt. 146 E, Anna, IL 62906
NuTech	Nutech Seed, LLC, 415 S. Duff Avenue, Suite 2, Ames, IA 50010
Petersen Farms	3104 164th Ave. SE, Harwood, ND 58042
Pioneer	Pioneer Hi-Bred International, 151 Saint Andrews Court-Suite 910, Mankato, MN 5601
Renk	6809 Wilburn Road, Sun Prairie, WI 53590
Seeds 2000	Seeds 2000, 115 N 3rd St., Breckenridge, MN 56520
Wensman	Wensman Seed Co., PO Box 190, Wadena, MN 56482

Table 1a. Warner early maturity Roundup Ready corn hybrid test results, 2010-11, Allen & Inel Ryckman Farm. Seeded May 5, 2011 at 29,621 seeds per acre.

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages *#		Other 2011 Averages *			
		2-Yr bu/a	2011 bu/a	Bu. Wt. lb.	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
MASTERS/ CHOICE MCT-493 + Poncho 250	93	225	233	59	16	5	96
PIONEER/ PIONEER BR.38H08 + Cruiser Extreme	92	204	204	57	15	15	95
DEKALB/ DKC42-72(VT3) + Poncho Votivo 500	92	202	214	59	15	2	91
DEKALB/ DKC43-27(VT3) + Poncho Votivo 500	93	197	216	59	16	0	95
DAIRYLAND/ ST-9395SSX + Cruiser Extreme 250	95	187	178	58	14	0	94
RENK/ RK585VT3P + Acceleron	95	.	229	58	16	2	94
SEEDS/ 2000 2903GTCBLL + Cruiser 250	90	.	228	58	15	17	98
NUTECH/ 5N-9001 + Cruiser 250	90	.	223	59	17	4	95
SEEDS/ 2000 EXP X495 + Acceleron	95	.	221	58	16	0	97
PETERSON/ FARMS 98L90 + Poncho 250	90	.	220	58	15	17	97
NUTECH/ 5N-186 + Cruiser 250	86	.	218	58	15	4	97
CHANNEL/ 197-32VT3P + Poncho Votivo 500	92	.	216	60	15	2	96
PETERSON/ FARMS 48Q95 + Poncho 250	95	.	214	59	16	1	96
WENSMAN/ W 7140VT3PRO + Acceleron	93	.	209	60	15	1	96
DAIRYLAND/ ST-6494 + Cruiser Extreme 250	94	.	207	59	14	1	97
SEEDS/ 2000 EXP X695 + Acceleron	95	.	207	59	16	0	98
PETERSON/ FARMS 76R92 + Acceleron	92	.	206	59	14	0	97
CHANNEL/ 190-95VT3P + Poncho Votivo 500	90	.	204	58	14	0	96
SEEDS/ 2000 9202 VT2P + Acceleron	92	.	203	59	14	0	94
INTEGRA/ 142095 VT3PRO + Poncho 250	95	.	203	59	16	0	98
DEKALB/ DKC45-51 + Poncho Votivo 500	95	.	201	59	16	1	97
WENSMAN/ W 8120VT2PRO + Acceleron	92	.	201	59	14	0	97
G2/ GEN. 5H-492 + Cruiser 250	92	.	200	58	16	1	93
INTEGRA/ 9422VT3 + Poncho 250	92	.	200	60	15	3	100
RENK/ RK530VT3P + Acceleron	94	.	199	59	15	0	96
G2/ GEN. 5X-795 + Cruiser 250	95	.	199	58	15	1	95
WENSMAN/ W 7107VT3 + Acceleron	90	.	199	61	15	0	98
NUTECH/ 5N-290 + Cruiser 250	90	.	198	58	14	6	96
PIONEER/ PIONEER BR. P8917XR + Cruiser Extreme	89	.	196	59	15	2	90
INTEGRA/ 043093RR2 + Poncho 250	93	.	185	58	14	1	99
WENSMAN/ W 7143VT3 + Acceleron	93	.	179	60	16	1	98
Trial avg.:	92	203	207	59	15	3	96
High avg.:	95	225	233	61	17	17	100
Low avg.:	86	187	178	57	14	0	90
[5] LSD(.05):		NS**	16	1	1	4	5
[6] Min.TPG value:		187	218	60	.	.	95
[7] Max.TPG value:		.	.	.	15	4	.
[8] Coef. of var.:		5	5	1	3	76	3
No. entries:	31	5	31	31	31	31	31

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2011 yield average.

\* Shaded values within a column are included in the top-performance group.

\*\* Indicates differences between values within a column are non-significant (NS).

# Adjusted to 13% moisture basis.

Note that additional table references are explained in table D.

Table 1b. Warner late maturity Roundup Ready corn hybrid test results, 2010-11, Allen & Inel Ryckman Farm. Seeded May 5, 2011 at 29,621 seeds per acre.

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages *#		Other 2011 Averages *			
		2-YR bu/a	2011 bu/a	Bu. Wt. lb.	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
CHANNEL/ 196-06VT3P + Poncho Votivo 500	96	227	229	59	16	0	94
DEKALB/ DKC50-66(VT3) + Poncho Votivo 500	100	224	223	59	15	0	94
DEKALB/ DKC52-59(VT3) + Poncho Votivo 500	102	221	212	59	16	2	89
PIONEER/ PIONEER BR.36V53 + Cruiser Extreme	102	220	225	57	16	0	99
NUTECH/ 5N-102 GTCBLLRW + Cruiser 250	100	220	220	58	15	6	97
SEEDS/ 2000 9602G3 + Cruiser 250	96	217	211	58	15	1	96
G2/ GEN. 5H-501 + Cruiser 250	100	209	204	58	16	0	95
G2/ GEN. 5X-500 + Cruiser 250	97	198	199	59	16	1	98
EPLEY/ E1275RR + Not reported	97	196	196	59	15	1	95
PIONEER/ P9807HR + Cruiser Extreme	98	.	235	57	16	7	98
NUTECH/ 5N-001 + Cruiser 250	100	.	231	56	16	1	96
EPLEY/ E1418GT3000 + Cruiser 250	104	.	231	58	18	3	84
SEEDS/ 2000 EXP X302 + Cruiser 250	102	.	230	57	17	2	92
EPLEY/ E1315RR + Not reported	100	.	228	58	16	2	97
RENK/ 5K565GTCBLLRW + Cruiser Extreme	99	.	227	59	15	3	84
DAIRYLAND/ ST-9399 + Cruiser Extreme 250	99	.	226	59	16	3	89
RENK/ RK580VT3 + Not reported	98	.	222	60	16	1	96
DAIRYLAND/ ST-9500SSX + Cruiser Extreme 250	101	.	221	58	18	0	97
G2/ GEN. 5H-700 + Cruiser 250	100	.	220	59	16	0	95
SEEDS/ 2000 EXP X398 + Cruiser 250	98	.	220	58	16	1	97
PIONEER/ P9917XR + Cruiser Extreme	99	.	216	60	17	4	94
DEKALB/ DKC49-94 + Poncho Votivo 500	99	.	214	59	15	0	95
WENSMAN/ W 7270VT3PRO + Acceleron	97	.	212	59	15	0	90
DEKALB/ DKC48-12 + Poncho Votivo 500	98	.	210	57	15	0	94
WENSMAN/ W 7273VT3 + Acceleron	98	.	207	58	15	2	95
PIONEER/ P9630XR + Cruiser Extreme	96	.	205	59	16	1	96
PIONEER/ P0115XR + Cruiser Extreme	101	.	204	59	16	0	88
WENSMAN/ W 7268VT3 + Acceleron	96	.	202	59	16	0	97
DAIRYLAND/ ST-9501SSX + Cruiser Extreme 250	101	.	201	57	16	1	85
NUTECH/ 5N-197 + Cruiser 250	97	.	201	60	16	10	87
MASTERS/ CHOICE MCT-4561 + Poncho 250	96	.	196	58	15	0	89
PIONEER/ P9910XR + Cruiser Extreme	99	.	176	56	15	0	96
SEEDS/ 2000 2982GT + Cruiser 250	98	.	174	60	15	6	91
Trial avg.:	99	215	213	58	16	2	93
High avg.:	104	227	235	60	18	10	99
Low avg.:	96	196	174	56	15	0	84
[5] LSD(.05):		14	13	<1	<1	3	5
[6] Min.TPG value:		214	223	59	.	.	94
[7] Max.TPG value:		.	.	.	15	3	.
[8] Coef. of var.:		4	4	1	3	104	3
No. entries:	33	9	33	33	33	33	33

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2011 yield average.

\* Shaded values within a column are included in the top-performance group.

# Adjusted to 13% moisture basis.

Note that additional table references are explained in table D.

Table 2a. South Shore early maturity Roundup Ready corn hybrid test results, 2010-11, Northeast Research Farm. Seeded May 16, 2011 at 29,621 seeds per acre.

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages *#		Other 2011 Averages *			
		2-Yr bu/a	2011 bu/a	Bu. Wt. lb.	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
DAIRYLAND/ ST-9992 + Cruiser Extreme 250	92	191	170	56	16	0	96
PIONEER/ 38H08 + Cruiser Extreme	92	184	172	54	17	0	99
DEKALB/ DKC42-72 + Poncho Votivo 500	92	183	167	53	15	0	99
DAIRYLAND/ ST-9395SSX + Cruiser Extreme 250	95	177	153	52	15	0	95
DEKALB/ DKC43-27 + Poncho Votivo 500	93	172	148	55	17	0	97
PIONEER/ P8917XR + Cruiser Extreme	89	165	153	56	16	0	98
PETERSON/ FARMS 76R92 + Acceleron	92	.	169	55	16	0	98
CHANNEL/ 197-32VT3P + Poncho Votivo 500	92	.	168	55	18	0	97
SEEDS/ 2000 9202 VT2P + Acceleron	92	.	165	55	17	0	99
RENK/ RK585VT3P + Acceleron	95	.	163	54	19	0	95
G2/ GEN. 5H-492 + Cruiser 250	92	.	162	55	17	0	97
G2/ GEN. 5X-795 + Cruiser 250	95	.	159	54	20	0	96
NUTECH/ 5N-186 + Cruiser 250	86	.	157	54	15	0	98
CHANNEL/ 190-95VT3P + Poncho Votivo 500	90	.	157	55	15	0	91
DAIRYLAND/ ST-6494 + Cruiser Extreme 250	94	.	156	54	15	0	95
PETERSON/ FARMS 98L90 + Poncho 250	90	.	155	51	15	0	96
INTEGRA/ 142095 VT3PRO + Poncho 250	95	.	155	56	19	0	93
SEEDS/ 2000 EXP X495 + Acceleron	95	.	154	54	19	0	98
SEEDS/ 2000 2903GTCBLL + Cruiser 250	90	.	153	50	15	0	96
WENSMAN/ W 7143VT3 + Acceleron	93	.	152	54	18	0	99
NUTECH/ 5N-290 + Cruiser 250	90	.	151	53	13	1	99
SEEDS/ 2000 EXP X695 + Acceleron	95	.	151	54	18	0	93
DAIRYLAND/ ST-7291SSX + Cruiser Extreme 250	91	.	150	53	15	0	95
WENSMAN/ W 7107VT3 + Acceleron	90	.	150	56	17	0	97
WENSMAN/ W 8120VT2PRO + Acceleron	92	.	150	55	17	0	90
NUTECH/ 5N-9001 + Cruiser 250	90	.	149	53	17	0	93
RENK/ RK530VT3P + Acceleron	94	.	147	55	19	0	94
PETERSON/ FARMS 48Q95 + Poncho 250	95	.	144	51	16	0	95
WENSMAN/ W 7140VT3PRO + Acceleron	93	.	142	56	18	0	97
INTEGRA/ 921095GT3000 + Poncho 250	95	.	141	52	16	0	94
DEKALB/ DKC45-51 + Poncho Votivo 500	95	.	138	53	22	0	94
Trial avg.:	92	179	155	54	17	0	96
High avg.:	95	191	172	56	22	1	99
Low avg.:	86	165	138	50	13	0	90
[5] LSD(.05):		NS**	15	<1	1	<1	4
[6] Min.TPG value:		165	158	56	.	.	95
[7] Max.TPG value:		.	.	.	14	0	.
[8] Coef. of var.:		6	6	1	5	344	3
No. entries:	31	6	31	31	31	31	31

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2011 yield average.

\* Shaded values within a column are included in the top-performance group.

# Adjusted to 13% moisture basis.

\*\* Indicates differences between values within a column are non-significant (NS).

Note that additional table references are explained in table D.

Table 2b. South Shore late maturity Roundup Ready corn hybrid test results, 2010-11, Northeast Research Farm. Seeded May 16, 2011 at 29,621 seeds per acre.

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages*#		Other 2011 Averages *			
		2-Yr bu/a	2011 bu/a	Bu. Wt. lb.	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
CHANNEL/ 196-06VT3P + Poncho Votivo 500	96	194	164	54	20	0	96
DEKALB/ DKC52-59 + Poncho Votivo 500	102	194	159	52	18	0	89
DEKALB/ DKC50-66 + Poncho Votivo 500	100	190	157	53	18	0	90
SEEDS/ 2000 9602G3 + Cruiser 250	96	190	155	53	15	0	96
EPLEY/ E1275RR + Not reported	97	189	166	56	17	0	96
DEKALB/ DKC48-37 + Poncho Votivo 500	98	184	162	54	16	0	91
G2/ GEN. 5X-500 + Cruiser 250	97	177	153	54	22	0	95
NUTECH/ 5N-102 + Cruiser 250	100	176	141	52	20	0	92
WENSMAN/ W 7268VT3 + Acceleron	96	.	168	56	19	0	94
CHANNEL/ 197-67VT3P + Poncho Votivo 500	97	.	167	54	20	0	96
PIONEER/ P9807HR + Cruiser Extreme	98	.	161	51	23	0	96
G2/ GEN. 5H-501 + Cruiser 250	100	.	160	53	23	0	93
DEKALB/ DKC48-12 + Poncho Votivo 500	98	.	158	53	16	0	95
G2/ GEN. 5H-700 + Cruiser 250	100	.	158	52	24	0	99
RENK/ RK580VT3 + Not reported	98	.	157	51	19	0	98
INTEGRA/ 9460SS + Poncho 250	98	.	157	54	19	0	94
WENSMAN/ W 7270VT3PRO + Acceleron	97	.	153	53	17	0	97
PIONEER/ P9630XR + Cruiser Extreme	96	.	151	53	20	0	97
NUTECH/ 5N-197 + Cruiser 250	97	.	148	52	18	0	91
SEEDS/ 2000 EXP X398 + Cruiser 250	98	.	145	53	20	2	92
EPLEY/ E1315RR + Not reported	100	.	140	50	22	0	90
SEEDS/ 2000 2982GT + Cruiser 250	98	.	140	52	19	0	95
WENSMAN/ W 7273VT3 + Acceleron	98	.	139	50	19	0	92
DEKALB/ DKC49-94 + Poncho Votivo 500	99	.	137	50	18	0	99
RENK/ 5K565GTCBLLRW + Cruiser Extreme	99	.	137	52	20	0	99
EPLEY/ E1418GT3000 + Cruiser 250	104	.	134	47	25	0	94
NUTECH/ 5N-001 + Cruiser 250	100	.	129	49	20	0	92
SEEDS/ 2000 EXP X302 + Cruiser 250	102	.	129	48	21	0	100
Trial avg.:	99	187	151	52	20	0	95
High avg.:	104	194	168	56	25	2	100
Low avg.:	96	176	129	47	15	0	89
[5] LSD(.05):		NS**	11	1	1	1	5
[6] Min.TPG value:		176	158	55	.	.	95
[7] Max.TPG value:		.	.	.	16	1	.
[8] Coef. of var.:	28	4	4	2	4	287	3
No. entries:		8	28	28	28	28	28

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2011 yield average.

\* Shaded values within a column are included in the top-performance group.

# Adjusted to 13% moisture basis.

\*\* Indicates differences between values within a column are non-significant (NS).

Note that additional table references are explained in table D.

Table 3a. Bancroft early maturity Roundup Ready corn hybrid test results, 2010-11, Weerts Farms Inc. Seeded May 24, 2011 at 29,621 seeds per acre.

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages **		Other 2011 Averages *			
		2-Yr bu/a	2011 bu/a	Bu. Wt. lb.	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
G2/ GEN. 5H-700 + Cruiser 250	100	190	227	58	19	0	98
CHANNEL/ 196-06VT3P + Poncho Votivo 500	96	190	225	57	18	0	99
DEKALB/ DKC48-37(VT3) + Poncho Votivo 500	98	189	220	58	19	0	100
DEKALB/ DKC50-66(VT3) + Poncho Votivo 500	100	189	214	57	18	0	100
CHANNEL/ 199-55VT3 + Poncho Votivo 500	99	188	210	55	20	0	100
NUTECH/ 5N-001 GTCBLLRW + Cruiser 250	100	186	220	56	19	0	99
DEKALB/ DKC42-72(VT3) + Poncho Votivo 500	92	185	221	56	16	0	100
SEEDS/ 2000 9602G3 + Cruiser 250	96	185	211	56	17	2	98
G2/ GEN. 5X-500 + Cruiser 250	97	183	219	56	19	0	98
WENSMAN/ W 7273VT3 + Acceleron	98	183	215	57	18	0	99
DEKALB/ DKC43-27(VT3) + Poncho Votivo 500	93	180	214	58	17	0	100
EPLEY/ E1315RR + Not reported	100	173	202	56	20	1	97
NUTECH/ 5N-102 GTCBLLRW + Cruiser 250	100	160	192	55	21	3	98
HOEGEMEYER/ 7041 HXLLRR + Poncho 1250 + Votivo	100	.	239	56	20	0	100
WENSMAN/ W 7290VT3PRO + Acceleron	99	.	236	58	19	0	99
CHANNEL/ 197-67VT3P + Poncho Votivo 500	97	.	227	58	19	0	100
PIONEER/ P9917XR + Cruiser Extreme	99	.	222	58	19	0	98
LEGEND/ LR99983000GT + Not reported	98	.	221	57	17	3	100
G2/ GEN. 5X-795 + Cruiser 250	95	.	219	57	18	0	100
PIONEER/ P9807HR + Cruiser Extreme	98	.	218	54	20	1	98
DEKALB/ DKC45-51 + Poncho Votivo 500	95	.	215	58	20	0	100
INTEGRA/ 921100GT3000 + Poncho 250	100	.	209	56	19	1	98
DEKALB/ DKC49-94 + Poncho Votivo 500	99	.	208	58	17	0	98
NUTECH/ 5N-197 + Cruiser 250	97	.	207	57	20	0	98
G2/ GEN. 5H-501 + Cruiser 250	100	.	207	57	21	1	100
EPLEY/ E1275RR + Not reported	97	.	207	58	17	0	100
DEKALB/ DKC48-12 + Poncho Votivo 500	98	.	205	58	17	0	98
LEGEND/ LR9800VT3 + Not reported	100	.	203	57	18	0	100
SEEDS/ 2000 EXP X398 + Cruiser 250	98	.	203	56	20	2	95
RENK/ RK580VT3 + Not reported	98	.	202	57	18	0	100
RENK/ 5K565GTCBLLRW + Cruiser Extreme	99	.	200	56	20	0	98
LEGEND/ LR9993VT3 + Not reported	93	.	199	59	16	1	98
PIONEER/ P9910XR + Cruiser Extreme	99	.	198	56	18	0	100
SEEDS/ 2000 2982GT + Cruiser 250	98	.	198	57	19	2	98
LEGEND/ LR9197GENSS + Not reported	97	.	195	57	17	0	100
LEGEND/ LR9098GENSS + Not reported	98	.	183	57	22	0	99
Trial avg.:	98	183	211	57	19	1	99
High avg.:	100	190	239	59	22	3	100
Low avg.:	92	160	183	54	16	0	95
[5] LSD(.05):		14	15	1	1	NS**	NS
[6] Min.TPG value:		177	225	58	.	.	95
[7] Max.TPG value:		.	.	.	17	3	.
[8] Coef. of var.:		7	4	1	4	217	2
No. entries:	36	13	36	36	36	36	36

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2011 yield average.

\* Shaded values within a column are included in the top-performance group.

\*\* Indicates differences between values within a column are non-significant (NS).

# Adjusted to 13% moisture.

Note that additional table references are explained in table D.



Table 3b. Bancroft late maturity Roundup Ready corn hybrid test results, 2010-11, Weerts Farms Inc. Seeded May 24, 2011 at 29,621 seeds per acre.

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages *#		Other 2011 Averages *			
		2-Yr bu/a	2011 bu/a	Bu. Wt. lb.	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
PIONEER/ PIONEER BR.36V53 + Cruiser Extreme	102	192	213	56	23	0	100
EPLEY/ E1418GT3000 + Cruiser 250	104	187	210	53	25	0	99
EPLEY/ E1479HXTLLRR + Cruiser 250	104	177	193	54	24	2	100
NUTECH/ 5N-803 GTCBLLRW + Cruiser 250	103	173	191	53	24	1	100
PIONEER/ P0533XR + Cruiser Extreme	105	.	226	55	25	1	100
WENSMAN/ W 7320VT3PRO + Acceleron	101	.	223	57	23	0	100
RENK/ RK741VT3P + Acceleron	108	.	219	54	25	0	99
CHANNEL/ 203-43VT3P + Poncho Votivo 500	103	.	218	56	22	0	99
CHANNEL/ 201-16VT3 + Poncho Votivo 500	101	.	216	57	23	0	99
PIONEER/ P0448XR + Cruiser Extreme	104	.	215	57	25	1	97
NUTECH/ 5V-705 + Cruiser 250	105	.	215	58	22	0	100
G2/ GEN. 5H-905 + Cruiser 250	105	.	215	54	24	0	98
EPLEY/ E1602SS + Acceleron	106	.	214	53	27	0	99
SEEDS/ 2000 EXP X302 + Cruiser 250	102	.	213	55	23	0	100
RENK/ RK698VT3 + Acceleron	102	.	209	55	23	1	100
LEGEND/ LR9904VT3 + Not reported	104	.	208	57	22	0	98
SEEDS/ 2000 3141GT + Cruiser 250	104	.	208	54	24	1	100
CHANNEL/ 200-91VT3P + Poncho Votivo 500	102	.	208	56	22	2	99
G2/ GEN. 5X-903 + Cruiser 250	103	.	203	54	22	0	100
HOEGEMEYER/ 7278 HXLLRR + Poncho 1250 + Votivo	102	.	202	57	23	0	93
WENSMAN/ W 7360VT3 + Acceleron	103	.	197	56	23	0	99
WENSMAN/ W 7392GT3 + Acceleron	104	.	197	55	25	0	96
PIONEER/ P0115XR + Cruiser Extreme	101	.	195	56	21	0	94
G2/ GEN. 5H-0701 + Cruiser 250	107	.	195	56	24	1	100
INTEGRA/ 915102VT3 + Poncho 250	102	.	192	54	25	2	99
Trial avg.:	103	182	208	55	24	1	98
High avg.:	108	192	226	58	27	2	100
Low avg.:	101	173	191	53	21	0	93
[5] LSD(.05):		15	14	1	2	NS**	4
[6] Min.TPG value:		178	213	56	.	.	97
[7] Max.TPG value:		.	.	.	23	2	.
[8] Coef. of var.:		6	4	1	5	221	2
No. entries:	25	4	25	25	25	25	25

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2011 yield average.

\* Shaded values within a column are included in the top-performance group.

# Adjusted to 13% moisture basis.

\*\* Indicates differences between values within a column are non-significant (NS).

Note that additional table references are explained in table D.

Table 4a. Brookings early maturity Roundup Ready corn hybrid test results, 2010-11, Volga Research Farm. Seeded May 15, 2011 at 29,621 seeds per acre.

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages *#		Other 2011 Averages *			
		2-Yr bu/a	2011 bu/a	Bu. Wt. lb.	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
HOEGEMEYER/ 6200 GTCBLL + Cruiser 250	92	232	221	56	15	14	97
CHANNEL/ 199-55VT3 + Poncho Votivo 500	99	229	203	54	15	0	96
HOEGEMEYER/ 6838 3000GT + Cruiser 250	97	226	219	56	15	6	100
SEEDS/ 2000 9602G3 + Cruiser 250	96	226	218	56	15	0	100
CHANNEL/ 196-06VT3P + Poncho Votivo 500	96	225	215	56	16	0	99
WENSMAN/ W 7273VT3 + Acceleron	98	225	193	56	16	0	92
DEKALB/ DKC50-66 + Poncho Votivo 500	100	224	208	55	15	1	93
G2/ GEN. 5H-700 + Cruiser 250	100	222	201	56	17	0	84
NUTECH/ 5N-102 + Cruiser 250	100	221	217	57	16	2	99
DEKALB/ DKC42-72 + Poncho Votivo 500	92	219	217	55	14	0	99
G2/ GEN. 5H-501 + Cruiser 250	100	214	196	56	16	1	91
G2/ GEN. 5X-500 + Cruiser 250	97	212	203	57	17	1	94
EPLEY/ E1275RR + Not reported	97	206	202	58	15	0	97
EPLEY/ E1315RR + Not reported	100	206	182	54	16	0	96
DEKALB/ DKC43-27 + Poncho Votivo 500	93	205	217	57	15	0	97
SEEDS/ 2000 EXP X398 + Cruiser 250	98	.	218	56	16	0	99
PIONEER/ P9917XR + Cruiser Extreme	99	.	216	57	16	0	96
HEINE/ 637VT3 + Acceleron	98	.	216	56	15	0	100
NUTECH/ 5N-001 + Cruiser 250	100	.	215	52	16	0	95
HOEGEMEYER/ 7041 HXLLRR + Poncho 1250 + Votivo	100	.	215	55	16	0	95
DAIRYLAND/ ST-9399 + Cruiser Extreme 250	99	.	213	56	16	4	98
PIONEER/ P9807HR + Cruiser Extreme	98	.	211	56	16	1	97
HOEGEMEYER/ 6572 3000GT + Cruiser 250	95	.	211	56	15	2	98
WENSMAN/ W 7290VT3PRO + Acceleron	99	.	211	57	15	0	96
CHANNEL/ 197-67VT3P + Poncho Votivo 500	97	.	208	56	16	0	92
RENK/ 5K565GTCBLLRW + Cruiser Extreme	99	.	207	56	16	8	98
DEKALB/ DKC48-12 + Poncho Votivo 500	98	.	206	56	14	0	94
HEINE/ 705VT3 PRO + Acceleron	100	.	202	54	14	0	99
DEKALB/ DKC45-51 + Poncho Votivo 500	95	.	201	57	14	0	100
G2/ GEN. 5X-795 + Cruiser 250	95	.	200	56	15	0	97
RENK/ RK580VT3 + Not reported	98	.	199	57	16	1	98
HEINE/ 635VT3 + Acceleron	98	.	197	55	15	1	95
NUTECH/ 5N-197 + Cruiser 250	97	.	194	57	14	0	97
DEKALB/ DKC49-94 + Poncho Votivo 500	99	.	192	57	15	0	94
PIONEER/ P9910XR + Cruiser Extreme	99	.	189	54	15	0	95
SEEDS/ 2000 2982GT + Cruiser 250	98	.	172	57	15	0	96
Trial avg.:	98	219	206	56	15	1	96
High avg.:	100	232	221	58	17	14	100
Low avg.:	92	205	172	52	14	0	84
[5] LSD(.05):		NS**	14	1	<1	2	4
[6] Min.TPG value:		205	208	57	.	.	96
[7] Max.TPG value:		.	.	.	15	2	.
[8] Coef. of var.:		4	4	1	4	94	3
No. entries:	36	15	36	36	36	36	36

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2011 yield average.

\* Shaded values within a column are included in the top-performance group.

# Adjusted to 13% moisture basis.

\*\* Indicates differences between values within a column are non-significant (NS).

Note that additional table references are explained in table D.

Table 4b. Brookings late maturity Roundup Ready corn hybrid test results, 2010-11, Volga Research Farm. Seeded May 15, 2011 at 29,621 seeds per acre.

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages *#		Other 2011 Averages *			
		2-Yr bu/a	2011 bu/a	Bu. Wt. lb.	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
EPLEY/ E1418GT3000 + Cruiser 250	104	237	215	54	16	2	93
G2/ GEN. 5H-905 + Cruiser 250	105	230	207	54	15	0	96
HEINE/ 745VT3 PRO + Acceleron	105	228	198	55	14	0	93
PIONEER/ 36V53 + Cruiser Extreme	102	224	213	55	16	0	95
HEINE/ 744RRYGCB + Acceleron	104	224	201	56	16	0	85
NUTECH/ 5N-803 + Cruiser 250	103	223	200	55	16	0	92
EPLEY/ E1479HXTLLRR + Cruiser 250	104	219	197	54	18	1	99
PIONEER/ P0533XR + Cruiser Extreme	105	.	226	56	19	0	99
SEEDS/ 2000 EXP X302 + Cruiser 250	102	.	223	54	16	1	100
CHANNEL/ 201-16VT3 + Poncho Votivo 500	101	.	220	57	15	0	95
HEINE/ 741GT3000 + Cruiser 250	104	.	219	54	16	1	98
DAIRYLAND/ ST-9500SSX + Cruiser Extreme 250	101	.	217	57	16	0	95
NUTECH/ 5V-705 + Cruiser 250	105	.	217	57	16	0	96
WENSMAN/ W 7360VT3 + Acceleron	103	.	217	57	16	0	97
RENK/ RK698VT3 + Acceleron	102	.	216	57	16	0	96
WENSMAN/ W 7392GT3 + Acceleron	104	.	213	55	16	1	92
HEINE/ 735VT3 PRO + Acceleron	103	.	211	55	15	0	97
CHANNEL/ 203-43VT3P + Poncho Votivo 500	103	.	211	56	15	0	97
G2/ GEN. 5X-903 + Cruiser 250	103	.	210	55	15	0	96
RENK/ RK744VT3P + Acceleron	107	.	207	55	15	0	99
WENSMAN/ W 7320VT3PRO + Acceleron	101	.	206	57	16	0	96
PIONEER/ P0115XR + Cruiser Extreme	101	.	205	58	15	0	99
PIONEER/ P0448XR + Cruiser Extreme	104	.	204	58	17	0	100
DAIRYLAND/ ST-9303SSX + Cruiser Extreme 250	103	.	204	54	14	0	98
HEINE/ 731VT3 + Not reported	104	.	204	53	14	0	94
SEEDS/ 2000 3141GT + Cruiser 250	104	.	203	56	16	1	96
DAIRYLAND/ ST-9501SSX + Cruiser Extreme 250	101	.	202	55	15	0	95
G2/ GEN. 5H-0701 + Cruiser 250	107	.	201	56	16	0	97
EPLEY/ E1602SS + Acceleron	106	.	200	53	20	0	95
CHANNEL/ 200-91VT3P + Poncho Votivo 500	102	.	179	55	16	0	95
Trial avg.:	103	226	208	55	16	0	96
High avg.:	107	237	226	58	20	2	100
Low avg.:	101	219	179	53	14	0	85
[5] LSD(.05):		NS**	13	1	<1	1	4
[6] Min.TPG value:		219	213	57	.	.	96
[7] Max.TPG value:		.	.	.	15	1	.
[8] Coef. of var.:		4	4	1	3	243	3
No. entries:	30	7	30	30	30	30	30

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2011 yield average.

\* Shaded values within a column are included in the top-performance group.

# Adjusted to 13% moisture basis.

\*\* Indicates differences between values within a column are non-significant (NS).

Note that additional table references are explained in table D.

Table 5a. Geddes early maturity Roundup Ready corn hybrid test results, 2010-11, Curtis Sybesma Farm. Seeded May 16, 2011 at 29,621 seeds per acre.

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages *#		Other 2011 Averages *				
		2-Yr bu/a	2011 bu/a	Bu. Wt. lb.	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]	Ear Drop Pctg [3]
CHANNEL/ 199-55VT3 + Poncho Votivo 500	99	194	152	57	13	0	91	0
DEKALB/ DKC52-59(VT3) + Poncho Votivo 500	102	189	142	55	13	2	90	0
G2/ GEN. 5H-905 + Cruiser 250	105	189	139	56	13	2	94	5
PIONEER/ PIONEER BR.36V53 + Cruiser Extreme	102	182	141	57	13	1	96	0
EPLEY/ E1418GT3000 + Cruiser 250	104	182	133	54	13	3	88	2
DEKALB/ DKC50-66(VT3) + Poncho Votivo 500	100	178	135	55	13	0	94	0
EPLEY/ E1479HXTLLRR + Cruiser 250	104	167	108	57	16	5	98	0
NUTECH/ 5N-102 GTCBLLRW + Cruiser 250	100	162	116	56	13	7	92	0
CHANNEL/ 201-16VT3 + Poncho Votivo 500	101	160	84	57	14	10	95	0
NUTECH/ 5N-803 GTCBLLRW + Cruiser 250	103	155	75	57	13	4	94	0
WENSMAN/ W 7320VT3PRO + Acceleron	101	.	158	57	14	1	95	0
PIONEER/ P0533XR + Cruiser Extreme	105	.	157	57	15	5	99	0
NUTECH/ 5N-001 + Cruiser 250	100	.	148	54	13	3	91	0
DEKALB/ DKC48-12 + Poncho Votivo 500	98	.	145	56	13	0	97	1
DEKALB/ DKC49-94 + Poncho Votivo 500	99	.	144	57	13	0	89	0
WENSMAN/ W 7360VT3 + Acceleron	103	.	134	58	14	2	93	4
DEKALB/ DKC55-09 + Poncho Votivo 500	105	.	132	59	15	2	95	3
NUTECH/ 5V-705 + Cruiser 250	105	.	132	56	14	0	91	1
HOEGEMEYER/ 7278 HXLLRR+ Poncho 1250+ Votivo	102	.	127	59	14	0	91	1
HEINE/ 735VT3 PRO + Acceleron	103	.	127	56	13	0	92	1
PIONEER/ P0448XR + Cruiser Extreme	104	.	124	57	14	0	91	0
HEINE/ 731VT3 + Not reported	104	.	123	56	13	0	97	1
HEINE/ 741GT3000 + Cruiser 250	104	.	120	54	13	5	97	4
CHANNEL/ 200-91VT3P + Poncho Votivo 500	102	.	119	58	14	0	72	0
HEINE/ 745VT3 PRO + Acceleron	105	.	115	56	13	2	88	9
WENSMAN/ W 7392GT3 + Acceleron	104	.	114	57	14	0	90	11
HEINE/ 744RRYGCB + Acceleron	104	.	101	56	15	0	90	11
G2/ GEN. 5X-903 + Cruiser 250	103	.	97	57	13	1	92	12
MASTERS/ CHOICE MCT-5324 + Poncho 250	103	.	93	57	13	0	93	5
Trial avg.:	103	176	125	56	14	2	92	4
High avg.:	105	194	158	59	16	10	99	12
Low avg.:	98	155	75	54	13	0	72	0
[5] LSD(.05):		NS**	17	2	<1	3	6	4
[6] Min.TPG value:		155	141	57	.	.	93	.
[7] Max.TPG value:		.	.	.	13	3	.	4
[8] Coef. of var.:		5	8	2	3	95	4	81
No. entries:	29	10	29	29	29	29	29	20

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2011 yield average.  
 \* Shaded values within a column are included in the top-performance group.  
 # Adjusted to 13% moisture basis.  
 \*\* Indicates differences between values within a column are non-significant (NS).  
 Note that additional table references are explained in table D.

Table 5b. Geddes late maturity Roundup Ready corn hybrid test results, 2010-11, Curtis Sybesma Farm. Seeded May 16, 2011 at 29,621 seeds per acre.

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages *#		Other 2011 Averages *				
		2-Yr bu/a	2011 bu/a	Bu. Wt. lb.	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]	Ear Drop Pctg [3]
G2/ GEN. 5H-210 + Cruiser 250	110	194	150	57	16	0	87	0
WENSMAN/ W 7473VT3 + Acceleron	109	182	121	54	12	0	86	0
DEKALB/ DKC59-35(VT3) + Poncho Votivo 500	109	180	120	57	15	0	92	0
G2/ GEN. 5H-511 + Cruiser 250	110	175	114	58	16	0	83	0
CHANNEL/ 209-85VT3P + Poncho Votivo 500	109	.	148	56	16	2	95	0
DEKALB/ DKC62-97 + Poncho Votivo 500	112	.	147	57	16	0	97	0
HOEGEMEYER/ EXP 7726 + Activa	107	.	147	57	15	0	89	3
CHANNEL/ 210-61VT3 + Poncho Votivo 500	110	.	145	56	18	1	95	0
CHANNEL/ 211-99VT3P + Poncho Votivo 500	111	.	140	58	16	0	94	0
G2/ GEN. 5H-0701 + Cruiser 250	107	.	139	57	14	0	93	3
EPLEY/ E1602SS + Acceleron	106	.	138	58	15	1	88	0
NUTECH/ 5B-1003 + Cruiser 250	110	.	137	54	15	0	96	0
WENSMAN/ W 7566VT3PRO + Acceleron	111	.	128	54	14	0	95	5
DEKALB/ DKC63-84 + Poncho Votivo 500	113	.	122	57	14	1	95	4
G2/ GEN. 5H-013 + Cruiser 250	113	.	110	58	15	1	93	5
G2/ GEN. 5H-712 + Cruiser 250	112	.	108	57	17	0	91	6
WENSMAN/ W 6443RR + Acceleron	106	.	107	58	14	2	91	8
Trial avg.:	110	183	131	56	15	0	92	3
High avg.:	113	194	150	58	18	2	97	8
Low avg.:	106	175	107	54	12	0	83	0
[5] LSD(.05):		NS**	14	1	1	NS	5	3
[6] Min.TPG value:		175	137	57	.	.	92	.
[7] Max.TPG value:		.	.	.	13	2	.	3
[8] Coef. of var.:		5	7	1	4	182	3	74
No. entries:	17	4	17	17	17	17	17	12

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2011 yield average.

\* Shaded values within a column are included in the top-performance group.

# Adjusted to 13% moisture basis.

\*\* Indicates differences between values within a column are non-significant (NS).

Note that additional table references are explained in table D.

Table 6a. Beresford early maturity Roundup Ready corn hybrid test results, 2010-11, Southeast Experiment Station. Seeded May 16, 2011 at 29,621 seeds per acre.

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages *#		Other 2011 Averages *			
		2-Yr bu/a	2011 bu/a	Bu. Wt. lb.	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
G2/ GEN. 5H-210 + Cruiser 250	110	226	204	58	19	2	91
HEINE/ 810VT3 PRO + Acceleron	109	226	203	59	18	1	95
WENSMAN/ W 7473VT3 + Acceleron	109	224	196	55	18	0	91
DEKALB/ DKC59-35(VT3) + Poncho Votivo 500	109	222	199	60	19	0	90
HOEGEMEYER/ HPT7584HXTRR+Poncho 1250+Votivo	105	218	200	57	16	0	96
G2/ GEN. 5H-511 + Cruiser 250	110	208	185	60	19	2	85
HOEGEMEYER/ EXP7998HXRR+Poncho 1250+Votivo	109	205	184	58	17	1	87
DAIRYLAND/ ST-6310 + Cruiser Extreme 250	110	204	182	59	16	0	97
DEKALB/ DKC52-59(VT3) + Poncho Votivo 500	102	202	180	58	14	0	89
PIONEER/ 34F07 + Cruiser Extreme	110	.	219	59	18	0	91
NUTECH/ 5B-1003 + Cruiser 250	110	.	211	56	18	1	98
NUTECH/ 5N-803 + Cruiser 250	103	.	203	58	16	0	92
DAIRYLAND/ ST-9210SSX + Cruiser Extreme 250	110	.	201	57	20	1	91
CHANNEL/ 210-61VT3 + Poncho Votivo 500	110	.	200	57	20	0	95
CHANNEL/ 209-85VT3P + Poncho Votivo 500	109	.	199	58	17	0	98
PIONEER/ P0533XR + Cruiser Extreme	105	.	198	60	17	0	95
G2/ GEN. 5H-0701 + Cruiser 250	107	.	198	58	16	0	90
RENK/ RK818VT3P + Acceleron	109	.	196	58	18	0	90
WENSMAN/ W 6443RR + Acceleron	106	.	195	60	16	2	91
NUTECH/ 5N-102 + Cruiser 250	100	.	194	57	14	1	99
DEKALB/ DKC53-78 + Poncho Votivo 500	103	.	189	58	15	0	96
WENSMAN/ W 7320VT3PRO + Acceleron	101	.	188	59	15	0	83
G2/ GEN. 5H-905 + Cruiser 250	105	.	186	58	16	0	94
NUTECH/ 5N-001 + Cruiser 250	100	.	185	55	13	0	74
WENSMAN/ W 7360VT3 + Acceleron	103	.	185	59	17	0	93
WENSMAN/ W 7392GT3 + Acceleron	104	.	184	58	16	0	91
DEKALB/ DKC55-09 + Poncho Votivo 500	105	.	183	59	16	0	94
G2/ GEN. 5X-903 + Cruiser 250	103	.	180	57	16	1	92
NUTECH/ 5V-705 + Cruiser 250	105	.	178	56	15	0	96
RENK/ RK744VT3P + Acceleron	107	.	177	58	16	0	89
Trial avg.:	106	215	193	58	17	0	92
High avg.:	110	226	219	60	20	2	99
Low avg.:	100	202	177	55	13	0	74
[5] LSD(.05):		8	16	1	1	NS**	6
[6] Min.TPG value:		219	203	59	.	.	94
[7] Max.TPG value:		.	.	.	14	2	.
[8] Coef. of var.:		5	5	2	5	205	4
No. entries:	30	9	30	30	30	30	30

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2011 yield average.

\* Shaded values within a column are included in the top-performance group.

# Adjusted to 13% moisture basis.

\*\* Indicates differences between values within a column are non-significant (NS).

Note that additional table references are explained in table D.

Table 6b. Beresford late maturity Roundup Ready corn hybrid test results, 2010-11, Southeast Experiment Station. Seeded May 16, 2011 at 29,621 seeds per acre.

Brand/Hybrid + Seed Treatment [1]	Rel. Mat. [2]	Yield Averages * #		Other 2011 Averages *			
		2-Yr bu/a	2011 bu/a	Bu. Wt. lb.	Grain Moisture Pctg	Lodging Pctg [3]	Final Stand Pctg [4]
DEKALB/ DKC63-84(VT3) + Poncho Votivo 500	113	217	191	57	21	0	87
DEKALB/ DKC62-97 + Poncho Votivo 500	112	.	213	56	21	0	91
CHANNEL/ 211-99VT3P + Poncho Votivo 500	111	.	213	58	19	1	91
G2/ GEN. 5H-013 + Cruiser 250	113	.	212	60	22	1	95
RENK/ RK858VT3P + Acceleron	112	.	209	57	19	0	95
WENSMAN/ W 7566VT3PRO + Acceleron	111	.	201	54	20	0	90
RENK/ RK880SSTX + Acceleron	112	.	181	57	20	0	91
G2/ GEN. 5H-712 + Cruiser 250	112	.	169	57	21	1	87
Trial avg.:	112	217	199	57	20	0	91
High avg.:	113	217	213	60	22	1	95
Low avg.:	111	217	169	54	19	0	87
[5] LSD(.05):	.	.	18	<1	1	NS**	NS
[6] Min.TPG value:	.	.	196	59	.	.	87
[7] Max.TPG value:	.	.	.	.	20	1	.
[8] Coef. of var.:	.	.	5	1	4	199	7
No. entries:	8	1	8	8	8	8	8

[1] Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2011 yield average.

\* Shaded values within a column are included in the top-performance group.

# Adjusted to 13% moisture basis.

\*\* Indicates differences between values within a column are non-significant (NS).

Note that additional table references are explained in table D.



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**Corn production is greatly affected by hybrid selection.**

This publication reports the agronomic performance of entries in the 2012 South Dakota performance trials for glyphosate-resistant field corn hybrids.

**Major factors in hybrid selection include:**

- Yield
- Maturity
- Lodging resistance
- Seed traits

## Corn Hybrid Performance Trials Results - Bath

Robert G. Hall | SDSU Extension Agronomist  
Kevin K. Kirby | Agricultural Research Manager  
Shawn Hawks | Agricultural Research Manager



These performance trials are conducted by the South Dakota Crop Performance Testing program at South Dakota State University. Corn test trial information is listed in table A, performance table footnote references including technology traits and seed treatments are listed in Table B. Mailing addresses for seed company entrants that participated in the 2012 test trials are listed in table C.

### General Test Procedures

Seed companies pick one or more of the six test locations where their entries are tested. Entries are placed into "early" or "late" maturity trials. The relative maturity breaks between the early and late tests are 95 days for Bath and South Shore, 100 days for Bancroft and Volga, 105 days for Geddes, and 110 days for Beresford. Hybrids are assigned to trials based on the relative maturity rating reported by the participating seed company. In 2012, results from only five of the test locations are reported. Information from Beresford is not reported because the severe drought at that location prevented the collection of valid data.



Table A. General test information for 2012	
Location:	Glyphosate resistant corn results, Bath, SD
Cooperator:	Gordon and Roger Locken Farms - Bath
Soil Type:	Great Bend silt loam, 0-2% slope
Tillage:	No-till
Fertility-Yield Goal:	200 bushel
Previous Crop:	Soybeans
Row Space:	30 inches
Seeding Population:	30,000/acre
Weed Control:	Pre: Harness Xtra, Post: 1 quart Roundup
Insect Control:	None
Disease Control:	None
Date Seeded:	May 1, 2012

### 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, with the center two rows harvested for yield. A Monosem precision row crop planter was used for seeding plots at all locations. In 2012, the precision planter was calibrated to deliver 29,621 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, pest control, 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 pounds/acre of 37-18-00 was applied 2" below and 2" to the side (2 x 2) of the seed row.

### Measures of Performance

Yields are obtained from the South Dakota Crop Performance

Testing Program. Two-year and current yield averages are included where hybrids have been tested for the most recent two-year period.

**Yield.** Yield values are an average of three replications and are expressed as bushels per acre, adjusted to 15.5% moisture on a dry-matter basis and a bushel weight of 56 pounds. Statistical tests were conducted to determine whether differences obtained were caused by variations in environment or were true hybrid differences. In 2012, the coefficient of variation (CV) values (a measure of experimental error) for yield was quite variable, ranging from a low of 4% in both trials at Bath to a high of 12% and 15% for the early and late trials, respectively, at Geddes. Experimental error may be the result of several factors, including test methods, or factors such as moisture, temperature, soil variations, or agronomic factors like seeding date, reseeding, or seed quality factors—all of which may or may not be controllable in a given year. Clearly, this year, drought

and variable seasonal moisture distribution and/or subsoil moisture conditions, along with above-average temperatures, combined to produce highly variable yields across our South Dakota corn growing regions. The top yield averages occurred at Bath and Bancroft, whereas, the plot grain yields were so low at Beresford the harvest equipment could not determine valid harvest yields.

### Grain moisture content.

Moisture content is expressed as the percentage of moisture in the shelled corn at harvest. Hybrids that are above average in yield and can be stored without additional drying are desirable. At harvest, moisture values were determined by the combine moisture meter, which in turn was periodically verified with a Dickey-John GAC II meter.

**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 significant yield difference. LSD values are given at the bottom of every column where there is significant difference among the averages within the column. If differences among the averages within a column are not significant, the LSD value is reported as “nonsignificant” (NS). The top performance group (TPG) for the performance factors yield (bu/a), bushel weight in (lbs.), harvest

grain moisture (%), lodging below the ear (%), and final stand (%) are indicated in the performance tables by the shaded data values. Evaluate the performance of each hybrid (row) by moving across the table and observing if any of the reported performance values are shaded. The more shaded performance values in each row, the better the hybrid did as a top-performing hybrid for a given test trial.

## Performance Trial Results

**Note:** Evaluate the performance of each hybrid (row) by moving across the table and observing if any of the reported performance values are shaded. The more shaded performance values there are in each row the better the hybrid did as a top-performing hybrid for a given test trial.

No.	Explanation of references
[1]	Entries are listed by Brand/Variety– Entries are sorted by 2-yr then by 2012 yield average.
[2]	Technology traits: Agr. = Agrisure; SmartStax or GenSSX= DowAgrosciences (DAS) or Monsanto Genuity (Gen), respectively; HX1, HXX = Herculex by DAS & Pioneer Hi-Bred, Opt. = Optimum AcreMax1 or Optimum AcreMaxXtra by Pioneer Hi-Bred, YG = Monsanto YieldGard.
[3]	Seed treatments: P/V500 = Poncho/Votivo 500, P/V1250 = Poncho/Votivo1250; CM250 = Cruiser Maxx250, CM1250 = Cruiser Max1250; MHL = Maxim XL, MQ = Maxim Quattro; PPST250 = Pioneer Premium Seed Treatment.
[4]	Brand Relative Maturity (Rel. Mat.)– the relative maturity rating reported by the test trial entrant.
[5]	Lodging Percentage– stalks broken below the ear as a percentage of the final stand; look for low values.
[6]	Final Stand Percentage – the number of standing stalks at harvest as a percentage of the seeding population.
[7]	Least Significant Difference (LSD 0.05) – the difference any two values within a column must be equal to or exceed for the values to be significantly different (0.05 level of probability). If the difference is less than the LSD value the difference between them is nonsignificant (NS).
[8]	Min. TPG-avg.– the minimum column value for yield, bushel weight, and final stand percentage that a hybrid must equal or exceed to be in the top performance group (TPG).
[9]	Max. TPG-avg.– the maximum column value for grain moisture at harvest, lodging percentage, or lodging score that a hybrid must equal or be less than to be in the TPG.
[10]	Coefficient of variation (C.V.)– the percent of experimental error associated with a test trial. Ideally, the CV value for yield is less than 15%. Values less than 5% are less common ; while values of 6-15% are more common. If a value exceeds 15%; the trial had too much error to be valid, so the results are not reported.

Table 1. Bath early maturity Roundup Ready corn hybrid test results, 2011-12, Gordon and Roger Locken Farm.

Brand/Hybrid [1] + Tech. Trait [2] + Seed Trt. [3]	Rel. Mat. [4]	Yield Averages * ,#		Other 2012 Averages##			
		2-Yr bu/a	2012 bu/a	Bu. Wt. lb	Grain Moisture %	Ldg. % [5]	Final Stand % [6]
SEEDS/ 2000 2903GTCELL + AgrGT/CB/LL + Acceleron	90	223	218	56	15	1	87
RENK/ RK585VT3P + GenVT3P + Acceleron	95	222	215	58	14	0	94
SEEDS 2000/ 9504VT3P + GenVT3P + Acceleron	95	217	212	59	14	1	89
MASTERS/ CHOICE MCT-493 + Agr3000GT + CM250+MXL G2/ GEN. 5X-795 + HXXRR2 + MQ	93	212	192	57	13	1	80
	95	207	215	58	13	0	91
SEEDS 2000/ 9202 VT2P + OptAMX + MQ	92	207	210	57	13	0	89
WENSMAN/ W 7140VT3PRO + GenVT3P + Acceleron	93	207	206	60	14	1	93
SEEDS 2000 /9503 VT2P + GenVT2P + Acceleron	95	206	204	60	15	1	88
NUTECH/ 5N-9001 + LL + CM250	90	206	188	58	13	0	80
PETERSON/ FARMS 76R92 + GenVT2P + Acceleron	92	204	202	58	13	0	89
WENSMAN/ W 8120VT2RIB + GenVT2P + Acceleron	92	203	206	57	13	0	86
RENK/ RK530VT3P + GenVT3P + Acceleron	94	202	204	60	13	0	90
PIONEER/ 38H08 + HX1RR2 + PPST250	92	201	199	57	12	2	89
CHANNEL/ 192-09VT3P + GenVT3P + P/V500	92	.	220	58	13	0	92
RENK/ RK492VT3P + GenVT3P + Acceleron	93	.	215	60	13	0	91
PETERSON FARMS/ PFS76Z95 + GenVT2P + Acceleron	95	.	213	59	16	1	90
RENK/ RK568VT3P + GenVT3P + Acceleron	95	.	212	59	15	0	93
G2 GEN./ 5X-193 + HXXRR2 + P/V1250	93	.	211	58	13	1	88
DEKALB/ DKC43-48 + GenVT3P + P/V500	93	.	210	58	13	1	94
EPLEY/ E9505RR + RR2 + MQ	95	.	209	60	14	0	89
PROSEED/ 1292VT2P + LL + Acceleron	92	.	205	58	13	0	89
DEKALB/ DKC43-10 + GenVT2P + P/V500	93	.	204	58	13	0	87
WENSMAN/ W 8184VT3PRO + GenVT3P + Acceleron	95	.	201	58	15	2	88
RENK/ RK434VT3P + GenVT3P + Acceleron	92	.	200	59	13	0	85
PROSEED/ 1295SS + LL + Acceleron	95	.	197	60	13	0	93
G2 GEN./ 5X-9402 + HXXRR2 + P/V1250	94	.	197	59	13	0	83
PROSEED/ D99031116 + LL + CM250+MQ	90	.	194	58	14	0	75
PETERSON FARMS/ PFS75T93 + GenVT2P + Acceleron	93	.	194	60	13	1	88
PIONEER/ P8906HR + HX1RR2 + PPST250	89	.	194	59	13	1	92
Trial avg.:	93	209	205	58	14	1	88
High avg.:	95	223	220	60	16	2	94
Low avg.:	89	201	188	56	12	0	75
[7] LSD(.05):		NS**	14	1	1	1	5
[8] Min.TPG value:		201	206	59	.	.	89
[9] Max.TPG value:		.	.	.	13	1	.
[10] Coef. of var.:		4	4	1	4	187	3
No. entries:	29	13	29	29	29	29	29

NOTE: Table references [1-10] are explained in table B.

\* Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2012 yield average.

# Adjusted to 15.5% moisture.

\*\* NS indicates differences between column values are nonsignificant.

## Shaded column values are included in the top-performance group (TPG).

Table 2. Bath late maturity Roundup Ready corn hybrid test results, 2011-12, Gordon and Roger Locken Farm.

Brand/Hybrid [1] + Tech. Trait [2] + Seed Trt. [3]	Rel. Mat. [4]	Yield Averages *,#		Other 2012 Averages##			
		2-Yr bu/a	2012 bu/a	Bu. Wt. lb	Grain Moisture %	Ldg. % [3]	Final Stand % [6]
NUTECH/ 5N-001 + Agr3000GT + MQ	100	224	217	56	16	0	81
PIONEER/ 36V53 + HX1RR2 + PPST250	102	222	219	56	15	0	91
DEKALB/ DKC50-66 + YGVTRWRR2 + P/V500	100	221	219	58	13	0	91
DAIRYLAND/ ST-9399 + Agr3000GT + CM250	99	221	216	57	15	0	89
CHANNEL/ 196-06VT3P + GenVT3P + P/V500	96	221	212	59	15	0	89
SEEDS 2000/ 9902 VTP3111 + Agr311 + Acceleron	98	213	206	57	14	1	93
DEKALB/ DKC48-12 + GenSSX + P/V500	98	208	206	57	13	0	82
WENSMAN/ W 7268VT3 + YGVTRWRR2 + Acceleron	96	205	208	57	16	0	92
RENK/ RK580VT3 + GenSSX + Acceleron	98	203	184	58	15	0	78
PIONEER/ P0193HR + HX1RR2 + PPST250	101	.	228	54	16	2	89
PIONEER/ P0062XR + HXXRR2 + PPST250	100	.	227	54	15	8	96
G2 GEN./ 5X-0004 + HXXRR2 + P/V1250	100	.	225	54	15	1	90
DEKALB/ DKC49-30 + GenVT3P + P/V500	99	.	222	59	14	0	95
PIONEER/ P9834HR + HX1RR2 + PPST250	98	.	220	55	14	0	81
G2 GEN./ 5Z-198 + OptAMX + P/V1250	98	.	220	55	12	0	86
DAIRYLAND/ DS9501SSX + DAS Smart Stax + Activa Compl.	101	.	219	56	13	0	92
WENSMAN/ W 7290VT3PRO + GenVT3P + Acceleron	99	.	218	58	14	0	96
WENSMAN/ W 9288VT3PRO + GenVT3P + Acceleron	98	.	218	58	15	0	91
SEEDS 2000/ 3011 G3 + Agr3000GT + Acceleron	101	.	218	55	15	0	81
PIONEER/ P9917AM1 + OptAM1 + PPST250	99	.	214	58	14	0	88
WENSMAN/ W 7320VT3PRO + GenVT3P + Acceleron	101	.	208	58	15	1	90
G2 GEN./ 5X-895 + HXXRR2 + MQ	97	.	207	57	13	0	88
NUTECH/ 5N-0103 + Agr3000GT + CM250	101	.	205	56	15	0	87
G2 GEN./ 5H-502 + HX1RR2 + MQ	102	.	204	56	16	0	79
PIONEER/ P9675AMX + OptAMX + PPST250	96	.	203	58	13	0	85
RENK/ RK578VT3P + GenVT3P + Acceleron	96	.	195	58	13	0	89
DEKALB/ DKC46-20 + GenVT3P + P/V500	96	.	194	60	15	0	87
DAIRYLAND/ DS9303SSX + DAS Smart Stax + Activa Compl.	103	.	194	55	15	1	88
RENK/ RK576VT3P + GenVT3P + Acceleron	97	.	191	58	13	0	89
NUTECH/ 5B-798 + AgrGT/CB/LL + CM250	98	.	181	58	16	1	78
DAIRYLAND/ DS9402SSX + DAS Smart Stax + Activa Compl.	102	.	172	54	14	1	82
Trial avg.:	99	215	209	57	14	1	88
High avg.:	103	224	228	60	16	8	96
Low avg.:	96	203	172	54	12	0	78
[5] LSD (.05):		NS**	12	2	1	1	6
[6] Min.TPG value:		203	216	58	.	.	90
[7] Max.TPG value:		.	.	.	13	1	.
[8] Coef. of var.:		3	4	2	5	143	4
No. entries:	31	9	31	31	31	31	31

NOTE: Table references [1-10] are explained in table B.

\* Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2012 yield average.

# Adjusted to 15.5% moisture.

\*\* NS indicates differences between column values are nonsignificant.

## Shaded column values are included in the top-performance group (TPG).

**Early maturity trial, Table 1.**

The test-trial yield averages were **209 bu/a** for two years and **205 bu/a** in 2012. Hybrids that yielded **201 bu/a** or more for two years and **206 bu/a** or more for 2012 qualified for the top-performance-group (TPG) for yield. There was no significant difference in yield average among the hybrids tested for the two year period. Hybrids had to differ in yield average by **14 bu/a** in 2012 to be significantly different. In 2012, bushel weights averaged **58 lbs.**, grain moisture averaged **14%**, lodging percentage averaged **1%**, and final stand percentage averaged **88%**. In order for a hybrid to be in the TPG for these factors, it had to average **59 lbs.** or more in bushel weight, **13%** or less in grain moisture, **1%** or less in lodging

percentage, and **89%** or more for final stand percentage. In order for a hybrid variable to differ from one hybrid compared to another, their difference had to equal **14 bu/a** or more for yield in 2012, **1 lb.** or more in bushel weight, **1%** or less in grain moisture, **1%** or less in lodging percentage and **5%** or more in the final stand percentage.

**Late maturity trial, Table 2.**

The test-trial yield averages were **215 bu/a** for two years and **209 bu/a** in 2012. Hybrids with yield averages of **203 bu/a** or more for two years and **216 bu/a** or more for 2012 qualified for the TPG. There was no significant difference in yield average among the hybrids tested for the two year period. Hybrids had to differ

in yield average by **12 bu/a** in 2012 to be significantly different. In 2012, bushel weights averaged **57 lbs.**, grain moisture averaged **14%**, lodging percentage averaged **1%**, and final stand percentage averaged **88%**. In order for a hybrid to be in the TPG for these factors, it had to average **58 lbs.** or more in bushel weight, **13%** or less in grain moisture, **1%** or less in lodging percentage, and **90%** or more for final stand percentage. In order for a hybrid variable to differ from one hybrid compared to another, their difference had to equal **12 bu/a** or more for yield in 2012, **2 lb.** or more in bushel weight, **1%** or more in grain moisture, **1%** or more in lodging percentage and **6%** or more in the final stand percentage.

Table C. Mailing addresses for seed entries in the 2012 corn hybrid trials and listed by seed brand name

Seed brand	Seed company mailing address
Channel	Channelbio Corp., Box 277, Laurel, NE 68745
Dairyland	PO Box 958, West Bend, WI 53095
Dekalb	46040 SD Hwy 44, Chancellor, SD 57015
Epley Bros.	Epley Bros. Hybrids Inc., 22494 Yale Ave., Shell Rock, IA 50670
G-2 Genetics	G-2 Genetics, 2321 North Loop Drive, Suite 230, Ames, IA 50010
Hoegemeyer	Hoegemeyer Hybrids, 1755 Hoegemeyer Road, Hooper, NE 68031
Masters Choice	3010 St. Rt. 146 E, Anna, IL 62906
NuTech	Nutech Seed, LLC, 2321 North Loop Drive, Suite 230, Ames, IA 50010
Petersen Farms	3104 164th Ave. SE, Harwood, ND 58042
Pioneer	Pioneer Hi-Bred International, 151 Saint Andrews Court-Suite 910, Mankato, MN 56001
ProSeed	705 E. Brewster, Harvey, ND 58341
Renk	6809 Wilburn Road, Sun Prairie, WI 53590
Seeds 2000	Seeds 2000, 115 N 3rd St., Breckenridge, MN 56520
Wensman	Wensman Seed Co., PO Box 190, Wadena, MN 56482



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OCTOBER 2012

SDSU EXTENSION

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## Corn Hybrid Performance Trials Results - Volga

Robert G. Hall | SDSU Extension Agronomist  
Kevin K. Kirby | Agricultural Research Manager  
Shawn Hawks | Agricultural Research Manager



These performance trials are conducted by the South Dakota Crop Performance Testing program at South Dakota State University. Corn test trial information is listed in table A, performance table footnote references including technology traits and seed treatments are listed in Table B. Mailing addresses for seed company entrants that participated in the 2012 test trials are listed in table C.

### General Test Procedures

Seed companies pick one or more of the six test locations where their entries are tested. Entries are placed into "early" or "late" maturity trials. The relative maturity breaks between the early and late tests are 95 days for Bath and South Shore, 100 days for Bancroft and Volga, 105 days for Geddes, and 110 days for Beresford. Hybrids are assigned to trials based on the relative maturity rating reported by the participating seed company. In 2012, results from only five of the test locations are reported. Information from Beresford is not reported because the severe drought at that location prevented the collection of valid data.

Table A. General test information for 2012.	
LOCATION:	Glyphosate resistant corn trial results, Volga, SD.
COOPERATOR:	SDSU Plant Science Research Farm – Volga, Doug Doyle and staff.
SOIL TYPE:	Brandt silty clay loam, 0-2% slope
TILLAGE:	Conventional
FERTILITY-YIELD GOAL:	200 bushel
PREVIOUS CROP:	Spring wheat (stubble)
ROW SPACE:	30 inches
SEEDING POPULATION:	30,000/acre
WEED CONTROL:	Pre: 1qt Dual 2, Post: 1 quart Roundup
INSECT CONTROL:	None
DISEASE CONTROL:	None
DATE SEEDED:	April 30, 2012

### 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, with the center two rows harvested for yield. A Monosem precision row crop planter was used for seeding plots at all locations. In 2012, the precision planter was calibrated to deliver 29,621 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, pest control, 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 pounds/acre of 37-18-00 was applied 2" below and 2" to the side (2 x 2) of the seed row.

### Measures of Performance

Yields are obtained from the South Dakota Crop Performance

Testing Program. Two-year and current yield averages are included where hybrids have been tested for the most recent two-year period.

**Yield.** Yield values are an average of three replications and are expressed as bushels per acre, adjusted to 15.5% moisture on a dry-matter basis and a bushel weight of 56 pounds. Statistical tests were conducted to determine whether differences obtained were caused by variations in environment or were true hybrid differences. In 2012, the coefficient of variation (CV) values (a measure of experimental error) for yield was quite variable, ranging from a low of 4% in both trials at Bath to a high of 12% and 15% for the early and late trials, respectively, at Geddes. Experimental error may be the result of several factors, including test methods, or factors such as moisture, temperature, soil variations, or agronomic factors like seeding date, reseeding, or seed quality factors—all of which may or may not be controllable in a given year. Clearly, this year, drought

and variable seasonal moisture distribution and/or subsoil moisture conditions, along with above-average temperatures, combined to produce highly variable yields across our South Dakota corn growing regions. The top yield averages occurred at Bath and Bancroft, whereas, the plot grain yields were so low at Beresford the harvest equipment could not determine valid harvest yields.

### Grain moisture content.

Moisture content is expressed as the percentage of moisture in the shelled corn at harvest. Hybrids that are above average in yield and can be stored without additional drying are desirable. At harvest, moisture values were determined by the combine moisture meter, which in turn was periodically verified with a Dickey-John GAC II meter.

**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 significant yield difference. LSD values are given at the bottom of every column where there is significant difference among the averages within the column. If differences among the averages within a column are not significant, the LSD value is reported as "nonsignificant" (NS). The top performance group (TPG) for the performance factors yield (bu/a), bushel weight in (lbs.), harvest

grain moisture (%), lodging below the ear (%), and final stand (%) are indicated in the performance tables by the shaded data values. Evaluate the performance of each hybrid (row) by moving across the table and observing if any of the reported performance values are shaded. The more shaded performance values in each row, the better the hybrid did as a top-performing hybrid for a given test trial.

## Performance Trial Results

**Note:** Evaluate the performance of each hybrid (row) by moving across the table and observing if any of the reported performance values are shaded. The more shaded performance values there are in each row the better the hybrid did as a top-performing hybrid for a given test trial.

No.	Explanation of references
[1]	Entries are listed by Brand/Variety- Entries are sorted by 2-yr then by 2012 yield average.
[2]	Technology traits: Agr. = Agrisure; SmartStax or GenSSX= DowAgrosciences (DAS) or Monsanto Genuity (Gen), respectively; HX1, HXX = Herculex by DAS & Pioneer Hi-Bred, Opt. = Optimum AcreMax1 or Optimum AcreMaxXtra by Pioneer Hi-Bred, YG = Monsanto YieldGard.
[3]	Seed treatments: P/V500 = Poncho/Votivo 500, P/V1250 = Poncho/Votivo1250; CM250 = Cruiser Maxx250, CM1250 = Cruiser Max1250; MHL = Maxim XL, MQ = Maxim Quattro; PPST250 = Pioneer Premium Seed Treatment.
[4]	Brand Relative Maturity (Rel. Mat.)- the relative maturity rating reported by the test trial entrant.
[5]	Lodging Percentage- stalks broken below the ear as a percentage of the final stand; look for low values.
[6]	Final Stand Percentage - the number of standing stalks at harvest as a percentage of the seeding population.
[7]	Least Significant Difference (LSD 0.05) - the difference any two values within a column must be equal to or exceed for the values to be significantly different (0.05 level of probability). If the difference is less than the LSD value the difference between them is nonsignificant (NS).
[8]	Min. TPG-avg.- the minimum column value for yield, bushel weight, and final stand percentage that a hybrid must equal or exceed to be in the top performance group (TPG).
[9]	Max. TPG-avg.- the maximum column value for grain moisture at harvest, lodging percentage, or lodging score that a hybrid must equal or be less than to be in the TPG.
[10]	Coefficient of variation (C.V.)- the percent of experimental error associated with a test trial. Ideally, the CV value for yield is less than 15%. Values less than 5% are less common ; while values of 6-15% are more common. If a value exceeds 15%; the trial had too much error to be valid, so the results are not reported.



Table 1. Volga early maturity Roundup Ready corn hybrid test results, 2011-12, Plant Science Research Farm

Brand/Hybrid [1] + Tech. Trait [2] + Seed Trt. [3]	Rel. Mat. [4]	Yield Averages *,#		Other 2012 Averages##			
		2-Yr bu/a	2012 bu/a	Bu. Wt. lb	Grain Moisture %	Ldg. % [5]	Final Stand % [6]
HOEGEMEYER/ HPT 7042 + OptAMX + CM250	100	186	157	58	13	0	83
DEKALB/ DKC50-66 + YGVTRWRR2 + P/V500	100	185	162	58	12	0	96
CHANNEL/ 197-67VT3P + GenVT3P + P/V500	97	184	161	60	14	2	91
WENSMAN/ W 7290VT3PRO + GenVT3P + Acceleron	99	182	154	58	14	3	92
HOEGEMEYER/ 6838 3000GT + Agr3000GT + CM250	98	182	145	58	12	6	92
HOEGEMEYER/ 6200 GTCBLL + AgrGT/CB/LL + CM250	92	181	141	58	13	0	76
NUTECH/ 5N-001 + Agr3000GT + MQ	100	176	138	57	13	2	82
SEEDS 2000/ 9902 VP3111 + GenVT2P + Acceleron	98	175	132	58	12	14	88
DEKALB/ DKC48-12 + GenSSX + P/V500	98	169	132	57	13	0	97
RENK/ RK585VT3P + GenVT3P + Acceleron	95	.	162	59	12	0	95
PIONEER/ P9834HR + HX1RR2 + PPST250	98	.	160	57	14	0	89
G2 GEN./ 5X-0004 + HXXRR2 + P/V1250	100	.	159	55	12	0	84
PIONEER/ P0062XR + HXXRR2 + PPST250	100	.	151	57	13	1	84
DEKALB/ DKC46-20 + GenVT3P + P/V500	96	.	150	59	15	0	97
DEKALB/ DKC49-30 + GenVT3P + P/V500	99	.	150	59	13	0	98
G2 GEN./ 5Z-198 + OptAMX + P/V1250	98	.	144	57	12	0	80
DEKALB/ DKC43-48 + GenVT3P + P/V500	93	.	141	58	13	0	95
WENSMAN/ W 7268VT3 + YGVTRWRR2 + Acceleron	96	.	141	58	12	5	94
EPLEY/ E9505RR + RR2 + MQ	95	.	138	59	12	2	93
RENK/ RK576VT3P + GenVT3P + Acceleron	97	.	137	58	11	0	93
MASTERS CHOICE/ MCT-4563 + Agr3000GT + CM250+MXL	96	.	134	58	12	1	51
CHANNEL/ 196-76VT3P + GenVT3P + P/V500	96	.	134	60	14	0	92
PIONEER/ P9917AM1 + OptAM1 + PPST250	99	.	130	59	14	1	88
DEKALB/ DKC43-10 + GenVT2P + P/V500	93	.	127	58	12	0	90
WENSMAN/ W 9288VT3PRO + GenVT3P + Acceleron	98	.	124	60	14	0	92
RENK/ RK578VT3P + GenVT3P + Acceleron	96	.	123	58	13	0	89
Trial avg.:	97	180	143	58	13	1	88
High avg.:	100	186	162	60	15	14	98
Low avg.:	92	169	123	55	11	0	51
[7] LSD(.05):		NS**	21	1	2	2	6
[8] Min.TPG value:		169	141	59	.	.	92
[9] Max.TPG value:		.	.	.	12	2	.
[10] Coef. of var.:		5	9	1	11	98	4
No. entries:	26	9	26	26	26	26	26

NOTE: Table references [1-10] are explained in table B.  
 \* Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2012 yield average.  
 # Adjusted to 15.5% moisture.  
 \*\* NS indicates differences between column values are nonsignificant.  
 ## Shaded column values are included in the top-performance group (TPG).

Table 2. Volga late maturity Roundup Ready corn hybrid test results, 2011-12, Plant Science Research Farm.

Brand/Hybrid [1] + Tech. Trait [2] + Seed Trt. [3]	Rel. Mat. [4]	Yield Averages *,#		Other 2012 Averages##			
		2-Yr bu/a	2012 bu/a	Bu. Wt. lb	Grain Moisture %	Ldg. % [5]	Final Stand % [6]
PIONEER/ 36V53 + HX1RR2 + PPST250	102	188	163	57	12	0	91
PIONEER/ P0533AM1 + OptAM1 + PPST250	105	187	147	58	13	0	81
EPLEY/ E1418GT3000 + Agr3000GT + CM250	104	178	142	58	15	1	86
G2 GEN./ 5X-903 + HXXRR2 + MQ	103	177	144	58	15	0	84
WENSMAN/ W 7320VT3PRO + GenVT3P + Acceleron	101	175	144	59	14	0	91
CHANNEL/ 203-43VT3P + GenVT3P + P/V500	103	172	132	58	16	0	92
DAIRYLAND/ DS9303SSX + DAS Smart Stax + Activa Compl.	103	171	137	58	13	0	89
G2 GEN./ 5H-806 + HX1RR2 + MQ	107	164	126	58	15	5	91
DEKALB/ DKC52-61 + GenVT2P + P/V500	102	.	161	58	12	0	94
PIONEER/ P0193HR + HX1RR2 + PPST250	101	.	154	56	12	0	84
NUTECH/ 5B-604 + AgrGT/CB/LL + MQ	104	.	152	56	12	0	86
NUTECH/ 5N-0103 + Agr3000GT + CM250	101	.	149	57	12	1	87
RENK/ RK635VT3P + GenVT3P + Acceleron	102	.	149	57	13	0	91
DEKALB/ DKC52-04 + GenVT3P + P/V500	102	.	148	58	14	0	83
PIONEER/ P0876HR + HX1RR2 + PPST250	108	.	148	59	16	1	87
NUTECH/ 5N-907 + Agr3000GT + CM250	110	.	148	56	13	1	86
G2 GEN./ 5Z-802 + OptAMX + P/V1250	102	.	147	57	14	0	76
G2 GEN./ 5H-0504 + HX1RR2 + P/V1250	105	.	147	57	14	0	89
DAIRYLAND/ DS9501SSX + DAS Smart Stax + Activa Compl.	101	.	146	58	12	0	92
WENSMAN/ W 9325VT3PRO + GenVT3P + Acceleron	102	.	146	60	13	1	87
DAIRYLAND/ DS6903 + RR2 + CM250	103	.	145	60	15	5	86
SEEDS 2000/ 3011 G3 + Agr3000GT + Acceleron	101	.	143	56	13	1	85
DAIRYLAND/ DS6604 + RR2 + CM250	104	.	141	58	12	1	86
G2 GEN./ 5H-202 + HX1RR2 + P/V1250	102	.	138	58	15	12	95
WENSMAN/ W 7330VT3 + GenVT3P + Acceleron	103	.	136	60	14	0	88
CHANNEL/ 202-25VT3P + GenVT3P + P/V500	102	.	135	60	12	0	90
G2 GEN./ 5H-502 + HX1RR2 + MQ	102	.	130	58	15	0	76
RENK/ RK708SSTX + GenSSX + Acceleron	105	.	128	59	15	1	89
DAIRYLAND/ DS9402SSX + Smart Stax + Activa Compl.	102	.	123	59	13	0	76
Trial avg.:	103	177	143	58	14	1	87
High avg.:	110	188	163	60	16	12	95
Low avg.:	101	164	123	56	12	0	76
[7] LSD(.05):		17	21	1	2	4	5
[8] Min.TPG value:		171	142	59	.	.	90
[9] Max.TPG value:		.	.	.	14	4	.
[10] Coef. of var.:		5	9	1	9	187	3
No. entries:	29	8	29	29	29	29	29

NOTE: Table references [1-10] are explained in table B.  
 \* Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2012 yield average.  
 # Adjusted to 15.5% moisture.  
 \*\* NS indicates differences between column values are nonsignificant.  
 ## Shaded column values are included in the top-performance group (TPG).

**Early maturity trial, Table 1.**

The test-trial yield averages were **180 bu/a** for two years and **143 bu/a** in 2012. Hybrids with yield averages of **169 bu/a** or more for two years and **141 bu/a** or more for 2012 qualified for the TPG. There were no differences in yield average among the hybrids tested two years, so all qualified for the TPG. In 2012, bushel weights averaged **58 lbs.**, grain moisture averaged **13%**, lodging percentage averaged **1%**, and final stand percentage averaged **88%**. In order for hybrids to be in the TPG for these factors, they had to average **59 lbs.** or more in bushel weight, **12%** or less in grain moisture, **2%** or less in lodging

percentage, and **92%** or more for final stand percentage. In order for a hybrid variable to differ from one hybrid compared to another, their difference had to equal **21 bu/a** or more for yield in 2012, **1 lb.** or more in bushel weight, **2%** or less in grain moisture, **2%** or less in lodging percentage and **6%** or more in the final stand percentage.

**Late maturity trial, Table 2.** The test-trial yield averages were **177 bu/a** for two years and **143 bu/a** in 2012. Hybrids that yielded **171 bu/a** or more for two years and **142 bu/a** in 2012 qualified for the TPG. In 2012, bushel weights averaged **58 lbs.**, grain moisture

averaged **14%**, lodging averaged **1%**, and percent final stand averaged **87%**. In order for hybrids to be in the TPG for these factors, they had to average **59 lbs.** or more in bushel weight, **14%** or less in grain moisture, **4%** or less in lodging percentage, and **90%** or more for final stand percentage. In order for a hybrid variable to differ from one hybrid compared to another, their difference had to equal **17 bu/a** or more for two years and **21 bu/a** or more for yield in 2012; and **1 lb.** or more in bushel weight, **2%** or less in grain moisture, **4%** or less in lodging percentage and **5%** or more in the final stand percentage in 2012.

Table C. Mailing addresses for seed entries in the 2012 corn hybrid trials and listed by seed brand name

Seed brand	Seed company mailing address
Channel	Channelbio Corp., Box 277, Laurel, NE 68745
Dairyland	PO Box 958, West Bend, WI 53095
Dekalb	46040 SD Hwy 44, Chancellor, SD 57015
Epley Bros.	Epley Bros. Hybrids Inc., 22494 Yale Ave., Shell Rock, IA 50670
G-2 Genetics	G-2 Genetics, 2321 North Loop Drive, Suite 230, Ames, IA 50010
Hoegemeyer	Hoegemeyer Hybrids, 1755 Hoegemeyer Road, Hooper, NE 68031
Masters Choice	3010 St. Rt. 146 E, Anna, IL 62906
NuTech	Nutech Seed, LLC, 2321 North Loop Drive, Suite 230, Ames, IA 50010
Petersen Farms	3104 164th Ave. SE, Harwood, ND 58042
Pioneer	Pioneer Hi-Bred International, 151 Saint Andrews Court-Suite 910, Mankato, MN 56001
ProSeed	705 E. Brewster, Harvey, ND 58341
Renk	6809 Wilburn Road, Sun Prairie, WI 53590
Seeds 2000	Seeds 2000, 115 N 3rd St., Breckenridge, MN 56520
Wensman	Wensman Seed Co., PO Box 190, Wadena, MN 56482



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**Corn production is greatly affected by hybrid selection.**

This publication reports the agronomic performance of entries in the 2012 South Dakota performance trials for glyphosate-resistant field corn hybrids.

**Major factors in hybrid selection include:**

- Yield
- Maturity
- Lodging resistance
- Seed traits

## Corn Hybrid Performance Trials Results - South Shore

Robert G. Hall | SDSU Extension Agronomist  
Kevin K. Kirby | Agricultural Research Manager  
Shawn Hawks | Agricultural Research Manager



These performance trials are conducted by the South Dakota Crop Performance Testing program at South Dakota State University. Corn test trial information is listed in table A, performance table footnote references including technology traits and seed treatments are listed in Table B. Mailing addresses for seed company entrants that participated in the 2012 test trials are listed in table C.

### General Test Procedures

Seed companies pick one or more of the six test locations where their entries are tested. Entries are placed into "early" or "late" maturity trials. The relative maturity breaks between the early and late tests are 95 days for Bath and South Shore, 100 days for Bancroft and Volga, 105 days for Geddes, and 110 days for Beresford. Hybrids are assigned to trials based on the relative maturity rating reported by the participating seed company. In 2012, results from only five of the test locations are reported. Information from Beresford is not reported because the severe drought at that location prevented the collection of valid data.

Table A. General test information for 2012.	
Location:	Glyphosate resistant corn trial results, South Shore, SD
Cooperator:	Northeast Research Farm - South Shore, Al Heuer and staff
Soil Type:	Kransburg silty clay loam, 0-6% slope
Tillage:	Conventional
Fertility-Yield Goal:	200 bushel
Previous Crop:	Spring wheat (stubble)
Row Space:	30 inches
Seeding Population:	30,000/acre
Weed Control:	Pre: 1 quart Dual 2, Post: 1 quart Roundup
Insect Control:	None
Disease Control:	None
Date Seeded:	May 2, 2012

**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, with the center two rows harvested for yield. A Monosem precision row crop planter was used for seeding plots at all locations. In 2012, the precision planter was calibrated to deliver 29,621 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, pest control, 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 pounds/acre of 37-18-00 was applied 2" below and 2" to the side (2 x 2) of the seed row.

**Measures of Performance**

Yields are obtained from the South Dakota Crop Performance

Testing Program. Two-year and current yield averages are included where hybrids have been tested for the most recent two-year period.

**Yield.** Yield values are an average of three replications and are expressed as bushels per acre, adjusted to 15.5% moisture on a dry-matter basis and a bushel weight of 56 pounds. Statistical tests were conducted to determine whether differences obtained were caused by variations in environment or were true hybrid differences. In 2012, the coefficient of variation (CV) values (a measure of experimental error) for yield was quite variable, ranging from a low of 4% in both trials at Bath to a high of 12% and 15% for the early and late trials, respectively, at Geddes. Experimental error may be the result of several factors, including test methods, or factors such as moisture, temperature, soil variations, or agronomic factors like seeding date, reseeding, or seed quality factors—all of which may or may not be controllable in a given year. Clearly, this year, drought

and variable seasonal moisture distribution and/or subsoil moisture conditions, along with above-average temperatures, combined to produce highly variable yields across our South Dakota corn growing regions. The top yield averages occurred at Bath and Bancroft, whereas, the plot grain yields were so low at Beresford the harvest equipment could not determine valid harvest yields.

**Grain moisture content.**

Moisture content is expressed as the percentage of moisture in the shelled corn at harvest. Hybrids that are above average in yield and can be stored without additional drying are desirable. At harvest, moisture values were determined by the combine moisture meter, which in turn was periodically verified with a Dickey-John GAC II meter.

**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 significant yield difference. LSD values are given at the bottom of every column where there is significant difference among the averages within the column. If differences among the averages within a column are not significant, the LSD value is reported as “nonsignificant” (NS). The top performance group (TPG) for the performance factors yield (bu/a), bushel weight in (lbs.), harvest

grain moisture (%), lodging below the ear (%), and final stand (%) are indicated in the performance tables by the shaded data values. Evaluate the performance of each hybrid (row) by moving across the table and observing if any of the reported performance values are shaded. The more shaded performance values in each row, the better the hybrid did as a top-performing hybrid for a given test trial.

## Performance Trial Results

**Note:** Evaluate the performance of each hybrid (row) by moving across the table and observing if any of the reported performance values are shaded. The more shaded performance values there are in each row the better the hybrid did as a top-performing hybrid for a given test trial.

Table B. Explanation of performance table references.	
No.	Explanation of references
[1]	Entries are listed by Brand/Variety– Entries are sorted by 2-yr then by 2012 yield average.
[2]	Technology traits: Agr. = Agrisure; SmartStax or GenSSX= DowAgrosciences (DAS) or Monsanto Genuity (Gen), respectively; HX1, HXX = Herculex by DAS & Pioneer Hi-Bred, Opt. = Optimum AcreMax1 or Optimum AcreMaxXtra by Pioneer Hi-Bred, YG = Monsanto YieldGard.
[3]	Seed treatments: P/V500 = Poncho/Votivo 500, P/V1250 = Poncho/Votivo1250; CM250 = Cruiser Maxx250, CM1250 = Cruiser Max1250; MHL = Maxim XL, MQ = Maxim Quattro; PPST250 = Pioneer Premium Seed Treatment.
[4]	Brand Relative Maturity (Rel. Mat.)– the relative maturity rating reported by the test trial entrant.
[5]	Lodging Percentage– stalks broken below the ear as a percentage of the final stand; look for low values.
[6]	Final Stand Percentage – the number of standing stalks at harvest as a percentage of the seeding population.
[7]	Least Significant Difference (LSD 0.05) – the difference any two values within a column must be equal to or exceed for the values to be significantly different (0.05 level of probability). If the difference is less than the LSD value the difference between them is nonsignificant (NS).
[8]	Min. TPG-avg.– the minimum column value for yield, bushel weight, and final stand percentage that a hybrid must equal or exceed to be in the top performance group (TPG).
[9]	Max. TPG-avg.– the maximum column value for grain moisture at harvest, lodging percentage, or lodging score that a hybrid must equal or be less than to be in the TPG.
[10]	Coefficient of variation (C.V.)– the percent of experimental error associated with a test trial. Ideally, the CV value for yield is less than 15%. Values less than 5% are less common ; while values of 6-15% are more common. If a value exceeds 15%; the trial had too much error to be valid, so the results are not reported.

Table 1. South Shore early maturity Roundup Ready corn hybrid test results, 2011-12, Northeast Research Farm.

Brand/Hybrid [1] + Tech. Trait [2] + Seed Trt. [3]	Rel. Mat. [4]	Yield Averages *,#		Other 2012 Averages##			
		2-Yr bu/a	2012 bu/a	Bu. Wt. lb	Grain Moisture %	Ldg. % [5]	Final Stand % [6]
SEEDS 2000/ 2903 GTCBLL + AgrGT/CB/LL + Acceleron	90	165	177	57	11	0	81
SEEDS 2000/ 9504 VT3P + GenVT3P + Acceleron	95	165	175	58	11	0	89
PETERSON FARMS/ PFS76R92 + GenVT2P + Acceleron	92	164	160	57	11	0	90
RENK/ RK585VT3P + GenVT3P + Acceleron	95	159	156	57	11	0	93
DAIRYLAND/ DS9992 + YGVTRWRR2 + CM250	92	159	148	58	11	0	84
SEEDS 2000/ 9202 VT2P + OptAMX + MQ	92	157	148	56	11	1	89
PIONEER/ 38H08 + HX1RR2 + PPST250	92	155	138	56	11	0	85
G2 GEN./ 5X-795 + HXXRR2 + MQ	95	154	149	56	11	0	87
WENSMAN/ W 7140VT3PRO + GenVT3P + Acceleron	93	152	161	60	11	0	91
SEEDS 2000/ 9503 VT2P + GenVT2P + Acceleron	95	147	144	58	11	0	89
NUTECH/ 5B-9102 + LL + CM250	90	145	141	55	10	1	85
RENK/ RK568VT3P + GenVT3P + Acceleron	95	.	173	59	12	1	92
DEKALB/ DKC43-10 + GenVT2P + P/V500	93	.	165	56	11	0	92
G2 GEN./ 5X-9402 + HXXRR2 + P/V1250	94	.	161	57	11	0	90
EPLEY/ E9505RR + RR2 + MQ	95	.	156	59	12	0	93
PROSEED/ 1295SS + LL + Acceleron	95	.	153	58	12	0	80
RENK/ RK434VT3P + GenVT3P + Acceleron	92	.	152	57	11	0	80
G2 GEN./ 5X-193 + HXXRR2 + P/V1250	93	.	151	56	11	1	93
RENK/ RK492VT3P + GenVT3P + Acceleron	93	.	150	56	11	2	85
CHANNEL/ 192-09VT3P + GenVT3P + P/V500	92	.	150	56	11	0	94
PETERSON FARMS/ PFS76Z95 + GenVT2P + Acceleron	95	.	149	58	11	0	83
DAIRYLAND/ DS9487SSX + DAS Smart Stax + Activa Compl.	87	.	146	55	11	0	82
DEKALB/ DKC43-48 + GenVT3P + P/V500	93	.	140	57	11	3	91
DAIRYLAND/ DS9291SSX + DAS Smart Stax + CM250	91	.	139	57	11	0	82
PETERSON FARMS/ PFS75T93 + GenVT2P + Acceleron	93	.	135	59	12	0	76
PIONEER/ P8906HR + HX1RR2 + PPST250	89	.	135	58	11	0	87
PROSEED/ D99031116 + LL + CM250+MQ	90	.	132	58	11	0	72
PROSEED/ 1292VT2P + LL + Acceleron	92	.	129	57	11	0	85
Trial avg.:	93	157	150	57	11	0	86
High avg.:	95	165	177	60	12	3	94
Low avg.:	87	145	129	55	10	0	72
[7] LSD(.05):		NS**	28	1	1	1	5
[8] Min.TPG value:		145	149	59	.	.	89
[9] Max.TPG value:		.	.	.	11	1	.
[10] Coef. of var.:		8	11	1	4	248	4
No. entries:	28	11	28	28	28	28	28

NOTE: Table references [1-10] are explained in table B.

\* Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2012 yield average.

# Adjusted to 15.5% moisture.

\*\* NS indicates differences between column values are nonsignificant.

## Shaded column values are included in the top-performance group (TPG).

Table 2. South Shore late maturity Roundup Ready corn hybrid test results, 2011-12, Northeast Research Farm.

Brand/Hybrid [1] + Tech. Trait [2] + Seed Trt. [3]	Rel. Mat. [4]	Yield Averages *, #		Other 2012 Averages##			
		2-Yr bu/a	2012 bu/a	Bu. Wt. lb	Grain Moisture %	Ldg. % [5]	Final Stand % [6]
CHANNEL/ 196-06VT3P + GenVT3P + P/V500	96	164	164	57	11	0	89
DEKALB/ DKC48-12 + GenSSX + P/V500	98	163	168	55	11	0	87
WENSMAN/ W 7268VT3 + YGVTRWRR2 + Acceleron	96	161	153	56	11	0	90
DEKALB/ DKC50-66 + YGVTRWRR2 + P/V500	100	149	141	57	11	0	93
RENK/ RK580SSTX + GenSSX + Acceleron	98	147	136	58	12	0	73
SEEDS 2000/ 9902 VP3111 + GenVT2P + Acceleron	98	140	136	56	12	3	74
NUTECH/ 5N-001 + Agr3000GT + MQ	100	134	138	53	11	0	72
WENSMAN/ W 9288VT3PRO + GenVT3P + Acceleron	98	.	158	57	12	0	86
WENSMAN/ W 7290VT3PRO + GenVT3P + Acceleron	99	.	156	57	12	1	93
PIONEER/ P9834HR + HX1RR2 + PPST250	98	.	155	55	12	0	83
G2 GEN./ 5X-0004 + HXXRR2 + P/V1250	100	.	155	55	13	0	86
PIONEER/ P9675AMX + OptAMX + PPST250	96	.	154	57	12	1	80
DEKALB/ DKC49-30 + GenVT3P + P/V500	99	.	153	58	12	0	87
G2 GEN./ 5H-502 + HX1RR2 + MQ	102	.	152	57	12	1	76
PIONEER/ P0062XR + HXXRR2 + PPST250	100	.	151	56	12	1	83
PIONEER/ P9917AM1 + OptAM1 + PPST250	99	.	150	58	12	0	85
WENSMAN/ W 7320VT3PRO + GenVT3P + Acceleron	101	.	147	58	12	0	82
DAIRYLAND/ DS9501SSX + DAS Smart Stax + Activa Compl.	101	.	145	57	11	0	89
NUTECH/ 5N-0103 + Agr3000GT + CM250	101	.	143	54	12	1	78
RENK/ RK578VT3P + GenVT3P + Acceleron	96	.	139	57	12	0	85
SEEDS 2000/ 3011 G3 + Agr3000GT + Acceleron	101	.	137	54	11	0	79
DEKALB/ DKC46-20 + GenVT3P + P/V500	96	.	135	58	12	0	92
G2 GEN./ 5X-895 + HXXRR2 + MQ	97	.	133	57	11	0	80
RENK/ RK576VT3P + GenVT3P + Acceleron	97	.	126	57	11	2	90
G2 GEN./ 5Z-198 + OptAMX + P/V1250	98	.	123	54	11	0	80
NUTECH/ 5B-798 + AgrGT/CB/LL + CM250	98	.	118	58	13	0	77
Trial avg.:	99	151	145	56	12	0	83
High avg.:	102	164	168	58	13	3	93
Low avg.:	96	134	118	53	11	0	72
[7] LSD(.05):		22	22	1	1	1	4
[8] Min.TPG value:		142	146	57	.	.	89
[9] Max.TPG value:		.	.	.	12	1	.
[10] Coef. of var.:		8	9	1	5	200	3
No. entries:	26	7	26	26	26	26	26

NOTE: Table references [1-10] are explained in table B.

\* Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2012 yield average.

# Adjusted to 15.5% moisture.

\*\* NS indicates differences between column values are nonsignificant.

## Shaded column values are included in the top-performance group (TPG).



**Early maturity trial, Table 1.**

The test-trial yield averages were **157 bu/a** for two years and **150 bu/a** in 2012. The yield average differences among the hybrids tested for two years were nonsignificant (NS). Hybrids with yield averages of **149 bu/a** or more for 2012 qualified for the TPG. In 2012, bushel weights averaged **57 lbs.**, grain moisture averaged **11%**, lodging averaged zero, and final stand percentage averaged **86%**. In order for hybrids to be in the TPG for these factors, they had to average **59 lbs.** or more in bushel weight, **11%** or less in grain moisture, **1%** in lodging percentage, and **89%** or higher in final stand percentage.

In order for a hybrid variable to differ from one hybrid compared to another, their difference had to equal **28 bu/a** or more for yield in 2012, **1 lb.** or more in bushel weight, **1%** or less in grain moisture, **1%** or less in lodging percentage and **5%** or more in the final stand percentage.

**Late maturity trial, Table 2.**

The test-trial yield averages were **151 bu/a** for two years and **145 bu/a** in 2012. Hybrids with yield averages of **142 bu/a** or more for two years and **146 bu/a** for 2012 qualified for the TPG. In 2012, bushel weights averaged **56 lbs.**, grain moisture averaged **12%**, lodging averaged zero, and

final stand percentage averaged **83%**. In order for hybrids to be in the TPG for these factors, they had to average **57 lbs.** or more in bushel weight, **12%** or less in grain moisture, and **1%** or more in lodging percentage, and **89%** or more in final stand percentage. In order for a hybrid variable to differ from one hybrid compared to another, their difference had to equal **22 bu/a** or more for both two years and for the 2012 yield average; and **1 lb.** or more in bushel weight, **1%** or less in grain moisture, **1%** or less in lodging percentage and **4%** or more in the final stand percentage in 2012.

Table C. Mailing addresses for seed entries in the 2012 corn hybrid trials and listed by seed brand name	
Seed brand	Seed company mailing address
Channel	Channelbio Corp., Box 277, Laurel, NE 68745
Dairyland	PO Box 958, West Bend, WI 53095
Dekalb	46040 SD Hwy 44, Chancellor, SD 57015
Epley Bros.	Epley Bros. Hybrids Inc., 22494 Yale Ave., Shell Rock, IA 50670
G-2 Genetics	G-2 Genetics, 2321 North Loop Drive, Suite 230, Ames, IA 50010
Hoegemeyer	Hoegemeyer Hybrids, 1755 Hoegemeyer Road, Hooper, NE 68031
Masters Choice	3010 St. Rt. 146 E, Anna, IL 62906
NuTech	Nutech Seed, LLC, 2321 North Loop Drive, Suite 230, Ames, IA 50010
Petersen Farms	3104 164th Ave. SE, Harwood, ND 58042
Pioneer	Pioneer Hi-Bred International, 151 Saint Andrews Court-Suite 910, Mankato, MN 56001
ProSeed	705 E. Brewster, Harvey, ND 58341
Renk	6809 Wilburn Road, Sun Prairie, WI 53590
Seeds 2000	Seeds 2000, 115 N 3rd St., Breckenridge, MN 56520
Wensman	Wensman Seed Co., PO Box 190, Wadena, MN 56482



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**OCTOBER 2012**

**SDSU EXTENSION**

**Corn production is greatly affected by hybrid selection.**

This publication reports the agronomic performance of entries in the 2012 South Dakota performance trials for glyphosate-resistant field corn hybrids.

**Major factors in hybrid selection include:**

- Yield
- Maturity
- Lodging resistance
- Seed traits

## Corn Hybrid Performance Trials Results - Geddes

Robert G. Hall | SDSU Extension Agronomist  
Kevin K. Kirby | Agricultural Research Manager  
Shawn Hawks | Agricultural Research Manager



These performance trials are conducted by the South Dakota Crop Performance Testing program at South Dakota State University. Corn test trial information is listed in table A, performance table footnote references including technology traits and seed treatments are listed in Table B. Mailing addresses for seed company entrants that participated in the 2012 test trials are listed in table C.

### General Test Procedures

Seed companies pick one or more of the six test locations where their entries are tested. Entries are placed into "early" or "late" maturity trials. The relative maturity breaks between the early and late tests are 95 days for Bath and South Shore, 100 days for Bancroft and Volga, 105 days for Geddes, and 110 days for Beresford. Hybrids are assigned to trials based on the relative maturity rating reported by the participating seed company. In 2012, results from only five of the test locations are reported. Information from Beresford is not reported because the severe drought at that location prevented the collection of valid data.

Table A. General test trial information for 2012.	
Location:	Glyphosate resistant corn trial results, Geddes, SD
Cooperator:	Curtis Sybesma Farm - Geddes
Soil Type:	Highmore-Walke silt loam, 0-2% slope
Tillage:	No-till
Fertility-Yield Goal:	200 bushel
Previous Crop:	Winter Wheat stubble (No Till)
Row Space:	30 inches
Seeding Population:	30,000/acre
Weed Control:	Pre: Harness Xtra, Post: 22 ounces Power Max
Insect Control:	None
Disease Control:	None
Date Seeded:	May 8, 2012

### 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, with the center two rows harvested for yield. A Monosem precision row crop planter was used for seeding plots at all locations. In 2012, the precision planter was calibrated to deliver 29,621 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, pest control, 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 pounds/acre of 37-18-00 was applied 2" below and 2" to the side (2 x 2) of the seed row.

### Measures of Performance

Yields are obtained from the South Dakota Crop Performance

Testing Program. Two-year and current yield averages are included where hybrids have been tested for the most recent two-year period.

**Yield.** Yield values are an average of three replications and are expressed as bushels per acre, adjusted to 15.5% moisture on a dry-matter basis and a bushel weight of 56 pounds. Statistical tests were conducted to determine whether differences obtained were caused by variations in environment or were true hybrid differences. In 2012, the coefficient of variation (CV) values (a measure of experimental error) for yield was quite variable, ranging from a low of 4% in both trials at Bath to a high of 12% and 15% for the early and late trials, respectively, at Geddes. Experimental error may be the result of several factors, including test methods, or factors such as moisture, temperature, soil variations, or agronomic factors like seeding date, reseeding, or seed quality factors—all of which may or may not be controllable in a given year. Clearly, this year, drought

and variable seasonal moisture distribution and/or subsoil moisture conditions, along with above-average temperatures, combined to produce highly variable yields across our South Dakota corn growing regions. The top yield averages occurred at Bath and Bancroft, whereas, the plot grain yields were so low at Beresford the harvest equipment could not determine valid harvest yields.

### Grain moisture content.

Moisture content is expressed as the percentage of moisture in the shelled corn at harvest. Hybrids that are above average in yield and can be stored without additional drying are desirable. At harvest, moisture values were determined by the combine moisture meter, which in turn was periodically verified with a Dickey-John GAC II meter.

**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 significant yield difference. LSD values are given at the bottom of every column where there is significant difference among the averages within the column. If differences among the averages within a column are not significant, the LSD value is reported as “nonsignificant” (NS). The top performance group (TPG) for the performance factors yield (bu/a), bushel weight in (lbs.), harvest

grain moisture (%), lodging below the ear (%), and final stand (%) are indicated in the performance tables by the shaded data values. Evaluate the performance of each hybrid (row) by moving across the table and observing if any of the reported performance values are shaded. The more shaded performance values in each row, the better the hybrid did as a top-performing hybrid for a given test trial.

## Performance Trial Results

**Note:** Evaluate the performance of each hybrid (row) by moving across the table and observing if any of the reported performance values are shaded. The more shaded performance values there are in each row the better the hybrid did as a top-performing hybrid for a given test trial.

Table B. Explanation of performance table references.	
No.	Explanation of references
[1]	Entries are listed by Brand/Variety– Entries are sorted by 2-yr then by 2012 yield average.
[2]	Technology traits: Agr. = Agrisure; SmartStax or GenSSX= DowAgrosciences (DAS) or Monsanto Genuity (Gen), respectively; HX1, HXX = Herculex by DAS & Pioneer Hi-Bred, Opt. = Optimum AcreMax1 or Optimum AcreMaxXtra by Pioneer Hi-Bred, YG = Monsanto YieldGard.
[3]	Seed treatments: P/V500 = Poncho/Votivo 500, P/V1250 = Poncho/Votivo1250; CM250 = Cruiser Maxx250, CM1250 = Cruiser Max1250; MHL = Maxim XL, MQ = Maxim Quattro; PPST250 = Pioneer Premium Seed Treatment.
[4]	Brand Relative Maturity (Rel. Mat.)– the relative maturity rating reported by the test trial entrant.
[5]	Lodging Percentage– stalks broken below the ear as a percentage of the final stand; look for low values.
[6]	Final Stand Percentage – the number of standing stalks at harvest as a percentage of the seeding population.
[7]	Least Significant Difference (LSD 0.05) – the difference any two values within a column must be equal to or exceed for the values to be significantly different (0.05 level of probability). If the difference is less than the LSD value the difference between them is nonsignificant (NS).
[8]	Min. TPG-avg.– the minimum column value for yield, bushel weight, and final stand percentage that a hybrid must equal or exceed to be in the top performance group (TPG).
[9]	Max. TPG-avg.– the maximum column value for grain moisture at harvest, lodging percentage, or lodging score that a hybrid must equal or be less than to be in the TPG.
[10]	Coefficient of variation (C.V.)– the percent of experimental error associated with a test trial. Ideally, the CV value for yield is less than 15%. Values less than 5% are less common ; while values of 6-15% are more common. If a value exceeds 15%; the trial had too much error to be valid, so the results are not reported.

Table 1. Geddes early maturity Roundup Ready corn hybrid test results, 2011-12, Curtis Sybesma Farm.

Brand/Hybrid [1] + Tech. Trait [2] + Seed Trt. [3]	Rel. Mat. [4]	Yield Averages *,#		Other 2012 Averages##			
		2-Yr bu/a	2012 bu/a	Bu. Wt. lb	Grain Moisture %	Ldg. % [5]	Final Stand % [6]
PIONEER/ P0533XR + OptAM1 + PPST250	105	145	132	59	17	0	92
DEKALB/ DKC48-12 + GenSSX + P/V500	98	129	114	59	12	0	92
WENSMAN/ W 7320VT3PRO + GenVT3P + Acceleron	101	118	79	60	16	1	87
EPLEY/ E1418GT3000 + Agr3000GT + CM250	104	115	97	58	15	2	88
PIONEER/ 36V53 + HX1RR2 + PPST250	102	111	81	56	15	0	88
G2/ GEN. 5X-903 + HXXRR2 + MQ	103	93	89	55	17	1	88
DEKALB/ DKC52-61 + GenVT2P + P/V500	102	.	119	59	13	0	88
G2 GEN./ 5H-0504 + HX1RR2 + P/V1250	105	.	115	58	13	0	89
PIONEER/ P0193HR + HX1RR2 + PPST250	101	.	108	57	15	0	93
CHANNEL/ 203-43VT3P + GenVT3P + P/V500	103	.	105	60	15	1	89
HOEGEMEYER/ HPT 7042 + OptAMX + CM250	100	.	103	58	14	0	86
CHANNEL/ 202-25VT3P + GenVT3P + P/V500	102	.	102	60	14	0	85
WENSMAN/ W 7330VT3 + GenVT3P + Acceleron	103	.	101	57	12	0	90
HOEGEMEYER/ HPT 7584 + HXT/LL/RR + CM250	105	.	97	55	17	0	89
WENSMAN/ W 9288VT3PRO + GenVT3P + Acceleron	98	.	93	60	13	0	90
RENK/ RK708SSTX + GenSSX + Acceleron	105	.	92	58	18	1	89
WENSMAN/ W 9325VT3PRO + GenVT3P + Acceleron	102	.	89	60	15	0	86
DEKALB/ DKC52-04 + GenVT3P + P/V500	102	.	87	60	16	0	87
CHANNEL/ 204-06VT3P + GenVT3P + P/V500	104	.	81	58	18	0	93
DEKALB/ DKC49-30 + GenVT3P + P/V500	99	.	80	58	11	0	88
Trial avg.:	102	119	98	58	15	0	89
High avg.:	105	145	132	60	18	2	93
Low avg.:	98	93	79	55	11	0	85
[7] LSD(.05):		NS**	26	2	2	NS	NS
[8] Min.TPG value:		93	106	58	.	.	85
[9] Max.TPG value:		.	.	.	13	2	.
[10] Coef. of var.:		11	15	2	8	215	3
No. entries:	20	6	20	20	20	20	20

NOTE: Table references [1-10] are explained in table B.

\* Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2012 yield average

# Adjusted to 15.5% moisture.

\*\* NS indicates differences between column values are nonsignificant.

## Shaded column values are included in the top-performance group (TPG).

Table 2. Geddes late maturity Roundup Ready corn hybrid test results, 2011-12, Curtis Sybesma Farm.

Brand/Hybrid [1] + Tech. Trait [2] + Seed Trt. [3]	Rel. Mat. [4]	Yield Averages *,#		Other 2012 Averages##			
		2-Yr bu/a	2012 bu/a	Bu. Wt. lb	Grain Moisture %	Ldg. % [5]	Final Stand % [6]
CHANNEL/ 209-85VT3P + GenVT3P + P/V500	109	133	118	55	19	2	95
DEKALB/ DKC62-97 + GenVT3P + P/V500	112	130	113	58	17	0	89
CHANNEL/ 211-99VT3P + GenVT3P + P/V500	111	126	113	57	15	1	92
NUTECH/ 5B-410 + AgrGT/CB/LL + MQ	110	125	113	56	19	0	92
G2/ GEN. 5H-0701 + HX1RR2 + MQ	107	124	109	57	15	0	93
WENSMAN/ W 7473VT3 + YGVTRWRR2 + Acceleron	109	111	101	55	13	0	90
HOEGEMEYER/ HPTEXP7644 + HX1RR2 + CM250	106	.	141	58	15	0	91
PIONEER/ P0876HR + HX1RR2 + PPST250	108	.	136	61	16	0	93
PIONEER/ P1151HR + HX1RR2 + PPST250	111	.	132	59	16	0	90
WENSMAN/ W 7459VT3PRO + GenVT3P + Acceleron	107	.	131	58	12	0	89
RENK/ RK741SSTX + GenSSX + Acceleron	108	.	124	59	16	0	90
CHANNEL/ 208-48VT3P + GenVT3P + P/V500	108	.	123	59	16	0	93
DEKALB/ DKC57-76 + GenVT3P + P/V500	107	.	118	59	18	0	82
HOEGEMEYER/ HPTEXP7715 + Opt AM + CM250	107	.	117	58	18	0	90
G2 GEN./ 5Z-407 + OptAMX + P/V1250	107	.	116	60	13	0	95
G2 GEN./ 5H-1005 + HX1RR2 + P/V1250	110	.	115	57	17	2	87
RENK/ RK795VT3P + GenVT3P + Acceleron	108	.	113	58	17	0	88
NUTECH/ 5N-907 + Agr3000GT + CM250	110	.	110	56	15	0	84
G2 GEN./ 5Z-008 + OptAMX + P/V1250	108	.	108	58	15	0	85
EPLEY/ E1804VT3PRO + GenVT3P + CM250	108	.	108	58	16	0	89
HOEGEMEYER/ HPTEXP7876 + Opt AM + CM250	108	.	106	59	15	1	90
DEKALB/ DKC61-17 + GenVT3P + P/V500	111	.	104	57	16	0	82
RENK/ RK752SSTX + GenSSX + Acceleron	106	.	91	58	16	2	92
NUTECH/ 5N-910 + Agr3000GT + MQ	110	.	90	56	17	0	93
G2 GEN./ 5Z-1205 + LL + P/V1250	112	.	88	57	20	1	89
Trial avg.:	109	125	114	58	16	0	90
High avg.:	112	133	141	61	20	2	95
Low avg.:	106	111	88	55	12	0	82
[7] LSD(.05):		9	23	1	3	NS**	5
[8] Min.TPG value:		124	118	60	.	.	90
[9] Max.TPG value:		.	.	.	15	2	.
[10] Coef. of var.:		7	12	1	11	231	4
No. entries:	25	6	25	25	25	25	25

NOTE: Table references [1-10] are explained in table B.

\* Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2012 yield average.

# Adjusted to 15.5% moisture.

\*\* NS indicates differences between column values are nonsignificant.

## Shaded column values are included in the top-performance group (TPG).

**Note:** The coefficients of variation (CVs) at the bottom of the yield columns (Tables 1 and 2) were 12 and 15%, respectively, for the early and late maturity trials. The high CV of 15% still enabled the statistical program to determine variety differences for those hybrids tested this year.

**Early maturity trial, Table 1.**

The test-trial yield average was **119 bu/a** for two years and **98 bu/a** in 2012. The average yield differences among the hybrids tested two years were non-significant (NS), so all the hybrids tested qualified for the TPG. Hybrids with yield averages of **106 bu/a** or more in 2012 qualified for the TPG. In 2012, bushel weights averaged **58 lbs.**, grain moisture averaged **15%**, lodging percentage averaged nearly zero, and percent final stand averaged **89%**. In order for hybrids to be in

the TPG for these factors, they had to average **58 lbs.** or more in bushel weight, **13%** or less in grain moisture, **2%** or less in lodging, and **85%** or more for percent final stand. In order for a hybrid variable to differ from one hybrid compared to another, their difference had to equal **26 bu/a** or more for yield in 2012, **2 lb.** or more in bushel weight, and **2%** or less in grain moisture. There were no differences among the hybrids tested in 2012 for lodging percentage or final stand percentage.

**Late maturity trial, Table 2.**

The test trial yield average was **125 bu/a** for two years and **114 bu/a** in 2012. Hybrids with yield averages of **124 bu/a** or more for two years and **118 bu/a** in 2012 qualified for the TPG. In 2012, bushel weights averaged **58 lbs.**, grain moisture averaged **16%**,

lodging percentage averaged nearly zero, and percent stand averaged **90%**. In order for hybrids to be in the TPG for these factors, they had to average **60 lbs.** or more in bushel weight, **15%** or less in grain moisture, **2%** or less in lodging, and **90%** or more for final stand percentage. There were no differences in lodging percentage averages among the hybrids tested in 2012. In order for a hybrid variable to differ from one hybrid compared to another, their difference had to equal **9 bu/a** or more for yield for two years and **23 bu/a** for yield in 2012; **1 lb.** or more in bushel weight, **3%** or less in grain moisture, and **5%** or more in the final stand percentage. There were no differences among the hybrids tested in 2012 for lodging percentage.

Table C. Mailing addresses for seed entries in the 2012 corn hybrid trials and listed by seed brand name

Seed brand	Seed company mailing address
Channel	Channelbio Corp., Box 277, Laurel, NE 68745
Dairyland	PO Box 958, West Bend, WI 53095
Dekalb	46040 SD Hwy 44, Chancellor, SD 57015
Epley Bros.	Epley Bros. Hybrids Inc., 22494 Yale Ave., Shell Rock, IA 50670
G-2 Genetics	G-2 Genetics, 2321 North Loop Drive, Suite 230, Ames, IA 50010
Hoegemeyer	Hoegemeyer Hybrids, 1755 Hoegemeyer Road, Hooper, NE 68031
Masters Choice	3010 St. Rt. 146 E, Anna, IL 62906
NuTech	Nutech Seed, LLC, 2321 North Loop Drive, Suite 230, Ames, IA 50010
Petersen Farms	3104 164th Ave. SE, Harwood, ND 58042
Pioneer	Pioneer Hi-Bred International, 151 Saint Andrews Court-Suite 910, Mankato, MN 56001
ProSeed	705 E. Brewster, Harvey, ND 58341
Renk	6809 Wilburn Road, Sun Prairie, WI 53590
Seeds 2000	Seeds 2000, 115 N 3rd St., Breckenridge, MN 56520
Wensman	Wensman Seed Co., PO Box 190, Wadena, MN 56482



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## Corn Hybrid Performance Trials Results - Bancroft

Robert G. Hall | SDSU Extension Agronomist  
Kevin K. Kirby | Agricultural Research Manager  
Shawn Hawks | Agricultural Research Manager



These performance trials are conducted by the South Dakota Crop Performance Testing program at South Dakota State University. Corn test trial information is listed in table A, performance table footnote references including technology traits and seed treatments are listed in Table B. Mailing addresses for seed company entrants that participated in the 2012 test trials are listed in table C.

### General Test Procedures

Seed companies pick one or more of the six test locations where their entries are tested. Entries are placed into "early" or "late" maturity trials. The relative maturity breaks between the early and late tests are 95 days for Bath and South Shore, 100 days for Bancroft and Volga, 105 days for Geddes, and 110 days for Beresford. Hybrids are assigned to trials based on the relative maturity rating reported by the participating seed company. In 2012, results from only five of the test locations are reported. Information from Beresford is not reported because the severe drought at that location prevented the collection of valid data.



Table A. General test information for 2012.	
LOCATION:	Glyphosate resistant corn trial results, Bancroft, SD
COOPERATOR:	Weerts Farm Inc. - Bancroft
SOIL TYPE:	Houdek-Stickney-Tetonka loam, 0-3% slope
TILLAGE:	No-till
FERTILITY-YIELD GOAL:	200 bushel
PREVIOUS CROP:	Soybeans
ROW SPACE:	30 inches
SEEDING POPULATION:	30,000/acre
WEED CONTROL:	Pre: 1 ounce Sharpen with burn down, Post: 1 quart Roundup.
INSECT CONTROL:	None
DISEASE CONTROL:	None
DATE SEEDED:	May 3, 2012

### 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, with the center two rows harvested for yield. A Monosem precision row crop planter was used for seeding plots at all locations. In 2012, the precision planter was calibrated to deliver 29,621 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, pest control, 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 pounds/acre of 37-18-00 was applied 2" below and 2" to the side (2 x 2) of the seed row.

### Measures of Performance

Yields are obtained from the South Dakota Crop Performance Testing Program. Two-year

and current yield averages are included where hybrids have been tested for the most recent two-year period.

**Yield.** Yield values are an average of three replications and are expressed as bushels per acre, adjusted to 15.5% moisture on a dry-matter basis and a bushel weight of 56 pounds. Statistical tests were conducted to determine whether differences obtained were caused by variations in environment or were true hybrid differences. In 2012, the coefficient of variation (CV) values (a measure of experimental error) for yield was quite variable, ranging from a low of 4% in both trials at Bath to a high of 12% and 15% for the early and late trials, respectively, at Geddes. Experimental error may be the result of several factors, including test methods, or factors such as moisture, temperature, soil variations, or agronomic factors like seeding date, reseeding, or seed quality factors—all of which may or may not be controllable in a given year. Clearly, this year, drought and variable seasonal moisture distribution and/or subsoil

moisture conditions, along with above-average temperatures, combined to produce highly variable yields across our South Dakota corn growing regions. The top yield averages occurred at Bath and Bancroft, whereas, the plot grain yields were so low at Beresford the harvest equipment could not determine valid harvest yields.

### Grain moisture content.

Moisture content is expressed as the percentage of moisture in the shelled corn at harvest. Hybrids that are above average in yield and can be stored without additional drying are desirable. At harvest, moisture values were determined by the combine moisture meter, which in turn was periodically verified with a Dickey-John GAC II meter.

**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 significant yield difference. LSD values are given at the bottom of every column where there is significant

difference among the averages within the column. If differences among the averages within a column are not significant, the LSD value is reported as “nonsignificant” (NS). The top performance group (TPG) for the performance factors yield (bu/a), bushel weight in (lbs.), harvest grain moisture (%), lodging below the ear (%), and final stand (%)

are indicated in the performance tables by the shaded data values. Evaluate the performance of each hybrid (row) by moving across the table and observing if any of the reported performance values are shaded. The more shaded performance values in each row, the better the hybrid did as a top-performing hybrid for a given test trial.

## Performance Trial Results

**Note:** Evaluate the performance of each hybrid (row) by moving across the table and observing if any of the reported performance values are shaded. The more shaded performance values there are in each row the better the hybrid did as a top-performing hybrid for a given test trial.

Table B. Explanation of performance table references.	
No.	Explanation of references
[1]	Entries are listed by Brand/Variety– Entries are sorted by 2-yr then by 2012 yield average.
[2]	Technology traits: Agr. = Agrisure; SmartStax or GenSSX= DowAgrosciences (DAS) or Monsanto Genuity (Gen), respectively; HX1, HXX = Herculex by DAS & Pioneer Hi-Bred, Opt. = Optimum AcreMax1 or Optimum AcreMaxXtra by Pioneer Hi-Bred, YG = Monsanto YieldGard.
[3]	Seed treatments: P/V500 = Poncho/Votivo 500, P/V1250 = Poncho/Votivo1250; CM250 = Cruiser Maxx250, CM1250 = Cruiser Max1250; MHL = Maxim XL, MQ = Maxim Quattro; PPST250 = Pioneer Premium Seed Treatment.
[4]	Brand Relative Maturity (Rel. Mat.)– the relative maturity rating reported by the test trial entrant.
[5]	Lodging Percentage– stalks broken below the ear as a percentage of the final stand; look for low values.
[6]	Final Stand Percentage – the number of standing stalks at harvest as a percentage of the seeding population.
[7]	Least Significant Difference (LSD 0.05) – the difference any two values within a column must be equal to or exceed for the values to be significantly different (0.05 level of probability). If the difference is less than the LSD value the difference between them is nonsignificant (NS).
[8]	Min. TPG-avg.– the minimum column value for yield, bushel weight, and final stand percentage that a hybrid must equal or exceed to be in the top performance group (TPG).
[9]	Max. TPG-avg.– the maximum column value for grain moisture at harvest, lodging percentage, or lodging score that a hybrid must equal or be less than to be in the TPG.
[10]	Coefficient of variation (C.V.)– the percent of experimental error associated with a test trial. Ideally, the CV value for yield is less than 15%. Values less than 5% are less common ; while values of 6-15% are more common. If a value exceeds 15%; the trial had too much error to be valid, so the results are not reported.

Table 1. Bancroft early maturity Roundup Ready corn hybrid test results, 2011-12, Weerts Farms Inc.

Brand/Hybrid [1] + Tech. Trait [2] + Seed Trt. [3]	Rel. Mat. [4]	Yield Averages *,#		Other 2012 Averages##			
		2-Yr bu/a	2012 bu/a	Bu. Wt. lb	Grain Moisture %	Ldg. % [5]	Final Stand % [6]
WENSMAN/ W 7290VT3PRO + GenVT3P + Acceleron	99	216	196	60	12	0	94
CHANNEL/ 197-67VT3P + GenVT3P + P/V500	97	208	189	60	13	0	91
NUTECH/ 5N-001 + Agr3000GT + MQ	100	206	191	57	11	0	84
DEKALB/ DKC48-12 + GenSSX + P/V500	98	200	196	58	12	0	95
DEKALB/ DKC50-66 + YGVTRWRR2 + P/V500	100	200	186	59	11	0	95
SEEDS 2000/ 9902 VP3111 + Agr311 + Acceleron	98	176	150	58	11	0	91
PIONEER/ P0062XR + HXXRR2 + PPST250	100	.	208	58	11	0	95
G2 GEN./ 5X-0004 + HXXRR2 + P/V1250	100	.	206	57	13	0	89
PIONEER/ P9917AM1 + OptAM1 + PPST250	99	.	205	60	12	0	93
WENSMAN/ W 9288VT3PRO + GenVT3P + Acceleron	98	.	204	59	12	0	93
RENK/ RK585VT3P + GenVT3P + Acceleron	95	.	201	60	11	0	96
G2 GEN./ 5Z-198 + OptAMX + P/V1250	98	.	197	57	11	0	87
DEKALB/ DKC43-10 + GenVT2P + P/V500	93	.	193	59	11	0	93
DEKALB/ DKC49-30 + GenVT3P + P/V500	99	.	193	60	12	0	96
CHANNEL/ 196-76VT3P + GenVT3P + P/V500	96	.	192	60	12	0	95
DEKALB/ DKC46-20 + GenVT3P + P/V500	96	.	191	61	12	0	96
WENSMAN/ W 7268VT3 + YGVTRWRR2 + Acceleron	96	.	191	59	12	0	96
EPLEY/ E9505RR + RR2 + MQ	95	.	189	62	12	1	94
PIONEER/ P9834HR + HX1RR2 + PPST250	98	.	185	57	12	0	94
DEKALB/ DKC43-48 + GenVT3P + P/V500	93	.	180	59	11	0	97
RENK/ RK576VT3P + GenVT3P + Acceleron	97	.	171	58	11	0	97
RENK/ RK578VT3P + GenVT3P + Acceleron	96	.	164	60	13	0	89
Trial avg.:	97	201	190	59	12	0	93
High avg.:	100	216	208	62	13	1	97
Low avg.:	93	176	150	57	11	0	84
[7] LSD(.05):		NS**	21	1	1	NS	4
[8] Min.TPG value:		176	187	61	.	.	93
[9] Max.TPG value:		.	.	.	12	1	.
[10] Coef. of var.:		6	7	1	5	378	3
No. entries:	22	6	22	22	22	22	22

NOTE: Table references [1-10] are explained in table B.

\* Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2012 yield average.

# Adjusted to 15.5% moisture.

\*\* NS indicates differences between column values are nonsignificant.

## Shaded column values are included in the top-performance group (TPG).

Table 2. Bancroft late maturity Roundup Ready corn hybrid test results, 2011-12, Weerts Farms Inc.

Brand/Hybrid [1] + Tech. Trait [2] + Seed Trt. [3]	Rel. Mat. [4]	Yield Averages *, #		Other 2012 Averages##			
		2-Yr bu/a	2012 bu/a	Bu. Wt. lb	Grain Moisture %	Ldg. % [5]	Final Stand % [6]
PIONEER/ P0533XR + OptAM1 + PPST250	105	215	205	60	12	0	91
WENSMAN/ W 7320VT3PRO + GenVT3P + Acceleron	101	208	193	61	14	0	93
PIONEER/ 36V53 + HX1RR2 + PPST250	102	207	201	59	12	0	90
G2/ GEN. 5X-903 + HXXRR2 + MQ	103	182	161	58	13	0	86
EPLEY/ E1418GT3000 + Agr3000GT + CM250	104	182	154	58	14	0	93
G2/ GEN. 5H-0701 + HX1RR2 + MQ	107	174	154	60	13	0	96
NUTECH/ 5B-604 + AgrGT/CB/LL + MQ	104	.	214	57	12	0	95
PIONEER/ P0193HR + HX1RR2 + PPST250	101	.	211	58	12	0	92
DEKALB/ DKC52-61 + GenVT2P + P/V500	102	.	207	58	13	0	92
G2 GEN./ 5H-0504 + HX1RR2 + P/V1250	105	.	200	58	14	0	92
PIONEER/ P0876HR + HX1RR2 + PPST250	108	.	197	60	16	0	91
RENK/ RK635VT3P + GenVT3P + Acceleron	102	.	195	60	12	0	93
NUTECH/ 5N-907 + Agr3000GT + CM250	110	.	193	57	12	0	90
WENSMAN/ W 9325VT3PRO + GenVT3P + Acceleron	102	.	193	60	13	0	93
NUTECH/ 5N-0103 + Agr3000GT + CM250	101	.	190	58	11	0	92
G2 GEN./ 5H-502 + HX1RR2 + MQ	102	.	189	59	13	0	87
DEKALB/ DKC52-04 + GenVT3P + P/V500	102	.	185	58	15	1	88
G2 GEN./ 5Z-802 + OptAMX + P/V1250	102	.	185	58	12	0	85
SEEDS 2000/ 3011 G3 + Agr3000GT + Acceleron	101	.	183	56	11	0	89
G2 GEN./ 5H-202 + HX1RR2 + P/V1250	102	.	181	62	12	0	94
RENK/ RK708SSTX + GenSSX + Acceleron	105	.	178	59	13	0	93
WENSMAN/ W 7330VT3 + GenVT3P + Acceleron	103	.	171	59	12	0	91
Trial avg.:	103	195	188	59	13	0	91
High avg.:	110	215	214	62	16	1	96
Low avg.:	101	174	154	56	11	0	85
[7] LSD(.05):		29	21	1	1	NS**	4
[8] Min.TPG value:		186	193	61	.	.	92
[9] Max.TPG value:		.	.	.	12	1	.
[10] Coef. of var.:		5	7	1	5	396	3
No. entries:	22	6	22	22	22	22	22

NOTE: Table references [1-10] are explained in table B.

\* Entries are listed by Brand/Hybrid and sorted by 2-yr then by 2012 yield average

# Adjusted to 15.5% moisture.

\*\* NS indicates differences between column values are nonsignificant.

## Shaded column values are included in the top-performance group (TPG).

**Early maturity trial, Table 1.**

The test-trial yield averages were **201 bu/a** for two years and **190 bu/a** in 2012. Hybrids with yield averages of **176 bu/a** or more for two years and **187 bu/a** or more in 2012 qualified for the TPG. The yield average differences among the hybrids tested for two years were nonsignificant (NS). In 2012, bushel weights averaged **59 lbs.**, grain moisture averaged **12%**, lodging averaged zero, and final stand percentage averaged **93%**. In order for hybrids to be in the TPG for these factors, they had to average **61 lbs.** or more in bushel weight, **12%** or less in grain moisture, **1%** or less in lodging percentage, and **93%** or

more for final stand percentage. In order for a hybrid variable to differ from one hybrid compared to another, their difference had to equal **21 bu/a** or more for yield in 2012, **1 lb.** or more in bushel weight, **1%** or less in grain moisture, **1%** or less in lodging percentage and **4%** or more in the final stand percentage.

**Late maturity trial, Table 2.** The test-trial yield averages were **195 bu/a** for two years and **188 bu/a** in 2012. Hybrids that yielded **186 bu/a** or more for two years and **193 bu/a** or more in 2012 qualified for the TPG. In 2012, bushel weights averaged **59 lbs.**, grain moisture averaged **13%**, lodging

percentage averaged nearly zero, and the final stand percentage averaged **91%**. In order for hybrids to be in the TPG for these factors, they had to average **61 lbs.** or more in bushel weight, **12%** or less in grain moisture, **1%** or less in lodging percentage, and **92%** or more for final stand percentage. In order for a hybrid variable to differ from one hybrid compared to another, their difference had to equal **29 bu/a** or more for two years, **21 bu/a** or more for 2012, **1 lb.** or more in bushel weight, **1%** or less in grain moisture, less than **1%** in lodging percentage and **4%** or more in the final stand percentage.

Table C. Mailing addresses for seed entries in the 2012 corn hybrid trials and listed by seed brand name	
Seed brand	Seed company mailing address
Channel	Channelbio Corp., Box 277, Laurel, NE 68745
Dairyland	PO Box 958, West Bend, WI 53095
Dekalb	46040 SD Hwy 44, Chancellor, SD 57015
Epley Bros.	Epley Bros. Hybrids Inc., 22494 Yale Ave., Shell Rock, IA 50670
G-2 Genetics	G-2 Genetics, 2321 North Loop Drive, Suite 230, Ames, IA 50010
Hoegemeyer	Hoegemeyer Hybrids, 1755 Hoegemeyer Road, Hooper, NE 68031
Masters Choice	3010 St. Rt. 146 E, Anna, IL 62906
NuTech	Nutech Seed, LLC, 2321 North Loop Drive, Suite 230, Ames, IA 50010
Petersen Farms	3104 164th Ave. SE, Harwood, ND 58042
Pioneer	Pioneer Hi-Bred International, 151 Saint Andrews Court-Suite 910, Mankato, MN 56001
ProSeed	705 E. Brewster, Harvey, ND 58341
Renk	6809 Wilburn Road, Sun Prairie, WI 53590
Seeds 2000	Seeds 2000, 115 N 3rd St., Breckenridge, MN 56520
Wensman	Wensman Seed Co., PO Box 190, Wadena, MN 56482



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**Nathan Mueller** | SDSU Extension Agronomist  
**Kevin Kirby** | Ag Research Manager/Specialist  
**Shawn Hawks** | Ag Research Manager/Specialist

Location: 2.5 miles north of Bancroft (57071) in Kingsbury County  
(GPS: UTM 14N, 595960 m East 4930132 m North)

Cooperator: Weerts Farm Inc.

Soil Type: Houdek-Stickney-Tetonka loam, 0-2% slope, non-irrigated

Fertility-Yield Goal: 200 bu/ac

Previous Crop: Soybean

Tillage: No-till

Row Spacing: 30 inches

Seeding Rate: 29,620/acre

Weed Management: Halex GT on June 30

Date seeded/harvested: June 3/Nov. 4

# ARCHIVE

## 2013 Corn Hybrid Trial Results – Bancroft

Table 1. Glyphosate-resistant corn hybrid performance results (average of 4 replications sorted by yield) – <b>Early Season Trial (100 day or less) at Bancroft (9 Brands, 31 hybrids).</b>							
Hybrid Information			Measurements				
Brand	Hybrid	Relative Maturity	Yield Bu/A (15.5%)	Grain Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A x 1000)
Pioneer	P9917AMX	99	<b>178.4</b>	21.0	56.0	0.4	28.7
Wensman	W 9288STXRIB	98	<b>172.3</b>	22.9	52.4	1.6	26.7
Pioneer	P0062AMX	100	<b>170.5</b>	20.1	53.7	5.7	28.6
Channel	195-58STX	95	<b>166.7</b>	18.7	54.4	0.0	27.6
Channel	197-68STX	97	<b>166.0</b>	21.9	55.0	3.9	27.9
Wensman	W 7290VT3PRIB	99	<b>165.7</b>	20.5	55.4	2.8	27.9
NuTech/G2 Genetics	5Z-200	100	<b>164.2</b>	20.7	54.4	4.2	28.4
Proseed	PX99A GT3000	99	<b>163.0</b>	22.6	52.1	3.9	25.0
Renk	RK585VT3P	95	<b>162.6</b>	18.4	54.4	1.2	28.5
Epley	E9505RR	95	<b>161.9</b>	19.1	57.9	0.4	27.7
DEKALB	DKC43-48RIB	93	<b>161.8</b>	17.7	54.6	2.0	27.8
Renk	RK596SSTX	98	<b>160.9</b>	20.6	54.8	0.4	27.1
	<b>CHECK</b>	99	<b>160.7</b>	20.8	56.1	0.0	27.9
Pioneer	P9526AMX	95	<b>160.7</b>	20.3	56.2	1.2	27.8
Channel	196-77STX	96	<b>159.8</b>	19.1	56.1	1.2	28.1
Nuseed	9504 VT3P	95	<b>159.6</b>	20.2	54.4	0.4	28.1
Channel	197-33STX	97	159.4	21.8	55.6	0.4	28.2
Renk	RK598SSTX	100	159.0	21.6	55.5	0.8	27.8
Wensman	W 70975VT3PRO	97	156.5	20.8	56.0	1.2	27.8
Nuseed	9503 VT2P	95	156.1	20.0	55.1	0.8	27.0
Wensman	W 80978VT3PRO	97	155.9	18.7	53.7	0.4	27.6
Channel	192-09VT3P	92	155.6	17.6	54.1	2.7	28.3
Proseed	PX97 SSR	97	155.2	19.4	54.1	0.8	28.6
DEKALB	DKC43-10RIB	93	154.2	17.7	54.7	5.2	27.3
DEKALB	DKC46-20RIB	96	153.2	19.5	55.5	0.0	28.6
DEKALB	DKC49-29RIB	99	151.8	20.8	55.0	1.2	28.0
DEKALB	DKC48-12RIB	98	148.7	20.4	54.1	1.2	27.8
Proseed	PX96 SSSG	96	148.2	19.9	56.0	0.0	27.7
NuTech/G2 Genetics	5H-399	99	144.7	21.1	52.4	3.6	27.1
Renk	RK581SSTX	100	143.8	22.4	53.8	0.8	27.3
Wensman	W 90967STX	96	139.9	19.7	55.8	0.8	26.8
Trial Average			158.6	20.2	54.8	1.6	27.7
LSD (0.05)†			18.9	1.9	1.3	2.1	1.2
C.V.‡			8.5	6.8	1.7	-	3.1

† Yield, moisture, test weight, lodging, and plant population value required ( $\geq$ LSD) to determine if hybrids are different from each other with confidence.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

\*Lodging percentage – stalks broken below the ear as a percentage of the final stand.

## 2013 Corn Hybrid Trial Results – Bancroft

Table 2. Glyphosate-resistant corn hybrid performance results (average of 4 replications sorted by yield) – Late Season Trial (101 day or more) at Bancroft (7 Brands, 22 hybrids).							
Hybrid Information			Measurements				
Brand	Hybrid	Relative Maturity	Yield Bu/A (15.5%)	Grain Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A x 1000)
NuTech/G2 Genetics	5H-905	105	<b>175.8</b>	22.4	51.7	0.8	28.3
Pioneer	P0876YHR	108	<b>174.7</b>	25.1	53.9	5.9	28.0
Epley	E1438VIP	104	<b>174.5</b>	23.9	51.7	3.9	28.4
NuTech/G2 Genetics	5H-502	102	<b>171.5</b>	21.1	54.1	1.3	25.8
Pioneer	P0297XR	102	<b>170.4</b>	22.4	54.2	2.7	28.0
NuTech/G2 Genetics	5H-903	103	<b>169.2</b>	24.0	51.5	1.2	28.1
NuTech/G2 Genetics	5H-805	105	<b>167.6</b>	21.7	52.6	1.2	27.6
DEKALB	DKC52-04RIB	102	<b>166.8</b>	20.3	53.5	2.0	27.3
	<b>CHECK</b>	99	<b>166.8</b>	21.1	55.9	1.1	28.9
NuTech/G2 Genetics	5H-806	106	<b>166.5</b>	23.1	53.0	1.7	25.6
Pioneer	P0533AM1	105	<b>166.2</b>	23.1	54.6	0.0	29.0
DEKALB	DKC53-56RIB	103	<b>166.1</b>	23.2	52.2	1.2	27.6
Wensman	W 9325STXRIB	102	<b>164.8</b>	21.2	53.4	2.3	27.8
NuTech/G2 Genetics	5H-202	102	<b>164.5</b>	21.2	55.6	6.1	27.2
NuTech/G2 Genetics	3D-802	102	161.0	23.1	51.2	0.4	27.2
Wensman	W 7320VT3PRIB	101	159.6	22.3	54.7	0.9	25.2
Pioneer	P0193AM	101	158.5	20.5	52.9	0.0	27.0
Renk	RK699SSTX	105	157.3	24.9	53.1	1.0	23.6
Renk	RK666SSTX	102	154.4	22.4	51.3	0.4	27.2
Renk	RK633SSTX	101	153.2	20.6	53.0	2.4	27.3
Wensman	W 91011STX	101	149.6	22.4	52.6	1.3	26.7
Proseed	PX101R VT3P	101	146.6	21.2	52.9	0.4	27.8
Trial Average			163.9	22.3	53.2	1.7	27.2
LSD (0.05)†			14.6	1.7	1.2	2.4	1.6
C.V.‡			6.3	5.4	1.6	-	4.2

† Yield, moisture, test weight, lodging, and plant population value required ( $\geq$ LSD) to determine if hybrids are different from each other with confidence.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

\*Lodging percentage – stalks broken below the ear as a percentage of the final stand.



**Nathan Mueller** | SDSU Extension Agronomist  
**Kevin Kirby** | Ag Research Manager/Specialist  
**Shawn Hawks** | Ag Research Manager/Specialist

Location: 1.5 miles south of Volga (57071) in Brookings County  
(GPS: UTM 14N, 665388 m East 4907169 m North)  
Cooperator: SDSU Volga Research Farm – Doug Doyle and staff  
Soil Type: Brandt silty clay loam, 0-2% slope, non-irrigated  
Fertility-Yield Goal: 200 bu/ac  
Previous Crop: Spring wheat  
Tillage: Conventional  
Row Spacing: 30 inches  
Seeding Rate: 29,620/acre  
Weed Management: Dual II – Pre, Glyphosate – Post  
Date seeded/harvested: May 16/Nov. 2

# ARCHIVE

## 2013 Corn Hybrid Trial Results – Volga

Table 1. Glyphosate-resistant corn hybrid performance results (average of 4 replications sorted by yield) – <b>Early Season Trial (100 day or less) at Volga (11 Brands, 31 hybrids).</b>							
Hybrid Information			Measurements				
Brand	Hybrid	Relative Maturity	Yield Bu/A (15.5%)	Grain Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A x 1000)
Channel	197-68STX	97	<b>247.9</b>	21.0	55.9	0.8	27.9
Wensman	W 80978VT3PRO	97	<b>246.4</b>	19.5	55.2	0.0	28.5
Renk	RK596SSTX	98	<b>244.1</b>	20.3	57.5	0.0	27.4
Channel	197-33STX	97	<b>241.2</b>	19.8	57.1	0.0	28.0
Hoegemeyer	HPT 7042 AMX-R	100	<b>240.5</b>	20.0	57.0	0.0	28.2
Wensman	W 70975VT3PRO	97	<b>239.2</b>	19.4	57.5	0.0	28.0
Wensman	W 7290VT3PRIB	99	<b>239.2</b>	20.5	57.6	0.0	27.6
Pioneer	P9917AMX	99	<b>237.4</b>	20.0	58.0	0.0	26.6
Masters Choice	MCT 4881	98	<b>233.6</b>	19.5	56.8	3.2	27.6
Hoegemeyer	6200 GT/CB/LL	91	<b>232.9</b>	18.0	55.2	2.5	26.0
DEKALB	DKC48-12RIB	98	<b>232.5</b>	17.7	56.6	0.0	28.5
-	<b>CHECK</b>	99	<b>231.5</b>	19.5	57.8	1.6	27.7
DEKALB	DKC43-48RIB	93	<b>230.0</b>	18.2	57.6	1.2	28.1
Epley	E9505RR	95	<b>229.6</b>	18.2	58.0	0.0	27.0
Nuseed	9503 VT2P	95	227.6	19.1	57.8	5.2	27.1
Nuseed	9504 VT3P	95	226.7	18.5	57.4	0.0	27.8
NuTech/G2 Genetics	G2 GEN. 5Z-200	100	223.2	18.6	56.3	1.6	27.6
Wensman	W 9288STXRIB	98	222.2	19.1	56.6	0.4	27.3
DEKALB	DKC46-20RIB	96	220.1	17.6	57.7	0.4	27.9
Proseed	PX96 SSSG	96	220.0	18.6	58.1	3.1	25.7
Pioneer	P0062AMX	100	219.4	17.5	55.2	3.1	28.0
Renk	RK581SSTX	100	218.4	21.7	56.1	0.0	26.8
DEKALB	DKC49-29RIB	99	218.4	19.2	56.9	0.8	27.0
Renk	RK598SSTX	100	217.3	20.7	57.5	0.4	27.7
Pioneer	P9526AMX	95	216.8	19.3	57.9	0.8	27.0
Proseed	PX99A GT3000	99	216.6	18.3	55.3	0.4	27.8
Proseed	PX97 SSR	97	215.6	19.2	56.3	0.0	28.4
Wensman	W 90967STX	96	215.3	18.5	57.8	0.0	26.2
Hoegemeyer	EXP 1221 HX/LL/RR	99	215.0	18.8	55.0	0.8	26.2
DEKALB	DKC43-10RIB	93	214.0	16.7	55.2	0.0	27.4
NuTech/G2 Genetics	5H-399	99	212.3	17.9	54.3	0.0	27.3
Trial Average			227.3	19.1	56.7	0.8	27.4
LSD (0.05)†			19.1	1.5	1.1	2.2	0.9
C.V.‡			6.0	5.6	1.4	-	2.4

† Yield, moisture, test weight, lodging, and plant population value required ( $\geq$ LSD) to determine if hybrids are different from each other with confidence.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

\*Lodging percentage – stalks broken below the ear as a percentage of the final stand.

## 2013 Corn Hybrid Trial Results – Volga

Table 2. Glyphosate-resistant corn hybrid performance results (average of 4 replications sorted by yield) – Late Season Trial (101 day or more) at Volga (10 Brands, 32 hybrids).							
Hybrid Information			Measurements				
Brand	Hybrid	Relative Maturity	Yield Bu/A (15.5%)	Grain Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A x 1000)
NuTech/G2 Genetics	5H-903	103	<b>246.2</b>	22.2	55.0	0.0	28.1
Wensman	W 91011STX	101	<b>244.4</b>	21.6	56.6	0.0	26.4
Channel	202-64STX	102	<b>241.8</b>	22.5	56.5	0.0	28.1
NuTech/G2 Genetics	3D-802	102	<b>240.6</b>	22.7	55.4	0.0	26.5
Masters Choice	5273000G	105	<b>239.4</b>	23.6	55.4	2.0	27.7
Renk	RK633SSTX	101	<b>238.4</b>	21.9	55.4	0.0	27.4
Renk	RK666SSTX	102	<b>237.2</b>	23.3	54.5	0.0	27.6
Wensman	W 7330VT3PRIB	104	<b>236.4</b>	24.2	52.9	0.0	26.7
DEKALB	DKC53-56RIB	103	<b>235.8</b>	22.6	56.1	0.0	28.1
Pioneer	P0297XR	102	<b>235.4</b>	23.1	56.0	0.8	27.2
Dairyland Seeds	DS-9809RA	109	<b>235.0</b>	24.9	54.5	0.4	28.1
Pioneer	P0193AM	101	<b>232.4</b>	19.9	54.1	0.0	25.4
Dairyland Seeds	DS-9501SSX	101	<b>231.9</b>	20.9	56.2	0.0	27.1
Masters Choice	MCT 5373	103	<b>230.0</b>	23.2	55.4	0.4	26.9
Wensman	W 7320VT3PRIB	101	<b>229.5</b>	23.3	57.2	0.0	24.6
DEKALB	DKC52-04RIB	102	<b>229.4</b>	21.2	56.6	0.0	27.6
-	<b>CHECK</b>	99	<b>228.4</b>	21.8	57.4	0.0	27.2
Wensman	W 9325STXRIB	102	<b>228.2</b>	20.7	54.8	0.9	25.8
Pioneer	P0533AM1	105	<b>227.0</b>	22.8	56.8	0.0	27.1
Renk	RK699SSTX	105	<b>226.2</b>	24.1	55.5	0.5	24.2
NuTech/G2 Genetics	5H-805	105	225.1	21.2	55.1	0.0	25.6
NuTech/G2 Genetics	5H-502	102	223.2	22.4	55.9	0.5	24.7
Channel	203-44STX	103	221.1	22.1	55.5	0.0	27.1
Masters Choice	MCT535GT	107	219.7	25.9	52.8	3.8	25.7
NuTech/G2 Genetics	5H-905	105	218.6	19.7	54.2	0.8	27.1
Channel	201-39STX	101	217.9	21.0	55.8	0.4	26.7
NuTech/G2 Genetics	5H-806	106	216.9	23.5	54.2	0.0	25.0
Masters Choice	MCT 5663	106	215.1	22.4	53.9	0.8	27.2
Dairyland Seeds	DS-9604SSX	104	212.5	22.5	55.6	0.4	27.8
Proseed	PX101R VT3P	101	210.3	20.9	54.6	0.4	26.6
NuTech/G2 Genetics	5H-202	102	206.1	20.7	58.5	4.2	26.2
Epley	E1438VIP	104	203.6	20.7	53.9	0.8	27.1
Trial Average			227.6	22.3	55.4	0.5	26.7
LSD (0.05)†			20.8	1.3	1.5	1.6	1.1
C.V.‡			6.5	4.3	1.9	-	3.0

† Yield, moisture, test weight, lodging, and plant population value required ( $\geq$ LSD) to determine if hybrids are different from each other with confidence.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

\*Lodging percentage – stalks broken below the ear as a percentage of the final stand.

**Nathan Mueller** | SDSU Extension Agronomist  
**Kevin Kirby** | Ag Research Manager/Specialist  
**Shawn Hawks** | Ag Research Manager/Specialist

Location: 4 miles south of Bath (57427) in Brown County  
(GPS: UTM 14N, 552563 m East 5028350 m North)  
Cooperator: Gordon and Roger Locken Farms  
Soil Type: Great Bend silt loam, 0-2% slope, non-irrigated  
Fertility-Yield Goal: 200 bu/ac  
Soil Test: 4.5% OM, 5.3 pH, 24 ppm P (Olsen), 497 ppm K  
Previous Crop: Soybean  
Tillage: No-till  
Row Spacing: 30 inches  
Seeding Rate: 29,620/acre  
Weed Management: Glyphosate & Sharpen – Pre, Glyphosate – Post  
Date seeded/harvested: May 9/Nov. 5

# ARCHIVE

## 2013 Corn Hybrid Trial Results – Bath

Table 1a. Glyphosate-resistant corn hybrid performance results (average of 4 replications sorted by yield) – Early Season Trial (95 day or less) at Bath (16 Brands, 43 hybrids).							
Hybrid Information			Measurements				
Brand	Hybrid	Relative Maturity	Yield Bu/A (15.5%)	Grain Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A x 1000)
Nuseed	9001 VP3220	90	233.0	18.5	54.5	0.4	25.6
Channel	192-09VT3P	92	231.4	18.2	56.9	0.0	28.4
	<b>CHECK</b>	99	230.2	20.9	57.4	0.0	28.3
Wensman	W 8184VT2RIB	95	228.9	19.6	57.4	0.0	28.0
Rea	3A929-RIB	92	228.3	18.6	58.2	0.0	27.6
Wensman	W 80952VT2RIB	95	227.8	18.2	56.3	0.4	28.6
Peterson Farms	PFS76S92	92	226.5	18.1	56.4	0.0	28.2
Wensman	W 90935VT3PRO	93	225.6	17.8	57.7	0.4	28.3
Renk	RK522SSTX	94	224.3	18.0	57.2	1.9	28.4
Federal Hybrids	4440 VT3P	94	223.2	18.4	57.0	0.0	27.9
Federal Hybrids	4640 VT3P	95	222.4	18.5	57.7	0.0	28.0
Latham	LH 4455 VT3PRO	94	221.2	19.2	58.0	0.0	27.7
Nuseed	9503 VT2P	95	221.2	18.8	57.3	0.0	27.6
Latham	LH 4242 VT3PRO	92	221.1	18.6	57.5	0.0	28.2
Wensman	W 7110VT3PRIB	90	221.0	17.8	56.8	0.0	28.0
Rea	4A950-RIB	95	220.1	18.7	58.7	0.8	29.0
Latham	LH 4568 VT3PRO	95	219.6	18.9	57.7	0.8	28.4
Rea	4B941-RIB	94	218.4	17.6	57.8	0.0	28.6
Renk	RK568VT3P	95	218.4	19.5	57.5	0.0	27.1
Channel	195-58STX	95	218.3	18.1	56.5	0.0	26.4
Pioneer	P9305YHR	93	217.7	18.3	57.1	0.4	28.4
DEKALB	DKC43-48RIB	93	217.6	17.6	57.0	0.0	28.4
Dairyland	DS-9791RA	91	217.3	18.1	56.9	0.4	28.2
Renk	RK557SSTX	95	217.0	19.9	56.8	0.0	27.3
Masters Choice	MCT 4564	92	217.0	20.2	53.0	0.4	27.8
Epley	E9505RR	95	214.6	18.4	59.5	0.4	27.4
Federal Hybrids	4520 VT3P	95	213.6	18.7	59.7	0.0	27.9
NuTech/G2 Genetics	5X-894	94	213.0	18.0	56.7	0.4	28.2
Latham	LH 4098 VT3PRO	90	212.4	18.0	57.5	0.0	27.2
Nuseed	9504 VT3P	95	212.0	17.8	57.0	0.4	28.5
DEKALB	DKC43-10RIB	93	211.8	17.6	56.1	0.0	27.4
Proseed	1295 SS	95	211.8	19.7	57.5	0.0	25.6
Pioneer	P9526AMX	95	211.7	18.7	58.1	0.8	28.1
Rea	4B285-RIB	93	211.6	17.5	55.5	0.0	28.6
Channel	191-87STX	91	209.0	17.5	57.6	0.4	27.0
Trial Average			216.6	18.4	57.1	0.3	27.6
LSD (0.05)†			14.6	1.2	1.3	NS	1.1
C.V.‡			4.8	4.6	1.6	-	2.7

† Yield, moisture, test weight, lodging, and plant population value required (≥LSD) to determine if hybrids are different from each other with confidence. No significant (NS) difference between hybrids.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

\*Lodging percentage – stalks broken below the ear as a percentage of the final stand.

## 2013 Corn Hybrid Trial Results – Bath

Table 1b. Glyphosate-resistant corn hybrid performance results (average of 4 replications sorted by yield) – <b>Early Season Trial (95 day or less) at Bath (16 Brands, 43 hybrids).</b>							
Hybrid Information			Measurements				
Brand	Hybrid	Relative Maturity	Yield Bu/A (15.5%)	Grain Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A x 1000)
Channel	189-03VT2P	89	208.9	16.1	57.4	0.8	27.3
NuTech	EXP 5N-9404	94	208.4	20.3	55.6	0.4	23.7
Federal Hybrids	4240 VT3P	92	207.9	18.1	56.6	0.8	28.7
Rea	3A921-RIB	92	203.2	17.7	57.8	0.0	27.7
Rea	3A901-RIB	90	203.1	17.5	56.1	0.0	25.8
Renk	RK585VT3P	95	202.7	17.7	56.4	0.8	27.7
Nuseed	9202 VT2P	92	201.7	17.0	55.6	0.0	27.3
Renk	RK492SSTX	92	190.3	19.1	57.3	0.5	22.8
Trial Average			216.6	18.4	57.1	0.3	27.6
LSD (0.05)†			14.6	1.2	1.3	NS	1.1
C.V.‡			4.8	4.6	1.6	-	2.7

† Yield, moisture, test weight, lodging, and plant population value required ( $\geq$ LSD) to determine if hybrids are different from each other with confidence. No significant (NS) difference between hybrids.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

\*Lodging percentage – stalks broken below the ear as a percentage of the final stand.

# ARCHIVE

## 2013 Corn Hybrid Trial Results – Bath

Table 2a. Glyphosate-resistant corn hybrid performance results (average of 4 replications sorted by yield) – Late Season Trial (96 day or more) at Bath (12 Brands, 42 hybrids).							
Hybrid Information			Measurements				
Brand	Hybrid	Relative Maturity	Yield Bu/A (15.5%)	Grain Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A x 1000)
NuTech/G2 Genetics	5H-399	99	<b>227.3</b>	20.4	53.2	0.4	27.2
Pioneer	P0193AM	101	<b>226.0</b>	20.8	53.1	1.6	27.2
Wensman	W 7290VT3PRIB	99	<b>225.1</b>	19.2	56.6	0.0	28.6
Wensman	W 9288STXRIB	98	<b>224.4</b>	21.1	54.6	0.0	27.1
Pioneer	P9917AMX	99	<b>223.7</b>	20.2	56.9	0.0	27.6
	<b>CHECK</b>	99	<b>223.5</b>	19.8	56.9	0.8	28.1
DEKALB	DKC48-12RIB	98	<b>223.1</b>	17.8	55.3	0.4	27.7
NuTech/G2 Genetics	3F-198	98	<b>222.5</b>	18.2	52.8	0.4	26.9
Dekalb	DKC46-20RIB	96	<b>221.4</b>	18.4	58.1	1.5	27.6
Dekalb	DKC52-04RIB	102	<b>221.3</b>	20.5	56.1	1.2	26.9
Rea	5A992-RIB	99	<b>220.8</b>	20.8	54.5	0.0	27.3
Nutech	5N-498	98	<b>219.2</b>	20.5	54.7	0.0	25.9
Pioneer	P0297XR	102	<b>219.1</b>	22.0	55.1	2.4	27.0
Peterson Farms	PFS55S96	96	<b>218.8</b>	19.2	57.1	0.0	27.4
NuTech/G2 Genetics	5Z-200	100	<b>218.5</b>	18.8	54.7	0.4	27.7
Latham	LH 5185 VT2PRO	101	<b>218.1</b>	20.7	55.2	2.1	25.8
Latham	LH 4974 3000GT-A	99	<b>217.8</b>	21.0	52.8	0.0	28.3
Dairyland	DS-9501SSX	101	<b>217.4</b>	19.6	54.4	0.0	27.1
DEKALB	DKC49-29RIB	99	<b>217.2</b>	19.4	56.0	0.4	28.1
Pioneer	P0062AMX	100	<b>216.6</b>	19.5	54.9	1.2	27.4
Proseed	PX97 SSR	97	<b>215.8</b>	18.1	55.7	0.0	27.3
Dairyland	DS-9898RA	98	<b>215.8</b>	23.6	53.2	0.0	27.9
Proseed	PX96 SSSG	96	<b>215.7</b>	18.3	57.0	0.8	27.1
Proseed	PX99A GT3000	99	<b>214.5</b>	20.4	53.0	0.0	25.8
Rea	4A971-RIB	97	<b>214.1</b>	18.3	56.5	0.0	26.8
Rea	5A508-RIB	99	<b>213.4</b>	20.4	56.9	0.4	27.0
Peterson Farms	PFS88A97	97	<b>213.4</b>	19.8	54.3	0.4	27.1
Latham	LH 5088 SS	100	211.9	20.8	55.5	0.0	26.1
Latham	LH 4645 VT2PRO	96	211.8	18.1	54.8	0.4	28.1
NuTech/G2 Genetics	5X-698	98	211.3	19.5	55.4	0.0	24.6
Renk	RK581SSTX	100	211.1	21.5	55.5	0.0	28.3
Wensman	W 90967STX	96	204.1	18.3	56.5	0.4	27.3
NuTech/G2 Genetics	EXP 5Z-9605	96	204.0	19.0	55.0	0.4	27.4
Masters Choice	MCT 4954	99	203.6	21.3	55.4	1.3	25.0
Proseed	PX101R VT3P	101	200.3	19.9	54.4	0.4	26.1
Trial Average			213.9	19.8	55.3	0.5	27.0
LSD (0.05)†			14.1	1.3	1.0	NS	1.0
C.V.‡			4.7	4.5	1.3	-	2.6

† Yield, moisture, test weight, lodging, and plant population value required ( $\geq$ LSD) to determine if hybrids are different from each other with confidence. No significant (NS) difference between hybrids.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

\*Lodging percentage – stalks broken below the ear as a percentage of the final stand.

## 2013 Corn Hybrid Trial Results – Bath

Table 2b. Glyphosate-resistant corn hybrid performance results (average of 4 replications sorted by yield) – Late Season Trial (96 day or more) at Bath (12 Brands, 42 hybrids).							
Hybrid Information			Measurements				
Brand	Hybrid	Relative Maturity	Yield Bu/A (15.5%)	Grain Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A x 1000)
Dairyland	DS-9796	96	200.2	19.7	55.3	0.0	28.2
Rea	4A654-RIB	96	199.5	19.0	54.9	0.4	26.6
Rea	5A980-RIB	98	199.3	18.0	57.6	0.4	27.1
Renk	RK598SSTX	100	196.7	19.9	56.8	0.0	25.8
Latham	LH 4679 SS	96	192.5	20.0	54.1	0.4	26.4
Latham	LH 4926 VT3PRO	99	184.1	21.4	54.4	0.5	23.0
Trial Average			213.9	19.8	55.3	0.5	27.0
LSD (0.05)†			14.1	1.3	1.0	NS	1.0
C.V.‡			4.7	4.5	1.3	-	2.6

† Yield, moisture, test weight, lodging, and plant population value required ( $\geq$ LSD) to determine if hybrids are different from each other with confidence. No significant (NS) difference between hybrids.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

\*Lodging percentage – stalks broken below the ear as a percentage of the final stand.

# ARCHIVE



**Nathan Mueller** | SDSU Extension Agronomist  
**Kevin Kirby** | Ag Research Manager/Specialist  
**Shawn Hawks** | Ag Research Manager/Specialist

Location: 8.5 miles west of South Shore (57263) in Codington County  
(GPS: UTM 14N, 649641 m East 4996544 m North)

Cooperator: SDSU Northeast Research Farm – Allen Heuer

Soil Type: Kranzburg-Brookings silty clay loam, 0-2% slope, non-irrigated

Fertility-Yield Goal: 200 bu/ac (180 lbs N/ac, 110 lbs P<sub>2</sub>O<sub>5</sub>/ac, and 60 lbs K<sub>2</sub>O/ac)

Soil Test: 24 ppm P & 142 ppm K

Previous Crop: Soybean

Tillage: Conventional till

Row Spacing: 30 inches

Seeding Rate: 29,620/acre

Weed Management: Dual II – Pre, Glyphosate – Post

Date seeded/harvested: May 13/Nov. 6

# ARCHIVE

## 2013 Corn Hybrid Trial Results – South Shore

Table 1a. Glyphosate-resistant corn hybrid performance results (average of 4 replications sorted by yield) – Early Season Trial (95 day or less) at South Shore (15 Brands, 40 hybrids).							
Hybrid Information			Measurements				
Brand	Hybrid	Relative Maturity	Yield Bu/A (15.5%)	Grain Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A x 1000)
Rea NuTech/G2 Genetics Channel Federal Hybrids	<b>CHECK</b>	99	<b>185.0</b>	18.4	56.8	0.4	27.1
	3A901-RIB	90	<b>182.3</b>	15.0	54.9	0.0	27.9
	5X-894	94	<b>182.2</b>	16.3	55.7	0.0	27.6
	191-87STX	91	<b>179.7</b>	15.8	56.8	2.5	26.9
	4520 VT3P	95	<b>177.8</b>	16.5	57.8	0.0	28.1
Peterson Farms Channel Epley Federal Hybrids Latham	PFS76S92	92	<b>177.7</b>	18.1	55.3	0.0	28.6
	195-58STX	95	<b>177.7</b>	15.0	54.0	0.0	28.4
	E9505RR	95	<b>174.4</b>	16.9	57.6	0.4	27.6
	4240 VT3P	92	<b>171.9</b>	17.4	56.2	0.0	28.7
	LH 4098 VT3PRO	90	168.2	14.7	54.9	0.4	28.5
Wensman Wensman Renk Proseed Rea	W 90935VT3PRO	93	168.0	14.0	55.1	0.0	28.1
	W 7140VT3PRIB	93	167.1	17.3	57.3	0.4	26.2
	RK585VT3P	95	166.7	15.7	55.0	0.0	27.8
	1295 SS	95	165.6	18.9	55.4	0.0	25.3
	4B285-RIB	93	164.1	14.6	53.9	0.8	28.0
Pioneer Channel DEKALB Federal Hybrids Nuseed	P9526AMX	95	163.1	16.1	56.9	5.4	28.3
	189-03VT2P	89	162.9	14.7	56.6	0.8	26.9
	DKC43-48RIB	93	162.3	15.9	55.3	0.0	28.6
	4640 VT3P	95	162.2	15.7	55.2	0.8	27.8
	9202 VT2P	92	161.6	14.3	53.8	1.3	25.9
Nuseed Latham Nuseed Channel Rea	9504 VT3P	95	161.6	15.8	55.2	0.8	28.3
	LH 4568 VT3PRO	95	161.2	15.9	54.2	0.0	28.4
	9001 VP3220	90	160.7	14.1	52.6	0.8	28.3
	192-09VT3P	92	159.7	15.8	54.5	0.0	28.0
	4B941-RIB	94	159.0	17.2	56.1	0.0	28.0
Latham Renk Latham Nuseed DEKALB	LH 4455 VT3PRO	94	158.6	17.6	56.3	2.0	26.9
	RK522SSTX	94	155.9	16.3	55.2	0.4	27.8
	LH 4242 VT3PRO	92	154.1	17.2	55.6	0.0	28.4
	9503 VT2P	95	151.0	16.4	55.9	0.0	27.9
	DKC43-10RIB	93	150.8	16.0	54.9	0.4	27.1
Dairyland Renk Rea Rea Federal Hybrids	DS-9791RA	91	150.5	16.7	55.9	0.4	28.7
	RK568VT3P	95	150.0	17.3	56.2	0.4	27.4
	3A921-RIB	92	149.8	16.5	55.7	0.0	28.1
	3A929-RIB	92	148.9	16.9	55.9	0.0	28.4
	4440 VT3P	94	148.8	16.9	55.9	0.4	28.4
Trial Average			161.6	16.2	55.5	0.5	27.5
LSD (0.05)†			14.6	1.1	0.9	1.7	1.2
C.V.‡			6.4	4.7	1.2	-	3.0

† Yield, moisture, test weight, lodging, and plant population value required ( $\geq$ LSD) to determine if hybrids are different from each other with confidence. No significant (NS) difference between hybrids.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

\*Lodging percentage – stalks broken below the ear as a percentage of the final stand.

## 2013 Corn Hybrid Trial Results – South Shore

Table 1b. Glyphosate-resistant corn hybrid performance results (average of 4 replications sorted by yield) – <b>Early Season Trial (95 day or less) at South Shore (15 Brands, 40 hybrids).</b>							
Hybrid Information			Measurements				
Brand	Hybrid	Relative Maturity	Yield Bu/A (15.5%)	Grain Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A x 1000)
Renk	RK557SSTX	95	148.8	17.4	54.0	0.0	27.6
Renk	RK492SSTX	92	145.9	16.7	56.7	0.0	21.3
Rea	4A950-RIB	95	144.9	15.1	55.6	0.0	27.8
NuTech	EXP 5N-9404	94	143.9	17.7	55.1	1.0	23.8
Pioneer	P9305YHR	93	140.3	15.6	53.9	2.3	28.3
Trial Average			161.6	16.2	55.5	0.5	27.5
LSD (0.05)†			14.6	1.1	0.9	1.7	1.2
C.V.‡			6.4	4.7	1.2	-	3.0

† Yield, moisture, test weight, lodging, and plant population value required ( $\geq$ LSD) to determine if hybrids are different from each other with confidence. No significant (NS) difference between hybrids.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

\*Lodging percentage – stalks broken below the ear as a percentage of the final stand.

# ARCHIVE

## 2013 Corn Hybrid Trial Results – South Shore

Table 2a. Glyphosate-resistant corn hybrid performance results (average of 4 replications sorted by yield) – Late Season Trial (96 day or more) at South Shore (12 Brands, 42 hybrids).							
Hybrid Information			Measurements				
Brand	Hybrid	Relative Maturity	Yield Bu/A (15.5%)	Grain Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A x 1000)
Channel	197-33STX	97	<b>194.4</b>	20.0	56.9	1.6	27.8
Pioneer	P9917AMX	99	<b>193.5</b>	19.1	58.4	0.4	28.1
NuTech/G2 Genetics	5X-698	98	<b>191.1</b>	19.6	58.6	1.8	24.1
	<b>CHECK</b>	99	<b>190.0</b>	19.3	56.8	0.4	27.8
DEKALB	DKC48-12RIB	98	<b>188.5</b>	17.9	55.5	0.0	28.1
Channel	197-68STX	97	<b>187.3</b>	18.8	55.1	0.8	28.4
Latham	LH 5185 VT2PRO	101	<b>185.2</b>	19.9	56.7	2.1	26.4
Rea	4A654-RIB	96	<b>183.6</b>	17.7	57.1	0.0	28.2
NuTech/G2 Genetics	3F-198	98	<b>181.9</b>	16.1	53.6	0.0	26.0
Rea	5A508-RIB	99	<b>181.5</b>	19.3	56.3	0.0	27.9
Proseed	PX101R VT3P	101	<b>180.6</b>	20.7	55.0	0.4	27.9
DEKALB	DKC52-04RIB	102	<b>180.6</b>	19.3	56.4	0.8	27.2
Peterson Farms	PFS55S96	96	<b>180.6</b>	18.3	58.2	0.4	27.2
DEKALB	DKC49-29RIB	99	<b>180.3</b>	19.6	56.1	0.0	27.4
Rea	5A992-RIB	99	179.6	17.8	54.4	0.0	27.9
Wensman	W 90967STX	96	178.9	17.5	56.7	0.8	27.3
Latham	LH 5088 SS	100	178.6	22.4	55.4	0.4	27.9
Latham	LH 4645 VT2PRO	96	178.0	17.2	54.1	0.4	27.2
Channel	196-77STX	96	177.5	18.6	57.8	0.0	28.3
Pioneer	P0062AMX	100	177.3	17.6	54.2	1.6	28.2
Wensman	W 9288STXRIB	98	176.7	19.6	56.2	0.8	27.1
DEKALB	DKC46-20RIB	96	174.8	17.9	57.4	0.0	28.6
Wensman	W 70975VT3PRO	97	174.1	18.4	57.3	0.4	28.0
NuTech/G2 Genetics	EXP 5Z-9605	96	172.5	17.0	56.0	0.0	26.8
Latham	LH 4974 3000GT-A	99	170.5	18.5	53.9	1.3	24.9
Dairyland	DS-9501SSX	101	169.1	19.5	56.1	1.6	28.5
Latham	LH 4926 VT3PRO	99	168.3	21.9	55.5	0.0	23.2
Peterson Farms	PFS88A97	97	167.0	18.1	54.8	0.0	26.9
Proseed	PX97 SSR	97	166.2	18.4	56.4	0.0	27.8
Renk	RK596SSTX	98	166.1	18.3	56.6	0.9	25.8
Proseed	PX99A GT3000	99	165.0	18.5	53.6	2.6	24.2
NuTech	5N-498	98	164.0	18.8	54.4	1.2	27.2
Rea	5A980-RIB	98	164.0	17.4	58.5	0.4	27.4
Dairyland	DS-9796	96	163.0	17.9	57.0	0.4	28.1
Latham	LH 4679 SS	96	162.3	18.6	54.8	0.0	27.4
Trial Average			174.2	18.7	55.9	0.6	27.2
LSD (0.05)†			14.3	1.3	1.4	NS	1.0
C.V.‡			5.9	4.9	1.8	-	2.6

† Yield, moisture, test weight, lodging, and plant population value required ( $\geq$ LSD) to determine if hybrids are different from each other with confidence. No significant (NS) difference between hybrids.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

\*Lodging percentage – stalks broken below the ear as a percentage of the final stand.

## 2013 Corn Hybrid Trial Results – South Shore

Table 2b. Glyphosate-resistant corn hybrid performance results (average of 4 replications sorted by yield) – **Late Season Trial (96 day or more) at South Shore (12 Brands, 42 hybrids).**

Hybrid Information			Measurements				
Brand	Hybrid	Relative Maturity	Yield Bu/A (15.5%)	Grain Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A x 1000)
NuTech/G2 Genetics	5Z-200	100	162.1	17.8	52.6	2.7	28.4
Renk	RK581SSTX	100	162.0	22.0	56.2	0.0	27.3
Proseed	PX96 SSSG	96	161.6	15.9	57.0	0.0	27.3
NuTech/G2 Genetics	5H-399	99	161.1	18.1	53.8	1.2	27.3
Dairyland	DS-9898RA	98	161.1	21.4	54.7	0.0	28.6
Rea	4A971-RIB	97	159.2	17.5	55.3	0.4	26.2
Renk	RK598SSTX	100	158.3	18.3	57.0	0.0	27.3
Trial Average			174.2	18.7	55.9	0.6	27.2
LSD (0.05)†			14.3	1.3	1.4	NS	1.0
C.V.‡			5.9	4.9	1.8	-	2.6

† Yield, moisture, test weight, lodging, and plant population value required ( $\geq$ LSD) to determine if hybrids are different from each other with confidence. No significant (NS) difference between hybrids.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

\*Lodging percentage – stalks broken below the ear as a percentage of the final stand.

# ARCHIVE

**Nathan Mueller** | SDSU Extension Agronomist  
**Kevin Kirby** | Ag Research Manager/Specialist  
**Shawn Hawks** | Ag Research Manager/Specialist

Location: 6 miles west & 3 miles south of Beresford (57004) in Clay County  
(GPS: UTM 14N, 670979 m East 4768145 m North)

Cooperator: SDSU Southeast Research Center – Peter Sexton and staff

Soil Type: Egan-Clarno-Trent silty clay loam, 0-2% slope, non-irrigated

Fertility-Yield Goal: 200 bu/ac

Fertilizer program: 62 lbs N/ac & 84 lbs P<sub>2</sub>O<sub>5</sub>/ac – Preplant; 30-10-10 (N-P<sub>2</sub>O<sub>5</sub>-K<sub>2</sub>O lbs/ac) – Starter;  
42 lbs N/ac – Sidedress

Previous Crop: Soybean

Tillage: No-till

Row Spacing: 30 inches

Seeding Rate: 29,620/acre

Weed Management: Dual and Glyphosate – Pre, Callisto and Atrazine – Post

Date seeded/harvested: May 14/Nov. 8

# ARCHIVE

## 2013 Corn Hybrid Trial Results – Beresford

Table 1a. Glyphosate-resistant corn hybrid performance results (average of 4 replications sorted by yield) – <b>Early Season Trial (110 day or less) at Beresford (10 Brands, 36 hybrids).</b>							
Hybrid Information			Measurements				
Brand	Hybrid	Relative Maturity	Yield Bu/A (15.5%)	Grain Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A x 1000)
Hoegemeyer	HPT 7876 AM	108	<b>233.6</b>	18.7	61.7	4.2	28.5
NuTech	5B-410	110	<b>232.6</b>	19.0	58.9	0.4	27.8
Dairyland	DS-9610	110	<b>231.5</b>	19.0	59.3	3.9	27.9
Channel	209-53STX	109	<b>227.9</b>	20.2	60.1	1.6	28.1
Pioneer	P0533AM1	105	<b>227.9</b>	17.9	61.7	0.4	28.9
NuTech/G2 Genetics	5Z-109	109	<b>225.6</b>	19.8	61.2	8.9	28.0
Hoegemeyer	HPT 8066 AM	110	<b>225.3</b>	18.8	61.4	13.2	28.0
NuTech/G2 Genetics	5F-008	108	<b>225.0</b>	18.4	61.4	2.4	28.1
Wensman	W 7330VT3PRIB	104	<b>224.7</b>	17.0	58.1	0.4	27.4
	<b>CHECK</b>	99	<b>223.8</b>	16.9	61.2	0.4	29.0
NuTech/G2 Genetics	5Z-709	109	<b>223.4</b>	18.6	60.2	16.8	28.0
Pioneer	P0193AM	101	<b>222.9</b>	16.6	59.3	0.0	27.1
Hoegemeyer	HPT 7644 HX/LL/RR	106	<b>222.5</b>	17.8	60.9	3.4	28.4
NuTech/G2 Genetics	5H-707	107	<b>221.2</b>	18.0	60.7	3.9	27.6
Pioneer	P0636HR	106	220.2	17.7	60.8	1.6	28.0
DEKALB	DKC52-04RIB	102	220.0	17.1	59.6	0.8	28.7
NuTech/G2 Genetics	5H-905	105	219.4	16.6	59.3	1.5	28.2
NuTech/G2 Genetics	5H-610	110	218.2	18.5	60.9	3.3	27.1
Renk	RK797SSTX	109	217.6	17.8	60.8	0.8	27.8
Renk	RK776VT3P	107	217.5	18.7	61.2	6.2	26.8
NuTech/G2 Genetics	5H-805	105	217.3	17.5	60.5	0.0	28.2
Wensman	W 7473VT3PRIB	109	217.1	18.6	57.2	0.4	27.3
NuTech/G2 Genetics	5H-806	106	216.8	17.8	61.2	2.1	26.5
Pioneer	P0297XR	102	215.9	17.3	60.9	1.5	28.0
Wensman	W 7459VT3PRIB	107	214.3	17.9	59.3	0.4	27.7
Renk	RK791SSTX	108	214.2	17.2	59.8	8.2	28.0
DEKALB	DKC57-75RIB	107	211.9	17.7	59.7	1.9	27.3
Channel	208-49STX	108	210.5	18.8	60.5	0.8	28.4
Pioneer	P0876YHR	108	210.1	20.1	62.8	4.3	27.9
NuTech/G2 Genetics	5F-811	110	209.0	19.8	61.2	6.7	27.7
Trial Average			217.3	18.1	60.3	3.7	27.8
LSD (0.05)†			13.0	0.8	1.2	3.7	1.0
C.V.‡			4.3	3.2	1.4	-	2.6

† Yield, moisture, test weight, lodging, and plant population value required ( $\geq$ LSD) to determine if hybrids are different from each other with confidence.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

\*Lodging percentage – stalks broken below the ear as a percentage of the final stand.

## 2013 Corn Hybrid Trial Results – Beresford

Table 1b. Glyphosate-resistant corn hybrid performance results (average of 4 replications sorted by yield) – <b>Early Season Trial (110 day or less) at Beresford (10 Brands, 36 hybrids).</b>							
Hybrid Information			Measurements				
Brand	Hybrid	Relative Maturity	Yield Bu/A (15.5%)	Grain Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A x 1000)
Wensman	W 9325STXRIB	102	207.7	16.7	60.0	0.0	27.7
Channel	206-78STX	106	205.2	17.7	61.0	3.3	26.9
DEKALB	DKC53-56RIB	103	200.5	17.0	60.5	0.0	27.7
Dairyland	DS-9809RA	109	199.9	18.4	58.6	5.3	28.5
Epley	E1804VT3PRO	108	195.8	19.3	59.7	21.9	27.9
Wensman	W 91011STX	101	194.2	16.5	60.0	0.4	26.0
Trial Average			217.3	18.1	60.3	3.7	27.8
LSD (0.05)†			13.0	0.8	1.2	3.7	1.0
C.V.‡			4.3	3.2	1.4	-	2.6

† Yield, moisture, test weight, lodging, and plant population value required ( $\geq$ LSD) to determine if hybrids are different from each other with confidence.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

\*Lodging percentage – stalks broken below the ear as a percentage of the final stand.

# ARCHIVE



## 2013 Corn Hybrid Trial Results – Beresford

Table 2. Glyphosate-resistant corn hybrid performance results (average of 4 replications sorted by yield) – **Late Season Trial (111 day or more) at Beresford (5 Brands, 8 hybrids).**

Hybrid Information			Measurements				
Brand	Hybrid	Relative Maturity	Yield Bu/A (15.5%)	Grain Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A x 1000)
DEKALB	DKC62-97RIB	112	<b>225.2</b>	19.2	59.5	1.7	25.4
NuTech/G2 Genetics	5Z-612	112	<b>216.8</b>	20.0	59.9	18.2	28.2
	<b>CHECK</b>	99	<b>216.6</b>	16.9	60.5	1.1	28.5
DEKALB	DKC63-33RIB	113	211.1	18.2	60.8	0.4	27.3
Channel	211-24STX	111	210.6	18.4	59.4	3.9	28.1
Wensman	W 7566VT3PRIB	111	209.1	18.7	56.5	3.6	27.6
Pioneer	P1151AM	111	204.8	18.4	60.8	5.1	27.7
DEKALB	DKC61-16RIB	111	203.7	18.0	60.3	3.1	27.6
Trial Average			212.2	18.5	59.7	4.6	27.5
LSD (0.05)†			13.3	0.7	0.9	3.8	1.1
C.V.‡			4.2	2.6	1.0	-	2.6

† Yield, moisture, test weight, lodging, and plant population value required ( $\geq$ LSD) to determine if hybrids are different from each other with confidence.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

\*Lodging percentage – stalks broken below the ear as a percentage of the final stand.

# ARCHIVE

**Nathan Mueller** | SDSU Extension Agronomist  
**Kevin Kirby** | Ag Research Manager/Specialist  
**Shawn Hawks** | Ag Research Manager/Specialist

Location: 1.5 miles west & 0.5 miles north of Geddes (57342) in Charles Mix County  
(GPS: UTM 14N, 527310 m East 4790375 m North)

Cooperator: Curtis Sybesma Farm

Soil Type: Highmore-Eakin silt loam, 0-2% slope, non-irrigated

Fertility-Yield Goal: 180 bu/ac, included starter fertilizer of 30-10-10 (N-P<sub>2</sub>O<sub>5</sub>-K<sub>2</sub>O lbs/ac)

Previous Crop: Soybean

Tillage: No-till

Row Spacing: 30 inches

Seeding Rate: 25,300/acre

Weed Management: Harness Extra – Pre, Glyphosate – Post

Date seeded/harvested: May 14/Nov. 8

# ARCHIVE

## 2013 Corn Hybrid Trial Results – Geddes

Table 1. Glyphosate-resistant corn hybrid performance results (average of 4 replications sorted by yield) – <b>Early Season Trial (105 day or less) at Geddes (6 Brands, 16 hybrids).</b>							
Hybrid Information			Measurements				
Brand	Hybrid	Relative Maturity	Yield Bu/A (15.5%)	Grain Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A x 1000)
Epley	E1438VIP	104	<b>232.0</b>	17.3	58.9	0.9	24.7
Channel	202-64STX	102	<b>227.9</b>	16.7	60.3	0.0	24.5
Pioneer	P0533AM1	105	<b>226.8</b>	17.2	60.3	0.0	24.2
DEKALB	DKC52-04RIB	102	<b>226.7</b>	16.9	60.9	0.5	24.6
Pioneer	P0193AM	101	<b>225.0</b>	15.8	58.2	0.0	23.8
NuTech/G2 Genetics	5H-905	105	<b>224.7</b>	15.7	59.4	0.0	24.9
DEKALB	DKC53-56RIB	103	<b>222.1</b>	16.6	60.3	0.0	24.1
Channel	203-44STX	103	<b>219.7</b>	17.0	59.8	0.0	24.7
Wensman	W 9325STXRIB	102	<b>219.4</b>	15.6	60.5	1.3	24.0
Wensman	W 91011STX	101	216.6	15.5	60.8	0.0	23.8
DEKALB	DKC48-12RIB	98	215.8	14.5	58.3	0.0	25.2
Pioneer	P0297XR	102	215.6	16.4	60.3	0.0	25.3
NuTech/G2 Genetics	5H-805	105	213.0	16.3	60.3	0.0	24.5
DEKALB	DKC49-29RIB	99	211.8	16.5	60.1	0.5	24.2
	<b>CHECK</b>	99	204.9	16.7	61.2	0.5	24.9
Channel	201-39STX	101	202.7	15.6	59.0	0.5	24.0
Trial Average			219.0	16.3	59.9	0.3	24.5
LSD (0.05)†			14.6	0.9	1.0	NS	NS
C.V.‡			4.7	4.0	1.2	-	3.1

† Yield, moisture, test weight, lodging, and plant population value required ( $\geq$ LSD) to determine if hybrids are different from each other with confidence.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

\*Lodging percentage – stalks broken below the ear as a percentage of the final stand.

## 2013 Corn Hybrid Trial Results – Geddes

Table 2. Glyphosate-resistant corn hybrid performance results (average of 4 replications sorted by yield) – **Late Season Trial (106 day or more) at Geddes (8 Brands, 25 hybrids).**

Hybrid Information			Measurements				
Brand	Hybrid	Relative Maturity	Yield Bu/A (15.5%)	Grain Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A x 1000)
Dairyland	DS-9610	110	<b>240.0</b>	19.9	57.8	1.7	25.3
NuTech/G2 Genetics	5Z-709	109	<b>236.8</b>	19.8	59.1	1.3	24.5
NuTech/G2 Genetics	5F-811	110	<b>227.4</b>	20.7	61.1	0.0	24.5
NuTech/G2 Genetics	5Z-109	109	<b>224.1</b>	20.5	60.3	2.7	24.3
NuTech/G2 Genetics	5H-610	110	224.0	20.5	59.5	9.0	24.3
Pioneer	P0876YHR	108	222.6	20.4	60.8	1.8	24.8
Channel	211-24STX	111	222.2	20.2	58.9	4.3	23.3
Renk	RK776VT3P	107	221.8	19.2	60.8	2.2	24.3
Pioneer	P0636HR	106	220.0	17.8	59.8	0.9	24.8
Renk	RK791SSTX	108	219.9	19.0	59.4	1.4	24.0
NuTech	5B-410	110	218.5	19.6	58.2	4.6	23.8
NuTech/G2 Genetics	5H-707	107	217.3	19.1	58.8	1.9	23.6
Dairyland	DS-9809RA	109	217.2	18.6	57.9	0.9	24.9
Wensman	W 7459VT3PRIB	107	217.0	20.0	57.6	0.5	22.9
NuTech/G2 Genetics	5Z-612	112	216.5	19.5	60.3	1.4	23.1
Pioneer	P1151AM	111	216.0	21.2	59.3	3.6	24.7
Wensman	W 7473VT3PRIB	109	214.9	18.2	55.2	0.5	23.1
NuTech/G2 Genetics	5F-008	108	214.0	20.3	60.6	1.3	24.8
Epley	E1804VT3PRO	108	209.4	19.5	59.7	3.9	24.4
NuTech/G2 Genetics	5H-806	106	207.9	18.2	59.7	0.5	23.1
Channel	209-53STX	109	205.6	20.5	59.3	5.8	21.3
Channel	208-49STX	108	203.8	18.9	60.5	2.6	25.0
	<b>CHECK</b>	99	202.4	17.3	59.8	0.5	24.0
Renk	RK797SSTX	109	201.8	17.9	59.9	0.0	23.7
Channel	206-78STX	106	199.8	18.0	60.1	1.0	23.0
Trial Average			216.8	19.4	59.4	2.2	24.0
LSD (0.05)†			16.5	1.8	1.2	4.1	1.2
C.V.‡			5.4	6.7	1.4	-	3.4

† Yield, moisture, test weight, lodging, and plant population value required ( $\geq$ LSD) to determine if hybrids are different from each other with confidence.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

\*Lodging percentage – stalks broken below the ear as a percentage of the final stand.

**Jonathan Kleinjan** | SDSU Crop Performance Testing Director  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 6 miles west and 3 miles south of Beresford (57432) in Clay county, SD  
(GPS: N 43°02.774' W 096°54.079')

Cooperator: SDSU Southeast Research Farm - Peter Sexton, manager

Soil Type: Egan-Clarno-Trent silty clay loam, 0-2% slope, non-irrigated

Fertilizer: 120-0-80 preplant; 30-10-10 starter; 60-0-0 sidedress

Yield Goal: 200 bu/acre

Previous crop: Soybeans

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: Glyphosate, Dual, Metribuzin, Sharpen  
Post: Atrazine, Callisto

Date seeded: 5/16/2014  
Date harvested: 10/26/2014

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Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (110 day maturity or less)** at Beresford, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Nutech/G2 Genetics	5F-709	109	<b>237.9</b>	19.3	58.1	0.0	28600
Nutech/G2 Genetics	5H-905	105	<b>235.7</b>	17.4	59.2	0.0	29000
Nutech/G2 Genetics	5F-805	105	<b>233.7</b>	18.0	59.9	0.0	28600
Channel	209-53STXRIB	109	<b>232.5</b>	19.7	59.3	0.0	28500
Renk	RK776SSTX	107	<b>232.2</b>	19.2	59.8	0.0	27100
Nutech/G2 Genetics	EXP 5Z-0906	109	<b>231.2</b>	18.0	60.1	0.0	28300
Renk	RK752SSTX	105	<b>230.7</b>	18.8	59.3	0.0	28900
Wensman	W 91073STXRIB	107	<b>230.4</b>	19.4	58.5	0.0	28700
REA Hybrids	6A071-RIB	107	<b>229.5</b>	19.1	58.0	0.4	28700
Titan Pro	2M04-2P	105	<b>229.4</b>	18.5	59.2	0.0	28700
Hoegemeyer	HPT 8066 AM	110	<b>229.3</b>	18.8	57.8	0.4	27300
Great Lakes Hybrids	5918STXRIB	109	<b>228.6</b>	18.4	57.9	0.0	28500
Dairyland Seed	DS-6805	105	<b>228.6</b>	18.5	57.5	0.0	29200
Hoegemeyer	HPT 7876AM	108	<b>228.4</b>	19.0	60.9	0.4	29200
Renk	RK712SSTX	106	<b>228.0</b>	18.5	59.4	0.0	29000
Renk	RK834SSTX	110	<b>227.4</b>	22.3	56.7	0.0	28300
Great Lakes Hybrids	6068STXRIB	110	<b>226.9</b>	19.3	58.6	0.0	27800
Wensman	W 91095STX	109	<b>226.5</b>	19.8	60.1	0.4	28300
Great Lakes Hybrids	5755STXRIB	107	<b>226.4</b>	18.9	58.2	0.0	28400
Titan Pro	2M07-SS	107	225.1	19.2	59.5	0.8	28600
Pioneer	P0533AM1	105	225.0	19.7	60.0	0.0	28900
Channel	209-46STXRIB	109	224.2	19.0	59.0	0.0	29300
Nutech/G2 Genetics	5D-109	109	223.7	20.6	60.0	0.0	27700
Legend Seeds	LR 9405 GENSSRIB	105	222.2	18.4	59.0	0.4	28900
Dairyland Seed	DS-9305	105	221.6	18.6	58.1	0.4	29500
Nutech/G2 Genetics	5F-008	108	221.1	18.7	60.7	0.0	27700
Nutech/G2 Genetics	5H-806	106	219.8	18.0	59.7	0.0	26700
Pioneer	P0636AM	106	219.4	18.0	58.9	0.0	28500
Wensman	W 7330VT3PRIB	103	219.0	16.8	56.4	0.0	28400
Legend Seeds	LR DG9502 VT2PRIB	102	216.4	16.0	58.6	0.4	27900
<b>Trial Average</b>			220.2	18.5	58.9	0.1	28100
<b>LSD (0.05)†</b>			12.1	0.6	1.0	0.5	1100
<b>C.V.‡</b>			3.9	2.4	1.2	-	2.7

\* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (110 day maturity or less)** at Beresford, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Hoegemeyer	HPT 7644 HX/LL/RR	106	216.1	18.2	59.0	0.0	29000
Wensman	W 91051STX	105	215.1	18.2	61.0	0.0	29000
Dairyland Seed	DS-6905	105	215.1	19.4	57.8	0.0	28300
Check	CHECK	99	214.9	16.7	60.4	0.0	29300
Renk	RK699SSTX	105	214.9	18.2	59.6	0.0	27300
Titan Pro	TP 39-05 SS	102	214.7	18.5	59.4	0.4	29100
Wensman	W 7473VT3PRIB	109	214.0	17.6	55.5	0.0	25300
Nutech/G2 Genetics	5V-0705	107	213.4	20.3	56.9	0.0	27600
Pioneer	P0876AM	108	213.0	19.3	61.0	0.0	28900
Hoegemeyer	HPT 7541 HX/LL/RR	105	212.5	17.8	59.9	0.0	27700
Masters Choice	MCT 527 VIPTERA 3111	105	211.5	16.2	57.7	0.4	26400
Channel	205-19STXRIB	95	210.4	17.1	58.8	0.0	27400
Masters Choice	MCT 5663	106	209.4	17.7	57.9	0.0	26900
Legend Seeds	LR 9410 GENSSRIB	110	208.8	18.5	58.9	0.0	28400
Wensman	W 9325STXRIB	102	208.7	17.1	59.3	0.0	27300
Nutech/G2 Genetics	5Z-707	107	203.9	17.9	58.0	0.4	25400
Masters Choice	MCT 5375	103	203.3	18.1	59.6	0.0	26600
Dairyland Seed	DS-9307SSX	107	203.3	17.9	59.1	0.4	28000
Legend Seeds	47J104-3122	104	201.2	18.6	59.7	0.0	26500
Channel	206-55STXRIB	106	196.2	17.9	58.3	0.0	26700
<b>Trial Average</b>			220.2	18.5	58.9	0.1	28100
<b>LSD (0.05)†</b>			12.1	0.6	1.0	0.5	1100
<b>C.V.‡</b>			3.9	2.4	1.2	-	2.7

\* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - Late **Season Trial (111 day maturity or more)** at Beresford, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Pioneer	P1197AM	111	<b>233.4</b>	18.5	59.5	0.0	28400
Titan Pro	TP 39-11 SS	111	<b>224.0</b>	22.2	57.6	0.4	26100
Nutech/G2 Genetics	5F-811	111	<b>222.4</b>	20.7	60.3	0.0	25800
REA Hybrids	7A111-RIB	111	<b>221.7</b>	18.2	60.1	0.0	27300
Nutech/G2 Genetics	5Z-111	111	<b>221.6</b>	19.0	59.0	0.0	28400
Channel	211-24STXRIB	111	220.4	18.5	59.7	0.4	28600
Renk	RK860VT3P	111	219.5	19.1	60.4	0.0	26500
Pioneer	P1498AM	114	219.3	20.7	59.9	0.0	28200
Pioneer	P1151AM	111	218.2	20.4	60.1	0.0	27200
REA Hybrids	7A112-RIB	111	218.0	21.2	57.5	0.0	27300
Check	CHECK	99	210.6	16.7	60.6	0.0	28400
Wensman	W 7566VT3PRIB	111	209.6	18.9	56.3	0.4	25200
Channel	211-35STXRIB	111	208.6	19.8	59.8	0.0	26100
Channel	213-28STXRIB	113	198.1	20.8	58.3	0.0	19700
<b>Trial Average</b>			217.5	19.6	59.2	0.1	26700
<b>LSD (0.05)†</b>			12.7	0.8	0.9	0.5	1600
<b>C.V.‡</b>			4.1	2.8	1.1	-	4.2

\* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.



**Jonathan Kleinjan** | SDSU Crop Performance Testing Director  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 3 miles south and 1 mile east of Bath (57427) in Brown county, SD  
(GPS: N 45°25.187' W 098°18.480')

Cooperator: Gordon and Roger Locken Farms

Soil Type: Great Bend silt loam, 0-2% slope, non-irrigated

Fertilizer: Variable-applied preplant; 30-10-10 starter

Yield Goal: 200 bu/acre

Previous crop: Soybeans

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: none  
Post: Harness & Glyphosate (early post), Glyphosate

Date seeded: 5/20/2014  
Date harvested: 10/28/2014

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Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (95 day maturity or less)** at Bath, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Peterson Farms Seed	81W95	95	<b>211.2</b>	16.8	56.1	0.4	28900
<b>Check</b>	<b>CHECK</b>	99	<b>209.2</b>	17.3	57.5	0.0	29600
REA Hybrids	4V953-RIB	95	<b>202.8</b>	15.4	56.7	0.8	28900
Great Lakes Hybrids	4548STXRIB	95	<b>202.7</b>	16.9	58.2	0.7	29100
Federal Hybrids	4240 VT2P RIB	92	<b>202.3</b>	17.3	57.0	0.0	30100
Peterson Farms Seed	76S92	92	200.5	17.1	55.9	0.7	29700
Nuseed	9304 VT2P	93	199.8	17.4	57.1	1.1	29300
Pioneer	P9538AMXT	95	199.1	16.7	56.9	0.0	25600
Wensman	W 90941STX	94	198.0	16.2	55.5	1.5	29100
Peterson Farms Seed	73D91	91	197.9	16.0	57.3	0.0	27800
Federal Hybrids	4550 SSTAX	95	197.6	15.8	55.5	0.0	29700
Pioneer	P9526AMX	95	197.3	16.9	57.2	0.8	28700
REA Hybrids	3B922-RIB	92	195.7	16.0	56.9	0.0	28600
Wensman	W 80952VT2RIB	95	194.5	16.4	55.4	1.1	29400
Channel	195-58STXRIB	95	194.3	16.0	55.5	0.0	28400
Peterson Farms Seed	75T93	93	193.8	17.0	57.9	2.2	29100
Great Lakes Hybrids	4250STXRIB	92	193.5	16.6	54.5	0.4	28400
Nuseed	9001 VP3220	90	193.2	16.3	53.6	0.4	27700
REA Hybrids	4B285-RIB	93	192.7	15.5	56.0	0.4	29400
Renk	RK522SSTX	94	191.9	16.8	57.2	0.8	26800
Nutech/G2 Genetics	5V-195	95	190.6	17.3	54.5	0.0	28900
Federal Hybrids	4520 VT3P RIB	95	190.3	16.7	58.2	0.0	29900
REA Hybrids	3A929-RIB	92	189.9	16.6	56.5	0.7	29200
Nuseed	9504 VT3P RIB	95	189.6	16.9	57.6	0.0	26500
Dairyland Seed	DS-9093	93	188.3	19.2	55.7	0.0	29000
Channel	190-13VT2PRIB	90	188.1	14.9	57.7	0.0	27800
Wensman	W 90935STXRIB	93	188.1	16.8	58.4	0.0	28700
Dairyland Seed	DS-9791RA	91	187.5	17.2	55.9	0.0	29100
Nutech/G2 Genetics	5X-894	94	187.2	16.3	56.9	0.4	27600
Nuseed	9202 VT2P RIB	92	187.0	16.0	57.2	0.0	28200
<b>Trial Average</b>			193.1	16.7	56.7	0.5	28400
<b>LSD (0.05)†</b>			9.9	0.5	1.1	1.2	1100
<b>C.V.‡</b>			3.7	2.6	1.4	-	2.8

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (95 day maturity or less)** at Bath, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Channel	191-87STXRIB	91	186.2	16.4	57.8	0.0	27200
Nuseed	9505 VT2P RIB	95	185.2	16.7	58.9	0.4	26800
Renk	RK568VT3P	95	185.0	16.6	57.9	0.0	28600
Renk	RK557SSTX	95	182.1	16.9	55.4	0.0	27600
Proseed	1295 SS	95	181.7	18.4	57.6	0.4	26700
Wensman	W 90910STXRIB	91	177.9	17.8	57.7	3.0	25600
<b>Trial Average</b>			193.1	16.7	56.7	0.5	28400
<b>LSD (0.05)†</b>			9.9	0.5	1.1	1.2	1100
<b>C.V.‡</b>			3.7	2.6	1.4	-	2.8

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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Table 2a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (96 day maturity or more)** at Bath, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Wensman	W 90979STX	97	<b>209.7</b>	17.1	56.3	1.2	28400
Pioneer	P9917AMX	99	<b>207.4</b>	17.5	57.7	0.0	29200
<b>Check</b>	<b>CHECK</b>	99	<b>206.4</b>	17.3	58.0	0.0	29200
Nutech/G2 Genetics	5F-198	98	<b>205.8</b>	14.4	54.0	0.0	29000
Pioneer	P0297AMX	102	<b>204.8</b>	19.5	54.2	0.4	28400
Channel	197-68STXRIB	97	<b>204.0</b>	17.2	56.0	0.4	29000
Pioneer	P9703AMX	97	<b>203.6</b>	17.4	54.6	1.6	27900
Federal Hybrids	4640 VT3P RIB	96	<b>203.2</b>	17.3	57.1	0.4	29000
Nutech/G2 Genetics	5F-399	99	<b>201.8</b>	16.6	54.2	0.0	28100
Federal Hybrids	5245 VT2P RIB	102	<b>199.8</b>	20.5	53.4	0.8	28300
Nutech/G2 Genetics	5Y-196	96	197.8	14.7	54.5	0.0	27700
REA Hybrids	4A972-RIB	97	197.7	16.2	55.6	0.0	27200
Proseed	1399A GT3000	99	197.6	18.2	54.5	1.6	27300
REA Hybrids	4A974-RIB	97	197.3	17.2	56.1	0.0	29100
Great Lakes Hybrids	5015STXRIB	100	197.2	17.1	55.9	0.0	28900
Peterson Farms Seed	55S96	96	197.1	17.0	56.6	0.4	28000
Wensman	W 70975VT3PRIB	97	196.5	16.8	56.8	1.1	29200
Nuseed	3014 VT2P	101	196.5	17.5	56.0	0.0	28000
REA Hybrids	5A992-RIB	99	195.2	17.1	53.7	0.4	28700
Proseed	13101 SS RIB	101	195.1	17.9	54.4	0.0	27900
Pioneer	P0193AM	101	195.0	17.6	53.4	0.0	27600
Federal Hybrids	5240 SSTAX RIB	102	194.7	18.4	54.1	0.0	27000
Wensman	W 9288STXRIB	98	194.3	18.0	54.6	0.4	28100
Great Lakes Hybrids	4879STXRIB	98	194.1	17.7	54.9	0.0	25400
Nutech/G2 Genetics	5F-200	100	192.9	18.0	56.2	0.0	27900
Renk	RK596SSTX	98	191.6	17.3	55.9	1.6	28200
Nuseed	9904 VT2P	99	190.7	17.4	53.9	1.6	28100
Proseed	1396 VT3P RIB	96	190.5	16.7	56.6	0.0	27800
Nutech/G2 Genetics	5X-698	98	189.5	16.8	55.6	0.4	28600
Peterson Farms Seed	88A97	97	186.9	17.1	55.1	0.0	29100
<b>Trial Average</b>			195.3	17.4	55.3	0.5	28100
<b>LSD (0.05)†</b>			11.3	0.5	1.0	1.3	1200
<b>C.V.‡</b>			4.1	2.2	1.3	-	3

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Late Season Trial (96 day maturity or more)** at Bath, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Dairyland Seed	DS-9900SSX	100	186.6	18.5	50.7	6.2	27900
REA Hybrids	4A654-RIB	96	186.5	17.6	55.5	0.0	28300
Wensman	W 90967STXRIB	96	186.4	17.4	56.2	0.0	27300
Dairyland Seed	DS-9796	96	185.9	17.0	56.6	0.4	27100
Peterson Farms Seed	84Y01	101	185.3	18.2	54.8	0.0	28000
Proseed	PX 96 SS RIB	97	184.3	17.0	56.2	1.2	27100
REA Hybrids	5A993-RIB	99	176.3	17.7	57.0	0.4	28100
<b>Trial Average</b>			195.3	17.4	55.3	0.5	28100
<b>LSD (0.05)†</b>			11.3	0.5	1.0	1.3	1200
<b>C.V.‡</b>			4.1	2.2	1.3	-	3

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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**Jonathan Kleinjan** | SDSU Crop Performance Testing Director  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 1.5 miles south of Volga (57101) in Brookings County, SD  
(GPS: N 44°17.926' W 096°55.268')

Cooperator: SDSU Volga Research Farm - Jack Ingemansen, manager

Soil Type: Brandt silty clay loam, 0-2% slope

Fertilizer: 180-40-40 preplant; 30-10-10 starter

Yield Goal: 200 bu/ac

Previous crop: Spring wheat

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: Surpass  
Post: None

Date seeded: 5/17/2014  
Date harvested: 10/31/2014

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Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Volga, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Channel	197-68STXRIB	97	<b>241.1</b>	18.1	56.5	0.0	29400
Wensman	W 90979STX	97	<b>238.4</b>	17.3	58.0	0.0	29400
REA Hybrids	5A992-RIB	99	<b>235.3</b>	16.8	56.2	0.4	29400
Federal Hybrids	5050 SSTAX	100	<b>232.4</b>	16.5	57.6	0.0	29700
Wensman	W 9288STXRIB	98	<b>230.4</b>	18.0	57.2	0.4	29000
Peterson Farms Seed	81W95	95	<b>230.2</b>	16.8	56.5	0.0	29200
Pioneer	P9917AMX	99	228.9	17.7	57.4	0.7	29500
Federal Hybrids	4550 SSTAX	95	228.8	16.4	56.1	0.0	29300
Hoegemeyer	HPT 6621 YXR	96	228.2	15.8	56.2	1.9	29100
<b>Check</b>	<b>CHECK</b>	99	227.5	18.4	57.6	0.0	28100
Wensman	W 90941STX	94	227.5	15.9	58.9	1.1	29900
Golden Harvest	G99Z33-3011A	99	227.4	18.2	55.4	0.0	28000
Hoegemeyer	HPT 6799 HXT/LL/RR	97	227.0	17.8	57.4	2.6	29500
Renk	RK605SSTX	100	226.8	16.8	57.8	0.0	29300
Great Lakes Hybrids	5015STXRIB	100	226.7	17.5	57.6	0.4	29800
Nutech/G2 Genetics	5F-399	99	226.3	16.8	55.7	0.0	28700
Nutech/G2 Genetics	5F-200	100	225.2	17.7	57.6	0.8	29000
Nuseed	9904 VT2P	99	224.4	16.5	56.8	0.4	28900
Proseed	1396 VT3P RIB	96	224.3	16.8	57.1	0.7	30100
Golden Harvest	G98Y58-3000GT	98	224.2	17.6	54.5	0.7	28700
Federal Hybrids	4840 SSTAX RIB	98	223.9	16.8	59.4	1.1	29500
Wensman	W 70975VT3PRIB	97	222.6	16.6	57.7	0.0	29700
Masters Choice	MCT 4884	98	222.5	19.2	57.0	1.9	28600
Great Lakes Hybrids	4879STXRIB	98	221.4	17.9	56.3	0.0	27400
Channel	200-48STXRIB	100	220.4	18.1	57.8	0.0	28300
Proseed	1399A GT3000	99	219.2	18.6	57.0	0.8	28000
Wensman	W 7290VT3PRIB	99	219.0	17.0	59.7	0.4	29000
Pioneer	P9703AMX	97	218.8	18.3	57.7	0.0	29300
Peterson Farms Seed	73D91	91	218.5	15.4	56.0	0.4	29100
Peterson Farms Seed	76S92	92	218.4	17.3	58.5	0.4	29500
<b>Trial Average</b>			220.6	17.3	57.1	0.5	28900
<b>LSD (0.05)†</b>			11.0	0.6	1.2	1.5	1200
<b>C.V.‡</b>			3.6	2.3	1.6	-	3.0

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Volga, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Proseed	PX 96 SS RIB	96	217.1	17.6	58.3	1.5	28500
Renk	RK596SSTX	98	217.1	17.4	56.8	0.0	28300
Peterson Farms Seed	55S96	96	216.2	17.5	58.3	0.4	27900
REA Hybrids	4A972-RIB	97	216.1	16.5	56.1	0.0	29400
Nuseed	9504 VT3P RIB	95	215.1	17.5	58.4	0.0	27100
Peterson Farms Seed	75T93	93	215.0	16.7	57.5	0.0	29100
Titan Pro	TP 39-98 SS	98	214.1	17.2	56.7	0.4	29000
Federal Hybrids	4240 VT3P	92	214.0	17.0	59.0	0.0	29000
REA Hybrids	4A974-RIB	97	213.6	18.2	58.3	0.4	29100
Nuseed	9505 VT2P	95	213.4	16.9	57.6	0.0	28100
Wensman	W 90967STXRIB	96	213.1	17.4	57.0	0.4	28700
Pioneer	P9526AMX	95	213.0	17.5	57.8	0.0	28500
Dairyland Seed	DS-9900SSX	100	212.5	17.9	53.3	2.7	28400
REA Hybrids	5A993-RIB	99	212.1	18.0	57.4	0.4	29000
Nutech/G2 Genetics	5X-698	98	211.0	16.4	57.4	1.8	30200
Dairyland Seed	DS-9796	96	209.1	16.9	56.2	2.2	29500
Dairyland Seed	DS-9093	93	203.8	18.4	55.5	0.0	28900
Peterson Farms Seed	88A97	97	202.5	16.6	55.2	0.0	28500
Renk	RK581SSTX	100	197.5	18.9	57.4	0.4	27200
<b>Trial Average</b>			220.6	17.3	57.1	0.5	28900
<b>LSD (0.05)†</b>			11.0	0.6	1.2	1.5	1200
<b>C.V.‡</b>			3.6	2.3	1.6	-	3.0

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.



Table 2a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (101 day maturity or more)** at Volga, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
REA Hybrids	6A032-RIB	103	<b>240.6</b>	18.1	56.0	0.0	29400
REA Hybrids	5A029-RIB	102	<b>238.2</b>	17.8	55.8	0.0	28600
Federal Hybrids	5140 SSTAX RIB	101	<b>236.5</b>	17.8	56.2	0.0	29000
Great Lakes Hybrids	5283STXRIB	102	<b>235.6</b>	18.6	55.1	0.0	28000
Nuseed	3014 VT2P	101	<b>232.7</b>	17.7	56.9	0.8	29000
Pioneer	P0193AM	101	229.4	17.1	55.4	0.4	28400
Proseed	13101 SS	101	227.2	17.4	56.7	0.0	28700
Hoegemeyer	HPT 7278 HXT/LL/RR	102	226.8	17.2	58.3	1.1	28900
Wensman	W 91011STXRIB	101	226.5	18.1	57.5	0.0	28400
<b>Check</b>	<b>CHECK</b>	99	226.4	18.1	57.6	1.2	28300
Pioneer	P0533AM1	105	225.7	20.9	56.9	0.0	29100
Titan Pro	TP 39-02 SS	102	225.7	18.4	54.9	0.0	29200
Channel	201-39STXRIB	101	225.3	18.1	55.7	0.0	29400
Federal Hybrids	5240 SSTAX RIB	102	225.0	18.8	56.0	0.8	28700
Wensman	W 9325STXRIB	102	224.9	18.0	56.8	0.0	26700
Masters Choice	MCT 5375	103	224.5	19.2	57.5	0.0	28100
Nutech/G2 Genetics	EXP 5Z-0106	101	224.4	17.7	56.0	0.0	26800
Golden Harvest	G02W74-3000GT	102	223.8	18.4	56.0	0.0	28900
Nutech/G2 Genetics	5H-806	106	223.5	18.5	57.1	0.0	27400
Renk	RK666SSTX	102	223.1	18.7	55.5	0.4	28600
Nutech/G2 Genetics	5Z-002	102	220.8	18.2	57.2	5.9	27800
Titan Pro	2M04-2P	104	220.3	20.4	53.8	0.4	28300
Channel	203-88STXRIB	103	219.3	16.8	55.3	0.4	27400
Titan Pro	TP 31-01 3011A	101	219.1	17.3	58.4	0.0	29100
Masters Choice	MCT 5663	106	216.9	17.9	56.3	0.0	28300
Nutech/G2 Genetics	5H-905	105	215.3	18.5	54.4	0.0	29300
Golden Harvest	G01P52-3011A	101	215.3	17.5	57.9	0.0	28200
Channel	202-64STXRIB	102	215.2	17.8	57.0	0.0	29500
Pioneer	P0297AMX	102	215.2	19.7	55.1	0.0	28700
Nutech/G2 Genetics	5H-502	102	214.8	17.6	57.6	0.7	28100
<b>Trial Average</b>			221.0	18.1	56.2	0.6	28300
<b>LSD (0.05)†</b>			10.2	0.6	1.0	1.1	1300
<b>C.V.‡</b>			1.4	2.2	1.3	-	3.2

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Late Season Trial (101 day maturity or more)** at Volga, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Titan Pro	TP 39-05 SS	105	213.3	19.1	56.0	0.8	28200
Titan Pro	TP 35-01 2P	101	210.5	16.7	56.3	0.0	28300
Hoegemeyer	HPT 7103 HXT/LL/RR	101	208.4	17.0	53.2	0.0	28500
Peterson Farms Seed	84Y01	101	208.1	18.6	56.1	0.0	28200
Great Lakes Hybrids	5428STXRIB	104	207.3	18.5	56.5	0.0	28000
Masters Choice	MCT 527 Viptera 3111	105	206.5	17.1	54.0	9.9	25500
Nutech/G2 Genetics	5F-805	105	203.4	18.5	55.2	0.0	26600
Hoegemeyer	EXP 7166 YHR	102	198.4	17.4	57.1	0.0	26800
<b>Trial Average</b>			221.0	18.1	56.2	0.6	28300
<b>LSD (0.05)†</b>			10.2	0.6	1.0	1.1	1300
<b>C.V.‡</b>			1.4	2.2	1.3	-	3.2

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

**Jonathan Kleinjan** | SDSU Crop Performance Testing Director  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 2 miles east and 3/4 mile north of Geddes (57432) in Charles Mix County, SD  
(GPS: N 43°15.997' W 098°39.898')

Cooperator: Curtis Sybesma

Soil Type: Highmore-Eakin silt loam, 0-2% slope

Fertilizer: Variable-applied preplant; 30-10-10 starter

Yield Goal: 170 bu/acre

Previous crop: Winter Wheat

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 27,000/acre

Herbicide: Pre: Harness, Glyphosate, 2,4-D  
Post: Glyphosate

Date seeded: 5/15/2014

Date harvested: 11/4/2014

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Table 1. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (105 day maturity or less)** at Geddes, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Nuseed	3051 GT	105	<b>173.1</b>	16.0	59.9	1.5	22000
Channel	202-64STXRIB	102	<b>173.0</b>	16.4	60.7	0.4	24100
Hoegemeyer	HPT 7541 HX/LL/RR	105	<b>171.3</b>	17.9	59.4	0.5	21900
Wensman	W 7330VT3PRIB	103	<b>170.0</b>	16.1	58.3	1.1	20500
Pioneer	P0193AM	101	<b>169.6</b>	17.1	56.9	0.5	22000
Wensman	W 91011STXRIB	101	<b>169.5</b>	15.7	60.5	0.5	23500
Dairyland Seed	DS-6805	105	<b>169.4</b>	16.7	58.6	1.3	24200
Nutech/G2 Genetics	5H-905	105	<b>168.6</b>	16.9	56.8	0.5	23500
Pioneer	P0533AM1	105	<b>168.0</b>	19.4	60.7	0.4	24100
Channel	205-19STXRIB	105	<b>167.1</b>	16.6	59.1	1.0	20800
Channel	203-88STXRIB	103	<b>166.7</b>	16.5	58.6	0.5	21700
Wensman	W 91051STX	105	<b>165.9</b>	18.7	60.9	1.5	22000
Titan Pro	2M04-2P	104	<b>165.9</b>	20.7	58.5	0.9	24100
Pioneer	P0297AMX	102	<b>165.4</b>	18.4	58.0	0.4	24300
REA Hybrids	6A032-RIB	103	<b>164.7</b>	16.8	61.1	0.0	23000
Hoegemeyer	HPT 7278 HX/LL/RR	102	<b>164.2</b>	16.8	60.5	0.0	22300
Dairyland Seed	DS-6905	105	<b>164.1</b>	19.3	58.6	0.5	22200
<b>Check</b>	<b>CHECK</b>	99	<b>164.0</b>	16.4	59.7	1.0	22300
Renk	RK699SSTX	105	<b>163.0</b>	19.1	61.1	0.9	23300
Renk	RK752SSTX	105	<b>162.9</b>	17.7	61.0	0.0	23100
Channel	200-48STXRIB	100	<b>162.3</b>	16.5	59.6	0.5	22300
Federal Hybrids	5240 SSTAX RIB	101	161.4	16.4	60.4	2.4	22100
Nutech/G2 Genetics	5F-805	105	161.1	17.1	60.2	0.0	21800
Federal Hybrids	5050 SSTAX	100	160.8	15.8	60.8	0.5	21700
Federal Hybrids	5140 SSTAX RIB	101	159.1	15.6	60.3	0.9	24700
Titan Pro	TP 39-05 SS	105	159.0	18.9	60.9	0.9	24500
Hoegemeyer	EXP 7166 YHR	102	155.6	16.0	59.8	0.5	22000
Nuseed	3012 GTA	101	153.5	15.4	61.0	1.4	23500
Nuseed	3014 VT2P	101	151.9	15.7	60.5	0.5	23700
Wensman	W 9325STXRIB	102	151.6	16.8	60.5	0.5	20600
Channel	201-39STXRIB	101	148.8	15.4	59.2	0.0	23000
Dairyland Seed	DS-9305	105	148.5	19.0	59.5	1.8	24100
<b>Trial Average</b>			163.1	17.1	59.7	0.7	22800
<b>LSD (0.05)†</b>			11.5	0.9	0.9	1.9	1200
<b>C.V.‡</b>			5.0	3.6	1.1	-	3.8

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (106 day maturity or more)** at Geddes, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Nutech/G2 Genetics	5Z-111	111	<b>183.3</b>	19.6	59.5	1.0	22000
Pioneer	P0636AM	106	<b>180.4</b>	18.1	59.3	0.0	22000
Wensman	W 91095STX	109	<b>178.7</b>	18.7	62.4	0.0	22500
Hoegemeyer	HPT 7876	108	<b>178.3</b>	18.2	60.8	0.9	23300
Channel	209-53STXRIB	109	<b>177.6</b>	21.4	59.2	0.5	23000
REA Hybrids	6A071-RIB	107	<b>177.1</b>	19.4	60.3	0.5	23400
Pioneer	P0876AM	108	<b>176.5</b>	19.2	62.5	0.0	21600
Hoegemeyer	HPT 7644 HX/LL/RR	106	<b>175.2</b>	18.2	60.2	0.0	21100
Nutech/G2 Genetics	EXP 5Z-0906	109	<b>174.2</b>	19.1	60.8	1.0	21600
Nutech/G2 Genetics	5V-0705	107	<b>173.3</b>	19.8	59.7	0.5	22500
Nutech/G2 Genetics	5F-709	109	<b>172.3</b>	20.3	58.1	1.0	21800
REA Hybrids	7A112-RIB	112	<b>170.0</b>	21.5	60.1	0.5	22700
Renk	RK834SSTX	110	169.7	23.0	56.4	2.4	22500
Nutech/G2 Genetics	5F-008	108	169.6	18.5	60.0	0.5	21200
Hoegemeyer	HPT 8066 AM	110	169.2	21.1	58.1	2.0	21600
Nutech/G2 Genetics	5Z-707	107	168.5	17.6	59.1	0.0	19300
Nutech/G2 Genetics	5D-109	109	166.1	19.7	61.4	1.1	20100
Pioneer	P1151AM	111	165.2	21.3	59.9	2.5	22500
Renk	RK860VT3P	111	165.2	20.4	60.6	1.5	21900
Great Lakes Hybrids	5755STXRIB	107	164.4	18.3	59.4	0.5	21700
Great Lakes Hybrids	6068STXRIB	110	164.1	18.2	62.0	0.0	22300
Wensman	W 91073STXRIB	107	161.9	19.0	59.4	0.0	21900
Channel	206-55STXRIB	106	161.8	17.7	60.9	2.9	19100
<b>Check</b>	<b>CHECK</b>	99	161.5	16.3	61.0	0.5	22300
Channel	209-46STXRIB	109	161.4	18.6	61.1	3.2	23800
Nutech/G2 Genetics	5H-806	106	160.0	18.0	60.3	0.6	21100
Renk	RK776SSTX	107	159.9	19.1	60.2	0.9	22700
Titan Pro	TP 39-11 SS	111	159.0	23.1	55.3	1.4	22700
REA Hybrids	7A111-RIB	111	157.9	18.3	61.2	1.4	22900
Dairyland Seed	DS-9307SSX	107	154.0	17.7	61.6	1.9	22800
<b>Trial Average</b>			166.3	19.3	60.1	0.9	21900
<b>LSD (0.05)†</b>			13.5	1.0	1.0	2.4	1500
<b>C.V.‡</b>			5.8	3.9	1.1	-	4.8

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Late Season Trial (106 day maturity or more)** at Geddes, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Titan Pro	2M07-SS	107	152.0	18.3	61.7	0.0	22500
Great Lakes Hybrids	5918STXRIB	109	151.6	19.5	60.7	0.5	20600
Renk	RK712SSTX	106	150.5	19.3	61.4	1.0	21700
Nutech/G2 Genetics	5F-811	111	147.4	22.1	59.0	0.0	19900
<b>Trial Average</b>			166.3	19.3	60.1	0.9	21900
<b>LSD (0.05)†</b>			13.5	1.0	1.0	2.4	1500
<b>C.V.‡</b>			5.8	3.9	1.1	-	4.8

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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**Jonathan Kleinjan** | SDSU Crop Performance Testing Director  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 8.5 miles west of South Shore (57263) in Codington County, SD  
(GPS: N 45°06.368' W 097°06.120')

Cooperator: SDSU Northeast Research Farm - Allen Heuer, manager

Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slope

Fertilizer: 150-100-50 preplant incorporated; 30-10-10 starter

Yield Goal: 200 bu/acre

Previous crop: Spring Wheat

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: Dual II  
Post: Glyphosate

Date seeded: 5/19/2014  
Date harvested: 10/30/2014

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Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (95 day maturity or less)** at South Shore, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Titan Pro	2M91-2P	91	<b>234.6</b>	16.9	56.7	0.0	29500
Nuseed	9001 VP3220	90	<b>233.7</b>	17.0	55.6	0.4	29700
REA Hybrids	4V953-RIB	95	<b>232.1</b>	17.3	55.8	0.0	29900
Titan Pro	2M95-2P	95	<b>229.3</b>	18.8	56.9	0.0	29800
Peterson Farms Seed	81W95	95	<b>229.0</b>	18.2	54.7	0.0	28500
Federal Hybrids	4240 VT2P RIB	92	<b>227.5</b>	18.6	56.6	0.0	30100
Great Lakes Hybrids	4548STXRIB	95	<b>226.7</b>	18.0	55.2	0.0	29700
Wensman	W 90935STXRIB	93	<b>226.6</b>	18.1	56.9	0.4	27600
REA Hybrids	3A929-RIB	92	<b>226.3</b>	18.5	55.0	0.0	29700
Wensman	W 90941STX	94	<b>226.2</b>	16.7	55.7	0.0	28400
Golden Harvest	G92T43-3111	92	225.0	16.3	54.0	0.7	28900
Nuseed	9202 VT2P	92	224.7	16.9	55.4	0.4	28100
Peterson Farms Seed	73D91	91	224.5	17.0	56.3	0.0	28400
Nuseed	9304 VT2P	93	223.7	18.9	56.5	0.0	28900
Masters Choice	MCT 4054	90	223.5	16.2	53.3	2.0	28000
<b>Check</b>	<b>CHECK</b>	99	223.5	19.4	56.0	0.0	29400
Nutech	5V-195	95	223.2	18.0	53.7	0.4	29700
Nuseed	9505 VT2P RIB	95	222.5	18.5	56.3	0.0	29200
Peterson Farms Seed	76S92	92	222.2	18.6	56.9	0.4	29400
Peterson Farms Seed	75T93	93	221.4	18.7	57.1	0.4	29100
Federal Hybrids	4550 SSTAX	95	220.4	17.8	55.1	0.0	29100
REA Hybrids	3B922-RIB	92	220.2	17.7	56.4	0.0	29300
Pioneer	P9526AMX	95	220.2	18.9	56.8	0.0	29100
Renk	RK522SSTX	94	219.6	18.3	54.0	0.0	28400
Channel	190-13VT2PRIB	90	219.6	17.7	55.4	0.0	28700
REA Hybrids	4B285-RIB	93	219.6	17.3	55.5	0.8	28900
Golden Harvest	G93H90-3000GT	93	219.2	17.1	54.0	0.8	27700
Federal Hybrids	4520 VT3P RIB	95	218.9	17.9	55.6	0.4	29600
Renk	RK568VT3P	95	218.8	18.8	57.0	1.1	29200
Nuseed	9504 VT3P RIB	95	217.5	19.1	55.5	0.0	25900
<b>Trial Average</b>			220.2	18.1	55.5	0.3	28700
<b>LSD (0.05)†</b>			9.4	0.6	0.8	1.2	1300
<b>C.V.‡</b>			3.0	2.4	1.1	-	3.3

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.



Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (95 day maturity or less)** at South Shore, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Channel	195-58STXRIB	95	216.8	18.3	56.7	0.0	28100
Channel	191-87STXRIB	91	216.8	18.3	56.6	0.0	28600
Wensman	W 7140VT3PRIB	93	216.2	18.8	57.3	0.4	27800
Masters Choice	MCT 4211	92	214.8	17.7	55.4	1.5	28200
Dairyland Seed	DS-9791RA	91	214.2	18.7	54.4	0.0	29000
Pioneer	P9538AMXT	95	213.2	19.1	54.8	0.0	27200
Proseed	1295 SS	95	210.6	20.6	56.4	0.4	27200
Masters Choice	MCT 4564	95	209.9	17.6	53.8	1.2	28700
Dairyland Seed	DS-9093	93	207.1	21.4	52.4	0.0	29100
Dairyland Seed	DS-9487RA	87	204.8	17.1	54.8	0.0	28400
Renk	RK557SSTX	95	203.0	18.9	53.9	0.0	27800
Nutech/G2 Genetics	5X-894	94	200.1	17.3	56.1	1.2	27900
<b>Trial Average</b>			220.2	18.1	55.5	0.3	28700
<b>LSD (0.05)†</b>			9.4	0.6	0.8	1.2	1300
<b>C.V.‡</b>			3.0	2.4	1.1	-	3.3

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (96 day maturity or more)** at South Shore, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Channel	197-68STXRIB	97	<b>232.9</b>	19.0	54.4	0.0	28900
Federal Hybrids	4640 VT3P RIB	96	<b>226.7</b>	18.7	57.3	0.0	28200
Pioneer	P0297AMX	102	<b>226.2</b>	23.0	53.3	0.0	29500
Proseed	1399A GT3000	99	<b>224.2</b>	21.3	52.8	0.0	26800
Nuseed	3014 VT2P	101	<b>223.6</b>	19.2	53.6	0.0	29400
Wensman	70975VT3PRIB	97	<b>223.5</b>	18.2	56.1	0.0	29000
Pioneer	P9917AMX	99	<b>223.3</b>	19.8	55.7	0.0	29300
Wensman	90979STX	97	222.1	18.1	53.6	0.0	27900
REA Hybrids	5A992-RIB	99	221.9	19.2	52.4	0.0	28900
<b>Check</b>	<b>CHECK</b>	99	221.5	19.7	56.0	0.0	29300
Wensman	9288STXRIB	98	221.5	19.5	52.3	0.0	29100
Golden Harvest	G99Z33-3011A	99	221.3	21.0	52.1	0.0	25900
Pioneer	P9703AMX	97	221.2	19.6	53.8	0.0	28100
Nutech/G2 Genetics	5F-200	100	220.4	18.5	56.1	0.8	27900
Masters Choice	MCT 4884	98	220.2	20.9	55.0	0.4	28400
Wensman	90967STXRIB	96	219.9	19.0	55.3	0.0	29000
REA Hybrids	4A974-RIB	97	217.7	19.3	54.7	0.0	28000
Renk	RK596SSTX	98	217.5	19.3	54.1	0.0	27900
REA Hybrids	4A972-RIB	97	216.8	18.3	53.9	0.0	28500
Great Lakes Hybrids	4879STXRIB	98	216.7	19.4	52.9	0.0	27000
Nutech/G2 Genetics	5F-198	98	216.4	17.7	51.9	0.0	27900
Proseed	13101 SS	101	216.2	19.3	54.7	0.0	28700
Nuseed	9904 VT2P	99	216.1	18.4	53.0	0.0	28100
Peterson Farms Seed	55S96	96	214.8	18.7	56.2	0.0	26900
Great Lakes Hybrids	5015STXRIB	100	213.6	18.4	54.4	0.0	28300
Nutech/G2 Genetics	5F-399	99	213.3	19.0	52.1	0.0	27800
REA Hybrids	5A993-RIB	99	213.2	19.7	55.1	0.0	28400
Nutech/G2 Genetics	5Y-196	96	212.2	17.0	53.1	0.0	27200
Dairyland Seed	DS-9900SSX	100	211.9	22.6	49.5	0.0	26700
Proseed	1396 VT3P RIB	96	211.6	18.3	55.2	0.0	29000
<b>Trial Average</b>			216.9	19.3	53.9	0.1	28000
<b>LSD (0.05)†</b>			10.3	0.9	1.2	0.4	1100
<b>C.V.‡</b>			3.4	3.4	1.5	-	2.8

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Late Season Trial (96 day maturity or more)** at South Shore, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Pioneer	P0193AM	101	210.8	21.8	50.5	0.0	26000
Peterson Farms Seed	88A97	97	209.5	19.7	53.2	0.0	28000
REA Hybrids	4A654-RIB	96	209.5	17.5	54.6	0.4	28900
Nutech/G2 Genetics	5X-698	98	208.6	18.0	54.5	0.0	27800
Golden Harvest	G96A69-3111	97	207.7	18.4	53.8	0.5	25000
Proseed	PX 96 SS RIB	97	207.6	19.8	53.4	0.0	28700
Dairyland Seed	DS-9796	96	205.8	18.3	54.8	0.4	27700
Titan Pro	TP 39-98 SS	98	203.8	19.4	53.8	0.0	26000
<b>Trial Average</b>			216.9	19.3	53.9	0.1	28000
<b>LSD (0.05)†</b>			10.3	0.9	1.2	0.4	1100
<b>C.V.‡</b>			3.4	3.4	1.5	-	2.8

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

**Jonathan Kleinjan** | SDSU Crop Performance Testing Director  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 4 miles north and 1/2 mile west of Bancroft (57353) in Kingsbury County  
(GPS: N 44°31.091' W 097°45.244)

Cooperator: Weerts Farm, Inc.

Soil Type: Houdek-Stickney loam, 0-2% slope, non-irrigated

Fertilizer: 170-40-0 preplant; 30-10-10 starter

Yield Goal: 170 bu/ac

Previous crop: Soybeans

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: Dual (fall-applied)  
Post: Halex GT, Status

Date seeded: 5/15/2014

Date harvested: 11/3/2014

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Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Bancroft, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Nutech/G2 Genetics	5F-399	99	<b>214.4</b>	14.4	56.2	0.4	28100
Channel	197-68STXRIB	97	<b>209.4</b>	15.5	58.5	0.4	29600
Pioneer	P9917AMX	99	<b>207.3</b>	15.6	59.3	0.0	29600
Great Lakes Hybrids	4879STXRIB	98	<b>206.4</b>	15.4	57.9	0.0	26700
<b>Check</b>	<b>CHECK</b>	99	<b>205.1</b>	15.4	59.5	0.0	28500
Proseed	1399 AGT3000	99	<b>205.0</b>	16.4	57.3	2.0	27700
Wensman	W 90979STX	97	<b>203.4</b>	15.7	58.9	0.0	28200
Peterson Farms Seed	81W95	95	202.1	14.1	57.7	0.0	28600
Pioneer	P9526AMX	95	202.1	14.9	59.2	3.3	28600
Wensman	W 70975VT3PRIB	97	202.1	14.5	59.8	0.4	28600
Wensman	W 9288STXRIB	98	201.0	15.4	56.1	0.4	28300
Nuseed	9505 VT2P	95	200.8	14.7	59.8	1.5	27900
Wensman	W 7290VT3PRIB	99	199.7	14.4	59.7	0.0	27400
Channel	200-48STXRIB	100	198.6	15.7	57.9	0.8	27600
Federal Hybrids	5050 SSTAX	100	198.6	14.6	59.0	0.4	28700
Federal Hybrids	4540 VT3P RIB	95	198.3	15.6	57.7	0.0	29000
REA Hybrids	5A993-RIB	99	198.2	16.2	59.3	1.2	28000
Federal Hybrids	4640 VT3P RIB	96	198.1	15.4	59.9	0.4	28100
Legend Seeds	LR 9599 GENSSRIB	99	196.9	15.1	58.5	0.0	28400
Legend Seeds	LR 9391 GENSSRIB	91	196.8	14.0	58.7	0.4	29300
Pioneer	P9703AMX	97	196.2	16.3	58.3	1.2	28100
REA Hybrids	4A974-RIB	97	195.7	15.9	58.2	0.0	27100
Channel	195-58STXRIB	95	194.5	13.6	56.6	0.4	27300
Nutech/G2 Genetics	5F-200	100	193.1	15.8	58.3	2.0	26500
REA Hybrids	5A992-RIB	99	193.0	14.7	57.0	0.4	28400
REA Hybrids	4A972-RIB	97	192.5	14.1	57.9	0.0	28600
Wensman	W 90941STX	94	192.4	13.7	57.9	0.0	26800
Renk	RK596SSTX	98	192.3	14.3	57.8	0.4	27800
Renk	RK605SSTX	100	192.0	14.8	58.5	0.4	28300
Legend Seeds	LR 9394 GENSSRIB	91	191.5	16.5	59.3	0.7	28900
<b>Trial Average</b>			195.3	15.0	58.2	0.7	28000
<b>LSD (0.05)†</b>			12.2	0.7	1.0	1.5	1400
<b>C.V.‡</b>			4.5	3.5	1.2	-	3.5

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Bancroft, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Proseed	PX 96 SS RIB	96	191.2	14.8	57.7	0.0	28500
Nuseed	9904 VT2P	99	190.8	15.0	57.3	1.5	28500
Peterson Farms Seed	55S96	96	190.6	14.5	59.8	0.4	26500
Wensman	W 90967STXRIB	96	190.1	15.1	58.6	0.0	27800
Proseed	1396 VT3P RIB	96	188.5	14.6	58.9	0.0	28600
Dairyland Seed	DS-9900SSX	100	188.0	13.7	53.6	6.0	27200
Nutech/G2 Genetics	5X-698	98	187.5	14.6	58.3	1.5	29700
Nuseed	9504 VT3P RIB	95	187.1	15.5	59.3	1.3	24100
Legend Seeds	LR 9496 GENSSRIB	96	184.4	14.2	58.8	0.8	28500
Renk	RK581SSTX	100	183.7	16.3	57.1	0.8	25800
Dairyland Seed	DS-9796	96	182.7	15.8	58.5	0.8	28400
Titan Pro	TP 39-98 SS	98	180.3	14.1	57.6	0.4	26500
Peterson Farms Seed	88A97	97	175.9	14.2	56.9	0.0	24300
<b>Trial Average</b>			195.3	15.0	58.2	0.7	28000
<b>LSD (0.05)†</b>			12.2	0.7	1.0	1.5	1400
<b>C.V.‡</b>			4.5	3.5	1.2	-	3.5

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (101 day maturity or more)** at Bancroft, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
<b>Check</b>	<b>CHECK</b>	99	<b>209.3</b>	14.4	58.7	0.4	28700
Pioneer	P0533AM1	105	<b>208.3</b>	17.3	59.0	0.4	28200
Pioneer	P0297AMX	102	<b>204.6</b>	16.8	57.7	1.9	28200
Nutech/G2 Genetics	5H-502	102	<b>199.8</b>	14.9	58.3	0.0	27100
REA Hybrids	5A029-RIB	102	<b>197.8</b>	15.3	57.2	0.0	29000
Titan Pro	TP 39-05 SS	105	<b>197.2</b>	17.2	57.0	5.7	28300
Nutech/G2 Genetics	5H-905	105	<b>197.1</b>	16.0	57.0	0.8	26600
Great Lakes Hybrids	5283STXRIB	102	195.7	16.5	57.1	0.4	27300
Titan Pro	TP 35-01 2P	101	195.1	15.5	56.9	0.8	27100
Pioneer	P0193AM	101	195.0	14.5	56.5	0.8	26200
Proseed	13101 SS	101	194.7	15.5	57.6	0.4	27900
Titan Pro	2M04-2P	104	194.1	17.3	56.2	2.4	28000
Wensman	W 91011STXRIB	101	193.6	16.0	57.6	0.8	27800
Nutech/G2 Genetics	EXP 5Z-0106	101	192.7	14.8	56.3	0.4	26500
Titan Pro	TP 39-02 SS	102	191.7	15.5	56.4	0.8	27300
REA Hybrids	5A022-RIB	102	190.7	14.7	57.2	1.6	27300
Nutech/G2 Genetics	5H-806	106	190.7	16.6	57.9	1.4	24600
Titan Pro	TP31-01 3011A	101	190.3	16.6	57.8	0.8	28500
Nuseed	3014 VT2P	101	190.1	15.5	56.3	1.2	27200
Nutech/G2 Genetics	5F-805	105	189.8	16.7	57.6	0.4	26900
REA Hybrids	6A032-RIB	103	188.0	16.3	56.7	0.8	27100
Channel	202-64STXRIB	102	187.3	16.1	57.5	0.8	27100
Wensman	W 9325STXRIB	102	185.5	16.3	57.0	0.4	24500
Great Lakes Hybrids	5428STXRIB	104	185.5	15.5	57.9	0.4	26800
Channel	201-39STXRIB	101	185.4	15.1	56.7	0.0	28000
Federal Hybrids	5240 SSTAX RIB	102	184.5	16.0	57.2	0.4	27300
Renk	RK666SSTX	102	184.2	15.6	56.7	0.0	25800
Peterson Farms Seed	84Y01	101	180.3	15.5	56.9	0.0	25800
Nutech/G2 Genetics	5Z-002	102	176.5	16.5	57.5	17.7	26400
<b>Trial Average</b>			192.6	15.8	57.3	1.4	27200
<b>LSD (0.05)†</b>			13.5	0.7	0.9	2.2	1600
<b>C.V.‡</b>			5.0	3.1	1.1	-	4.1

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.



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2015 South Dakota

Corn Hybrid Trial Results - Bancroft

**Jonathan Kleinjan** | SDSU Crop Performance Testing Director

**Kevin Kirby** | Agricultural Research Manager

**Shawn Hawks** | Agricultural Research Manager

Location: 2.5 miles north of Bancroft (57353) in Kingsbury County  
(GPS: 44.519032, -97.753749)

Cooperator: Weerts Farm, Inc.

Soil Type: Houdek-Stickney-Tetonka loam, 0-2% slope

Fertilizer: 140-0-0 preplant; 30-10-10 starter

Yield Goal: 170 bu/ac

Previous crop: Soybeans

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: Harness (acetochlor)  
Post: Roundup PowerMax (glyphosate) + TripleFlex (acetochlor + flumetsulam + clopyralid) + Status (dicamba + diflufenzopyr)

Date seeded: 5/5/2015

Date harvested: 10/22/2015

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Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Bancroft, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Peterson Farms Seed	PFS55S96	96	<b>177.9</b>	15.6	58.7	0.4	28000
Wensman	W70975VT3PRIB	97	<b>177.3</b>	15.1	58.6	0.0	29200
Nutech/G2 Genetics	5F-198	98	<b>177.1</b>	15.2	55.4	0.0	28300
Pioneer	P9929AM	99	<b>176.8</b>	16.1	58.3	0.4	28500
Nutech/G2 Genetics	5F-196	96	<b>175.4</b>	15.8	56.5	0.4	26100
Federal Hybrids	4440 VT3P	94	<b>175.1</b>	15.2	58.4	0.0	29000
Thunder Seed	4695 RR	95	<b>174.1</b>	15.9	58.6	0.0	29000
Wensman	W81007STX	100	<b>174.0</b>	19.1	59.7	0.0	29300
Channel	197-50STXRIB	97	<b>173.9</b>	16.9	56.8	0.0	25600
Check	Check	99	<b>172.8</b>	16.1	59.0	0.8	28000
Proseed	1399A GT3000	99	<b>172.3</b>	15.4	57.0	2.7	24000
Rea Hybrids	4A972-RIB	97	<b>171.5</b>	15.7	58.4	0.0	29500
Federal Hybrids	4540 VT3P	95	<b>171.4</b>	16.7	58.3	0.4	28300
Federal Hybrids	4640 VT3P	96	<b>171.2</b>	15.7	58.9	0.0	29200
Nuseed	9504 VT3P RIB	95	<b>171.1</b>	15.9	58.9	0.0	31000
Federal Hybrids	4240 VT2P	92	<b>170.6</b>	15.0	58.5	0.0	29400
Proseed	1495SS	95	<b>170.6</b>	16.7	58.3	0.4	28900
Dairyland Seed	DS-9198	98	<b>169.5</b>	16.2	55.9	0.0	29100
Great Lakes Hybrids	4879STXRIB	98	<b>169.2</b>	17.7	57.6	0.0	28600
Federal Hybrids	4160 VT2P	91	<b>168.9</b>	14.5	56.9	0.4	28500
Rea Hybrids	4A962-RIB	96	<b>168.7</b>	16.4	59.3	0.0	28500
Nuseed	9904 VT2P RIB	99	<b>168.7</b>	17.1	58.6	0.0	27700
Rea Hybrids	5A981-RIB	98	<b>168.2</b>	16.0	58.9	0.0	29700
Wensman	W9288STXRIB	98	<b>167.9</b>	16.7	56.3	0.4	28400
Thunder Seed	7396 VT2PRIB	96	<b>167.3</b>	14.8	58.5	0.0	29000
Rea Hybrids	5A992-RIB	99	<b>167.0</b>	17.7	57.8	0.0	29900
Legend Seeds	LR 9397 VT3PRIB	97	<b>167.0</b>	16.1	58.5	0.0	30200
Channel	200-48STXRIB	100	<b>166.7</b>	18.3	56.8	0.0	28400
Wensman	W90962STX	96	<b>166.6</b>	14.0	57.2	0.0	29400
Federal Hybrids	4250 VT2P	92	<b>166.4</b>	13.9	57.8	0.0	28600
<b>Trial Average</b>			165.4	16.4	57.9	0.4	28500
<b>LSD (0.05)†</b>			15.0	1.3	1.1	1.5	1000
<b>C.V.‡</b>			6.5	5.8	1.3	-	2.5

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Bancroft, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Nutech/G2 Genetics	5F-200	100	166.2	19.2	57.8	4.7	28100
Dairyland Seed	DS-9599	99	164.5	16.1	56.2	2.3	28300
Thunder Seed	101-95 GENSSRIB	95	164.5	17.4	57.2	0.4	29000
Wensman	W90979STXRIB	97	163.2	15.9	59.0	1.5	29100
Renk Seed	RK596SSTX	98	162.2	15.6	56.9	0.0	26900
Thunder Seed	101-97 GENSSRIB	97	161.6	15.0	57.4	0.4	29300
Federal Hybrids	5050 VT2P	100	160.8	16.9	57.7	0.4	28400
Rea Hybrids	5A993-RIB	99	160.3	17.3	59.8	0.8	29000
Thunder Seed	6600 VT2PRIB	100	159.8	19.5	57.5	0.0	27400
Wensman	W90994STX	99	159.7	16.1	57.0	0.0	27700
Proseed	1496 SS	96	159.1	15.8	57.7	0.0	27400
Great Lakes Hybrids	4548STXRIB	95	158.0	15.9	60.1	1.5	28400
Rea Hybrids	5A000-RIB	100	153.7	18.1	56.8	0.0	30100
Legend Seeds	LR 9497 GENSSRIB	97	153.6	16.5	58.8	0.0	28700
Renk Seed	RK612SSTX	100	151.8	15.5	56.9	0.0	29300
Great Lakes Hybrids	5015STXRIB	100	150.4	19.2	57.9	0.0	28500
Channel	197-68STXRIB	98	150.1	16.6	58.3	0.8	28100
Peterson Farms Seed	PFS81W95	95	148.1	14.5	56.9	0.0	29000
Legend Seeds	LR 9600 GENSSRIB	100	147.6	16.9	56.8	1.1	28900
<b>Trial Average</b>			165.4	16.4	57.9	0.4	28500
<b>LSD (0.05)†</b>			15.0	1.3	1.1	1.5	1000
<b>C.V.‡</b>			6.5	5.8	1.3	-	2.5

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (101 day maturity or more)** at Bancroft, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Nutech/G2 Genetics	5F-701	101	<b>183.5</b>	17.1	58.4	0.3	28600
Pioneer	P0339AM	103	<b>182.9</b>	19.2	58.0	0.8	28500
Dairyland Seed	DS-9701	101	<b>181.5</b>	15.1	56.5	0.0	28100
Federal Hybrids	5250 SSTAX	102	<b>174.0</b>	17.8	57.9	0.0	27800
Wensman	W9325STXRIB	102	<b>173.4</b>	15.3	57.4	0.0	28000
Check	Check	99	<b>172.7</b>	16.0	58.6	0.3	28400
Pioneer	P0589AM	105	<b>171.8</b>	20.0	57.7	0.0	28100
Proseed	13101 SS	101	<b>171.5</b>	17.0	57.5	0.5	28200
Federal Hybrids	5245 VT2P	102	<b>171.3</b>	19.6	56.0	0.0	27100
Legend Seeds	LR 94A01 GTA	101	<b>169.4</b>	15.1	57.1	0.8	28000
Great Lakes Hybrids	5283STXRIB	102	<b>169.2</b>	18.1	56.9	0.3	27300
Rea Hybrids	5A022-RIB	102	168.0	17.2	56.8	0.0	27100
Rea Hybrids	5A029-RIB	102	167.9	15.7	57.2	0.0	28300
Rea Hybrids	6A032-RIB	103	167.7	18.7	58.4	1.0	28100
Titan Pro	TP 39-02 SS	102	166.0	16.6	56.8	0.0	26000
Dairyland Seed	DS-9905	105	166.0	21.7	54.0	1.5	27600
Federal Hybrids	5140 VT2P	101	164.8	15.6	58.5	0.0	29000
Titan Pro	TP 39-05 SS	105	164.6	22.0	56.7	0.3	27700
Channel	202-52STXRIB	102	164.5	17.0	56.2	0.3	28500
Dairyland Seed	DS-9203	103	164.4	19.7	57.0	0.3	29300
Channel	202-64STXRIB	102	162.6	18.5	58.2	0.0	28200
Wensman	W91011STXRIB	101	162.0	17.2	58.6	0.5	27900
Dairyland Seed	DS-9805	103	160.4	20.0	55.3	0.8	28600
Great Lakes Hybrids	5688STXRIB	106	160.1	19.7	57.8	1.3	26800
Titan Pro	2M04-2P	104	158.4	19.4	56.5	0.0	27900
Titan Pro	TP 58-01 2P	101	158.0	16.9	57.2	0.3	28300
Renk	RK699SSTX	105	157.6	21.1	56.8	0.0	19300
Legend Seeds	LR 9405 GENSSRIB	105	157.3	21.1	56.5	0.0	27400
Great Lakes Hybrids	5470STXRIB	104	156.5	18.1	59.6	0.0	28600
Renk	RK666SSTX	102	151.9	17.2	55.7	0.0	27100
Legend Seeds	LR 9401 GENSSRIB	101	148.4	15.9	56.5	0.1	26700
Titan Pro	TP 31-01 3011A	101	147.1	17.4	57.8	1.8	27200
<b>Trial Average</b>			165.6	18.0	57.2	0.3	27600
<b>LSD (0.05)†</b>			15.1	1.6	1.0	1.0	1100
<b>C.V.‡</b>			6.5	6.2	1.3	-	2.9

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

**Jonathan Kleinjan** | SDSU Crop Performance Testing Director  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 4 1/2 miles south and 1 mile east of Bath (57427) in Brown County, SD  
(GPS: 45.393016, -98.305427')

Cooperator: Gordon and Roger Locken Farms

Soil Type: Great Bend silt loam, 0-2% slope, non-irrigated

Fertilizer: Variable-applied preplant; 30-10-10 starter

Yield Goal: 200 bu/acre

Previous crop: Soybeans

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: none  
Post: Harness & Glyphosate (early post), Glyphosate

Date seeded: 5/21/2015

Date harvested: 10/26/2014

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Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (95 day maturity or less)** at Bath, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Check	Check	99	235.5	18.7	58.9	0.4	29700
Rea Hybrids	3A922-RIB	92	<b>229.5</b>	16.8	59.6	0.0	29500
Renk Seed	RK568VT3P	95	<b>225.8</b>	17.7	57.6	0.0	29200
Channel	195-58STXRIB	95	<b>225.6</b>	17.6	58.1	0.4	29500
Thunder Seed	4695 RR	95	<b>224.7</b>	17.5	59.2	0.4	28400
Federal Hybrids	4558 SSTAX	95	<b>224.5</b>	17.5	57.9	0.0	29500
Nuseed	9504 VT3P RIB	95	<b>223.6</b>	17.5	58.5	0.0	29700
Dairyland Seed	DS-9791RA	91	<b>223.1</b>	17.3	57.2	0.0	29000
Nuseed	9001 VP3220 EZR	90	<b>221.5</b>	17.3	56.6	1.1	28900
Peterson Farms Seed	PFS 76S92	92	<b>221.5</b>	16.7	58.9	0.0	29300
Rea Hybrids	4B953-RIB	95	<b>220.5</b>	16.7	59.1	0.0	29300
Proseed	1392 VT2P	92	<b>220.5</b>	16.6	58.4	0.8	29200
Federal Hybrids	4160 VT2P	91	<b>220.4</b>	16.0	58.2	0.0	28600
Federal Hybrids	4450 SSTAX	94	<b>219.1</b>	17.9	58.7	0.0	28900
Thunder Seed	7993 VT2PRIB	93	<b>219.1</b>	16.8	58.1	0.0	29100
Federal Hybrids	4240 VT2P	92	<b>218.8</b>	16.6	57.2	0.4	29200
Wensman	W8184VT2RIB	95	<b>218.6</b>	17.8	59.0	0.0	28900
Federal Hybrids	4440 VT3P	94	<b>218.4</b>	17.5	58.2	0.0	29000
Peterson Farms Seed	PFS 81W95	95	<b>218.0</b>	16.8	57.6	0.0	29200
Wensman	W80928VT2PRO	92	<b>217.3</b>	16.1	58.6	0.0	29800
Nuseed	9304 SS RIB	93	<b>217.0</b>	17.2	58.7	0.0	29100
Legend Seeds	LR 9694 GENSSRIB	94	216.2	16.9	57.4	0.0	29300
Proseed	1495SS	95	215.7	17.6	58.2	0.0	28700
Wensman	W80931VT2RIB	93	214.8	16.0	58.2	0.0	29400
Renk Seed	RK544SSTX	95	214.8	17.6	58.9	0.4	29400
Legend Seeds	LR 9391 GENSSRIB	91	213.3	16.4	58.0	0.0	29200
Dairyland Seed	DS-9593	93	212.1	16.2	55.5	0.0	25200
Peterson Farms Seed	PFS 75T93	93	210.9	16.5	58.5	0.4	29600
Rea Hybrids	4A942-RIB	94	210.9	16.8	58.4	0.0	29400
Channel	194-14STXRIB	94	210.6	17.2	57.0	0.0	27400
<b>Trial Average</b>			213.9	16.9	58.1	0.2	28500
<b>LSD (0.05)†</b>			12.5	0.6	1.0	0.9	1200
<b>C.V.‡</b>			4.2	2.4	1.2	-	3.0

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (95 day maturity or less)** at Bath, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Thunder Seed	101-95 GENSSRIB	95	209.6	18.3	57.7	0.0	29300
Federal Hybrids	4540 VT3P	95	208.7	17.8	57.6	0.7	28500
Nutech/G2 Genetics	5D-091	91	208.4	15.7	57.5	0.4	29500
Channel	190-13VT2PRIB	90	207.6	15.8	58.7	0.0	28000
Wensman	W80952VT2RIB	95	207.2	17.1	57.1	0.4	29100
Nutech/G2 Genetics	5X-894	94	206.9	17.1	58.9	0.0	27100
Thunder Seed	4389 RR	89	206.6	15.6	59.1	0.7	30300
Renk Seed	RK522SSTX	94	204.7	17.9	57.4	0.0	26000
Thunder Seed	4391 VT2	90	204.6	16.1	58.7	0.8	27100
Nutech/G2 Genetics	5Z-488	88	204.4	15.5	56.7	1.9	24000
Federal Hybrids	4550 SSTAX	95	203.9	18.0	57.4	0.0	26400
Legend Seeds	LR 9688 VT2PRIB	88	202.1	15.3	58.2	0.0	28500
Federal Hybrids	4250 VT2P	92	201.8	15.8	57.8	0.0	28400
Nuseed	9202 VT2P RIB	92	201.3	15.7	58.0	0.0	29100
Legend Seeds	LR 9587 VT2PRIB	87	200.6	15.8	58.1	0.0	26200
Legend Seeds	40J592 VT2PRIB	92	197.3	16.2	58.3	0.0	27600
Legend Seeds	LR 9394 GENSSRIB	94	196.6	18.5	59.0	1.4	23400
<b>Trial Average</b>			213.9	16.9	58.1	0.2	28500
<b>LSD (0.05)†</b>			12.5	0.6	1.0	0.9	1200
<b>C.V.‡</b>			4.2	2.4	1.2	-	3.0

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (96 day maturity or more)** at Bath, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Pioneer	P9929AM	99	<b>231.8</b>	18.1	58.1	0.4	29400
Pioneer	P0339AM	103	<b>231.1</b>	20.0	57.3	0.0	28500
Check	Check	99	<b>229.2</b>	18.7	58.7	0.4	29000
Dairyland Seed	DS-9701	101	<b>227.8</b>	19.6	56.8	0.8	27000
Rea Hybrids	5A992-RIB	99	<b>223.0</b>	18.1	57.5	0.0	29200
Nutech/G2 Genetics	5F-196	96	<b>222.5</b>	17.7	57.1	1.5	28700
Dairyland Seed	DS-9599	99	<b>222.0</b>	19.1	55.9	0.0	29800
Dairyland Seed	DS-9198	98	<b>221.9</b>	17.3	55.7	0.0	29300
Federal Hybrids	5250 SSTAX	102	<b>220.5</b>	19.4	57.6	0.0	29700
Channel	197-68STXRIB	98	<b>219.6</b>	18.8	58.7	0.0	29200
Nutech/G2 Genetics	5F-198	98	217.0	17.0	56.3	0.0	28300
Federal Hybrids	4640 VT3P	96	215.9	17.6	60.2	0.0	30100
Federal Hybrids	4760 SSTAX	97	215.3	17.4	56.4	0.7	29200
Wensman	W8294VT2RIB	99	211.8	18.7	59.1	0.8	28000
Peterson Farms Seed	PFS 55S96	96	210.8	17.7	59.5	0.0	27200
Proseed	13101 SS	101	210.4	18.8	56.5	0.0	28200
Wensman	W90962STX	96	210.2	16.6	57.5	0.0	28900
Federal Hybrids	5050 SSTAX	100	209.3	18.5	57.3	0.4	29100
Rea Hybrids	4A962-RIB	96	208.2	18.5	57.5	0.0	29100
Channel	197-50STXRIB	97	208.2	19.2	56.7	0.0	27000
Pioneer	P9703AM	97	206.6	16.1	58.3	0.7	27800
Renk Seed	RK596SSTX	98	206.5	17.8	58.0	0.0	27100
Wensman	W9288STXRIB	98	206.4	18.7	58.0	0.0	28200
Thunder Seed	6600 VT2PRIB	100	205.2	19.3	57.8	0.0	26400
Proseed	1399A GT3000	99	205.1	18.8	56.0	0.0	25800
Thunder Seed	7603 GENSSRIB	103	204.9	19.2	57.9	0.0	26100
Nutech/G2 Genetics	5F-200	100	204.4	18.7	56.7	1.1	29000
Thunder Seed	101-97 GENSSRIB	97	202.4	17.5	58.5	0.0	29000
Wensman	W90979STXRIB	97	202.1	17.7	58.4	0.0	28900
Thunder Seed	7396 VT2PRIB	96	201.3	17.5	58.9	0.0	28900
<b>Trial Average</b>			206.2	17.7	56.0	0.2	27600
<b>LSD (0.05)†</b>			13.1	0.8	1.4	0.9	1000
<b>C.V.‡</b>			4.5	3.0	1.8	-	2.6

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Late Season Trial (96 day maturity or more)** at Bath, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Rea Hybrids	4A972-RIB	97	200.8	16.8	59.1	0.0	29300
Federal Hybrids	5140 SSTAX	101	200.2	19.1	57.0	0.0	28700
Proseed	1496 SS	96	195.8	18.0	57.8	1.2	27800
<b>Trial Average</b>			206.2	17.7	56.0	0.2	27600
<b>LSD (0.05)†</b>			13.1	0.8	1.4	0.9	1000
<b>C.V.‡</b>			4.5	3.0	1.8	-	2.6

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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**Jonathan Kleinjan** | SDSU Crop Performance Testing Director  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 6 miles west and 3 miles south of Beresford (57432) in Clay county, SD  
(GPS: N 43°02.783' W 096°54.125')

Cooperator: SDSU Southeast Research Farm - Peter Sexton, manager

Soil Type: Egan-Clarno-Trent silty complex, 0-2% slope, non-irrigated

Fertilizer: 132-78-90 preplant; 30-10-10 starter

Yield Goal: 200 bu/acre

Previous crop: Soybeans

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: Roundup (glyphosate) +Dual (metolachlor) +Metribuzin (metribuzin) +  
Sharpen (saflufenacil)  
Post: Atrazine (atrazine) + Callisto (mesotrione)

Date seeded: 5/12/2015

Date harvested: 10/29/2015

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Table 1. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (107 day maturity or less)** at Beresford, SD.

Variety Information		Agronomic Performance					
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Nutech/G2 Genetics	5Z-906	106	<b>254.8</b>	17.2	61.8	2.7	28000
Channel	207-27STXRIB	107	<b>254.2</b>	17.1	60.2	0.7	29800
Rea Hybrids	6A071-RIB	107	<b>245.0</b>	15.8	61.0	1.5	29200
Great Lakes Hybrids	5688STXRIB	106	<b>244.7</b>	16.7	60.9	3.8	29200
Great Lakes Hybrids	5755STXRIB	107	<b>244.6</b>	16.7	61.4	0.0	29000
Titan Pro	TP 56-06 3110	106	<b>244.0</b>	17.2	61.0	3.0	29100
Pioneer	P0589AM	105	<b>242.2</b>	15.5	60.7	0.4	29200
Renk Seed	RK712SSTX	106	<b>242.0</b>	16.0	61.9	2.7	28200
Nutech/G2 Genetics	5Z-504	104	239.9	16.0	61.4	5.2	27100
Renk Seed	RK776SSTX	107	239.6	17.8	62.0	2.3	28200
Pioneer	P0760AMXT	107	238.0	16.6	62.8	1.2	28200
Titan Pro	TP 39-05 SS	105	235.9	15.8	61.4	2.7	27800
Wensman	W91073STXRIB	107	232.6	16.7	60.8	2.4	27200
Nutech/G2 Genetics	5X-905	105	232.1	15.7	60.0	1.5	29300
Rea Hybrids	6A032-RIB	103	231.5	16.0	61.0	4.0	27700
Channel	205-19STXRIB	105	228.3	15.2	59.9	4.4	27400
Wensman	W9325STXRIB	102	226.5	14.8	60.6	1.5	29500
Rea Hybrids	6A050-RIB	105	225.9	15.7	60.7	0.4	27800
Wensman	W91051STXRIB	105	225.9	16.3	62.6	0.4	28400
Masters Choice	MCT 5661	103	225.0	16.2	59.1	2.1	25600
Masters Choice	MCT 527GT	105	224.8	15.9	60.2	5.9	27700
Check	Check	99	224.6	15.2	61.8	3.8	29000
Rea Hybrids	6A062-RIB	106	223.2	15.7	59.7	6.1	28500
Channel	206-55STXRIB	106	221.9	15.5	61.2	2.0	27400
Thunder Seed	4600 RR	100	219.8	14.6	59.9	7.2	28900
Masters Choice	MCT 5371	103	219.6	15.7	59.1	2.1	26500
Great Lakes Hybrids	5283STXRIB	102	218.3	15.5	61.4	0.8	26900
Nutech/G2 Genetics	5X-806	106	217.4	16.0	61.0	0.0	28900
Great Lakes Hybrids	5470STXRIB	104	215.4	15.9	61.9	2.0	27200
Thunder Seed	6600 VT2RIB	100	212.4	14.4	59.8	0.0	25900
Thunder Seed	7603 GENSSRIB	103	207.6	15.0	60.3	0.4	26700
<b>Trial Average</b>			230.6	15.9	60.9	2.4	28100
<b>LSD (0.05)†</b>			13.2	0.5	1.0	2.4	1000
<b>C.V.‡</b>			4.1	2.1	1.2	-	2.7

\* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - Late **Season Trial (108 day maturity or more)** at Beresford, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Rea Hybrids	7B090-RIB	109	<b>257.6</b>	17.3	61.5	3.0	29000
Nutech/G2 Genetics	5F-709	109	<b>254.2</b>	17.6	61.4	1.1	29600
Wensman	W91112STX	111	<b>245.8</b>	16.5	60.9	2.4	27900
Nutech/G2 Genetics	5F-510	110	<b>245.5</b>	18.3	62.0	1.5	28400
Pioneer	P1197AM	111	244.5	18.5	59.4	0.4	26600
Wensman	W91095STXRIB	109	244.4	16.5	62.5	1.2	28000
Titan Pro	TP 55-11 2P	111	242.2	18.5	60.3	0.4	28300
Channel	209-46STXRIB	109	239.6	17.0	61.4	0.0	28200
Nutech/G2 Genetics	5Z-308	108	239.3	17.3	67.3	0.8	27900
Channel	209-53STXRIB	109	237.6	18.0	61.2	1.9	28600
Channel	211-35STXRIB	111	237.1	19.1	63.1	1.2	27300
Great Lakes Hybrids	6399STXRIB	113	237.0	18.5	63.0	3.1	28400
Renk Seed	RK871VT2P	111	234.3	18.9	61.3	3.6	27000
Renk Seed	RK791SSTX	108	230.7	16.4	62.5	0.4	27200
Rea Hybrids	7A111-RIB	111	229.9	16.6	61.6	5.8	28100
Great Lakes Hybrids	6185STXRIB	111	228.7	17.3	61.7	2.0	27800
Great Lakes Hybrids	6068STXRIB	110	226.8	17.1	60.7	2.7	28100
Channel	213-28STXRIB	113	226.5	18.3	60.7	1.6	26700
Check	Check	99	223.4	15.3	61.3	3.4	29300
Great Lakes Hybrids	6462STXRIB	114	216.3	20.1	62.1	0.8	26500
Titan Pro	TP 59-08 SS	108	214.3	17.6	60.1	2.9	26600
Rea Hybrids	7A082-RIB	108	212.6	17.7	61.3	1.3	24300
<b>Trial Average</b>			234.9	17.6	61.7	1.9	27700
<b>LSD (0.05)†</b>			12.7	0.5	3.4	2.6	1100
<b>C.V.‡</b>			3.8	2.2	3.9	-	2.8

\* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

**Jonathan Kleinjan** | SDSU Crop Performance Testing Director  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 2 miles east and 3/4 mile north of Geddes (57432) in Charles Mix County, SD  
(GPS: N 43°16.958' W 098°39.895')

Cooperator: Curtis Sybesma

Soil Type: Highmore silt loam, 0-2% slope

Fertilizer: Variable-applied preplant; 30-10-10 starter

Yield Goal: 170 bu/acre

Previous crop: Soybeans

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 27,000/acre

Herbicide: Pre: Harness (acetochlor) + Roundup (glyphosate) + 2,4-D  
Post: Roundup (glyphosate)

Date seeded: 5/12/2015

Date harvested: 10/29/2015

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Table 1. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - Early Season Trial (107 day maturity or less) at Geddes, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Pioneer	P0589AM	105	<b>221.2</b>	16.1	60.7	0.4	26600
Nutech/G2 Genetics	5X-905	105	<b>218.5</b>	16.4	60.1	0.4	26900
Pioneer	P9929AM	99	<b>217.1</b>	13.6	59.2	0.4	26600
Wensman	W9325STXRIB	102	<b>216.3</b>	14.1	61.4	0.0	26100
Pioneer	P0339AM	103	<b>216.0</b>	15.6	60.7	0.8	25800
Channel	206-55STXRIB	106	<b>215.5</b>	15.8	60.2	1.3	25800
Channel	205-19STXRIB	105	<b>215.1</b>	14.5	59.6	0.0	26500
Great Lakes Hybrids	5283STXRIB	102	<b>211.8</b>	14.1	60.3	0.0	25500
Rea Hybrids	5A000-RIB	100	<b>211.6</b>	13.2	59.8	0.4	26800
Rea Hybrids	6A071-RIB	107	<b>211.6</b>	15.9	60.1	1.7	25700
Titan Pro	TP 56-06 3110	106	<b>211.3</b>	17.0	59.1	2.1	26200
Rea Hybrids	6A062-RIB	103	<b>211.2</b>	16.2	59.5	1.2	27000
Check	Check	99	<b>209.6</b>	15.1	60.6	0.8	26600
Rea Hybrids	6A050-RIB	105	<b>208.4</b>	15.7	60.8	0.0	26100
Great Lakes Hybrids	5755STXRIB	107	<b>208.3</b>	16.1	60.3	2.1	25300
Channel	207-27STXRIB	107	206.7	16.2	59.9	1.2	26700
Wensman	W91073STXRIB	107	205.9	16.4	60.3	3.2	24100
Channel	203-88STXRIB	103	205.7	14.3	58.7	0.9	23000
Great Lakes Hybrids	5688STXRIB	106	205.0	16.9	60.7	6.3	26000
Rea Hybrids	5A022-RIB	102	204.7	14.0	58.4	0.0	24700
Renk Seed	RK776SSTX	107	203.7	17.2	61.2	1.3	25800
Thunder Seed	7603 GENSSRIB	103	203.6	13.6	59.7	0.0	24700
Wensman	W91051STXRIB	105	202.8	16.4	61.6	1.2	26100
Channel	202-52STXRIB	102	202.7	13.9	61.6	0.4	25900
Channel	202-64STXRIB	102	201.0	14.9	61.1	1.9	23000
Rea Hybrids	6A032-RIB	103	199.0	16.5	61.3	2.3	23500
Renk Seed	RK712SSTX	106	198.7	16.4	60.9	6.8	24100
Great Lakes Hybrids	5470STXRIB	104	198.4	16.1	61.3	0.0	25500
Thunder Seed	6600 VT2PRIB	100	195.3	13.5	60.3	0.5	24500
Titan Pro	TP 39-05 SS	105	187.7	16.9	60.5	8.3	23500
<b>Trial Average</b>			200.7	14.9	58.4	1.5	24700
<b>LSD (0.05)†</b>			13.8	1.0	0.9	2.4	900
<b>C.V.‡</b>			4.9	4.6	1.1	-	2.7

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (108 day maturity or more)** at Geddes, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Channel	209-53STXRIB	109	<b>232.6</b>	19.8	60.6	1.2	26800
Rea Hybrids	7B090-RIB	109	<b>227.3</b>	19.2	60.2	3.4	26500
Renk Seed	RK871VT2P	111	<b>227.1</b>	20.1	59.4	0.4	25700
Titan Pro	TP 55-11 2P	111	<b>223.3</b>	20.0	59.0	0.0	26100
Channel	209-46STXRIB	109	220.1	18.3	60.5	2.5	26400
Rea Hybrids	7A111-RIB	111	219.3	16.9	58.9	3.3	26200
Great Lakes Hybrids	5944STX	109	219.1	17.0	59.5	3.1	25000
Nutech/G2 Genetcs	5F-709	109	217.8	18.3	60.5	2.0	26900
Great Lakes Hybrids	6185STXRIB	111	217.5	17.2	60.3	0.8	26200
Great Lakes Hybrids	5918STXRIB	109	217.4	18.7	60.3	3.3	25900
Wensman	W91112STX	111	216.2	17.4	59.8	1.9	23600
Renk Seed	RK791SSTX	108	215.9	16.7	61.2	0.9	24600
Titan Pro	TP 59-08 SS	108	214.4	17.4	60.9	6.1	25400
Check	Check	99	212.0	15.9	61.2	1.7	26600
Wensman	W91095STXRIB	109	211.4	16.8	61.0	1.3	25900
Great Lakes Hybrids	6068STXRIB	110	208.7	18.2	60.2	3.3	26600
Rea Hybrids	7A082-RIB	108	189.8	18.9	59.3	9.6	20700
<b>Trial Average</b>			217.0	18.0	60.2	2.6	25600
<b>LSD (0.05)†</b>			12.1	1.0	0.7	4.0	1300
<b>C.V.‡</b>			3.9	3.8	0.8	-	3.6

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

**Jonathan Kleinjan** | SDSU Crop Performance Testing Director  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 7 miles south and 2 miles east of Miller (57362) in Hand county, SD  
(GPS: 44.413385, -98.940216)

Cooperator: Paul Fulton

Soil Type: Houdek-Prosper loams, 0-2% slopes

Fertilizer: 140-40-30 preplant, 30-10-10 starter

Yield Goal: 200 bu/acre

Previous crop: Soybeans

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 27,000/acre

Herbicide: Pre: Harness (acetochlor) + LV6 (2,4-D)  
Post: Roundup WeatherMax (glyphosate) + Status (diflufenzopyr + dicamba)

Date seeded: 5/13/2015

Date harvested: 11/2/2015

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Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Miller, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Federal Hybrids	5050 VT2P	100	<b>222.2</b>	16.1	58.5	1.3	25200
Check	Check	99	<b>220.7</b>	17.0	58.6	0.0	26200
Nuseed	9904 VT2P RIB	99	<b>219.0</b>	16.3	59.2	0.0	24000
Rea Hybrids	5A992-RIB	99	<b>218.3</b>	16.3	57.7	0.0	26500
Rea Hybrids	5A000-RIB	100	<b>217.5</b>	15.8	57.7	0.0	26700
Rea Hybrids	4A972-RIB	97	<b>216.9</b>	15.0	59.0	0.0	27000
Federal Hybrids	4540 VT3P	95	<b>216.9</b>	15.8	59.5	0.0	24900
Federal Hybrids	4640 VT3P	96	<b>215.8</b>	15.6	60.1	0.0	26400
Federal Hybrids	4240 VT2P	92	<b>215.6</b>	15.1	59.9	0.0	26700
Wensman	W81007STX	100	<b>215.5</b>	18.3	59.4	0.4	25900
Nutech/G2 Genetics	5F-198	98	<b>215.4</b>	14.0	55.4	0.4	24100
Nuseed	9504 VT3P RIB	95	<b>214.5</b>	15.7	59.2	0.4	26500
Wensman	W80978VT2RIB	97	<b>214.5</b>	15.4	58.2	0.0	26100
Federal Hybrids	4250 VT2P	92	<b>211.4</b>	14.4	59.0	0.4	27100
Renk Seed	RK596SSTX	98	<b>211.3</b>	15.4	57.8	0.0	24300
Rea Hybrids	5A993-RIB	99	<b>211.0</b>	17.2	61.1	0.0	27200
Channel	200-48STXRIB	100	<b>210.6</b>	16.5	58.6	0.0	24000
Wensman	W90962STX	96	210.2	15.1	58.3	0.0	25900
Nutech/G2 Genetics	5F-200	100	209.5	16.6	58.3	0.0	25400
Wensman	W90979STXRIB	97	209.0	15.2	58.8	0.0	25400
Federal Hybrids	4440 VT3P	94	208.4	15.7	58.9	0.0	25800
Thunder Seed	6600 VT2PRIB	100	208.3	16.8	58.9	0.0	24100
Nuseed	9202 VT2P RIB	92	208.1	13.9	57.9	0.0	25900
Channel	197-50STXRIB	97	207.6	16.6	58.4	0.0	23000
Channel	197-68STXRIB	98	207.5	16.7	58.6	0.0	25200
Nutech/G2 Genetics	5F-196	96	207.2	15.4	56.7	0.0	23200
Pioneer	P9703AM	97	206.8	14.4	56.9	0.4	25300
Pioneer	P9284AM	92	206.3	15.5	60.0	0.0	25600
Renk Seed	RK612SSTX	100	206.0	16.3	59.1	0.0	26600
Thunder Seed	101-95 GENSSRIB	95	205.7	16.1	58.7	0.0	25600
<b>Trial Average</b>			205.4	15.8	57.9	0.1	24700
<b>LSD (0.05)†</b>			11.7	2.0	4.2	0.7	1000
<b>C.V.‡</b>			4.1	9.0	5.1	-	2.8

\* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.



Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Miller, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Thunder Seed	4695 RR	95	205.0	16.0	58.8	0.0	25300
Wensman	W8294VT2RIB	99	204.9	16.5	58.4	0.5	23500
Rea Hybrids	5A981-RIB	98	204.3	17.3	58.9	0.0	24500
Thunder Seed	101-97 GENSSRIB	97	203.9	15.7	59.3	0.8	27300
Wensman	W90994STX	99	203.2	16.5	57.8	0.5	24000
Federal Hybrids	4160 VT2P	91	199.7	14.6	58.0	0.0	24900
Thunder Seed	7396 VT2PRIB	103	199.4	15.4	58.5	0.0	25300
Rea Hybrids	4A962-RIB	96	192.9	16.2	59.4	0.0	24600
<b>Trial Average</b>			205.4	15.8	57.9	0.1	24700
<b>LSD (0.05)†</b>			11.7	2.0	4.2	0.7	1000
<b>C.V.‡</b>			4.1	9.0	5.1	-	2.8

\* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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Table 2. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (101 day maturity or more)** at Miller, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Pioneer	P0339AM	103	<b>241.4</b>	17.7	58.7	0.8	25500
Wensman	W81041VT2RIB	104	<b>237.0</b>	19.2	60.5	0.0	25400
Dairyland Seed	DS-9701	101	225.2	17.8	58.2	0.0	24400
Dairyland Seed	DS-9905	105	222.9	20.4	57.0	1.3	24500
Federal Hybrids	5140 VT2P	101	221.3	16.3	58.9	1.3	26700
Titan Pro	TP 39-05 SS	105	221.0	20.0	58.9	0.9	24800
Wensman	W91011STXRIB	101	219.9	16.3	59.2	0.0	24800
Wensman	W81028VT2RIB	102	218.9	17.0	60.0	0.8	26100
Titan Pro	2M04-2P	104	217.3	18.7	58.6	0.4	24200
Check	Check	99	217.3	17.3	58.9	0.0	24000
Rea Hybrids	5A029-RIB	102	216.9	17.3	58.8	0.0	25500
Federal Hybrids	5250 SSTAX	102	216.4	17.3	59.4	0.4	25200
Channel	202-64STXRIB	102	214.8	17.7	60.6	0.9	24200
Nutech/G2 Genetics	5F-701	101	213.7	16.5	59.3	0.0	24600
Dairyland Seed	DS-9203	103	212.2	18.9	57.5	0.0	26400
Titan Pro	TP 58-01 2P	101	211.4	16.3	59.9	0.0	23500
Channel	202-52STXRIB	102	210.0	16.8	59.0	0.0	26600
Rea Hybrids	5A022-RIB	102	208.9	17.6	58.0	2.0	22400
Federal Hybrids	5245 VT2P	102	207.4	19.9	57.9	0.0	23400
Titan Pro	TP 31-01 3011A	101	205.4	17.3	59.4	0.4	26000
Rea Hybrids	6A032-RIB	103	205.4	18.8	59.2	0.9	24200
Dairyland Seed	DS-9805	103	204.7	20.0	57.1	0.8	25000
Titan Pro	TP 39-02 SS	102	201.6	18.6	57.5	1.0	19300
Renk Seed	RK666SSTX	102	201.3	17.4	57.6	0.5	24400
Renk Seed	RK699SSTX	105	163.6	20.8	58.3	3.5	16600
<b>Trial Average</b>			213.4	18.1	58.7	0.6	24300
<b>LSD (0.05)†</b>			14.3	0.9	0.9	1.7	1200
<b>C.V.‡</b>			4.7	3.6	1.1	-	3.4

\* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

**Jonathan Kleinjan** | SDSU Crop Performance Testing Director  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 8.5 miles west of South Shore (57263) in Codington County, SD  
(GPS: N 45°06.418' W 097°06.121")

Cooperator: SDSU Northeast Research Farm - Allen Heuer, manager

Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slope

Fertilizer: 150-100-50 preplant incorporated; 30-10-10 starter

Yield Goal: 200 bu/acre

Previous crop: Spring Wheat

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: Dual II (metolachlor)  
Post: Roundup Ultra (glyphosate)

Date seeded: 5/8/2014

Date harvested: 10/30/2015

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Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (95 day maturity or less)** at South Shore, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Titan Pro	2M95-2P	95	<b>220.7</b>	18.4	60.2	1.1	28300
Thunder Seed	7993 VT2PRIB	93	<b>219.6</b>	17.4	58.9	0.0	29800
Federal Hybrids	4550 SSTAX	95	<b>218.4</b>	17.5	60.1	0.0	28600
Channel	195-58STXRIB	95	<b>217.8</b>	17.8	60.1	0.0	28500
Check	Check	99	<b>217.7</b>	18.0	59.7	0.4	28900
Nuseed	9504 VT3P RIB	95	<b>217.6</b>	17.7	60.5	0.4	30400
Renk Seed	RK544SSTX	95	<b>216.9</b>	17.7	59.9	0.0	28200
Proseed	1495SS	95	<b>214.1</b>	18.4	59.0	0.0	29000
Rea Hybrids	3A922-RIB	92	<b>213.2</b>	16.9	60.6	0.0	29500
Federal Hybrids	4450 SSTAX	94	<b>212.7</b>	17.8	59.8	0.4	28100
Titan Pro	2M91-2P	91	211.3	16.6	60.0	0.7	29800
Federal Hybrids	4440 VT3P	94	210.5	17.1	59.7	0.4	28500
Thunder Seed	4695 RR	95	209.2	18.1	60.1	0.4	27600
Wensman	W90941STXRIB	94	208.3	16.6	59.6	1.2	27900
Federal Hybrids	4558 SSTAX	95	208.2	17.1	59.3	0.4	28600
Peterson Farms Seed	PFS 81W95	95	207.3	17.1	58.1	0.0	26700
Peterson Farms Seed	PFS 76S92	92	206.9	17.4	60.2	0.0	27900
Rea Hybrids	4B953-RIB	95	206.2	16.9	59.3	0.0	29200
Thunder Seed	101-95 GENSSRIB	95	204.4	18.7	59.3	0.0	27900
Nuseed	9304 SS RIB	93	204.3	17.4	60.2	0.4	29000
Proseed	1392 VT2P	92	204.0	16.9	59.2	0.4	29900
Federal Hybrids	4160 VT2P	91	203.9	16.6	59.1	0.0	28400
Nuseed	9202 VT2P RIB	92	203.5	15.9	59.5	0.0	26800
Federal Hybrids	4240 VT2P	92	202.5	17.9	60.4	0.0	26800
Federal Hybrids	4250 VT2P	92	201.6	16.0	59.4	1.2	27900
Federal Hybrids	4540 VT3P	95	201.2	17.6	60.0	0.8	28200
Nuseed	9001 VP3220 EZR	90	201.1	17.2	57.2	2.0	26700
Peterson Farms Seed	PFS 75T93	93	200.4	16.9	59.8	2.3	27900
Renk Seed	RK568VT3P	95	199.0	18.0	60.1	0.5	22900
Dairyland Seed	DS-9791RA	91	198.8	16.5	58.5	0.8	28200
<b>Trial Average</b>			202.5	17.4	59.5	0.6	26900
<b>LSD (0.05)†</b>			8.7	0.7	1.0	1.5	900
<b>C.V.‡</b>			3.2	3.0	1.2	-	2.4

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (95 day maturity or less)** at South Shore, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Channel	190-13VT2PRIB	90	198.7	16.0	58.4	0.0	26900
Legend Seeds	40J595 RR	95	198.5	17.4	61.2	0.0	27300
Wensman	W90935STXRIB	93	198.1	17.6	60.1	1.2	26500
Thunder Seed	4389 RR	89	197.4	15.7	60.4	3.4	28700
Titan Pro	TP-58-95 SS	95	197.1	18.8	59.0	0.5	23600
Legend Seeds	LR 9391 GEN SSRIB	91	196.9	16.7	59.3	0.0	28400
Channel	194-14STXRIB	94	196.3	17.2	58.0	1.3	25300
Rea Hybrids	3A929-RIB	92	192.9	17.9	59.7	0.0	22700
Rea Hybrids	4A930-RIB	93	192.4	18.0	59.0	0.0	24000
Renk Seed	RK522SSTX	94	191.7	17.6	59.0	0.5	23300
Wensman	W7110VT3PRIB	90	190.1	16.4	59.9	1.3	24800
Dairyland Seed	DS-9593	93	180.8	18.0	56.1	2.9	18400
Thunder Seed	4391 VT2	90	175.0	16.8	59.7	1.4	24000
<b>Trial Average</b>			202.5	17.4	59.5	0.6	26900
<b>LSD (0.05)†</b>			8.7	0.7	1.0	1.5	900
<b>C.V.‡</b>			3.2	3.0	1.2	-	2.4

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (96 day maturity or more)** at South Shore, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Rea Hybrids	5A992-RIB	99	<b>230.5</b>	17.9	59.1	0.0	29100
Dairyland Seed	DS-9599	99	<b>230.4</b>	20.1	57.2	0.0	27600
Pioneer	P9929AM	99	<b>223.8</b>	18.1	58.3	0.8	28200
Federal Hybrids	5050 VT2P	100	217.4	18.3	59.2	0.4	29800
Federal Hybrids	4640 VT3P	96	216.4	18.6	60.7	0.0	29000
Federal Hybrids	5140 VT2P	101	214.9	18.6	59.2	2.3	29100
Check	Check	99	214.9	18.4	60.7	0.4	27600
Wensman	W9288STXRIB	98	212.8	19.7	58.0	0.4	27600
Wensman	W90962STX	96	212.1	17.0	58.4	0.4	28900
Rea Hybrids	4A962-RIB	96	211.2	18.1	60.0	0.8	27900
Channel	197-68STXRIB	98	211.0	19.3	60.3	0.0	26900
Thunder Seed	7396 VT2PRIB	96	210.1	18.3	59.9	0.0	29500
Renk Seed	RK596SSTX	98	209.5	18.7	58.9	0.0	25500
Legend Seeds	LR 9397 VT3PRIB	97	208.4	18.2	59.8	1.1	29400
Wensman	W70975VT3PRIB	97	207.8	18.0	60.8	0.4	25600
Rea Hybrids	5A993-RIB	99	205.9	19.1	60.9	0.4	29800
Wensman	W90994STX	99	205.9	19.1	58.5	1.4	24000
Rea Hybrids	4A972-RIB	97	204.7	16.9	59.7	0.0	28300
Legend Seeds	LR 9600 GENSSRIB	100	204.5	19.5	58.9	0.0	27300
Dairyland Seed	DS-9198	98	204.4	17.9	56.7	0.4	26000
Wensman	W90979STXRIB	97	204.4	18.4	60.3	0.0	26800
Proseed	13101 SS	101	201.3	19.0	60.3	0.8	26600
Thunder Seed	101-97 GENSSRIB	97	200.9	18.1	59.6	0.0	28500
Legend Seeds	LR 9497 GENSSRIB	97	200.8	18.6	59.0	0.0	27400
Thunder Seed	7603 GENSSRIB	103	200.1	19.0	59.7	1.3	25600
Peterson Farms Seed	PFS 55S96	96	199.5	18.0	60.5	0.0	24700
Dairyland Seed	DS-9701	101	199.5	20.3	58.8	0.5	23400
Proseed	1399A GT3000	99	199.1	20.7	56.2	1.7	18700
Thunder Seed	6600 VT2PRIB	100	198.3	19.3	59.7	0.5	23400
Channel	197-50STXRIB	97	197.5	19.9	58.4	0.5	22900
<b>Trial Average</b>			201.2	18.1	57.6	0.5	26000
<b>LSD (0.05)†</b>			10.1	1.0	1.0	1.5	1000
<b>C.V.‡</b>			3.6	3.8	1.3	-	2.8

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Late Season Trial (96 day maturity or more)** at South Shore, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Proseed	1496 SS	96	194.1	19.1	60.5	0.0	27400
Federal Hybrids	4760 SSTAX	97	193.6	18.1	59.2	0.9	25200
Pioneer	P9703AM	97	192.4	16.5	58.9	3.3	26900
<b>Trial Average</b>			201.2	18.1	57.6	0.5	26000
<b>LSD (0.05)†</b>			10.1	1.0	1.0	1.5	1000
<b>C.V.‡</b>			3.6	3.8	1.3	-	2.8

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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**Jonathan Kleinjan** | SDSU Crop Performance Testing Director  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 1.5 miles south of Volga (57101) in Brookings County, SD  
(GPS: N 44°17.926' W 096°55.562')

Cooperator: SDSU Volga Research Farm - Jack Ingemansen, manager

Soil Type: Brandt silty clay loam, 0-2% slope

Fertilizer: 180-40-40 preplant

Yield Goal: 200 bu/ac

Previous crop: Spring wheat

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: Staunch (acetochlor)  
Post: Roundup Power Max (glyphosate)

Date seeded: 4/27/2015

Date harvested: 10/21/2015

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Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Volga, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Wensman	W81007STX	100	<b>263.4</b>	20.1	60.1	0.8	29100
Renk Seed	RK612SSTX	100	<b>253.6</b>	18.9	57.9	2.9	29800
Great Lakes Hybrids	4879STXRIB	98	<b>252.7</b>	17.4	59.9	0.4	29500
Nutech/G2 Genetics	5F-200	100	<b>251.8</b>	19.6	58.4	1.6	28400
Masters Choice	MCT 4881	98	246.4	17.1	59.4	4.5	28900
Rea Hybrids	5A992-RIB	99	243.8	16.7	58.2	0.0	29300
Wensman	W9288STXRIB	98	241.0	17.1	59.2	0.0	28200
Nutech/G2 Genetics	5F-198	98	240.5	15.8	56.7	0.4	27800
Dairyland Seed	DS-9599	99	240.4	17.2	58.7	1.9	27700
Great Lakes Hybrids	5015STXRIB	100	240.1	18.1	59.0	2.7	28400
Rea Hybrids	5A993-RIB	99	240.1	19.0	62.0	0.0	29100
Renk Seed	RK596SSTX	98	239.6	16.9	59.7	0.4	28500
Federal Hybrids	4440 VT3P	94	239.5	16.6	60.1	0.0	29000
Proseed	1399A GT3000	99	239.4	16.7	58.3	3.3	26900
Thunder Seed	6600 VT2PRIB	100	238.3	18.5	59.1	0.0	27300
Federal Hybrids	5050 SSTAX	100	237.5	16.9	59.2	0.8	29100
Check	CHECK	99	237.5	18.1	59.6	0.4	28300
Thunder Seed	101-97 GENSSRIB	97	237.1	16.9	60.2	0.0	29700
Wensman	W90994STX	99	236.6	17.9	58.6	0.0	27100
Wensman	W90979STXRIB	97	236.3	15.8	58.8	0.4	28900
Legend Seeds	LR 9600 GENSSRIB	100	236.3	18.6	58.4	0.0	27600
Channel	197-68STXRIB	98	236.2	18.6	58.7	0.0	26100
Pioneer	P9929AM	99	235.2	17.4	59.1	0.8	28900
Dairyland Seed	DS-9198	98	235.1	15.9	57.8	0.0	29200
Wensman	W70975VT3PRIB	97	234.4	15.7	60.1	0.0	28500
Peterson Farms Seed	PFS 55S96	96	233.6	16.2	59.5	0.0	29100
Federal Hybrids	4450 SSTAX	94	233.4	16.4	59.7	1.2	28500
Nuseed	9904 VT2P RIB	99	232.9	16.1	58.9	0.0	26700
Federal Hybrids	4558 SSTAX	95	232.6	15.5	58.6	0.0	29700
Federal Hybrids	4540 VT3P	95	232.2	16.6	59.6	0.0	29200
<b>Trial Average</b>			230.0	16.7	58.0	0.6	27500
<b>LSD (0.05)†</b>			11.9	1.1	0.9	1.6	1400
<b>C.V.‡</b>			3.7	4.9	1.2	-	3.5

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Volga, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Great Lakes Hybrids	4548STXRIB	95	232.1	16.1	60.3	0.0	28200
Legend Seeds	LR 9397 VT3PRIB	97	231.0	16.0	59.2	0.0	29300
Channel	200-48STXRIB	100	230.8	19.5	58.5	0.8	25500
Federal Hybrids	4760 SSTAX	97	230.7	16.3	58.4	0.8	27000
Rea Hybrids	4A962-RIB	96	230.3	17.2	59.5	0.0	27400
Legend Seeds	40J595 RR	95	229.9	16.1	61.6	1.6	27300
Rea Hybrids	5A981-RIB	98	229.8	18.0	59.6	0.0	27100
Wensman	W90941STXRIB	94	229.8	14.2	58.6	1.2	28600
Proseed	1495SS	95	229.7	16.0	59.8	3.5	28000
Channel	197-50STXRIB	97	228.8	19.2	58.2	0.0	24500
Rea Hybrids	4A972-RIB	97	228.4	15.6	59.1	0.8	28400
Legend Seeds	LR 9497 GENSSRIB	97	228.2	18.4	58.9	0.0	27400
Thunder Seed	101-95 GENSSRIB	95	227.8	18.2	58.7	0.0	27000
Thunder Seed	7396 VT2PRIB	96	227.6	16.0	58.7	0.0	28500
Wensman	W90962STX	96	225.4	14.9	58.0	0.0	28700
Federal Hybrids	4640 VT3P	96	223.7	15.4	61.3	0.0	28600
Thunder Seed	4695 RR	95	222.7	16.8	60.0	0.8	27400
Nutech/G2 Genetics	5F-196	96	222.2	15.9	57.4	0.4	23600
Federal Hybrids	4550 SSTAX	95	219.5	16.1	57.2	0.0	27800
Peterson Farms Seed	PFS 81W95	95	218.1	14.7	58.4	0.0	27400
Proseed	1496 SS	96	217.2	18.4	58.1	0.0	27100
<b>Trial Average</b>			230.0	16.7	58.0	0.6	27500
<b>LSD (0.05)†</b>			11.9	1.1	0.9	1.6	1400
<b>C.V.‡</b>			3.7	4.9	1.2	-	3.5

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (101 day maturity or more)** at Volga, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Great Lakes Hybrids	5688STXRIB	106	<b>255.0</b>	23.2	59.0	0.0	27800
Dairyland Seed	DS-9203	103	<b>253.2</b>	21.2	58.6	0.0	29500
Pioneer	P0339AM	103	<b>252.1</b>	18.4	58.3	0.8	28400
Rea Hybrids	5A029-RIB	102	<b>251.6</b>	17.1	59.1	0.0	29300
Wensman	W9325STXRIB	102	<b>249.7</b>	17.7	59.1	0.4	28200
Wensman	W91011STXRIB	101	<b>246.5</b>	17.3	58.2	0.0	27100
Federal Hybrids	5250 SSTAX	102	<b>246.4</b>	17.1	60.6	0.0	29000
Masters Choice	MCT 5371	103	<b>245.0</b>	18.0	59.2	0.4	26500
Dairyland Seed	DS-9905	105	<b>244.7</b>	22.0	57.2	1.9	29200
Rea Hybrids	6A032-RIB	103	<b>243.9</b>	20.0	60.2	0.0	26000
Pioneer	P0589AM	105	<b>243.8</b>	20.8	57.9	0.0	29000
Dairyland Seed	DS-9701	101	243.5	17.9	58.8	0.0	27300
Dairyland Seed	DS-9805	103	243.1	22.5	56.9	0.0	28500
Great Lakes Hybrids	5283STXRIB	102	242.8	18.0	58.6	0.4	28300
Titan Pro	2M04-2P	104	242.7	19.8	59.7	0.4	27700
Channel	202-52STXRIB	102	242.2	17.3	58.3	0.0	29200
Federal Hybrids	5140 SSTAX	101	240.9	17.8	59.4	0.7	28300
Titan Pro	TP 39-05 SS	105	240.1	22.4	60.1	0.0	26700
Channel	202-64STXRIB	102	238.0	19.0	60.7	0.0	27000
Renk Seed	RK666SSTX	102	236.3	17.3	57.1	0.0	27400
Titan Pro	TP 39-02 SS	102	235.7	18.2	59.0	0.8	25900
Channel	203-88STXRIB	103	234.8	20.0	57.2	0.4	27400
Great Lakes Hybrids	5470STXRIB	104	234.5	20.2	59.3	0.0	28700
Check	CHECK	99	234.2	17.5	59.9	0.4	28300
Nutech/G2 Genetics	5F-701	101	232.5	18.3	59.7	0.0	27400
Legend Seeds	LR 9405 GENSSRIB	105	232.4	21.6	59.7	0.0	27200
Titan Pro	TP 31-01 3011A	101	232.1	18.5	60.0	1.3	27100
Legend Seeds	LR 94A01 GTA	101	231.4	17.2	59.5	0.0	28300
Titan Pro	TP 58-01 2P	101	229.5	17.0	59.0	0.0	27100
Renk Seed	RK699SSTX	105	223.3	22.2	58.1	0.5	23000
Proseed	13101 SS	101	211.6	17.3	58.7	0.0	26200
<b>Trial Average</b>			239.8	19.1	58.9	0.3	27700
<b>LSD (0.05)†</b>			11.4	1.0	1.2	1.2	1100
<b>C.V.‡</b>			3.4	3.7	1.5	-	2.9

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

**Jonathan Kleinjan** | SDSU Crop Performance Testing Director  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 4 miles north and 1/2 mile west of Bancroft (57353) in Kingsbury County  
(GPS: 44.543921, -97.767418)

Cooperator: Weerts Farm, Inc.

Soil Type: Houdek-Stickney loam, 0-2% slope, non-irrigated

Fertilizer: 135-75-0-10S-2Z preplant; 30-10-10 starter

Yield Goal: 170 bu/ac

Previous crop: Soybeans

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: 1.5 pt Harness (acetochlor), fall applied  
Post: 1 qt Roundup PowerMax (glyphosate) + 1 qt TripleFlex (acetochlor +  
flumetsulam + clopyralid) + 30 oz Status (dicamba + diflufenzopyr)

Date seeded: 5/16/2016

Date harvested: 11/7/2016

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Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Bancroft, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
NuTech/G2 Genetics	5F-196	96	<b>232.8</b>	15.4	58.9	0.0	28300
NuTech/G2 Genetics	5F-198	98	<b>231.2</b>	14.8	56.4	0.0	27100
Federal Hybrids	4640 VT2P RIB	96	<b>229.4</b>	15.8	61.6	0.4	28200
Heine Seeds	723VT2PRORIB	100	<b>227.2</b>	16.0	60.6	0.0	29200
Proseed	1399A 3000GT	99	<b>223.3</b>	16.0	58.7	0.0	27900
Thunder Seed	EXP 7899 SS	99	<b>222.6</b>	15.6	59.3	0.0	27600
Dairyland Seed	DS-9599	99	<b>221.6</b>	15.8	58.7	0.0	28600
Wensman	W81007VT2RIB	100	<b>221.3</b>	16.5	61.4	0.0	27300
Channel	197-50STXRIB	97	<b>221.2</b>	15.1	59.2	0.0	27900
Thunder Seed	4695 RR	95	<b>220.3</b>	15.2	60.5	0.0	27900
Renk	RK596SSTX	98	<b>220.0</b>	15.0	59.3	0.0	24800
Federal Hybrids	4560 VT2P RIB	95	<b>219.9</b>	15.2	61.5	0.0	28000
Federal Hybrids	4470 VT2P	94	<b>219.6</b>	14.9	60.2	0.0	27800
Peterson Farms Seed	72D00	100	<b>219.5</b>	15.5	59.8	0.0	27400
Wensman	W8184VT2RIB	95	<b>218.9</b>	15.3	60.9	0.0	29000
Titan Pro	TP 54-98 2P	98	<b>218.3</b>	15.6	60.2	0.0	28500
Proseed	PX 598	98	217.7	15.2	60.1	0.0	29000
Federal Hybrids	5060 VT2P	100	217.6	15.6	60.9	0.0	28200
Thunder Seed	EXP 6791 VT2P	91	217.6	14.9	61.9	0.0	27800
Proseed	PX 695	95	217.5	15.5	61.4	0.4	29000
Federal Hybrids	4540 VT3P RIB	95	217.1	15.3	60.1	0.0	27800
Wensman	W80993VT2PRO	99	215.2	15.9	61.7	0.0	29000
Heine Seeds	639STXRIB	99	213.8	15.2	60.5	0.0	28300
Federal Hybrids	4240 VT2P RIB	92	213.5	14.9	60.8	0.0	27600
Titan Pro	TP 65-00 2P	100	213.3	15.6	60.1	0.0	27700
Federal Hybrids	3970 VT2P	89	213.2	14.3	60.7	0.0	28700
Renk	RK595SSTX	99	213.2	14.9	60.7	0.0	29100
Heine Seeds	712VT2PRORIB	100	213.0	15.5	61.0	0.0	27600
Peterson Farms Seed	77P94	94	212.5	15.1	59.3	0.0	26900
Federal Hybrids	4520 VT2P RIB	95	212.0	15.8	61.7	0.0	27800
<b>Trial Average</b>			212.8	15.2	60.2	0.2	27800
<b>LSD (0.05)†</b>			15.0	0.6	1.0	0.3	1100
<b>C.V.‡</b>			5.1	2.8	1.1	-	2.9

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Bancroft, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Wensman	W90994STXRIB	99	211.3	15.0	60.3	0.0	28300
Wensman	W80972VT2PRO	97	209.5	15.2	59.6	0.4	28000
Wensman	W90962STXRIB	96	209.5	14.6	61.0	0.0	29200
Wensman	W90979STXRIB	97	209.3	15.1	60.1	0.0	29100
Peterson Farms Seed	55S96	96	208.9	15.3	60.4	0.0	25300
Thunder Seed	7396 VT2P	96	207.9	14.5	60.7	0.0	28300
Federal Hybrids	4760 VT2P RIB	97	207.3	14.9	59.5	0.0	27900
Federal Hybrids	4558 SSTAX RIB	95	206.0	14.7	60.1	0.0	27100
Check	Check	99	206.0	15.0	60.7	0.0	26100
Thunder Seed	101-95 SS	95	205.3	14.9	59.4	0.0	28000
Channel	197-68STXRIB	97	204.8	15.3	60.6	0.0	28000
Federal Hybrids	4160VT2P RIB	91	203.4	14.4	59.7	0.4	28400
Federal Hybrids	4440 VT2P RIB	94	202.8	15.0	60.5	0.0	27900
Dairyland Seed	DS-9198RA	98	202.1	13.9	59.3	0.0	27200
Renk	RK612SSTX	100	201.7	14.7	58.9	0.0	27700
NuTech/G2 Genetics	5N-800	100	201.6	15.8	60.8	0.0	25900
Peterson Farms Seed	81W95	95	201.4	14.8	59.0	0.0	27400
Federal Hybrids	4870 SSTAX	98	198.7	15.4	60.6	0.0	26400
Proseed	1496 SS	96	197.1	15.0	59.0	0.0	27000
Thunder Seed	6600 VT2P	100	196.8	15.8	61.5	0.0	25400
Federal Hybrids	4060 VT2P RIB	90	184.6	14.1	59.7	0.0	28300
<b>Trial Average</b>			212.8	15.2	60.2	0.2	27800
<b>LSD (0.05)†</b>			15.0	0.6	1.0	0.3	1100
<b>C.V.‡</b>			5.1	2.8	1.1	-	2.9

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (101 day maturity or more)** at Bancroft, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
NuTech/G2 Genetics	5F-701	101	<b>222.3</b>	16.1	61.3	0.0	27600
NuTech/G2 Genetics	5Z-503	103	<b>220.2</b>	15.7	60.1	0.0	27800
NuTech/G2 Genetics	5Z-601	101	<b>219.9</b>	15.6	60.2	0.0	27600
NuTech/G2 Genetics	5F-504	104	<b>219.8</b>	16.6	59.8	0.0	27000
Dairyland Seed	DS-9403	103	<b>219.4</b>	16.6	57.0	0.0	28300
Federal Hybrids	5370 SSTAX	103	<b>216.8</b>	16.0	60.9	0.0	28500
Federal Hybrids	5260 DGVT2P RIB	102	<b>215.2</b>	15.0	61.4	0.0	27100
Thunder Seed	EXP 7805 SS	105	<b>213.3</b>	16.2	60.6	0.0	28700
Federal Hybrids	5550 SSTAX RIB	105	<b>212.6</b>	16.3	59.1	0.0	27900
Dairyland Seed	DS-9204	104	<b>212.2</b>	17.2	58.0	0.0	28100
Titan Pro	TP 67-02 SS	102	209.9	15.1	60.3	0.0	27300
Titan Pro	TP 58-01 2P	101	206.3	15.6	61.4	0.0	27600
Wensman	W9325STXRIB	102	206.3	15.4	58.9	0.0	27400
Federal Hybrids	5250 SSTAX RIB	102	205.6	15.8	60.8	0.0	27300
Federal Hybrids	5140 VT2P RIB	101	205.4	15.7	58.7	0.0	27900
Channel	201-37VT2PRIB	101	204.7	15.2	58.7	0.0	27900
Channel	205-19STXRIB	105	204.0	15.5	57.4	0.0	24900
Thunder Seed	EXP 6803 VT2P	103	203.8	17.7	59.8	0.0	24800
Dairyland Seed	DS-9701RA	101	203.7	15.5	57.9	0.0	26400
Channel	203-01STXRIB	103	202.5	15.2	56.8	0.0	26200
Check	Check	99	199.4	14.8	59.3	0.0	25800
Channel	206-30STXRIB	106	199.0	17.9	59.9	0.0	28200
Thunder Seed	7603 SS	103	198.0	15.9	59.0	0.0	27700
Dairyland Seed	DS-9802	102	196.8	15.8	57.9	0.0	27900
Dairyland Seed	DS-9106	106	195.0	17.1	59.7	0.0	26500
Titan Pro	TP 31-01 3011A	101	193.9	15.8	60.4	4.7	27700
Channel	202-52STXRIB	102	193.5	15.8	58.0	0.0	25900
NuTech/G2 Genetics	5H-502	102	185.0	16.0	59.4	0.0	22800
Federal Hybrids	5440 SSTAX RIB	104	182.3	15.2	58.0	0.0	27600
<b>Trial Average</b>			206.0	15.9	59.4	0.2	27100
<b>LSD (0.05)†</b>			12.3	0.5	0.8	0.3	1000
<b>C.V.‡</b>			4.2	2.1	1.0	-	2.6

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

**Jonathan Kleinjan** | SDSU Crop Performance Testing Director  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 5 miles south and 2.5 miles east of Bath (57427) in Brown County, SD  
(GPS: 45.386746, -98.284948)

Cooperator: Gordon and Roger Locken Farms

Soil Type: Great Bend-Beotia silt loams, 0-2% slopes, non-irrigated

Fertilizer: 180-96-0-11S preplant; 30-10-10 starter

Yield Goal: 200 bu/acre

Previous crop: Soybeans

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: none  
Post: 1 qt Powermax (glyphosate)

Date seeded: 5/4/2016

Date harvested: 11/4/2016

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Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (95 day maturity or less)** at Bath, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Wensman	W8184VT2RIB	95	<b>250.7</b>	16.0	60.8	0.0	29100
Channel	195-18VT2PRIB	95	<b>249.6</b>	17.4	62.9	0.0	29800
Heine Seeds	615VT2PRO	95	<b>249.6</b>	16.2	59.9	0.0	29400
Dairyland Seed	DS-7294	94	<b>246.7</b>	16.5	61.2	0.4	29100
Proseed	PX 695	95	<b>245.2</b>	16.5	60.8	0.0	29000
Federal Hybrids	4560 SSTAX RIB	95	<b>245.2</b>	16.4	59.0	0.0	29300
Federal Hybrids	4470 VT2P	94	<b>243.6</b>	16.0	60.3	0.0	28000
Peterson Farms Seed	77P94	94	<b>243.4</b>	15.8	59.8	0.0	27300
Heine Seeds	627VT3PRORIB	95	<b>241.4</b>	16.3	61.5	0.4	28400
Federal Hybrids	4160 VT2P RIB	91	<b>240.7</b>	15.3	59.9	0.0	29100
Thunder Seed	EXP 6791 VT2P	91	<b>239.6</b>	15.3	60.2	0.0	28400
Federal Hybrids	4558 SSTAX RIB	95	<b>237.7</b>	15.4	59.4	0.0	28400
Federal Hybrids	4540 VT3P RIB	95	<b>237.6</b>	16.7	60.5	0.0	28000
Wensman	W80928VT2RIB	92	<b>237.5</b>	15.3	61.0	0.3	29900
Peterson Farms Seed	72A91	91	<b>237.5</b>	15.4	60.8	0.0	29000
Federal Hybrids	3970 VT2P	89	<b>237.5</b>	15.2	60.9	0.0	29300
Thunder Seed	7993 VT2P	93	237.3	15.8	60.2	0.0	28900
Check	Check	99	237.3	15.6	59.1	0.0	28000
Thunder Seed	4695 RR	95	237.2	16.1	60.0	0.4	29400
Wensman	W80952VT2RIB	95	237.1	16.4	58.9	1.1	29100
NuTech/G2 Genetics	5F-894	94	236.5	15.8	58.7	0.0	28600
Renk	RK568VT3P	95	233.1	16.7	61.0	0.0	27100
Wensman	W80931VT2RIB	93	232.2	15.4	59.8	0.0	28700
Peterson Farms Seed	81W95	95	231.8	15.6	59.3	0.0	27700
NuTech/G2 Genetics	5F-091	91	231.1	15.6	60.8	0.0	27700
Federal Hybrids	4520 VT3P RIB	95	230.3	17.1	60.8	0.8	28400
Peterson Farms Seed	76S92	92	229.9	15.7	59.1	0.0	29100
Federal Hybrids	4440 VT3P RIB	94	229.9	16.1	60.7	0.0	27300
Federal Hybrids	4060 VT2P RIB	90	228.1	15.3	59.8	0.4	28600
Federal Hybrids	4240 VT2P RIB	92	228.0	15.8	60.9	0.4	28900
<b>Trial Average</b>			235.4	16.0	60.2	0.2	28300
<b>LSD (0.05)†</b>			13.3	0.5	0.9	0.7	1300
<b>C.V.‡</b>			4.0	2.1	1.1	-	3.3

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (95 day maturity or less)** at Bath, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Renk	RK566SSTX	94	224.5	16.0	59.4	0.0	25400
Thunder Seed	101-95 SS	95	223.3	16.6	60.9	0.0	27400
Stine	R9209-32	94	220.0	15.5	60.6	0.0	26200
Stine	9314-20	94	217.6	17.1	58.5	0.4	28400
Renk	RK522SSTX	94	210.0	15.7	60.2	0.9	25000
<b>Trial Average</b>			235.4	16.0	60.2	0.2	28300
<b>LSD (0.05)†</b>			13.3	0.5	0.9	0.7	1300
<b>C.V.‡</b>			4.0	2.1	1.1	-	3.3

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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Table 2a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (96 day maturity or more)** at Bath, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Heine Seeds	639STXRIB	99	<b>257.2</b>	16.7	58.2	1.2	29100
NuTech/G2 Genetics	5F-196	96	<b>256.2</b>	16.5	58.4	0.8	28500
NuTech/G2 Genetics	5Z-601	101	<b>255.8</b>	18.0	59.0	0.4	28600
Federal Hybrids	5370 SSTAX	103	<b>254.9</b>	19.0	59.7	3.8	28700
Renk	RK608DGV2P	100	<b>254.6</b>	16.9	58.0	0.4	28500
Thunder Seed	EXP 7899 SS	99	<b>251.7</b>	16.5	58.6	0.0	28200
Proseed	1399A 3000 GT	99	<b>250.3</b>	17.4	58.6	0.4	29000
Proseed	PX 598	98	<b>249.3</b>	16.7	58.7	0.4	29300
NuTech/G2 Genetics	5F-701	101	<b>248.3</b>	18.1	59.7	0.0	29100
Federal Hybrids	4760 SSTAX RIB	97	<b>246.2</b>	16.9	58.2	1.1	28500
Thunder Seed	7603 SS	103	<b>245.5</b>	17.7	59.5	1.2	28300
Renk	RK595SSTX	99	<b>244.3</b>	16.5	59.5	0.0	28500
Wensman	W80993VT2PRO	99	<b>243.9</b>	17.4	60.6	0.7	29200
Federal Hybrids	5440 SSTAX RIB	104	<b>243.4</b>	19.8	56.5	0.4	27800
Thunder Seed	7396 VT2P	96	242.4	16.1	59.1	1.1	28300
Wensman	W80972VT2PRO	97	241.6	16.1	58.9	0.0	29100
NuTech/G2 Genetics	5F-198	98	241.4	15.8	56.0	0.4	27700
Federal Hybrids	5250 SSTAX RIB	102	240.5	18.0	60.0	0.8	28600
Check	Check	99	239.4	15.9	58.2	0.4	28500
Federal Hybrids	5550 SSTAX RIB	105	237.9	18.9	58.1	3.7	27100
Federal Hybrids	5060 SSTAX RIB	100	237.2	17.4	59.5	0.0	26800
Stine	R9428-32	100	236.7	18.0	59.1	0.4	28300
Wensman	W90962STXRIB	96	236.5	15.4	58.5	1.1	29000
Federal Hybrids	5260 DGV2P RIB	102	236.1	17.0	61.5	1.5	28600
Channel	197-50STXRIB	97	235.5	16.7	59.4	0.7	28700
Dairyland Seed	DS-9599	99	235.3	18.0	57.6	0.0	28300
Channel	197-68STXRIB	97	234.8	17.0	58.4	0.0	26700
Peterson Farms Seed	55S96	96	234.1	16.5	59.4	0.0	27700
Wensman	W8294VT2RIB	99	233.0	17.6	59.6	0.8	26800
Dairyland Seed	DS-9198RA	98	232.2	15.8	57.2	0.8	28600
<b>Trial Average</b>			238.3	17.1	58.8	0.8	28200
<b>LSD (0.05)†</b>			14.1	0.7	1.1	1.6	1200
<b>C.V.‡</b>			4.2	2.8	1.4	-	3.1

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Late Season Trial (96 day maturity or more)** at Bath, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Federal Hybrids	5140 SSTAX RIB	101	230.6	18.1	59.5	1.2	28500
Renk	RK612SSTX	100	229.6	16.5	58.5	1.6	27300
Federal Hybrids	4870 SSTAX	98	225.5	16.8	61.0	0.0	27200
Dairyland Seed	DS-9701RA	101	224.3	17.6	57.0	4.6	28600
Thunder Seed	6600 VT2P	100	223.9	17.2	59.4	0.4	25800
Renk	RK596SSTX	98	223.6	17.1	59.3	1.2	27400
Proseed	1496 SS	96	204.2	17.1	58.2	0.0	26600
Federal Hybrids	4640 VT3P RIB	96	198.9	15.7	59.5	0.0	28700
<b>Trial Average</b>			238.3	17.1	58.8	0.8	28200
<b>LSD (0.05)†</b>			14.1	0.7	1.1	1.6	1200
<b>C.V.‡</b>			4.2	2.8	1.4	-	3.1

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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**Jonathan Kleinjan** | SDSU Crop Performance Testing Director  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 6 miles west and 3 miles south of Beresford (57432) in Clay county, SD  
(GPS: N 43°02.783' W 096°54.125')

Cooperator: SDSU Southeast Research Farm - Peter Sexton, manager

Soil Type: Egan-Clarno-Trent silty complex, 0-2% slope, non-irrigated

Fertilizer: 130-0-0 preplant; 30-10-10 starter

Yield Goal: 200 bu/acre

Previous crop: Soybeans

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: 32 oz Roundup (glyphosate) + 1.33 pt Dual (metolachlor) + 4 oz Metribuzin  
(metribuzin) + 1 oz Sharpen (saflufenacil)  
Post: none

Date seeded: 5/6/2016

Date harvested: 10/26/2016

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Table 1. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (107 day maturity or less)** at Beresford, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Channel	207-27STXRIB	107	<b>234.7</b>	17.4	59.5	0.0	28900.0
Nutech/G2 Genetics	5F-504	104	<b>233.9</b>	16.9	61.1	0.7	28600.0
Nutech/G2 Genetics	5F-906	106	<b>230.7</b>	17.6	60.2	0.0	26300.0
Renk	RK776SSTX	107	<b>229.6</b>	17.7	60.0	0.7	28000.0
Heine	790VT2PRORIB	107	<b>228.1</b>	17.2	59.2	0.7	27600.0
Hoegemeyer	HPT7606AM	106	<b>226.6</b>	17.0	60.6	0.0	26300.0
Great Lakes Hybrids	5470STXRIB	104	<b>224.9</b>	15.8	58.9	0.4	28600.0
Nutech/G2 Genetics	5H-806	106	<b>224.7</b>	17.0	60.3	0.0	27600.0
Hoegemeyer	HPT7557AM	105	<b>224.5</b>	17.2	59.8	0.0	26300.0
Nutech/G2 Genetics	5H-905	105	<b>224.5</b>	15.7	56.6	0.3	26300.0
Titan Pro	TP 56-06 3110	106	<b>224.3</b>	16.4	58.1	0.0	28200.0
Heine	775STXRIB	107	<b>223.8</b>	16.2	59.7	0.0	28200.0
Wensman	W91051STXRIB	105	<b>223.0</b>	16.6	59.2	0.0	26700.0
Great Lakes Hybrids	5755STXRIB	107	<b>222.4</b>	16.4	60.5	1.1	28000.0
Dyna-Gro Seed	D44VC36RIB	104	<b>222.1</b>	17.4	59.6	0.0	27500.0
Great Lakes Hybrids	5029VT2RIB	100	<b>220.5</b>	15.9	58.5	0.3	28600.0
Heine	791VT2PRORIB	107	<b>219.7</b>	17.9	59.0	1.4	27900.0
Thunder Seed	EXP 6803 VT2P	103	<b>219.5</b>	17.7	59.2	0.0	26300.0
Heine	744VT3PRORIB	104	213.5	16.3	59.1	0.3	25500.0
Hoegemeyer	HPT7644AM	106	211.7	16.6	59.6	0.0	26600.0
Heine	755VT2PRO	105	210.8	16.3	58.6	1.1	26700.0
Wensman	W9325STXRIB	102	209.4	15.9	58.7	0.3	27800.0
Masters Choice	MCT 5663	106	209.2	17.5	57.1	0.8	24300.0
Thunder Seed	EXP 7805 SS	105	208.9	15.9	58.9	0.0	27900.0
Wensman	W91073STXRIB	107	207.3	17.2	57.9	0.0	22700.0
Great Lakes Hybrids	4548STXRIB	95	203.9	15.2	60.5	0.0	27600.0
Thunder Seed	7603 SS	103	203.7	15.3	58.4	0.3	28100.0
Masters Choice	MCT 5371	103	201.3	16.1	58.2	0.4	24000.0
Check	Check	99	198.5	15.1	56.4	0.0	25800.0
Masters Choice	MCT 5454	104	198.2	16.3	59.1	1.9	26700.0
Great Lakes Hybrids	4879STXRIB	98	196.2	15.4	58.0	0.0	27600.0
Great Lakes Hybrids	5283STXRIB	102	196.0	15.9	58.0	0.0	27400.0
Stine	9538-20	104	188.3	17.4	60.0	0.8	23000.0
Stine	9529E-20	105	184.9	18.7	60.1	0.0	23100.0
<b>Trial Average</b>			213.2	16.6	59.2	0.4	26800.0
<b>LSD (0.05)†</b>			16.2	0.7	1.1	1.1	1100.0
<b>C.V.‡</b>			5.4	2.7	1.3	-	2.9

\* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - Late **Season Trial (108 day maturity or more)** at Beresford, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Nutech/G2 Genetics	5F-308	108	<b>240.8</b>	19.8	59.9	0.0	27000
Hoegemeyer	HPT8066AM	110	<b>236.5</b>	19.3	60.0	0.0	28000
Channel	209-53STXRIB	109	<b>230.3</b>	20.2	59.7	0.4	28200
Heine Seeds	834DGV2PRO	112	<b>229.9</b>	19.9	59.1	0.0	27200
Dyna-Gro Seed	D52SS91RIB	112	<b>227.7</b>	22.0	59.1	0.4	26800
Nutech/G2 Genetics	5F-510	110	<b>226.7</b>	19.9	60.4	0.0	27200
Renk	RK877DGV2P	111	225.8	21.7	58.9	0.0	24800
Great Lakes Hybrids	6185STXRIB	111	224.5	18.7	59.1	0.0	26900
Titan Pro	TP 66-10 2P	110	223.9	19.3	58.7	0.0	24700
Renk	RK871VT2P	111	223.7	21.2	59.0	0.0	23800
Nutech/G2 Genetics	5F-709	109	222.3	19.9	58.3	0.4	25300
Titan Pro	TP 59-08 SS	108	222.2	17.9	59.7	0.0	25600
Great Lakes Hybrids	6462STXRIB	114	218.0	21.7	60.3	0.4	26600
Renk	RK810SSTX	110	217.3	19.5	58.9	0.4	28400
Channel	209-44VT2PRIB	109	216.5	19.4	58.4	0.4	25200
Great Lakes Hybrids	5824STXRIB	108	215.1	18.5	61.2	0.4	25900
Dyna-Gro Seed	D49VC39RIB	109	215.1	19.4	59.8	0.0	25000
Titan Pro	TP 55-11 2P	111	212.9	20.2	58.9	0.0	25000
Wensman	W91095STXRIB	109	203.5	18.5	60.5	0.0	27000
Channel	211-35STXRIB	111	202.6	21.8	59.9	0.4	26600
Renk	RK792SSTX	108	198.7	18.0	59.2	0.0	25200
Great Lakes Hybrids	5944STXRIB	109	193.9	19.3	58.2	0.0	21500
Check	Check	99	189.9	15.4	58.6	0.0	25800
Wensman	W91112STXRIB	111	189.8	19.3	59.6	0.0	21500
<b>Trial Average</b>			215.1	19.3	59.3	0.1	25900
<b>LSD (0.05)†</b>			14.6	0.8	0.8	0.6	919
<b>C.V.‡</b>			4.8	2.9	1.0	-	2.5

\* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

**Jonathan Kleinjan** | SDSU Crop Performance Testing Director  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 2 miles North of Geddes (57432) in Charles Mix County, SD  
(GPS: N 43°16.958' W 098°39.895')

Cooperator: Curtis Sybesma

Soil Type: Highmore silt loam, 0-2% slope

Fertilizer: 120-46-0-32S-2Z preplant; 30-10-10 starter

Yield Goal: 170 bu/acre

Previous crop: Soybeans

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 27,000/acre

Herbicide: Pre: 1.5 qt Harness Xtra (acetochlor) + 1 qt RT3 (glyphosate) + 12 oz Strut  
(dicamba)  
Post: none

Date seeded: 5/6/2016

Date harvested: 10/26/2016

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Table 1. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (107 day maturity or less)** at Geddes, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Heine Seeds	791VT2PRORIB	107	<b>180.2</b>	16.4	59.1	0.0	25300
Hoegemeyer	HPT7644AM	106	<b>176.2</b>	15.7	59.8	0.0	26000
Heine Seeds	790VT2PRORIB	107	<b>176.1</b>	16.2	59.8	0.0	25900
Nutech/G2 Genetics	5H-905	105	<b>173.0</b>	14.5	57.4	0.0	24800
Nutech/G2 Genetics	5F-504	104	<b>172.6</b>	16.5	59.7	1.6	26200
Heine Seeds	755VT2PRO	105	<b>166.9</b>	16.1	58.2	0.0	26400
Channel	207-27STXRIB	107	<b>164.9</b>	15.9	59.2	0.0	27000
Heine Seeds	775STXRIB	107	<b>164.8</b>	17.5	59.0	0.0	25800
Renk	RK776SSTX	107	<b>162.8</b>	17.1	60.1	0.0	25800
Wensman	W91073STXRIB	107	161.1	15.9	58.7	0.0	24700
Dyna-Gro Seed	D44VC36RIB	104	160.0	16.7	60.8	0.0	26800
Great Lakes Hybrids	5755STXRIB	107	159.5	16.2	58.5	0.0	25900
Heine Seeds	744VT3PRORIB	104	159.4	15.2	59.0	0.0	26000
Hoegemeyer	HPT7166AM	101	157.2	14.6	59.0	0.0	25400
Great Lakes Hybrids	5283STXRIB	102	157.0	15.4	60.3	0.0	26100
Great Lakes Hybrids	4879STXRIB	98	155.7	15.3	59.4	0.0	25900
Nutech/G2 Genetics	5F-906	106	153.1	16.2	59.8	0.0	25600
Great Lakes Hybrids	5470STXRIB	104	152.7	15.5	59.3	0.0	26200
Thunder Seed	EXP 6803 VT2P	103	151.1	16.8	60.7	0.0	25900
Wensman	W9325STXRIB	102	150.4	15.5	60.5	0.0	26000
Thunder Seed	7603 SS	103	146.6	15.0	59.1	0.0	26400
Check	Check	99	145.8	14.4	58.0	0.0	25200
Wensman	W91051STXRIB	105	145.0	15.2	59.8	0.0	26200
Titan Pro	TP 56-06 3110	106	144.9	15.8	56.5	0.9	24800
Thunder Seed	EXP 7805 SS	105	141.7	15.0	61.1	0.0	26200
Great Lakes Hybrids	5029VT2RIB	100	139.4	15.9	60.1	0.0	26100
Great Lakes Hybrids	4548STXRIB	95	139.2	14.1	58.5	0.4	26500
Federal Hybrids	5550 SSTAX RIB	105	127.7	15.2	61.0	0.0	26400
<b>Trial Average</b>			156.4	15.6	59.3	0.0	25900
<b>LSD (0.05)†</b>			18.7	0.8	1.0	0.0	886
<b>C.V.‡</b>			8.6	3.5	1.2	-	2.4

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - Late Season Trial (108 day maturity or more) at Geddes, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Hoegemeyer	HPT8255AM	112	<b>185.6</b>	16.6	57.9	0.4	25300
Hoegemeyer	HPT8066AM	110	<b>185.2</b>	15.8	58.3	0.0	26400
Renk	RK871VT2P	111	<b>183.1</b>	17.2	58.7	0.5	24000
Great Lakes Hybrids	6462STXRIB	114	<b>179.0</b>	19.8	59.0	0.4	26000
Dyna-Gro Seed	D49VC39RIB	109	<b>177.8</b>	15.7	58.9	0.0	24900
Renk	RK877DGVT2P	111	<b>176.2</b>	18.2	57.4	0.4	24600
Dyna-Gro Seed	D52SS91RIB	112	<b>173.8</b>	20.3	58.6	0.4	25900
Heine Seeds	834DGVT2PRO	112	<b>173.5</b>	17.4	58.0	0.0	25300
Channel	209-53STXRIB	109	<b>172.5</b>	18.4	59.5	0.0	26100
Channel	209-44VT2PRIB	109	<b>170.9</b>	18.0	56.8	0.9	24800
Channel	211-35STXRIB	111	168.6	18.1	59.9	0.0	24300
Titan Pro	TP 66-10 2P	110	167.5	15.9	58.2	0.4	25600
Great Lakes Hybrids	6185STXRIB	111	166.8	17.1	58.7	0.4	26600
Titan Pro	TP 55-11 2P	111	166.0	17.4	58.9	0.0	25500
Great Lakes Hybrids	5824STXRIB	108	157.2	16.4	60.0	0.0	26400
Renk	RK810SSTX	110	153.2	18.4	58.2	0.4	26100
Great Lakes Hybrids	5944STXRIB	109	152.2	16.4	57.2	0.0	22100
Wensman	W91095STXRIB	109	151.1	15.8	61.6	0.0	25600
Check	Check	99	150.9	13.7	58.2	0.0	25800
Wensman	W91112STXRIB	111	146.8	16.7	59.2	0.0	23200
Renk	RK792SSTX	108	146.5	15.3	59.9	0.4	24300
Titan Pro	TP 59-08 SS	108	142.8	15.1	59.2	0.4	25900
<b>Trial Average</b>			164.2	16.7	58.6	0.2	25300
<b>LSD (0.05)†</b>			14.9	0.9	1.0	0.9	896
<b>C.V.‡</b>			6.6	3.7	1.2	-	2.5

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

**Jonathan Kleinjan** | SDSU Crop Performance Testing Director  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 2 3/4 miles south and 2 miles east of Wessington (57381) in Beadle county, SD  
(GPS: 44.346708, -98.659005)

Cooperator: Paul Fulton

Soil Type: Houdek-Prosper loams, 0-2% slopes

Fertilizer: 134-52-18-12S-5Z preplant, 30-10-10 starter, 28-0-0 preemergence

Yield Goal: 200 bu/acre

Previous crop: Soybeans

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 27,000/acre

Herbicide: Pre: 32 oz Harness (acetochlor) + 32 oz RT3 (glyphosate) +12 oz LV6 (2,4-D)  
Post: 44 oz Roundup WeatherMax (glyphosate)

Date seeded: 5/11/2016

Date harvested: 10/27/2016

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Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Miller, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Hoegemeyer	HPT 7088 AM	100	<b>220.9</b>	18.4	59.7	0.0	25200
Hoegemeyer	HPT 6620 AM	96	<b>212.6</b>	18.0	59.5	0.4	24400
Federal Hybrids	5060 VT2P	100	<b>212.1</b>	17.5	62.2	0.0	26800
Hoegemeyer	HPT 7061 AM	100	<b>209.0</b>	18.2	58.0	1.4	23200
Wensman	W8294VT2RIB	99	<b>207.9</b>	16.9	61.4	0.5	24600
Thunder Seed	4695 RR	95	<b>207.5</b>	16.9	59.8	0.0	24900
Titan Pro	TP 54-98 2P	98	205.9	18.5	59.1	1.3	24900
Nutech/G2 Genetics	5F-198	98	205.7	17.5	56.7	0.0	22800
Wensman	W81007VT2RIB	100	205.1	19.6	59.7	1.4	23500
Renk	RK608DGV2P	100	204.7	18.4	59.7	0.0	23500
Nutech/G2 Genetics	5F-196	96	204.2	18.3	57.6	1.3	24300
Heine Seeds	639STXRIB	99	203.9	17.1	58.5	0.8	25500
Federal Hybrids	4560 VT2P RIB	95	203.6	16.4	60.4	0.0	24800
Heine Seeds	712VT2PRORIB	100	202.9	17.7	60.8	0.0	25600
Titan Pro	TP 65-00 2P	100	202.7	17.4	60.5	0.0	24600
Thunder Seed	EXP 7899 SS	99	202.7	17.5	59.7	0.0	24700
Federal Hybrids	3970 VT2P	89	201.8	15.7	60.2	0.0	23800
Federal Hybrids	4470 VT2P	94	200.8	16.6	58.4	0.0	23600
Federal Hybrids	4640 VT2P RIB	96	199.3	17.8	60.8	0.0	24000
Peterson Farms Seed	55S96	96	198.3	16.9	61.0	0.0	24000
Federal Hybrids	4760 VT 2P RIB	97	197.3	17.5	60.2	0.5	24800
Wensman	W90994STXRIB	99	196.8	16.9	59.1	0.8	26000
Channel	197-68STXRIB	97	195.4	16.9	60.0	0.5	23800
Renk	RK612SSTX	100	194.7	16.6	59.8	0.0	25700
Channel	197-50STXRIB	97	194.7	17.1	59.5	0.0	24500
Thunder Seed	7396 VT2P	96	193.7	16.8	60.1	0.0	24200
Wensman	W80993VT2PRO	99	193.6	19.1	60.8	0.0	25500
Peterson Farms Seed	77P94	94	193.0	16.5	59.9	0.0	23700
Federal Hybrids	4520 VT2P RIB	95	192.2	17.4	62.0	0.5	24400
Federal Hybrids	4160 VT2P RIB	91	192.0	16.0	60.3	0.0	25900
<b>Trial Average</b>			195.9	17.1	60.0	0.3	24400
<b>LSD (0.05)†</b>			13.8	0.8	1.0	1.2	2300
<b>C.V.‡</b>			5.1	3.3	1.2	-	6.6

\* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Miller, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Wensman	W80972VT2PRO	97	191.7	17.4	60.0	0.0	24300
Heine Seeds	723VT2PRORIB	100	191.5	17.2	60.1	0.4	24400
Federal Hybrids	4558 SSTAX RIB	95	190.6	16.3	59.3	0.0	25200
Thunder Seed	7993 VT2P	93	189.8	16.3	60.0	0.0	26000
Thunder Seed	EXP 6791 VT2P	91	189.0	16.0	60.6	0.0	23500
Nutech/G2 Genetics	5N-800	100	188.9	17.7	61.3	0.0	23700
Thunder Seed	6600 VT2P	100	188.2	17.6	60.7	0.0	23600
Renk	RK595SSTX	99	187.6	16.7	61.3	0.4	25200
Thunder Seed	101-95 SS	95	187.3	16.9	60.3	0.4	24800
Federal Hybrids	4540 VT3P RIB	95	187.0	17.5	60.7	0.5	24300
Renk	RK596SSTX	98	186.0	17.3	59.3	1.0	23000
Federal Hybrids	4870 SSTAX	98	185.2	16.9	60.7	0.0	24700
Federal Hybrids	4240 VT2P RIB	92	184.5	16.1	60.5	0.0	23100
Wensman	W90962STXRIB	96	184.3	15.9	60.0	0.4	24700
Check	Check	99	180.5	16.6	59.4	0.0	23500
Peterson Farms Seed	81W95	95	179.8	16.3	59.2	1.1	22700
Federal Hybrids	4440 VT2P RIB	94	179.4	16.5	60.5	0.4	23700
Federal Hybrids	4060 VT2P RIB	90	176.8	16.5	60.2	0.0	25400
<b>Trial Average</b>			195.9	17.1	60.0	0.3	24400
<b>LSD (0.05)†</b>			13.8	0.8	1.0	1.2	2300
<b>C.V.‡</b>			5.1	3.3	1.2	-	6.6

\* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (101 day maturity or more)** at Miller, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Nutech/G2 Genetics	5Z-503	103	<b>215.7</b>	18.1	58.0	0.5	24800
Nutech/G2 Genetics	5Z-601	101	<b>215.4</b>	17.8	59.5	0.5	24500
Thunder Seed	EXP 7805 SS	105	<b>214.4</b>	19.4	60.6	2.5	25300
Nutech/G2 Genetics	5F-504	104	<b>206.4</b>	19.5	58.5	0.5	24200
Dairyland Seed	DS-9204	104	<b>204.9</b>	20.1	57.1	0.0	25500
Federal Hybrids	5370 SSTAX	103	<b>204.6</b>	18.8	61.3	0.9	25600
Federal Hybrids	5260 DGVT2P RIB	102	<b>203.2</b>	18.0	59.7	0.8	24100
Wensman	W81041VT2RIB	104	202.2	20.4	59.7	2.2	24700
Federal Hybrids	5140 VT2P RIB	101	201.9	18.0	59.0	0.4	25700
Dairyland Seed	DS-9403	103	201.7	19.5	57.2	0.0	25400
Dairyland Seed	DS-9701RA	101	201.2	18.0	58.2	1.3	24200
Wensman	W81028VT2RIB	102	201.1	18.7	58.5	0.4	24500
Federal Hybrids	5550 SSTAX RIB	105	201.0	18.9	58.4	0.8	25000
Hoegemeyer	HPT 7166 AM	101	200.7	18.8	60.4	4.6	23600
Wensman	W91011STXRIB	101	200.4	16.9	59.7	0.0	25500
Channel	203-01STXRIB	103	199.6	18.5	57.5	0.4	24500
Federal Hybrids	5440 SSTAX RIB	103	198.8	20.2	58.5	0.5	22200
Titan Pro	TP 67-02 SS	102	197.4	17.9	60.3	0.5	24200
Thunder Seed	7603 SS	103	196.4	17.6	59.2	0.0	25000
Channel	205-19STXRIB	105	196.3	19.5	57.9	1.9	23500
Renk	RK675DGVT2P	103	194.6	18.8	58.5	0.9	25500
Dairyland Seed	DS-9802	102	194.6	18.3	57.9	0.0	24500
Nutech/G2 Genetics	5F-701	101	194.2	18.8	60.4	0.6	22700
Titan Pro	TP 58-01 2P	101	193.2	17.2	59.7	0.0	23800
Channel	206-30STXRIB	106	192.3	19.3	60.1	0.9	23500
Channel	202-52STXRIB	102	190.9	17.9	58.3	0.5	24100
Titan Pro	TP 31-01 3011A	101	190.1	18.4	60.1	5.1	25300
Dairyland Seed	DS-9106	106	189.6	19.4	58.5	1.5	22800
Renk	RK680SSTX	103	188.6	17.4	59.3	0.9	24200
Check	Check	99	183.5	15.9	59.1	0.5	23800
Channel	201-37VT2PRIB	101	180.4	17.5	58.8	0.4	23200
Nutech/G2 Genetics	5H-502	102	179.1	18.5	59.5	1.9	19600
Federal Hybrids	5250 SSTAX RIB	102	178.9	19.9	58.2	7.2	24300
Thunder Seed	EXP 6803 VT2P	103	157.7	21.2	58.1	7.2	23200
<b>Trial Average</b>			196.0	18.5	59.0	1.3	24200
<b>LSD (0.05)†</b>			13.4	1.0	0.9	2.0	2300
<b>C.V.‡</b>			4.9	4.1	1.1	-	6.7

\* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

**Jonathan Kleinjan** | SDSU Crop Performance Testing Director  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 8.5 miles west of South Shore (57263) in Codington County, SD  
(GPS: 45.106941, -97.098865)

Cooperator: SDSU Northeast Research Farm - Allen Heuer, manager

Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slope

Fertilizer: 150-100-25 preplant incorporated; 30-10-10 starter

Yield Goal: 200 bu/acre

Previous crop: Spring Wheat

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: 1 qt Dual II (metolachlor)  
Post: 1 qt Roundup PowerMax (glyphosate)

Date seeded: 5/3/2016

Date harvested: 11/1/2016

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Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (95 day maturity or less)** at South Shore, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Thunder Seed	101-95 SS	95	<b>193.4</b>	19.7	58.5	0.0	26500
Federal Hybrids	4560 SSTAX RIB	95	<b>191.7</b>	18.8	59.8	0.0	28300
Renk	RK566SSTX	94	<b>188.0</b>	19.2	60.6	0.0	27400
Federal Hybrids	4470 VT2P	94	<b>185.7</b>	19.5	59.2	0.0	28200
Thunder Seed	4695 RR	95	<b>185.6</b>	20.3	60.0	0.8	28200
Titan Pro	TP 58-95 SS	95	<b>184.9</b>	19.2	60.2	0.4	28100
Channel	195-18VT2PRIB	95	<b>181.5</b>	21.6	60.0	0.4	28900
Thunder Seed	EXP 6791 VT2P	91	<b>181.5</b>	19.1	58.9	0.0	28400
Federal Hybrids	4558 SSTAX RIB	95	<b>181.2</b>	19.4	59.1	0.0	29000
Check	Check	99	<b>180.7</b>	20.2	58.2	0.0	27800
Wensman	W90941STXRIB	94	<b>180.5</b>	18.8	58.0	0.4	28300
Wensman	W8184VT2RIB	95	<b>179.5</b>	20.5	58.5	0.0	28400
Renk	RK568VT3P	95	178.9	20.6	59.4	0.4	26000
Peterson Farms Seed	76S92	92	178.4	19.4	59.7	0.0	27200
Heine Seeds	615VT2PRO	95	178.2	19.9	58.7	0.0	28500
Federal Hybrids	4540 VT3P RIB	95	175.6	19.2	58.7	0.0	28200
NuTech/G2 Genetics	5F-894	94	175.4	18.5	56.8	0.3	29800
Heine Seeds	627VT3PRORIB	95	175.3	20.3	59.7	0.4	25900
Federal Hybrids	4440 VT3P RIB	94	174.9	20.1	59.9	0.0	27000
Thunder Seed	7993 VT2P	93	174.3	19.3	60.3	0.4	28300
Federal Hybrids	4160 VT2P RIB	91	172.2	19.1	59.4	0.0	28700
Renk	RK522SSTX	94	172.1	19.7	57.4	0.0	26400
Federal Hybrids	4520 VT3P RIB	95	171.6	20.9	60.9	0.4	26800
Peterson Farms Seed	72A91	91	171.5	19.4	59.1	0.0	28700
Stine	R9209-32	94	171.2	19.1	61.3	0.4	26600
Federal Hybrids	4240 VT2P RIB	92	168.0	19.2	59.2	0.0	26500
Federal Hybrids	3970 VT2P	89	167.5	17.3	59.7	0.0	28700
Masters Choice	MCT 4572	95	165.3	19.8	60.0	0.0	26800
Titan Pro	TP 65-90 2P	90	164.1	17.2	60.2	0.0	27700
Stine	9314-20	94	163.0	20.2	57.8	1.2	28000
<b>Trial Average</b>			172.5	19.5	59.3	0.2	27700
<b>LSD (0.05)†</b>			14.0	0.7	0.8	0.8	1100
<b>C.V.‡</b>			5.8	2.5	1.0	-	2.8

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.



Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (95 day maturity or less)** at South Shore, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Dairyland Seed	DS-7294	94	159.2	19.9	59.4	0.0	28500
Federal Hybrids	4060 VT2P RIB	90	151.0	18.8	59.1	0.0	27200
NuTech/G2 Genetics	5F-091	91	150.1	18.9	58.3	0.5	24100
Proseed	PX 695	95	148.2	19.6	60.2	0.0	28100
Masters Choice	MCT 3891	88	145.5	18.4	60.9	0.4	26900
Titan Pro	TP 61-94 3110A	101	144.7	19.8	59.7	0.4	29500
<b>Trial Average</b>			172.5	19.5	59.3	0.2	27700
<b>LSD (0.05)†</b>			14.0	0.7	0.8	0.8	1100
<b>C.V.‡</b>			5.8	2.5	1.0	-	2.8

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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Table 2a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (96 day maturity or more)** at South Shore, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
NuTech/G2 Genetics	5Z-601	101	<b>208.3</b>	21.1	57.6	0.8	29100
Channel	197-50STXRIB	97	195.2	20.6	58.6	0.0	28700
Dairyland Seed	DS-9701RA	101	193.0	22.2	58.3	0.4	27900
Thunder Seed	EXP 7899 SS	99	190.2	20.6	57.4	0.4	27900
Wensman	W9288STXRIB	98	189.7	19.0	57.8	0.0	29100
Channel	197-68STXRIB	97	188.0	20.9	59.7	0.0	26100
Federal Hybrids	5250 SSTAX RIB	102	187.7	22.4	59.1	0.0	26700
Thunder Seed	7603 SS	103	186.8	21.3	59.5	0.0	27700
Proseed	1496 SS	96	185.4	19.5	59.0	0.4	24500
Federal Hybrids	5060 SSTAX RIB	100	184.8	20.0	59.5	0.0	27300
Federal Hybrids	5370 SSTAX	103	184.2	23.0	59.2	0.0	28500
Renk	RK608DGV2P	100	184.1	20.4	58.3	0.9	26000
Wensman	W90979STXRIB	97	183.7	20.6	59.8	0.4	27700
Check	Check	99	183.4	20.1	58.0	0.4	26500
Heine Seeds	639STXRIB	99	183.3	21.7	59.1	0.0	28400
Renk	RK595SSTX	99	183.0	20.2	60.5	0.0	29200
Dairyland Seed	DS-9198RA	98	182.4	20.6	58.0	0.0	27400
Federal Hybrids	5140 SSTAX RIB	101	182.4	20.8	58.9	0.0	27400
Federal Hybrids	4640 VT3P RIB	96	182.0	20.4	59.0	0.0	28600
NuTech/G2 Genetics	5F-701	101	181.1	20.4	58.3	1.2	27000
Federal Hybrids	5260 DGV2P RIB	102	180.4	21.2	60.1	0.8	28400
Federal Hybrids	5440 SSTAX RIB	104	178.8	24.1	55.7	0.8	26900
Wensman	W90962STXRIB	96	177.8	20.1	57.5	0.0	28300
Wensman	W80972VT2PRO	97	177.0	22.8	57.8	0.0	29000
Dairyland Seed	DS-9599	99	176.6	23.0	55.8	0.0	26100
Peterson Farms Seed	55S96	96	176.4	20.7	59.0	0.4	28200
Wensman	W90994STXRIB	99	176.0	21.1	56.5	0.0	28300
Proseed	PX 598	98	175.8	22.3	57.6	0.0	28200
Renk	RK596SSTX	98	174.1	21.7	59.3	0.0	24900
Federal Hybrids	5550 SSTAX RIB	105	173.9	23.1	56.4	0.0	26900
<b>Trial Average</b>			179.1	21.0	58.3	0.2	27400
<b>LSD (0.05)†</b>			11.4	0.7	1.0	0.9	1000
<b>C.V.‡</b>			4.6	2.4	1.2	-	2.7

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Late Season Trial (96 day maturity or more)** at South Shore, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Proseed	1399A 3000GT	99	173.4	22.6	56.5	0.0	25900
NuTech/G2 Genetics	5F-198	98	173.1	19.9	55.5	0.0	25800
Thunder Seed	6600 VT2P	100	171.9	19.3	60.3	0.0	25900
Wensman	W80993VT2PRO	99	170.7	19.5	58.3	0.0	28500
Federal Hybrids	4760 SSTAX RIB	97	170.5	20.9	58.5	0.7	29100
NuTech/G2 Genetics	5F-196	96	170.3	19.7	57.1	0.0	26100
Federal Hybrids	4870 SSTAX	98	170.1	19.9	60.0	0.0	25200
Thunder Seed	7396 VT2P	96	169.7	20.1	59.6	0.0	28900
Masters Choice	MCT 4632	96	166.3	22.4	59.0	0.0	26200
Renk	RK612SSTX	100	166.1	20.2	57.3	0.0	26700
Masters Choice	MCT 5371	103	158.8	22.8	57.1	0.0	28200
Masters Choice	MCT 4884	98	158.1	20.9	58.7	0.0	26000
<b>Trial Average</b>			179.1	21.0	58.3	0.2	27400
<b>LSD (0.05)†</b>			11.4	0.7	1.0	0.9	1000
<b>C.V.‡</b>			4.6	2.4	1.2	-	2.7

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

**Jonathan Kleinjan** | SDSU Crop Performance Testing Director  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 1.5 miles south of Volga (57101) in Brookings County, SD  
(GPS: 44.302528, -96.919038)

Cooperator: SDSU Volga Research Farm - Jack Ingemansen, manager

Soil Type: Brandt silty clay loam, 0-2% slope

Fertilizer: 180-40-40-8S preplant, 30-10-10 starter

Yield Goal: 200 bu/ac

Previous crop: Soybeans

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: 1.8 pt Staunch (acetochlor)  
Post: 32 oz Roundup Power Max (glyphosate)

Date seeded: 4/26/2016

Date harvested: 10/31/2016

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Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Volga, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Hoegemeyer	HPT 7089 AMXT	100	292.8	18.1	61.0	0.0	29500
Federal Hybrids	4760 SSTAX RIB	97	276.2	17.2	58.7	0.0	29200
Titan Pro	TP 54-98 2P	98	274.5	17.7	58.3	0.0	29000
Heine Seeds	723VT2PRORIB	100	274.5	17.4	60.6	0.0	29700
Titan Pro	TP 65-00 2P	100	273.5	17.1	59.3	0.0	28200
Proseed	PX 598	98	272.8	16.9	58.3	0.0	29300
Wensman	W81007VT2RIB	100	271.3	19.1	58.1	0.0	27900
Peterson Farms Seed	72D00	100	270.5	17.1	57.7	0.0	29100
Channel	197-50STXRIB	97	268.4	17.0	58.7	0.0	29100
Wensman	W8184VT2RIB	95	267.5	16.9	59.2	0.0	29500
Peterson Farms Seed	77P94	94	267.3	16.4	58.3	0.0	28700
Heine Seeds	639STXRIB	99	265.1	17.8	58.2	0.4	28400
Wensman	W90979STXRIB	97	264.7	18.2	59.2	0.0	28300
Federal Hybrids	4540 VT3P RIB	95	264.1	17.4	59.1	0.0	29100
Wensman	W9288STXRIB	98	263.4	17.5	59.4	0.0	29000
Wensman	W90994STXRIB	99	263.2	17.4	59.2	0.0	29500
Nutech/G2 Genetics	5F-196	96	262.9	17.4	57.5	0.0	28100
Heine Seeds	712VT2PRORIB	100	262.3	17.1	60.7	0.0	29800
Stine	R9428-32	100	262.0	17.5	59.5	0.0	28200
Proseed	PX 695	95	261.6	17.5	59.0	0.0	28500
Federal Hybrids	4560 SSTAX RIB	95	261.2	17.5	59.5	0.0	29100
Thunder Seed	EXP 7899 SS	99	260.1	17.4	58.3	0.0	28300
Thunder Seed	4695 RR	95	258.9	16.7	59.0	0.0	28700
Proseed	1399A 3000GT	99	258.2	17.5	58.1	0.4	28400
Hoegemeyer	HPT 7062 AMXT	100	257.0	18.3	59.7	0.0	27900
Hoegemeyer	HPT 6621 AMX	96	255.8	16.8	59.4	0.4	27400
Channel	197-68STXRIB	97	255.6	17.0	59.8	0.0	28900
Nutech/G2 Genetics	5N-800	100	254.9	18.1	59.9	0.0	27700
Dairyland Seed	DS-9599	99	254.8	18.3	58.1	0.0	26500
Wensman	W90962STXRIB	96	253.2	16.3	57.8	0.0	29000
<b>Trial Average</b>			257.3	17.3	59.0	0.1	28100
<b>LSD (0.05)†</b>			13.7	0.6	1.0	0.3	1362
<b>C.V.‡</b>			3.8	2.7	1.2	-	3.5

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Volga, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Federal Hybrids	4558 SSTAX RIB	95	252.6	16.5	58.3	0.0	28200
Thunder Seed	7396 VT2P	96	252.2	16.8	59.1	0.8	28700
Federal Hybrids	4520 VT3P RIB	95	251.8	18.0	60.1	0.4	29100
Federal Hybrids	4870 SSTAX	98	251.8	17.3	61.5	0.0	28000
Peterson Farms Seed	86S98	98	250.5	17.1	61.0	0.0	28100
Peterson Farms Seed	81W95	95	250.0	16.1	58.4	0.0	27600
Proseed	1496 SS	96	249.6	17.8	58.5	0.0	25500
Thunder Seed	101-95 SS	95	249.6	18.2	59.6	0.0	28200
Federal Hybrids	4640 VT3P RIB	96	249.1	16.3	58.0	0.0	29400
Federal Hybrids	4440 VT3P RIB	94	243.4	17.1	59.9	0.0	25800
Nutech/G2 Genetics	5F-198	98	242.9	16.6	56.9	0.0	25600
Dairyland Seed	DS-9198RA	98	242.5	17.1	57.5	0.0	28000
Thunder Seed	6600 VT2P	100	240.1	17.1	60.2	0.0	28000
Federal Hybrids	5060 SSTAX RIB	100	238.1	17.5	58.9	0.0	25200
Check	Check	99	238.1	16.5	57.4	0.0	29000
Stine	R9209-32	94	237.1	16.7	60.5	0.0	27800
Stine	9314-20	94	236.6	17.3	57.2	0.0	23200
Peterson Farms Seed	55S96	96	226.1	17.0	60.3	0.0	24600
<b>Trial Average</b>			257.3	17.3	59.0	0.1	28100
<b>LSD (0.05)†</b>			13.7	0.6	1.0	0.3	1362
<b>C.V.‡</b>			3.8	2.7	1.2	-	3.5

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (101 day maturity or more)** at Volga, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Thunder Seed	EXP 7805 SS	105	<b>298.5</b>	20.5	60.1	0.4	28500
Renk	RK717SSTX	105	<b>297.8</b>	20.6	59.8	0.4	29300
Federal Hybrids	5370 SSTAX	103	<b>297.6</b>	20.8	59.8	0.0	29000
Nutech/G2 Genetics	5Z-601	101	<b>290.7</b>	18.6	59.5	0.4	29700
Nutech/G2 Genetics	5F-504	104	284.2	19.9	59.3	0.0	27000
Nutech/G2 Genetics	5Z-503	103	283.3	19.0	60.2	0.4	28900
Dairyland Seed	DS-9403	103	279.5	19.4	56.5	0.4	28700
Hoegemeyer	HPT 7166 AM	101	278.2	18.8	60.3	0.0	28400
Nutech/G2 Genetics	5F-701	101	276.7	18.6	60.6	0.0	27300
Titan Pro	TP31-01 3011A	101	276.6	18.8	60.2	0.0	29700
Federal Hybrids	5550 SSTAX RIB	105	276.2	21.1	58.7	0.8	27100
Dairyland Seed	DS-9204	104	274.5	20.1	57.8	4.6	28700
Wensman	W9325STXRIB	102	269.7	19.0	58.4	0.4	28700
Dairyland Seed	DS-9802	102	268.5	18.5	57.9	0.4	28500
Thunder Seed	7603 SS	103	267.6	18.2	59.1	0.0	29100
Channel	205-19STXRIB	105	266.9	19.7	58.9	0.0	25800
Thunder Seed	EXP 6803 VT2P	103	265.6	19.8	59.0	0.0	26600
Peterson Farms Seed	81W01	101	264.0	18.3	59.4	0.0	28500
Wensman	W91011STXRIB	101	263.8	18.6	59.4	0.0	28200
Titan Pro	TP 67-02 SS	102	263.0	18.8	60.1	0.0	27400
Channel	203-01STXRIB	103	259.5	21.4	57.7	0.4	28900
Channel	202-52STXRIB	102	259.1	18.2	59.2	0.0	28100
Titan Pro	TP 58-01 2P	101	257.2	18.0	60.8	0.4	28700
Channel	206-30STXRIB	106	256.9	20.0	60.6	0.0	27100
Renk	RK680SSTX	103	255.1	18.3	59.2	0.0	27600
Federal Hybrids	5440 SSTAX RIB	103	254.7	19.7	58.9	0.0	26700
Federal Hybrids	5140 SSTAX RIB	101	252.9	18.8	58.7	0.0	27700
Dairyland Seed	DS-9701RA	101	250.5	18.9	57.9	0.0	24600
Dairyland Seed	DS-9106	106	250.1	19.8	58.2	0.4	26400
Nutech/G2 Genetics	5H-502	102	237.1	18.7	59.2	0.0	23300
Channel	201-37VT2PRIB	101	234.9	18.0	58.0	0.0	26200
Wensman	W91018STX	101	233.8	18.6	59.0	0.0	24600
Check	Check	99	231.6	17.2	58.5	0.0	28000
<b>Trial Average</b>			265.7	19.1	59.1	0.3	27700
<b>LSD (0.05)†</b>			13.5	0.5	0.9	0.9	1300
<b>C.V.‡</b>			3.6	2.0	1.0	-	3.3

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

**Jonathan Kleinjan** | SDSU Extension Crop Production Associate  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 7 miles south and 2 miles east of Miller (57362) in Hand county, SD  
(GPS: 44.413376, -98.945645)

Cooperator: Paul Fulton

Soil Type: Houdek-Dudley complex, 0-2% slopes

Fertilizer: 114-52-18-12S-5Z preplant, 30-10-10 starter, 10 gal 28-0-0 preemerge

Yield Goal: 200 bu/acre

Previous crop: Soybeans

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 28,750/acre

Herbicide: Pre: 32 oz Harness Xtra (acetochlor) + 32 oz RT3 (glyphosate) +  
12 oz LV6 (2,4-D), (applied with 10 gal 28% UAN)  
Post: 32 oz Roundup WeatherMax (glyphosate) +  
2.5 oz Status (dicamba + diflufenzopyr) + 4 oz Crosshair (drift agent)

Date seeded: 5/8/2017

Date harvested: 11/1/2017



Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Miller, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Federal Hybrids	4770 VT2P RIB	97	<b>166.6</b>	16.4	58.3	0.0	27100
Hoegemeyer Hybrids	HPT 7088 AM	100	<b>165.3</b>	17.4	57.2	0.0	26200
Wensman	W80972VT2RIB	97	<b>154.4</b>	15.6	58.3	0.4	27200
Wensman	W80993VT2RIB	99	<b>153.0</b>	15.6	59.4	0.8	27100
Federal Hybrids	4880 VT2P RIB	98	151.1	16.6	57.8	0.4	26000
Federal Hybrids	4560 SSTAX RIB	95	150.9	15.5	57.2	0.0	27200
Check	CHECK	97	150.8	16.2	56.2	0.4	26900
Federal Hybrids	4680 VT2P	96	150.5	15.9	57.7	0.8	26200
Hoegemeyer Hybrids	HPT 6813 AM	98	149.8	16.4	54.8	0.0	23800
Wensman	W81007VT2RIB	100	148.8	16.1	56.8	1.3	24400
Proseed	1399 3000GT	99	147.8	16.8	54.4	0.9	23300
Thunder Seed	6794 VT2P	94	147.6	15.2	57.4	0.4	26800
Wensman	W8294VT2RIB	99	147.4	15.9	57.5	0.4	26200
Federal Hybrids	4560 VT2P RIB	95	147.0	15.9	57.7	0.0	25900
Peterson Farms Seed	78B98	98	146.6	16.3	57.4	0.0	27800
Wensman	W80965VT2RIB	96	145.9	13.7	57.5	0.0	27900
NuTech/G2 Genetics	5FN-7099	99	144.3	16.7	56.8	0.0	25500
Federal Hybrids	4470 VT2P RIB	94	144.1	15.0	58.2	0.5	25000
Channel	197-50STXRIB	97	144.0	16.3	56.4	0.0	26900
Peterson Farms Seed	75S96	96	143.5	15.2	58.8	0.0	27100
Channel	195-18VT2PRIB	95	140.9	15.4	60.2	0.0	27000
Channel	193-53STXRIB	93	140.1	16.4	57.4	0.0	26800
Renk	RK608DGV2P	100	140.0	16.2	57.1	0.0	27000
NuTech/G2 Genetics	5FN-5096	96	139.7	15.9	58.6	0.0	23400
Proseed	PX694 VT2P	94	138.9	16.3	57.5	0.4	25500
Federal Hybrids	4180 VT2P	91	138.4	14.5	57.4	0.0	27300
Federal Hybrids	4185 VT2P RIB	91	138.2	14.4	59.3	0.8	26600
Federal Hybrids	5060 SSTAX RIB	100	138.2	17.2	57.1	0.0	26400
Hoegemeyer Hybrids	HPT 6620 AM	96	137.2	13.9	56.1	0.0	26200
Heine Seeds	732DGV2PRORIB	100	136.6	16.1	57.1	0.0	24900
<b>Trial Average</b>			140.0	15.6	57.2	0.3	26000
<b>LSD (0.05)†</b>			14.4	1.3	1.1	1.1	1200
<b>C.V.‡</b>			7.4	5.8	1.4	-	3.4

\* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Miller, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Federal Hybrids	4880 SSTAX RIB	98	136.3	17.6	57.8	0.0	24800
Thunder Seed	7993 VT2P	93	136.3	14.5	57.6	0.4	26100
Proseed	1395 VT2P	95	136.1	16.0	58.1	1.4	23400
NuTech/G2 Genetics	5F-196	96	136.0	14.9	55.6	0.4	27400
Proseed	1591 VT2P	91	135.8	13.4	57.4	0.0	27900
Thunder Seed	4600 RR	100	135.4	17.2	55.4	0.4	26500
NuTech/G2 Genetics	5F-198	98	134.5	13.0	54.1	0.9	24200
Hoegemeyer Hybrids	HPT 6695 AM	96	134.2	16.1	58.2	0.0	22700
Federal Hybrids	4558 SSTAX RIB	95	133.7	15.6	56.2	0.0	27100
Federal Hybrids	4160 VT2P RIB	91	133.6	13.4	57.7	1.6	26900
Rob-See-Co	RC4915-3120	99	133.5	15.2	53.8	0.0	23600
Federal Hybrids	4760 VT2P RIB	97	132.8	15.8	57.0	0.0	26000
Thunder Seed	4695 RR	95	131.8	14.1	58.2	0.4	26500
Rob-See-Co	IC4521-3110	95	131.6	15.9	57.9	0.0	23700
Renk	RK595SSTX	99	129.9	15.9	57.7	0.4	25900
Federal Hybrids	4580 VT2P RIB	95	129.1	14.7	57.4	0.0	27800
Federal Hybrids	4760 SSTAX RIB	97	127.0	15.2	55.9	0.0	25900
Thunder Seed	6798 VT2P	98	126.2	15.9	57.4	0.0	25700
Rob-See-Co	RC4343-3110A	93	124.6	14.6	56.7	0.0	24900
Peterson Farms Seed	72D00	100	124.3	16.4	57.7	0.0	24900
Thunder Seed	7793 SS	93	123.9	15.0	57.7	0.8	26600
Thunder Seed	7396 VT2P	96	118.6	14.1	56.6	0.8	25600
<b>Trial Average</b>			140.0	15.6	57.2	0.3	26000
<b>LSD (0.05)†</b>			14.4	1.3	1.1	1.1	1200
<b>C.V.‡</b>			7.4	5.8	1.4	-	3.4

\* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (101 day maturity or more)** at Miller, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Nutech/G2 Genetics	X5LN-0308	103	<b>163.1</b>	17.3	59.1	0.5	21100
Renk	RK642SSTX	103	<b>162.0</b>	17.5	57.2	0.9	25200
Hoegemeyer Hybrids	HPT 7166 AM	101	<b>159.8</b>	16.3	60.0	0.8	26100
Dairyland Seed	DS-9701RA	101	<b>159.6</b>	18.4	56.7	1.4	24800
Nutech/G2 Genetics	5F-504	104	<b>158.5</b>	17.9	57.0	0.4	26700
Nutech/G2 Genetics	5F-601	101	<b>158.0</b>	17.0	57.9	0.0	26800
Hoegemeyer Hybrids	HPT 7557 AM	105	<b>156.4</b>	18.5	57.2	0.0	26800
Heine Seeds	7410STX	104	<b>155.5</b>	16.1	57.2	0.4	24700
Renk	RK680SSTX	103	<b>153.1</b>	17.2	56.7	0.0	24100
Thunder Seed	7603 SS	103	<b>152.8</b>	16.3	57.8	0.8	26600
Nutech/G2 Genetics	5F-701	101	<b>151.4</b>	16.6	59.5	0.0	23500
Wensman	W81028VT2RIB	102	<b>149.3</b>	18.2	57.5	0.0	26200
Check	CHECK	97	<b>149.1</b>	15.7	57.2	0.8	26700
Heine Seeds	740VT2PRO	102	<b>148.7</b>	19.2	56.2	0.0	24100
Dairyland Seed	DS-9804SSX	104	<b>148.4</b>	22.7	53.2	0.5	23400
Channel	201-05VT2PRIB	101	<b>148.3</b>	18.0	58.2	0.4	25600
Heine Seeds	752VT2PRO	105	146.7	20.7	57.1	0.4	26200
Channel	201-28VT2PRIB	101	146.1	16.1	58.3	0.0	26700
Heine Seeds	739VT2PRO	102	145.8	18.3	56.1	0.0	25500
Hoegemeyer Hybrids	HPT 7333 AMXT	103	144.4	17.2	59.0	0.0	21000
Wensman	W81041VT2RIB	104	142.4	18.5	59.2	0.0	26600
Federal Hybrids	5180 SSTAX RIB	101	140.7	16.0	58.0	0.0	25300
Peterson Farms Seed	81W01	101	140.4	16.6	57.0	0.0	24600
Wensman	W91018STXRIB	101	139.6	15.5	57.6	0.0	26600
Rob-See-Co	RC5112-3122A	101	139.4	20.2	55.8	0.0	25500
Nutech/G2 Genetics	X5FN-0306	103	136.7	16.2	56.7	0.4	27100
Renk	RK675DGV2P	103	136.3	16.0	57.1	0.0	23300
Heine Seeds	754STXRIB	105	133.1	17.8	57.8	0.0	25900
Rob-See-Co	IC5203-3120	102	128.5	17.8	59.0	0.0	25000
Dairyland Seed	DS-9802RA	102	125.7	21.6	56.1	0.0	26900
Rob-See-Co	IC5296-3120	102	122.0	19.3	53.4	1.3	25300
<b>Trial Average</b>			146.5	17.8	57.3	0.3	25300
<b>LSD (0.05)†</b>			14.8	1.3	2.0	1.3	1300
<b>C.V.‡</b>			7.2	5.3	2.4	-	3.7

\* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

**Jonathan Kleinjan** | SDSU Extension Crop Production Associate  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 6 miles west and 3 miles south of Beresford (57432) in Clay county, SD  
(GPS: 43.053103, -96.889990)

Cooperator: SDSU Southeast Research Farm - Peter Sexton, manager

Soil Type: Egan-Trent silty clay loams, 0-2% slope, non-irrigated

Fertilizer: 144-0-0-20S preplant; 30-10-10 starter

Yield Goal: 200 bu/acre

Previous crop: Soybeans

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: 32 oz Roundup (glyphosate) + 1.33 pt Dual (metolachlor) + 4 oz Sencor (metribuzin) + 4 gal UAN  
Post: 12 oz Atrazine + 3 oz Callisto (mesotrione) + 1% V/V + UAN 2.5% V/V

Date seeded: 5/16/2017

Date harvested: 11/3/2017

Soil conditions: This location was very wet during and shortly after planting. Please pay special attention to the harvest population when evaluating hybrid performance.

Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (107 day maturity or less)** at Beresford, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Channel	207-27STXRIB	107	<b>226.2</b>	20.7	59.8	0.4	27600
Nutech/G2 Genetics	5F-504	104	<b>223.3</b>	18.3	60.1	10.1	28200
Heine Seeds	823VT2PRO	107	<b>216.9</b>	22.7	53.0	2.3	28200
Dyna-Gro	D39DC43	99	<b>215.0</b>	16.3	58.8	2.4	28000
Great Lakes Hybrids	5556VT2RIB	105	<b>212.2</b>	17.4	59.0	1.2	26900
Check	CHECK	97	<b>210.9</b>	16.2	59.9	3.5	28200
Great Lakes Hybrids	5470STXRIB	104	<b>209.3</b>	17.4	59.9	5.4	28200
Wensman	W81041VT2RIB	104	<b>209.3</b>	17.3	60.8	3.6	26800
Dyna-Gro	D44VC36VT2P	104	<b>208.6</b>	17.1	59.3	2.1	26600
Wensman	W81069VT2RIB	106	<b>206.5</b>	17.9	60.1	1.3	25900
Heine Seeds	754STXRIB	105	204.9	16.8	60.3	3.6	27100
Thunder Seed	4695 RR	95	204.7	14.9	59.7	6.0	27000
Nutech/G2 Genetics	5D-906	106	204.6	19.3	60.1	3.2	23800
Channel	203-01STXRIB	103	204.1	16.9	57.9	0.4	26700
Channel	204-74VT2PRIB	104	203.5	17.1	59.1	3.1	24600
Masters Choice	MCT5661	106	203.3	18.7	57.7	1.8	28600
Nutech/G2 Genetics	5VN-4707	107	203.1	17.8	57.9	0.4	26700
Thunder Seed	4600 RR	100	203.0	16.5	60.0	9.4	25000
Titan Pro	TP 77-06 SS	106	202.2	18.0	58.3	1.0	22500
Renk	RK717SSTX	105	202.0	16.7	61.0	0.4	26800
Great Lakes Hybrids	5283STXRIB	102	201.0	17.5	59.0	0.0	27000
Wensman	W81058VT2RIB	105	200.6	17.9	61.7	3.4	25200
Hoegemeyer	7557 AM	105	199.2	17.5	60.3	5.8	26400
Heine Seeds	790VT2PRORIB	107	199.2	18.1	59.4	0.8	28200
Channel	205-19STXRIB	105	196.7	17.4	58.4	0.4	24900
Great Lakes Hybrids	5755STXRIB	107	196.3	19.0	57.8	0.5	23600
Thunder Seed	6794 VT2P	94	195.6	14.6	58.7	6.8	26800
Hoegemeyer	7088 AM	100	194.9	17.0	59.9	3.4	25500
Thunder Seed	7396 VT2P	96	193.2	13.2	58.5	6.8	27300
Hoegemeyer	7224 AM	102	192.0	17.5	60.6	1.9	29000
<b>Trial Average</b>			197.9	17.3	59.4	2.4	25700
<b>LSD (0.05)†</b>			21.0	0.9	1.0	3.7	1600
<b>C.V.‡</b>			7.6	3.5	1.2	-	4.4

\* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† Value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (107 day maturity or less)** at Beresford, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Dairyland Seed	DS-6106	106	191.9	17.7	60.7	0.4	26500
Great Lakes Hybrids	5626VT2PRO	106	191.8	18.2	62.0	1.4	23100
Miller Hybrids	RX215VT2P	107	189.0	19.3	58.2	1.5	21700
Thunder Seed	6798 VT2P	98	186.8	15.0	59.9	0.7	28100
Thunder Seed	7993 VT2P	93	186.0	14.5	59.9	1.2	26500
Heine Seeds	821VT2PRORIB	107	185.6	20.5	58.4	3.5	22900
Wensman	W91025STXRIB	102	184.5	14.9	60.8	1.8	24500
Thunder Seed	7793 SS	93	183.8	15.0	59.6	0.4	24200
Renk	RK776SSTX	107	182.3	20.6	59.2	0.0	22100
Nutech/G2 Genetics	X5FN-0306	103	180.7	17.2	60.9	0.8	27600
Thunder Seed	7603 SS	103	180.4	16.3	60.0	0.8	25400
Nutech/G2 Genetics	X5FN-0308	103	177.8	17.3	60.7	1.0	22100
Hoegemeyer	7333 AMXT	103	176.7	16.9	59.0	0.0	20300
Masters Choice	MCT5371	103	175.6	16.9	60.4	0.5	18800
Dairyland Seed	DS-9804SSX	104	168.9	17.8	59.0	1.4	23200
<b>Trial Average</b>			197.9	17.3	59.4	2.4	25700
<b>LSD (0.05)†</b>			21.0	0.9	1.0	3.7	1600
<b>C.V.‡</b>			7.6	3.5	1.2	-	4.4

\* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† Value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - Late Season Trial (108 day maturity or more) at Beresford, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Hoegemeyer	8066 AM	110	<b>211.3</b>	20.2	58.6	5.6	25500
Nutech/G2 Genetics	5F-510	110	<b>210.5</b>	20.0	61.2	0.9	24900
Renk	RK871VT2P	111	<b>208.0</b>	21.3	57.1	1.1	28400
Miller Hybrids	RX13-11VT2P	113	<b>200.2</b>	19.7	59.8	1.9	24100
Titan Pro	TP 71-12 SS	112	<b>200.2</b>	22.3	57.4	0.4	27400
Great Lakes Hybrids	5910VT2PRO	109	<b>199.4</b>	20.1	57.7	1.0	21500
Channel	208-23STXRIB	108	<b>199.4</b>	20.9	58.9	0.0	25200
Channel	210-26STXRIB	110	<b>197.6</b>	22.1	56.7	0.0	26400
Miller Hybrids	M66-23G	110	<b>197.3</b>	21.3	54.7	0.0	18300
Check	CHECK	97	<b>197.3</b>	16.6	60.0	1.3	25700
Great Lakes Hybrids	6224STX	112	<b>196.4</b>	22.6	57.0	1.8	24800
Hoegemeyer	7946 AM	109	<b>195.7</b>	19.5	59.1	1.8	23600
Heine	852VT2PRORIB	112	<b>192.2</b>	24.8	58.0	1.0	25700
Wensman	W91095STXRIB	109	<b>190.0</b>	19.6	59.9	1.1	19800
Channel	213-19STXRIB	113	<b>188.6</b>	21.5	59.8	0.0	26100
Nutech/G2 Genetics	5F-308	108	186.8	20.0	59.8	0.5	22300
Titan Pro	TP 66-10 SS	110	186.1	21.5	57.6	0.5	20700
Great Lakes Hybrids	6462STXRIB	114	184.0	24.1	57.5	0.0	23200
Dairyland Seed	DS-9508RA	108	183.1	20.2	54.4	0.4	27900
Channel	209-53STXRIB	109	182.4	21.2	56.7	0.0	27300
Heine	837DGVT2PRO	111	182.1	21.7	58.0	3.5	28400
Nutech/G2 Genetics	5F-709	109	181.3	21.0	58.1	3.0	20800
Great Lakes Hybrids	6401STXRIB	114	176.1	22.6	58.2	0.0	26100
Renk	RK810SSTX	110	174.5	22.8	56.1	0.4	24100
Heine	863STX	112	174.0	24.4	57.3	0.0	26500
Channel	209-15VT2P	109	173.4	20.0	57.5	0.0	19700
Heine	856STXRIB	112	172.9	22.2	59.2	2.0	26900
Great Lakes Hybrids	6369VT2RIB	113	172.0	22.4	57.3	1.4	24000
Miller Hybrids	RX436VT2P	110	164.9	22.7	56.3	1.1	18900
Great Lakes Hybrids	5935STX	109	164.3	21.0	57.6	2.6	20300
Dyna-Gro	D50VC30VT2P	110	160.8	19.2	58.1	0.8	26000
Titan Pro	TP 59-08 SS	108	152.1	19.5	59.4	0.0	23100
Renk	RK792SSTX	108	145.6	19.1	59.0	0.0	24300
Renk	RK815SSTX	111	139.8	21.4	56.6	1.4	24200
<b>Trial Average</b>			183.8	21.0	58.0	1.1	24200
<b>LSD (0.05)†</b>			24.2	1.0	1.1	2.5	1800
<b>C.V.‡</b>			9.4	3.6	1.3	-	5.7

\* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† Value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

**Jonathan Kleinjan** | SDSU Extension Crop Production Associate  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 4.55 miles south and 1 mile east of Bath (57427) in Brown County, SD  
(GPS: 45.393017, -98.306879)

Cooperator: Gordon and Roger Locken Farms

Soil Type: Great Bend-Beotia silt loams, 0-2% slopes, non-irrigated

Fertilizer: 186-124-0-25S preplant; 30-10-10 starter

Yield Goal: 200 bu/acre

Previous crop: Soybeans

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: none  
Post: 1 qt Powermax (glyphosate)

Date seeded: 5/10/2017

Date harvested: 11/2/2017

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Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (95 day maturity or less)** at Bath, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Heine Seeds	6200VT2PRO	95	<b>249.1</b>	17.4	59.1	3.4	28500
Check	CHECK	97	<b>244.6</b>	18.2	57.3	3.2	27300
Federal Hybrids	4580 VT2P RIB	95	<b>242.4</b>	17.3	58.8	6.7	27700
Thunder Seed	6794 VT2P	94	<b>242.1</b>	17.1	59.1	5.4	28100
Federal Hybrids	4560 VT2P RIB	95	<b>240.7</b>	17.0	59.4	2.3	28100
Heine Seeds	632VT2PRORIB	95	<b>239.5</b>	17.3	58.1	6.8	27700
Dahlman Seed	R47-24VT2PRIB	94	<b>239.4</b>	17.1	58.3	6.7	27900
Miller Hybrids	RX94-25VT2P	94	<b>238.0</b>	16.7	58.3	2.7	27900
Renk	RK566SSTX	94	235.3	17.2	57.2	3.5	28000
Heine Seeds	615VT2PRO	95	235.2	17.3	58.2	2.0	28200
Peterson Farms Seed	77P94	94	235.0	17.0	58.5	3.5	28000
Renk	RK522SSTX	94	234.7	16.6	57.5	0.4	27200
Dahlman Seed	R48-28VT2PRIB	95	234.1	17.3	58.9	1.9	28400
Federal Hybrids	4470 VT2P RIB	94	232.5	17.0	57.7	3.1	27800
Miller Hybrids	RX91-03SS	91	232.4	16.6	58.2	1.5	28600
Federal Hybrids	4180 VT2P	91	231.9	16.4	59.2	8.2	29100
Proseed	1591 VT2P	91	231.4	16.2	59.4	4.8	27600
Thunder Seed	4695 RR	95	231.1	17.2	58.6	2.7	28300
Federal Hybrids	4560 SSTAX RIB	95	230.5	17.2	57.6	1.1	28700
Renk	RK433RR	92	230.4	16.9	58.5	4.7	28300
Channel	193-53STXRIB	93	230.1	16.7	56.8	0.8	28300
Proseed	PX694 VT2P	94	229.1	16.8	58.8	1.2	27900
Wensman	W8184VT2RIB	95	227.7	17.6	55.4	0.8	28200
Wensman	W80931VT2RIB	93	227.6	16.0	58.2	6.5	28600
Nutech/G2 Genetics	5G-293	93	227.0	17.5	58.4	3.8	26000
Wensman	W80928VT2RIB	92	227.0	16.4	57.9	1.9	28400
Heine Seeds	627VT3PRORIB	95	226.9	17.2	58.6	1.2	26400
Thunder Seed	7993 VT2P	93	226.9	17.1	57.9	0.8	27600
Dahlman Seed	R46-27VT2PRIB	92	226.3	16.8	58.4	2.3	28500
Dairyland Seed	DS-7294	94	225.8	17.2	57.2	15.9	27400
<b>Trial Average</b>			227.4	16.9	58.2	4.4	27500
<b>LSD (0.05)†</b>			12.0	0.6	1.0	3.2	1000
<b>C.V.‡</b>			3.8	3.6	1.2	-	2.6

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (95 day maturity or less)** at Bath, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Peterson Farms Seed	76S92	92	225.5	17.0	57.9	1.6	28000
Wensman	W80947VT2RIB	94	225.1	16.7	59.7	4.9	27000
Wensman	W80945-3110A	94	225.0	17.7	58.3	16.2	26900
Thunder Seed	4791 RR	91	224.3	16.3	58.1	3.7	26700
Channel	195-18VT2PRIB	95	224.0	17.8	60.4	4.2	28400
Federal Hybrids	4185 VT2P RIB	91	222.7	16.5	58.8	7.9	29000
Dairyland Seed	DS-6091	91	221.9	16.6	60.2	10.6	27700
Wensman	W80943VT2RIB	94	221.7	16.1	56.9	1.5	28400
Peterson Farms Seed	72A91	91	220.7	16.3	59.3	3.6	27100
Thunder Seed	6791 VT2P	91	220.0	16.0	56.8	4.5	26800
Federal Hybrids	4558 SSTAX RIB	95	219.9	17.2	56.6	3.7	26400
Rob-See-Co	IC4453-3110	94	219.9	16.9	58.0	10.9	26900
Rob-See-Co	RC4343-3110A	93	219.8	17.1	57.7	10.2	23500
Peterson Farms Seed	81W95	95	219.7	16.9	58.3	0.4	27800
Renk	RK568VT3P	95	217.9	18.4	57.4	4.4	24700
Rob-See-Co	IC4016-3010	90	217.8	16.7	57.7	8.1	25800
Rob-See-Co	IC4521-3110	95	217.8	17.3	56.8	3.3	26200
Thunder Seed	7793 SS	93	217.6	16.7	59.3	3.5	28100
Proseed	1395 VT2P	95	217.0	18.5	59.8	0.4	25900
Federal Hybrids	4160 VT2P RIB	91	211.8	15.9	58.4	2.4	27400
Dairyland Seed	DS-9090SSX	90	211.8	16.9	57.4	0.4	27100
Thunder Seed	4795 DP VT2P	95	196.9	15.1	57.6	11.4	26500
<b>Trial Average</b>			227.4	16.9	58.2	4.4	27500
<b>LSD (0.05)†</b>			12.0	0.6	1.0	3.2	1000
<b>C.V.‡</b>			3.8	3.6	1.2	-	2.6

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (96 day maturity or more)** at Bath, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Heine Seeds	739VT2PRO	102	<b>247.1</b>	20.2	56.5	0.0	27100
Channel	201-28VT2PRIB	101	<b>244.1</b>	18.1	56.0	0.4	26900
Check	CHECK	97	<b>242.5</b>	18.5	56.9	1.1	27900
Nutech/G2 Genetics	5F-196	96	<b>241.2</b>	17.0	56.3	7.0	28100
Channel	197-50STXRIB	97	<b>240.3</b>	18.7	55.2	5.8	28100
Hoegemeyer	6620 AM	96	<b>236.3</b>	16.8	56.3	8.5	27100
Channel	201-05VT2PRIB	101	<b>236.0</b>	19.3	56.0	16.6	27400
Heine Seeds	712STXRIB	100	<b>235.6</b>	18.9	56.4	4.4	27300
Miller Hybrids	EX98G	98	234.4	18.1	57.5	0.4	27300
Thunder Seed	4600 RR	100	233.9	18.3	56.6	5.2	26800
Wensman	W80993VT2RIB	99	233.8	17.7	57.9	11.6	28100
Wensman	W80972VT2RIB	97	233.7	17.0	57.2	0.4	26700
Federal Hybrids	4770 VT2P RIB	97	232.9	18.0	57.6	0.8	26600
Renk	RK608DGV2P	100	231.9	18.5	56.9	0.4	25600
Hoegemeyer	6813 AM	98	230.8	19.1	52.6	19.2	23800
Federal Hybrids	4680 VT2P	96	230.7	17.4	57.5	3.4	25800
Federal Hybrids	4880 VT2P RIB	98	230.1	17.9	58.7	1.7	25200
Hoegemeyer	7166 AM	101	229.5	18.2	57.6	6.1	26900
Dahlman Seed	R48-21VT2PRIB	96	228.9	17.3	58.4	0.4	25900
Proseed	1399 3000GT	99	228.1	19.2	56.5	1.7	25500
Thunder Seed	6798 VT2P	98	227.9	17.3	56.8	5.5	27700
Miller Hybrids	RX0961G	96	227.6	17.4	58.4	2.4	27100
Hoegemeyer	6695 AM	96	227.2	18.0	58.5	2.8	27200
Renk	RK595SSTX	99	226.8	17.9	57.1	5.3	26800
Hoegemeyer	7088 AM	100	226.5	18.5	56.7	14.5	27000
Miller Hybrids	RX96-53SS	96	225.1	17.7	58.2	1.5	28000
Federal Hybrids	5060 SSTAX RIB	100	225.0	19.4	55.3	1.6	26600
Nutech/G2 Genetics	5F-601	101	224.7	18.7	56.7	17.2	27200
Nutech/G2 Genetics	5FN-5096	96	224.6	17.5	57.0	7.8	24900
Nutech/G2 Genetics	5F-701	101	223.9	18.6	58.4	6.9	25300
<b>Trial Average</b>			228.8	18.2	56.5	7.0	26800
<b>LSD (0.05)†</b>			12.1	0.8	1.2	3.3	1000
<b>C.V.‡</b>			3.8	3.3	1.5	-	2.7

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Late Season Trial (96 day maturity or more)** at Bath, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Thunder Seed	7396 VT2P	96	223.9	17.2	56.6	2.8	27600
Rob-See-Co	RC4915-3120	99	223.7	19.8	50.9	4.7	25700
Hoegemeyer	6075 AMX	100	222.9	16.2	56.5	24.8	27700
Federal Hybrids	5180 SSTAX RIB	101	222.6	18.1	57.0	1.9	28300
Renk	RK675DGVT2P	103	222.5	18.1	55.6	5.0	26200
Thunder Seed	7603 SS	103	222.2	19.9	54.4	4.3	27600
Nutech/G2 Genetics	5FN-7099	99	220.4	19.0	53.0	18.3	23700
Federal Hybrids	4880 SSTAX RIB	98	219.8	19.1	56.6	9.4	26500
Federal Hybrids	4760 VT2P RIB	97	219.5	17.1	55.6	6.3	28000
Heine Seeds	639STXRIB	99	218.7	17.5	56.3	2.4	26900
Peterson Farms Seed	75S96	96	218.7	17.7	57.4	1.9	28500
Rob-See-Co	IC4688-3120	96	218.1	18.2	57.4	48.6	27300
Federal Hybrids	4760 SSTAX RIB	97	214.5	17.7	54.9	10.9	27000
<b>Trial Average</b>			228.8	18.2	56.5	7.0	26800
<b>LSD (0.05)†</b>			12.1	0.8	1.2	3.3	1000
<b>C.V.‡</b>			3.8	3.3	1.5	-	2.7

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.



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2017 South Dakota

Corn Hybrid Trial Results - Bancroft

**Jonathan Kleinjan** | SDSU Extension Crop Production Associate

**Kevin Kirby** | Agricultural Research Manager

**Shawn Hawks** | Agricultural Research Manager

Location: 2.5 miles north of Bancroft (57353) in Kingsbury County  
(GPS: N 44°31.091' W 097°45.244)

Cooperator: Weerts Farm, Inc.

Soil Type: Houdek-Stickney-Tetonka loam, 0-2% slope, non-irrigated

Fertilizer: 140-80-0-10S preplant; 30-10-10 starter

Yield Goal: 200 bu/ac

Previous crop: Soybeans

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: 1.5 pt Harness (acetochlor), applied with fertilizer  
Post: 1 qt Roundup PowerMax (glyphosate) + 1.75 pt TripleFlex (acetochlor + flumetsulam + clopyralid) + 3 oz Status (dicamba + diflufenzopyr)

Date seeded: 5/4/2017

Date harvested: 11/9/2017

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Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Bancroft, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Hoegemeyer	HPT 6620 AM	96	<b>240.7</b>	16.9	59.0	0.0	27700
Nutech/G2 Genetics	5F-196	96	<b>239.1</b>	16.4	58.4	0.0	27900
Heine Seeds	6250VT2PRO	96	<b>232.6</b>	17.4	58.6	0.0	28300
Peterson Farms Seed	72D00	100	<b>232.1</b>	17.0	60.0	0.0	27000
Federal Hybrids	4880 VT2P RIB	98	<b>230.5</b>	16.6	59.5	0.4	28100
Wensman	W80993VT2RIB	99	<b>230.3</b>	17.3	58.9	0.0	28500
Check	CHECK	97	<b>230.0</b>	16.9	59.2	0.0	29500
Nutech/G2 Genetics	5F-198	98	<b>227.9</b>	16.1	57.0	0.9	26100
Renk	RK608DGV2P	100	<b>227.4</b>	17.2	58.3	0.0	26100
Wensman	W81007VT2RIB	100	<b>226.2</b>	17.5	60.1	0.4	27000
Federal Hybrids	4760 VT2P RIB	97	<b>226.1</b>	16.7	59.2	0.0	29100
Peterson Farms Seed	78B98	98	<b>226.1</b>	17.1	60.0	0.0	28500
Federal Hybrids	4680 VT2P	96	<b>226.1</b>	16.3	60.7	0.0	28600
Rob-See-Co	IC4688-3120	96	<b>225.9</b>	17.1	59.6	2.7	28300
Heine Seeds	632VT2PRORIB	95	225.0	16.5	58.9	0.4	28500
Hoegemeyer	HPT 7088 AM	100	224.7	17.3	59.5	0.8	28000
Dairyland Seed	DS-9599	99	224.5	17.5	58.9	3.8	28500
Wensman	W80972VT2RIB	97	224.5	16.3	59.4	0.4	29200
Channel	197-50STXRIB	97	223.6	17.1	58.4	0.0	28500
Thunder Seed	4695 RR	95	223.3	16.5	60.3	0.0	28500
Nutech/G2 Genetics	5FN-7099	99	223.0	17.1	57.5	0.4	24900
Heine Seeds	637STX	99	222.8	16.3	59.1	0.0	28400
Wensman	W8184VT2RIB	95	222.7	16.9	60.0	0.0	28100
Heine Seeds	712STXRIB	100	221.8	17.9	59.2	0.4	28100
Federal Hybrids	4185 VT2P RIB	91	221.1	16.2	60.3	0.0	28300
Federal Hybrids	5060 SSTAX RIB	100	220.5	17.7	59.3	0.4	27000
Rob-See-Co	RC4915-3120	99	220.5	15.9	55.6	0.0	27700
Federal Hybrids	4470 VT2P RIB	94	220.3	16.9	59.8	0.8	27000
Thunder Seed	6794 VT2P	94	220.2	16.7	59.7	2.3	28600
Federal Hybrids	4770 VT2P RIB	97	219.7	16.6	59.4	0.0	28400
<b>Trial Average</b>			219.5	16.8	59.4	0.4	27800
<b>LSD (0.05)†</b>			15.4	0.6	1.0	1.2	1000
<b>C.V.‡</b>			5.0	3.0	1.2	-	2.6

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Bancroft, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Federal Hybrids	4880 SSTAX RIB	98	218.1	17.0	59.7	0.4	26600
Federal Hybrids	4580 VT2P RIB	95	217.0	16.2	61.3	0.0	29100
Nutech/G2 Genetics	5FN-5096	96	215.5	17.1	59.7	0.0	27100
Channel	195-18VT2PRIB	95	215.3	17.2	61.3	2.4	27400
Thunder Seed	6798 VT2P	98	214.7	16.4	59.7	0.0	26400
Federal Hybrids	4160 VT2P RIB	91	214.4	15.6	59.8	0.0	29200
Rob-See-Co	IC4521-3110	95	213.7	16.7	60.5	0.0	27100
Hoegemeyer	HPT 6813 AM	98	213.5	17.0	57.7	0.4	25700
Federal Hybrids	4560 VT2P RIB	95	213.4	16.8	61.0	0.4	27400
Federal Hybrids	4760 SSTAX RIB	96	210.6	16.8	59.2	0.0	27000
Thunder Seed	4600 RR	100	210.1	17.1	59.5	0.0	27100
Thunder Seed	7793 SS	93	209.9	16.4	59.4	1.2	27700
Renk	RK595SSTX	99	209.2	16.4	60.6	0.0	28200
Federal Hybrids	4180 VT2P	91	207.4	16.4	60.4	1.2	28100
Thunder Seed	7396 VT2P	96	206.8	15.8	58.7	0.0	28300
Federal Hybrids	4558 SSTAX RIB	95	206.6	16.3	59.1	0.0	27800
Heine Seeds	732DGV2PRORIB	100	204.4	17.1	59.4	0.8	27000
Thunder Seed	7993 VT2P	93	204.1	16.1	59.8	0.0	28400
Heine Seeds	723VT2PRORIB	100	203.9	17.3	60.0	0.0	28400
Federal Hybrids	4560 SSTAX RIB	95	203.1	16.5	59.8	0.0	27300
Wensman	W90979STXRIB	97	196.6	16.8	59.7	0.0	26800
<b>Trial Average</b>			219.5	16.8	59.4	0.4	27800
<b>LSD (0.05)†</b>			15.4	0.6	1.0	1.2	1000
<b>C.V.‡</b>			5.0	3.0	1.2	-	2.6

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (101 day maturity or more)** at Bancroft, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Heine Seeds	740VT2PRO	102	<b>261.0</b>	17.4	59.8	0.4	28000
Nutech/G2 Genetics	X5FN-0306	103	<b>246.1</b>	17.7	60.1	2.3	28200
Heine Seeds	739VT2PRO	102	<b>240.6</b>	18.0	59.0	0.8	26600
Channel	201-28VT2PRIB	101	<b>238.7</b>	16.8	58.7	0.0	27600
Heine Seeds	752VT2PRO	105	<b>238.4</b>	18.1	59.3	0.4	27900
Dairyland Seed	DS-9804SSX	104	<b>236.8</b>	18.3	56.9	0.4	26800
Channel	204-74VT2PRIB	104	<b>234.5</b>	17.9	58.2	0.8	25700
Thunder Seed	7603 SS	103	<b>234.5</b>	17.4	58.9	0.0	28500
Nutech/G2 Genetics	5F-601	101	<b>233.7</b>	17.4	58.8	0.8	28400
Rob-See-Co	IC5296-3120	102	<b>233.3</b>	16.8	58.0	2.3	28100
Heine Seeds	754STXRIB	105	233.3	17.5	59.8	0.4	28400
Nutech/G2 Genetics	5F-504	104	232.9	18.3	57.1	5.0	28200
Wensman	W9325STXRIB	102	230.6	18.0	59.7	0.8	25800
Channel	201-05VT2PRIB	101	230.5	17.2	58.2	1.6	27300
Rob-See-Co	RC5112-3122A	101	230.0	18.4	58.2	0.0	28100
Channel	205-19STXRIB	105	230.0	17.7	56.4	0.8	26500
Check	CHECK	97	229.8	16.8	59.3	0.4	28600
Nutech/G2 Genetics	5F-701	101	227.9	17.1	60.3	0.0	25400
Dairyland Seed	DS-9802RA	102	226.4	18.2	58.3	2.1	26600
Heine Seeds	7410STX	104	226.2	17.1	56.9	1.3	24900
Renk	RK642SSTX	103	224.8	17.6	59.0	0.8	27700
Channel	203-01STXRIB	103	224.5	17.7	58.0	0.0	27600
Renk	RK680SSTX	103	221.6	17.3	58.9	0.4	27800
Wensman	W91018STXRIB	101	220.2	16.6	56.4	0.8	26800
Federal Hybrids	5180 SSTAX RIB	101	218.2	16.7	59.2	0.8	27700
Hoegemeyer	7166 AM	101	217.5	17.3	59.8	0.0	27000
Wensman	W91025STXRIB	102	217.2	16.6	59.9	2.8	27600
Nutech/G2 Genetics	X5LN-0308	103	215.4	17.2	59.9	0.5	24000
Renk	RK675DGVT2P	103	205.1	17.2	57.7	3.8	25800
Rob-See-Co	IC5203-3120	102	204.9	18.4	58.6	1.6	27600
Peterson Farms Seed	81W01	101	203.2	16.6	58.5	0.4	24300
<b>Trial Average</b>			228.0	17.5	58.6	1.0	27070
<b>LSD (0.05)†</b>			15.1	0.6	0.9	1.7	1084
<b>C.V.‡</b>			4.7	2.3	1.2	-	2.8

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.



**Jonathan Kleinjan** | SDSU Extension Crop Production Associate  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 8.5 miles west of South Shore (57263) in Codington County, SD  
(GPS: 45.106810, -97.100162)

Cooperator: SDSU Northeast Research Farm - Allen Heuer, manager

Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slope

Fertilizer: 150-0-50-25S preplant incorporated; 30-10-10 starter

Yield Goal: 200 bu/acre

Previous crop: Soybeans

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: 1 qt Dual II (metolachlor)  
Post: 1 qt Roundup PowerMax (glyphosate)

Date seeded: 5/3/2017

Date harvested: 11/13/2017

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Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (95 day maturity or less)** at South Shore, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Thunder Seed	6794 VT2P	94	255.5	20.2	56.8	0.0	28600
Federal Hybrids	4185 VT2P RIB	91	251.8	20.3	58.7	0.0	28100
Federal Hybrids	4580 VT2P RIB	95	251.7	21.0	57.9	0.0	28100
Federal Hybrids	4560 SSTAX RIB	95	251.5	18.9	58.2	0.0	28300
Check	CHECK	97	249.8	21.1	56.5	3.4	28600
Renk	RK433RR	92	248.9	19.4	57.5	0.0	28500
Proseed	PX694 VT2P	94	248.4	20.4	57.3	0.0	29300
Proseed	1591 VT2P	91	246.7	19.8	56.9	0.7	29500
Renk	RK566SSTX	94	246.3	19.1	57.9	0.0	28100
Peterson Farms Seed	77P94	94	245.9	20.6	56.0	0.0	27700
Thunder Seed	4695 RR	95	245.3	21.1	57.2	0.0	28900
Peterson Farms Seed	72A91	91	245.3	20.1	57.5	0.4	28400
Federal Hybrids	4160 VT2P RIB	91	243.6	19.5	57.6	0.8	28600
Federal Hybrids	4470 VT2P RIB	94	241.8	20.7	55.7	0.4	27900
Titan Pro	TP 58-95 SS	95	241.3	19.0	58.6	0.0	28600
Wensman	W80931VT2RIB	93	239.1	17.9	57.6	1.9	29300
Federal Hybrids	4180 VT2P	91	238.8	18.5	57.8	0.0	28100
Channel	193-53STXRIB	93	238.5	19.2	55.7	0.0	28600
Federal Hybrids	4560 VT2P RIB	95	237.8	19.5	58.3	0.0	28000
Dairyland Seed	DS-9090SSX	90	235.1	18.8	56.3	0.0	28700
Thunder Seed	4791 RR	91	234.6	19.5	57.5	0.0	28000
Dairyland Seed	DS-6091	91	234.3	19.6	58.5	3.9	27700
Renk	RK522SSTX	94	233.5	20.4	55.4	0.0	28000
Dairyland Seed	DS-7294	94	233.1	19.3	58.3	0.0	27100
Thunder Seed	7793 SS	93	232.5	19.1	59.4	0.0	28300
Peterson Farms Seed	81W95	95	231.9	20.4	57.0	0.0	28400
Peterson Farms Seed	76S92	92	231.2	19.5	58.2	0.0	28100
Federal Hybrids	4558 SSTAX RIB	95	229.0	20.9	56.5	0.0	27600
Thunder Seed	7993 VT2P	93	228.9	19.9	58.1	0.0	28300
Rob-See-Co	IC4521-3110	95	228.8	19.4	57.6	0.0	27400
<b>Trial Average</b>			235.4	19.9	57.4	0.5	27800
<b>LSD (0.05)†</b>			11.1	0.8	1.0	1.0	1100
<b>C.V.‡</b>			3.4	3.0	1.2	-	2.9

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (95 day maturity or less)** at South Shore, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Thunder Seed	6791 VT2P	91	228.2	19.8	58.4	0.4	26600
Nutech/G2 Genetics	5G-293	93	227.2	18.8	58.1	0.4	27300
Wensman	W80947VT2RIB	94	226.9	20.8	57.1	0.0	28400
Titan Pro	TP 73-91 2P	91	226.6	20.5	57.2	0.0	27000
Channel	195-18VT2PRIB	95	226.4	22.6	57.8	0.4	28200
Rob-See-Co	IC4016-3010	90	225.4	18.0	57.8	0.4	25700
Masters Choice	SP1927	95	225.3	21.7	55.9	3.8	25900
Rob-See-Co	IC4453-3110	94	221.4	18.9	58.5	0.8	25600
Proseed	1395 VT2P	95	221.2	21.5	56.8	0.4	26500
Rob-See-Co	RC4343-3110A	93	218.9	19.1	58.0	0.5	24000
Thunder Seed	4795 DP VT2P	95	218.0	18.0	55.7	0.8	28200
Renk	RK568VT3P	95	200.6	21.6	56.5	0.0	23200
<b>Trial Average</b>			235.4	19.9	57.4	0.5	27800
<b>LSD (0.05)†</b>			11.1	0.8	1.0	1.0	1100
<b>C.V.‡</b>			3.4	3.0	1.2	-	2.9

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - Late Season Trial (96 day maturity or more) at South Shore, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Channel	201-28VT2PRIB	101	265.3	22.3	55.8	0.4	26800
Channel	197-50STXRIB	97	265.2	21.3	55.5	0.4	29100
Wensman	W80965VT2RIB	96	262.5	20.6	57.1	0.4	28900
Channel	201-05VT2PRIB	101	258.1	22.7	54.7	0.4	25900
Wensman	W90994STXRIB	99	256.9	21.2	55.8	0.4	28900
Wensman	W9288STXRIB	98	255.3	22.3	55.7	1.5	28500
Dairyland Seed	DS-9701RA	101	254.8	23.6	53.6	0.8	28100
Nutech/G2 Genetics	5F-196	96	254.8	21.0	54.4	0.0	27100
Rob-See-Co	IC4772-3111	97	254.7	19.7	57.0	0.0	29400
Hoegemeyer	HPT 6620 AM	96	253.8	20.3	54.6	1.6	27700
Check	CHECK	97	253.2	21.0	56.8	2.2	29200
Titan Pro	TP 65-00 2P	100	252.7	23.2	56.1	0.0	27100
Peterson Farms Seed	75S96	96	252.3	20.8	57.7	0.0	29600
Federal Hybrids	4880 VT2P RIB	98	252.2	20.9	56.0	0.0	26800
Thunder Seed	4600 RR	100	252.1	21.9	56.2	1.1	28600
Thunder Seed	7603 SS	103	252.1	20.5	57.5	1.5	28400
Thunder Seed	6798 VT2P	98	251.4	20.1	56.1	0.4	28900
Federal Hybrids	4760 VT2P RIB	97	250.7	19.4	57.5	0.0	28200
Renk	RK595SSTX	99	249.9	19.1	57.4	0.0	29200
Federal Hybrids	5180 SSTAX RIB	101	249.8	22.1	56.7	0.0	27300
Federal Hybrids	4680 VT2P	96	249.2	21.0	56.1	0.0	28600
Thunder Seed	7396 VT2P	96	248.6	18.7	56.0	0.0	28700
Renk	RK608DGV2P	100	248.6	23.0	54.1	0.0	27800
Hoegemeyer	HPT 7166 AM	101	248.1	22.2	58.0	1.2	27400
Wensman	W80993VT2RIB	99	247.9	23.9	54.7	0.4	27900
Federal Hybrids	4770 VT2P RIB	97	247.8	22.8	55.4	0.0	28400
Federal Hybrids	4760 SSTAX RIB	97	246.7	20.1	54.8	0.8	28000
Wensman	W80972VT2RIB	97	244.8	21.6	53.8	0.4	28600
Nutech/G2 Genetics	5F-701	101	244.1	22.0	56.7	0.0	27100
Peterson Farms Seed	78B98	98	242.5	21.7	55.9	0.8	27600
<b>Trial Average</b>			245.9	21.5	55.5	0.7	27600
<b>LSD (0.05)†</b>			12.4	1.0	1.0	1.2	1000
<b>C.V.‡</b>			3.6	3.2	1.3	-	2.6

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Late Season Trial (96 day maturity or more)** at South Shore, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Nutech/G2 Genetics	5F-601	101	241.5	22.7	54.8	3.2	26900
Federal Hybrids	5060 SSTAX RIB	100	240.3	22.6	56.8	0.8	27700
Rob-See-Co	RC4915-3120	99	239.5	22.7	50.1	0.4	26700
Proseed	1399 3000GT	99	239.4	22.3	54.7	0.0	25000
Wensman	W90979STXRIB	97	236.5	19.6	56.0	0.0	25900
Hoegemeyer	HPT 6695 AM	96	235.5	21.2	55.3	0.0	25500
Dairyland Seed	DS-9802RA	102	233.6	23.2	52.8	0.0	26700
Hoegemeyer	HPT 7088 AM	100	233.4	21.7	56.3	0.8	27700
Federal Hybrids	4880 SSTAX RIB	98	233.3	21.4	55.5	0.0	25200
Nutech/G2 Genetics	5FN-7099	99	229.6	23.4	52.9	0.4	26600
Hoegemeyer	HPT 6075 AMX	100	226.8	17.9	55.7	0.4	28200
Hoegemeyer	HPT 6813 AM	98	224.5	23.0	52.3	2.8	26900
Renk	RK675DGVT2P	103	219.6	22.6	55.3	2.1	26100
Nutech/G2 Genetics	5FN-5096	96	219.5	22.9	55.4	3.4	26000
<b>Trial Average</b>			245.9	21.5	55.5	0.7	27600
<b>LSD (0.05)†</b>			12.4	1.0	1.0	1.2	1000
<b>C.V.‡</b>			3.6	3.2	1.3	-	2.6

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

**Jonathan Kleinjan** | SDSU Extension Crop Production Associate

**Kevin Kirby** | Agricultural Research Manager

**Shawn Hawks** | Agricultural Research Manager

Location: 2 miles East and 1 mile North of Geddes (57432) in Charles Mix County, SD  
(GPS: 43.271195, -98.645333)

Cooperator: Curtis Sybesma

Soil Type: Eakin-Ethan complex, 2-6% slopes

Fertilizer: 120-46-0-32S-2Z preplant; 30-10-10 starter

Yield Goal: 170 bu/acre

Previous crop: Soybeans

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 28,750/acre

Herbicide: Pre: 1.5 qt Harness Xtra (acetochlor) + 33 oz Powermax (glyphosate) + 1 pt  
Banvel (dicamba)  
Post: 33 oz Powermax (glyphosate)

Date seeded: 5/11/2017

Date harvested: 11/10/2017

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Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (107 day maturity or less)** at Geddes, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Miller Hybrids	M06-94BRGV	106	<b>228.1</b>	17.3	59.0	1.2	27200
Nutech/G2 Genetics	5VN-4707	107	<b>224.3</b>	17.2	59.6	0.0	27200
Channel	207-27STXRIB	107	<b>220.8</b>	17.7	60.0	0.0	27000
Nutech/G2 Genetics	5F-504	104	<b>219.5</b>	17.1	60.2	3.3	26500
Hoegemeyer	HPT 7166 AM	101	<b>219.1</b>	16.3	62.1	0.4	27300
Hoegemeyer	HPT 7557 AM	105	<b>217.1</b>	17.0	60.9	0.4	27700
Nutech/G2 Genetics	5D-906	106	213.1	16.7	61.3	0.4	25200
Dyna-Gro	D44VC36VT2P	104	211.0	16.3	60.2	1.2	27000
Channel	204-74VT2PRIB	104	208.3	16.8	61.6	0.0	26400
Great Lakes Hybrids	5470STXRIB	104	204.6	15.8	59.6	1.2	27400
Wensman	W81041VT2RIB	104	203.1	17.0	60.8	0.4	27700
Nutech/G2 Genetics	5H-905	105	201.2	16.3	59.1	0.8	26200
Thunder Seed	4695 RR	95	200.9	14.0	60.6	2.0	27600
Thunder Seed	6798 VT2P	98	200.7	13.9	60.1	0.8	27800
Renk	RK776SSTX	107	199.9	17.4	61.0	0.0	27100
Miller Hybrids	M01-41BRGA	101	199.2	16.5	61.6	0.0	27900
Hoegemeyer	HPT 7333 AMXT	103	199.1	15.8	59.4	0.0	23200
Hoegemeyer	HPT 7088 AM	100	197.4	16.2	60.8	0.8	26500
Channel	203-01STXRIB	103	196.8	15.6	59.0	0.0	26400
Great Lakes Hybrids	5283STXRIB	102	196.5	15.7	60.8	0.4	26600
Channel	205-19STXRIB	105	196.3	15.7	59.8	0.0	27100
Dyna-Gro	D39DC43	99	195.4	15.8	60.2	1.2	27400
Heine Seeds	790VT2PRORIB	107	195.1	17.1	59.5	0.4	26500
Great Lakes Hybrids	5755STXRIB	107	194.8	17.0	58.9	0.9	25900
Nutech/G2 Genetics	X5FN-0306	103	193.0	16.8	61.1	1.2	27000
Thunder Seed	7603 SS	103	192.3	14.9	59.9	1.6	27000
Thunder Seed	6794 VT2P	94	192.1	14.5	60.7	1.7	26000
Wensman	W81007VT2RIB	100	190.3	15.3	59.8	1.2	26900
Great Lakes Hybrids	5556VT2RIB	105	189.1	16.2	59.3	0.0	26900
Wensman	W81069VT2RIB	106	188.6	16.8	61.6	0.0	26600
<b>Trial Average</b>			194.0	16.1	60.4	0.9	26700
<b>LSD (0.05)†</b>			12.5	0.8	1.0	1.7	1000
<b>C.V.‡</b>			5.6	3.4	1.2	-	2.7

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (107 day maturity or less)** at Geddes, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Nutech/G2 Genetics	X5LN-0308	103	187.8	15.9	60.2	0.0	23100
Thunder Seed	4600 RR	100	187.6	15.6	60.9	3.4	25600
Heine Seeds	823VT2PRO	107	185.5	19.0	57.9	0.8	26200
Check	CHECK	97	177.0	15.4	61.4	0.4	27400
Heine Seeds	821VT2PRORIB	107	176.3	18.0	59.9	5.0	26400
Great Lakes Hybrids	5626VT2PRO	106	173.2	17.1	62.7	0.0	25900
Thunder Seed	7993 VT2P	93	172.3	14.6	61.8	0.8	26900
Thunder Seed	7793 SS	93	167.9	14.1	61.0	2.1	25800
Thunder Seed	7396 VT2P	96	167.2	13.3	58.9	1.9	27600
Renk	RK717SSTX	105	163.5	16.5	61.7	0.4	26800
Heine Seeds	754STXRIB	105	156.2	16.5	61.0	0.0	27800
Wensman	W81028VT2RIB	102	155.7	16.3	60.5	2.0	27100
<b>Trial Average</b>			194.0	16.1	60.4	0.9	26700
<b>LSD (0.05)†</b>			12.5	0.8	1.0	1.7	1000
<b>C.V.‡</b>			5.6	3.4	1.2	-	2.7

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.



Table 2. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (108 day maturity or more)** at Geddes, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Great Lakes Hybrids	6462STXRIB	114	<b>217.1</b>	20.1	61.2	0.0	25500
Nutech/G2 Genetics	5F-709	109	<b>214.6</b>	17.7	59.7	0.9	25800
Great Lakes Hybrids	6369VT2RIB	113	<b>213.9</b>	19.2	58.9	0.4	26500
Hoegemeyer	HPT 8066 AM	110	<b>211.3</b>	19.0	58.8	0.9	24700
Miller Hybrids	M08-06BGV	108	<b>208.1</b>	17.5	58.0	1.2	26500
Wensman	W91095STXRIB	109	<b>208.0</b>	17.1	60.2	0.9	25600
Channel	213-19STXRIB	113	<b>204.5</b>	18.7	60.3	0.4	25900
Heine Seeds	852VT2PRORIB	112	<b>204.0</b>	22.2	58.0	0.4	24800
Nutech/G2 Genetics	5F-308	108	<b>203.6</b>	17.6	60.3	0.4	26700
Hoegemeyer	HPT 7946 AM	109	<b>202.1</b>	17.9	60.3	0.4	25900
Renk	RK871VT2P	111	197.8	19.2	58.1	0.4	25400
Channel	209-15VT2P	109	197.1	17.4	59.1	0.9	24400
Channel	210-26STXRIB	110	196.1	18.7	58.9	0.0	25800
Channel	208-23STXRIB	108	194.4	18.6	57.8	0.0	25900
Channel	209-53STXRIB	109	194.4	19.4	57.5	0.4	26200
Heine Seeds	837DGV2PRO	111	194.0	20.1	58.7	0.8	26800
Great Lakes Hybrids	5910VT2PRO	109	191.6	17.7	60.8	0.8	26400
Great Lakes Hybrids	6224STX	112	188.6	19.7	60.1	0.0	22300
Renk	RK810SSTX	110	187.5	20.7	57.6	0.0	22800
Heine Seeds	863STX	112	186.5	22.1	60.5	0.0	25700
Heine Seeds	856STXRIB	112	185.9	19.4	57.9	0.4	25600
Miller Hybrids	RX436VT2P	110	184.7	19.4	59.2	0.4	27400
Check	CHECK	97	180.2	15.2	60.1	0.8	26000
Renk	RK815SSTX	111	175.6	18.2	58.2	1.3	24600
Miller Hybrids	RX13-11VT2P	113	175.0	18.0	58.9	0.0	24500
Renk	RK792SSTX	108	169.7	16.4	60.8	0.0	24400
Great Lakes Hybrids	6401STXRIB	114	168.5	20.5	59.0	0.4	26400
Great Lakes Hybrids	5935STX	109	164.0	17.9	59.4	0.9	23800
Dyna-Gro	D50VC30VT2P	110	159.1	17.4	60.0	0.0	26100
<b>Trial Average</b>			191.6	18.6	59.3	0.5	25500
<b>LSD (0.05)†</b>			15.8	1.9	1.0	1.5	1000
<b>C.V.‡</b>			5.9	7.4	1.2	-	2.7

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Yield or moisture value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

**Jonathan Kleinjan** | SDSU Extension Crop Production Associate  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 1.5 miles south of Volga (57101) in Brookings County, SD  
(GPS: 44.298767, -96.922201)

Cooperator: SDSU Volga Research Farm - Jack Ingemansen, manager

Soil Type: Brandt silty clay loam, 0-2% slope

Fertilizer: 179-40-40-7S preplant, 30-10-10 starter

Yield Goal: 200 bu/ac

Previous crop: Soybeans

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: 1.8 pt Staunch (acetochlor)  
Post: 32 oz Roundup Power Max (glyphosate)

Date seeded: 5/5/2017

Date harvested: 11/11/2017

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Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Volga, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Heine Seeds	6250VT2PRO	96	<b>278.1</b>	17.4	59.1	0.0	28400
Hoegemeyer	HPT 7088 AM	100	<b>274.4</b>	17.0	58.7	0.0	27900
Federal Hybrids	4880 VT2P RIB	98	<b>274.3</b>	16.5	59.1	0.0	28100
Renk	RK608DGV2P	100	<b>273.7</b>	17.1	59.1	0.0	27400
Thunder Seed	6798 VT2P	98	<b>272.0</b>	16.3	59.5	0.0	28600
Federal Hybrids	4580 VT2P RIB	95	<b>270.3</b>	16.8	60.5	0.0	28600
Titan Pro	TP 65-00 2P	100	<b>269.8</b>	17.2	59.4	0.0	27900
Hoegemeyer	HPT 6813 AM	98	<b>268.7</b>	16.7	56.8	0.0	25400
Federal Hybrids	4760 VT2P RIB	97	<b>267.7</b>	15.9	58.3	0.0	29200
Federal Hybrids	4880 SSTAX RIB	98	<b>266.3</b>	17.1	60.0	0.0	26400
Federal Hybrids	5060 SSTAX RIB	100	<b>265.1</b>	16.6	58.6	0.4	28200
Wensman	W8184VT2RIB	95	<b>265.0</b>	16.8	61.5	0.0	29200
Channel	197-50STXRIB	97	<b>264.9</b>	16.8	58.6	0.8	28900
Thunder Seed	4695 RR	95	<b>264.6</b>	16.6	59.0	0.0	28900
Heine Seeds	637STX	99	<b>264.6</b>	16.2	60.0	0.4	29000
Heine Seeds	712STXRIB	100	263.3	16.6	59.4	0.0	29300
Check	CHECK	97	263.3	16.6	59.6	0.0	28400
Wensman	W80993VT2RIB	99	263.2	17.0	59.9	0.0	27800
Peterson Farms Seed	78B98	98	262.9	16.6	60.0	0.0	28900
Miller Hybrids	EX98G	98	261.9	16.8	59.7	0.0	28500
Wensman	W81007VT2RIB	100	261.1	17.4	58.3	0.0	27700
Wensman	W80972VT2RIB	97	261.0	16.6	60.1	0.0	29600
Titan Pro	TP 71-98 2P	98	260.6	16.7	59.7	0.4	28000
Peterson Farms Seed	72D00	100	260.3	17.3	57.1	0.0	27700
Channel	195-18VT2PRIB	95	257.8	17.5	62.2	0.0	28300
Miller Hybrids	RX0961G	96	256.8	16.4	60.1	0.0	28200
Renk	RK595SSTX	99	256.6	15.9	59.2	0.0	28700
Nutech/G2 Genetics	5F-196	96	256.5	16.4	56.9	0.0	29100
Federal Hybrids	4680 VT2P	96	256.3	16.6	58.7	0.0	28200
Heine Seeds	632VT2PRORIB	100	255.7	15.9	59.4	0.0	29300
<b>Trial Average</b>			255.9	16.5	59.0	0.1	28100
<b>LSD (0.05)†</b>			13.9	0.5	0.9	0.7	1100
<b>C.V.‡</b>			3.9	2.0	1.1	-	2.8

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Volga, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Masters Choice	SP2038	93	254.3	16.2	57.9	0.0	29000
Federal Hybrids	4770 VT2P RIB	97	254.0	16.6	58.8	0.0	28700
Nutech/G2 Genetics	5FN-7099	99	252.3	16.5	56.0	0.0	24100
Federal Hybrids	4760 SSTAX RIB	97	251.6	15.6	57.0	0.4	28900
Heine Seeds	723VT2PRORIB	100	248.0	16.5	59.1	0.0	28500
Federal Hybrids	4558 SSTAX RIB	95	247.1	16.2	58.2	0.0	28300
Hoegemeyer	HPT 6695 AM	96	247.1	16.2	59.8	0.0	26700
Thunder Seed	7993 VT2P	93	246.6	16.5	61.0	0.0	29200
Federal Hybrids	4560 SSTAX RIB	95	245.9	16.1	59.4	0.0	28300
Rob-See-Co	IC4772-3111	97	245.2	15.1	58.7	0.7	29200
Thunder Seed	6794 VT2P	94	244.5	16.1	58.3	0.0	28100
Thunder Seed	4600 RR	100	243.7	16.6	58.5	1.9	28900
Federal Hybrids	4560 VT2P RIB	95	242.6	16.3	60.2	0.0	27900
Rob-See-Co	RC4915-3120	99	242.3	15.0	56.4	0.0	25500
Miller Hybrids	RX94-25VT2P	94	241.6	16.2	59.0	0.0	28300
Thunder Seed	7396 VT2P	96	239.3	15.4	58.3	0.4	28200
Wensman	W90979STXRIB	97	239.1	15.7	58.2	0.4	27400
Hoegemeyer	HPT 6620 AM	96	238.1	16.4	57.0	0.4	28100
Nutech/G2 Genetics	5FN-5096	96	234.3	16.4	59.5	0.0	25400
Rob-See-Co	IC4521-3110	95	225.3	16.6	59.8	0.0	26400
Thunder Seed	7793 SS	94	224.5	16.3	58.7	0.0	27700
<b>Trial Average</b>			255.9	16.5	59.0	0.1	28100
<b>LSD (0.05)†</b>			13.9	0.5	0.9	0.7	1100
<b>C.V.‡</b>			3.9	2.0	1.1	-	2.8

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (101 day maturity or more)** at Volga, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Titan Pro	TP 53-03 2P	103	<b>286.5</b>	17.6	59.9	0.0	28400
Channel	201-05VT2PRIB	101	<b>278.6</b>	17.9	57.8	0.0	27300
Channel	205-19STXRIB	105	<b>274.7</b>	17.4	58.1	0.0	27900
Dairyland Seed	DS-9804SSX	104	<b>274.7</b>	19.7	57.9	0.0	28000
Channel	203-01STXRIB	103	<b>274.5</b>	17.0	57.5	0.0	27700
Channel	201-28VT2PRIB	101	<b>272.7</b>	16.2	58.9	0.0	28200
Heine Seeds	739VT2PRO	102	<b>271.9</b>	19.0	59.0	0.0	29000
Hoegemeyer	HPT 7224 AM	102	269.4	17.0	58.5	0.4	28400
Heine Seeds	752VT2PRO	105	269.3	18.3	57.8	0.0	27700
Channel	204-74VT2PRIB	104	267.6	18.1	59.4	0.8	27000
Heine Seeds	740VT2PRO	102	267.2	17.8	58.2	0.4	28100
Wensman	W91025STXRIB	102	264.3	16.6	60.0	0.4	27100
Check	CHECK	97	260.8	16.6	59.6	0.0	28600
Nutech/G2 Genetics	X5FN-0306	103	260.1	17.8	59.1	0.0	28500
Heine Seeds	754STXRIB	105	259.7	17.5	60.2	0.4	28900
Renk	RK642SSTX	103	259.4	17.8	60.0	0.0	27300
Nutech/G2 Genetics	5F-601	101	257.5	17.6	57.7	0.0	27000
Nutech/G2 Genetics	X5LN-0308	103	256.6	17.0	59.0	0.0	23500
Titan Pro	TP61-013122A	101	256.4	18.2	60.5	0.0	28000
Wensman	W91018STXRIB	101	253.8	17.0	59.3	0.4	27200
Titan Pro	TP 75-01 SS	101	251.3	16.7	59.2	0.0	28200
Masters Choice	SP2272	102	251.1	17.6	59.8	0.0	28100
Thunder Seed	7603 SS	103	250.7	17.2	58.9	0.0	28400
Rob-See-Co	IC5203-3120	102	250.6	19.1	60.7	0.0	28500
Rob-See-Co	RC5112-3122A	101	250.0	19.0	59.9	1.1	27900
Federal Hybrids	5180 SSTAX RIB	101	249.8	17.5	60.1	0.0	29000
Wensman	W91051STXRIB	105	249.7	19.9	60.2	0.4	26800
Heine Seeds	7410STX	104	248.8	16.6	57.8	0.0	27300
Renk	RK680SSTX	103	248.1	17.6	58.6	0.0	27700
Miller Hybrids	M01-41BRGA	101	247.8	18.1	59.3	0.4	28200
<b>Trial Average</b>			255.9	17.7	58.9	0.1	27400
<b>LSD (0.05)†</b>			14.6	0.8	1.1	0.8	1100
<b>C.V.‡</b>			4.1	3.2	1.3	-	2.9

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Late Season Trial (101 day maturity or more)** at Volga, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Peterson Farms Seed	81W01	101	245.5	17.2	57.0	0.0	24300
Dairyland Seed	DS-9802RA	102	243.7	18.2	56.4	0.0	28400
Nutech/G2 Genetics	5F-701	101	239.5	17.0	58.6	0.0	25500
Rob-See-Co	RC53713000GT	103	237.4	18.2	59.9	0.4	28400
Renk	RK675DGVT2P	103	236.8	17.3	58.5	0.0	25400
Wensman	W9325STXRIB	102	232.5	18.9	58.5	0.0	25600
Miller Hybrids	RX02-46VT2P	102	227.2	17.2	56.3	0.0	25500
Hoegemeyer	HPT 7333 AMXT	103	226.6	17.2	59.0	0.0	22900
<b>Trial Average</b>			255.9	17.7	58.9	0.1	27400
<b>LSD (0.05)†</b>			14.6	0.8	1.1	0.8	1100
<b>C.V.‡</b>			4.1	3.2	1.3	-	2.9

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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