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2001 Crop Performance Trials: Corn

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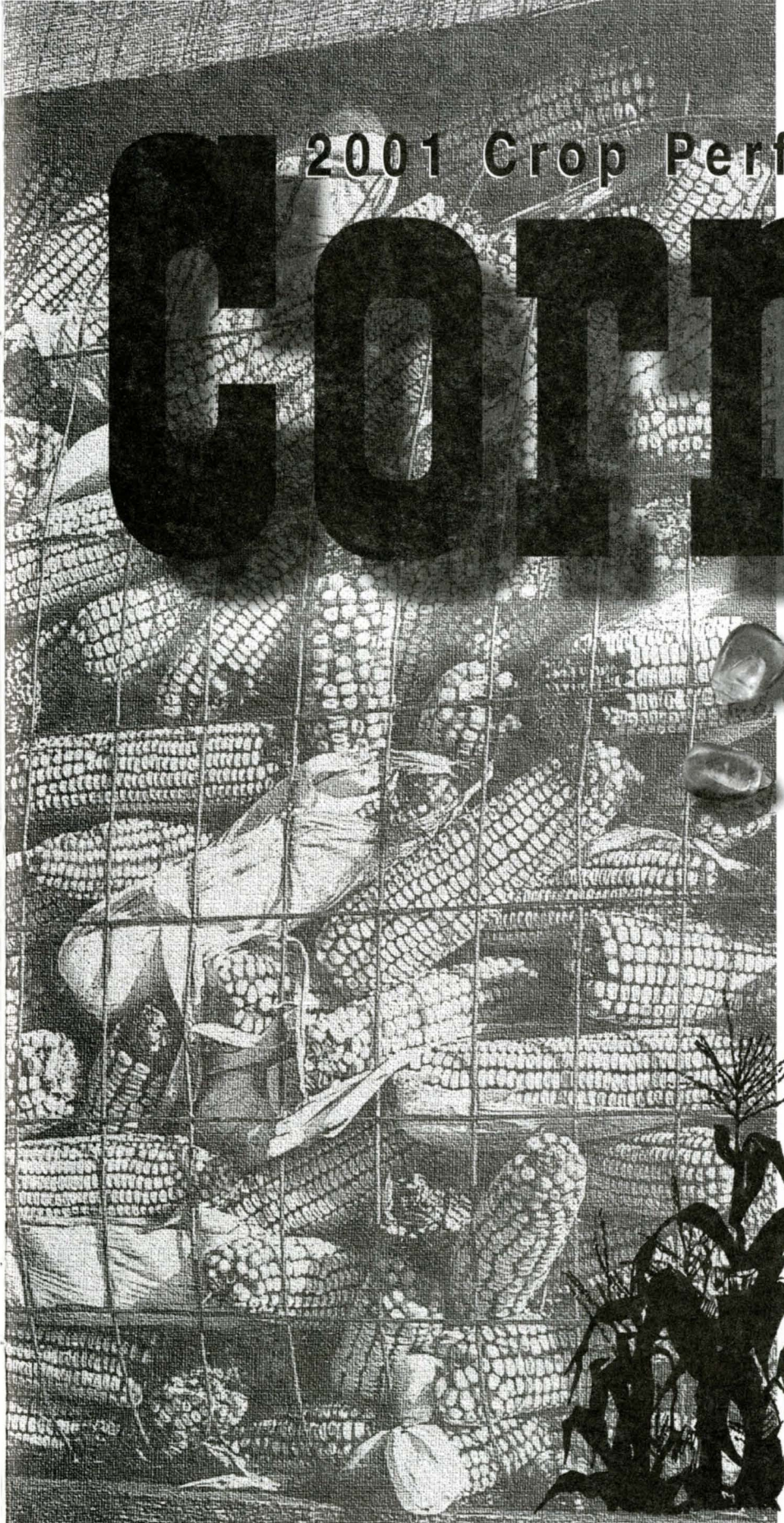

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Tables, 2001 corn performance trials

Conventional hybrid trial results

Roundup Ready* hybrid trial results

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2001 Corn Performance Trials

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Entries and their yield table locations are reported in Tables D and E.

This publication reports the performance of entries in the2001 South Dakota corn hybrid performance trials and includes both conventional (non-Roundup-Ready) and Roundup-Ready hybrids. Bushels per acre (bu/a) are given for both 2000-01 and 2001 grain yields; and test weight, moisture percentages of shelled corn at harvest, and stalk lodge percentages are presented for 2001. 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 given in Table A; plant populations and seeding and harvest dates are shown in Table B. Seeding started May 2 and was completed May 15.

Weather and Climatic Conditions

Climatic data (Table C) for this year's growing season, April-September, were obtained from the South Dakota Automatic Weather Data Network. Growing degree day (GDD) information for Frankfort was obtained from Huron. The remaining climatic reporting stations are located at or near their respective test trial sites.

Monthly precipitation accumulations appeared above average for all locations through June. In August and September precipitation accumulations at Centerville and Watertown dropped to near normal levels. Precipitation accumulations stayed well above normal at Armour and Huron. At Brookings precipitation accumulations in August and September dropped below normal levels.

The highest accumulation of recorded seasonal precipitation was at Armour with 23.69 inches, which was 6.63 inches above average. Lowest moisture accumulations were at Brookings with 17.26 and Watertown with 17.62 inches. Seasonal moisture at Brookings was 0.85 inches below average while at Watertown it was 1.14 inches above average.

Precipitation may differ between a given test site and its respective climatic recording station.

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).

Heat unit totals across test locations varied from a high of 3174 GDD at Armour to a low of 2536 GDD at Brookings. The GGD seasonal accumulations were above average at all locations. The only deviation below average was at Watertown for the June accumulation; however, above-average accumulations from August to September resulted in above-average seasonal GDD accumulation.

In summary, moisture totals and distribution in 2001 affected Brookings and Watertown sites the most; at other locations moisture totals and distributions had less effect on trials results. 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: CPT technician Kyle Kepner at Brookings, Jim Smolik and Allen Heuer at the NE Research Farm, Todd Bortnem and the Brookings Agronomy Farm staff, Bob Berg and the SE Research Farm staff, and farmer-cooperators Robert Clark (Armour) and Steve Masat (Frankfort).

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:

95 days for Watertown,
100 days for Frankfort 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 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.

NOTE: The Roundup Ready early and late maturity trials at Beresford were combined into a single test trial. This was necessary because there were too few entries to warrant two test trials.

A fee was charged for all entries at each location. A list of participating seed companies for 2001 is presented in Table F.

Experimental Procedures

Entries were seeded in three replications with each hybrid randomly located within a replication. Plots consisted of two 30-inch rows, 20 feet long. A 31-cell cone drill seeder was used for all plots. Cone units were mounted above commercial maxi-merge units. Seeding rate was 15% more than the desired number of plants harvested per plot. Plots were later thinned to a desired test population. In 2001 all test plots were thinned to a final test population of 27,878 plants per acre.

Soil type, land preparation, and previous crop at each test site are given 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 T-banded at label rates for corn rootworm control this year.

The experimental procedures described above apply both to the conventional 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). The first application when weeds were 2-4 inches tall was followed by a second application when weed growth was again 2-4 inches tall. In non-Roundup Ready test trials, pre-emergence herbicides consisted of Lasso/Bladex at Watertown and Brookings, Balance at Frankfort, Round-Up (burn down) and pre- emergence Lasso at Armour, and Dual at Beresford. All herbicides 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 (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 2001, 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 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.

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 a prime concern 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.

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 "nonsignificant" (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 Watertown (Table 1) the highest current-year yield was 160 bu/a for Dahlco DS X-9963. To determine whether it is the only top yielding hybrid at Watertown, use the LSD value of 17 bu/a at the bottom of the 2001 yield column. For hybrids to be in the top-yield group they must yield 143 bu/a (160 - 17 = 143) or higher.

Technically, a yield of 144 bu/a would be in the top-yield group while a yield of 143 bu/a would not be in the top-yield group. However, since all yields and LSD values are rounded to the nearest whole number, we can say that 143 bu/a, because of the rounding-off, is the more appropriate minimum value for top-yield hybrids at the "early" maturity test at Watertown in 2001. This value is indicated as the minimum top-group value at the bottom of the 2001 yield column. In addition, the minimum top-group value is indicated for the 2-year (2000-01) average unless there were no significant yield differences.

Top-yield hybrids for 2001 are those hybrids that are equal or higher than the minimim top-group value indicated at the bottom of the 2001 yield column.

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 also can be determined.

For example, at Watertown, the minimum bushel weight value to qualify for the top group was 58 lb. Bushel weights of 58 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 exceed a certain value while grain moisture, green snap, and lodging below ear percentages must be equal to or less than certain values to qualify for the top group, depending on the performance factor being considered.

At Watertown (Table 1), current-year yields must equal 143 bu/a or higher, bushel weight must equal 58 lb or higher, grain moisture must be 15% or lower, green snap must equal 0%, and stalk lodging below the ear must equal 1% or lower to be in the top group for these performance factors in Table 1.

In addition to identifying the top-yield group, LSD values can be used to determine whether two hybrids differ in performance. For example, in the early test at Watertown, the LSD value of 17 bu/a can be used to compare the yields of any two hybrids in the early maturity trial. If hybrid A yields 160 bu/a and hybrid B yields 145 bu/a their yield difference is 15 bu/a (160 - 145 = 15). In this case the two hybrids do not differ in yield because their yield difference of 15 bu/a is less than the reported LSD value of 17 bu/a.

In contrast, if hybrid C yields 142 bu/a the yield difference between hybrid A and hybrid C would be 18 bu/a (160 - 142 = 18). In this case the yield difference of 18 bu/a is more than the reported LSD value of 17 bu/a and therefore 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.

Performance Trial Results: Conventional Hybrids

The performance trial results for 2 years (2000-01) and one year (2001) are summarized below.

Note: Green snap percentage differences among hybrids was nonsignificant (NS) at all locations in 2001.

WATERTOWN (NE Research Farm):

Early Maturity Trial (Table 1), 34 hybrid entries.
The 2-year yield average was 135 bu/a; but differences among hybrids could not be determined because the relative yield ranking in 2000 was much different from the ranking in 2001. The 2001 average was 139 bu/a, hybrids had to average 143 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 17 bu/a to be significantly different in yield. In addition, bushel weight had to equal 58 lb or higher (13 hybrids), grain moisture had to equal 15% or less (23 hybrids), and stalk lodging below the ear had to equal 1% or less (31 hybrids) to be in the top group for these factors.

Late Maturity Trial (Table 2), 52 hybrid entries.
The 2-year average was 122 bu/a, hybrids had to average

120 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 16 bu/a to be significantly different in yield. The 2001 average was 120 bu/a, hybrids had to average 131 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 14 bu/a to be significantly different in yield. In addition, bushel weight had to equal 57 lb or higher (12 hybrids) and grain moisture had to equal 14% or less (18 hybrids) to be in the top group for these factors. Stalk lodging was non-significant.

FRANKFORT, NO-TILL TRIAL (Steve Masat Farm):

Early Maturity Trial (Table 3), 38 hybrid entries.
The 2-year average was 162 bu/a, hybrids had to average 160 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 21 bu/a to be significantly different in yield. The 2001 average was 157 bu/a, hybrids had to average 164 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 13 bu/a to be significantly different in yield. In addition, bushel weight had to equal 61 lb or higher (6 hybrids) and grain moisture had to equal 16% or less (11 hybrids) to be in the top group for these factors. Stalk lodging was non-significant.

Late Maturity Trial (Table 4), 32 hybrid entries.
The 2-year average was 164 bu/a and hybrid yield differences were not significant. Therefore, all 8 entries were in the top-yield group. The 2001 average was 161 bu/a, hybrids had to average 159 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 17 bu/a to be significantly different in yield. In addition, bushel weight had to equal 57 lb or higher (15 hybrids) and grain moisture had to equal 18% or less (7 hybrids) to be in the top group for these factors. Stalk lodging was nonsignificant.

BROOKINGS (SDSU Agronomy Farm):

Early Maturity Trial (Table 5), 56 hybrid entries.
The 2-year average was 181 bu/a, hybrids had to average 183 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 16 bu/a to be significantly different in yield. The 2001 average was 177 bu/a, hybrids had to average 192 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 13 bu/a to be significantly different in yield. In addition, bushel weight had to equal 60 lb or higher (13 hybrids) and grain moisture had to equal 15% or less (34 hybrids) to be in the top group for these factors. Stalk lodging was non-significant.

Late Maturity Trial (Table 6), 42 hybrid entries.
The 2-year average was 184 bu/a, hybrids had to average 184 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 9 bu/a to be significantly different in yield. The 2001 average was 179 bu/a, hybrids had to average 187 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 13 bu/a to be significantly different in yield. In addition, bushel weight had to equal 59 lb or higher (14 hybrids), grain moisture had to equal 16% or less (22 hybrids), and stalk lodging below the ear had to equal 2% or less (40 hybrids) to be in the top group for these factors.

ARMOUR, NO-TILL TRIAL (Robert Clark Farm):

Early Maturity Trial (Table 7), 52 hybrid entries.
The 2-year average was 165 bu/a, and hybrid yield differences were not significant. Therefore, all 9 entries were in the top-yield group. The 2001 average was 180 bu/a, hybrids had to average 190 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 17 bu/a to be significantly different in yield. In addition, bushel weight had to equal 60 lb or higher (15 hybrids) and grain moisture had to equal 17% or less (16 hybrids) to be in the top group for these factors. Stalk lodging was nonsignificant.

Late Maturity Trial (Table 8), 44 hybrid entries.
The 2-year yield average was 165 bu/a, but yield differences among hybrids could not be determined because the relative yield ranking for 2000 was much different from the ranking in 2001. The 2001 average was 174 bu/a, hybrids had to average 179 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 22 bu/a to be significantly different in yield. In addition, bushel weight had to equal 58 lb or higher (16 hybrids) and grain moisture had to equal 20% or less (23 hybrids) to be in the top group for these factors. Stalk lodging was nonsignificant.

BERESFORD (SE Resarch Farm):

Early Maturity Trial (Table 9), 76 hybrid entries.
The 2-year average was 172 bu/a, hybrids had to average 176 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 18 bu/a to be significantly different in yield. The 2001 average was 171 bu/a, hybrids had to average 173 bu/a or higher to be in the top-yield group, 34 hybrids qualified for the top-yield group, and hybrids had to differ by 16 bu/a to be significantly different in yield. In addition, bushel weight had to equal 60 lb or higher (64 hybrids), grain moisture had to equal 15% or less (51 hybrids), and stalk lodging below the ear had to equal 2% or less (37 hybrids) to be in the top group for these factors.

Late Maturity Trial (Table 10), 33 hybrid entries.
The 2-year average was 176 bu/a, but yield differences among the hybrids tested were not significant. Therefore, all 11 hybrids tested were in the top-yield group. The 2001 average was 168 bu/a, hybrids had to average 177 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 15 bu/a to be significantly different in yield. In addition, bushel weight had to equal 59 lb or higher (23 hybrids) and grain moisture had to equal 16% or less (19 hybrids) to be in the top group for these factors. Stalk lodging was non-significant.

Performance Trial Results: Roundup Ready Hybrids

Note: Green snap percentage differences among hybrids was nonsignificant (NS) at all locations in 2001.

FRANKFORT, NO-TILL TRIAL (Steve Masat Farm):

Early Maturity Trial (Table 11), 21 hybrid entries for this first year for test.
The 2001 average was 156 bu/a, hybrids had to average 156 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 18 bu/a to be significantly different in yield. In addition, bushel weight had to equal 55 lb or higher 19 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.

Late Maturity Trial (Table 12), 14 hybrid entries for the first year for this test.
The 2001 average was 155 bu/a, but yield differences among the hybrids were not significant. Therefore, all 14 hybrids were in the top-yield group. In addition, bushel weight had to equal 54 lb or higher (12 hybrids) and grain moisture had to equal 18% or less (4 hybrids) to be in the top group for these factors. Stalk lodging was nonsignificant.

BROOKINGS (SDSU Agronomy Farm):

Early Maturity Trial (Table 13), 25 hybrid entries.
The 2-year average was 168 bu/a, but yield differences among the hybrids tested were not significant. Therefore, all 8 hybrids tested were in the top-yield group. The 2001 average was 169 bu/a, hybrids had to average 178 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 21 bu/a to be significantly different in yield. In addition, bushel weight had to equal 56 lb or higher (25 hybrids), grain moisture had to equal 15% or less (15 hybrids), and stalk lodging below the ear had to equal 1% or less (22 hybrids) to be in the top group for these factors.

Late Maturity Trial (Table 14), 16 hybrid entries.
The 2-year average was 173 bu/a, but yield differences among the hybrids were not significant. Therefore, both hybrids tested are in the top-yield group. The 2001 average was 175 bu/a, hybrids had to average 181 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 18 bu/a to be significantly different in yield. In addition, bushel weight had to equal 56 lb or higher (10 hybrids) and grain moisture had to equal 15% or less (7 hybrids) to be in the top group for these factors. Stalk lodging was nonsignificant.

ARMOUR, NO-TILL TRIAL (Robert Clark Farm):

Early Maturity Trial (Table 15), 19 hybrid entries for the first year for this test.
The 2001 average was 156 bu/a, hybrids had to average 157 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 19 bu/a to be significantly different in yield. In addition, bushel weight had to equal 58 lb or higher (15 hybrids) and grain moisture had to equal 14% or less (13 hybrids) to be in the top group for these factors. Stalk lodging was nonsignificant.

Late Maturity Trial (Table 16), 13 hybrid entries for the first year for this test.
The 2001 average was 147 bu/a, hybrids had to average 150 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 19 bu/a to be significantly different in yield. In addition, bushel weight had to equal 58 lb or higher (8 hybrids) and grain moisture had to equal 15% or less (5 hybrids) to be in the top group for these factors. Stalk lodging was nonsignificant.

BERESFORD (SE Research Farm): Note – both maturity trials were combined into a single trial.

Combined Maturity Trial (Table 17), 26 hybrid entries.
The 2-year average yield was 167 bu/a, but yield differences among the hybrids were not significant. Therefore, all 6 hybrids are in the top-yield group. The 2001 average was 169 bu/a, hybrids had to average 175 bu/a or higher to be in the top-yield group, 12 hybrids qualified for the top-yield group, and hybrids had to differ by 16 bu/a to be significantly different in yield. In, bushel weight had to equal 58 lb or higher (15 hybrids), grain moisture had to equal 14% or less (5 hybrids), and stalk lodging below the ear had to equal 3% or less (22 hybrids) to be in the top group for these factors.

Table A. Soil classification and land preparation.

Location	Soil type	Seedbed, previous crop
Brookings	Brandt sil. cl.	conventional, spring wheat
Watertown	Brookings silty clay loam	conventional, oat
Frankfort	Beotia silt loam	no-till, soybean stubble
Beresford	Trent silty loam	conventional, soybean
Armour	Eakin-Ethan complex	no-till, soybean stubble

Table B. Year 2001 trial cooperators, locations, test populations, and seeding and harvest dates.

Cooperators	Location	Test* population (plants/acre)	Date Seeded	Date Harvested
Robert Clark	Armour	27,878	May 15	Oct. 26
SE Research Farm	Beresford	27,878	May 9	Oct. 30
SDSU Agronomy Farm	Brookings	27,878	May 4	Oct. 23
NE Research Farm	Watertown	27,878	May 2	Oct. 18
Steve Masat	Frankfort	27,878	May 11	Oct. 19

* Plots were thinned to this population following emergence.

Table C. Nearest weather station precipitation and growing degree day (GDD) accumulation for 2001 and their departures from normal (DFN). Source: USDA-SD-Crop-Weather report.

Station	Variable		29-Apr	27-May	24-Jun	29-Jul	26-Aug
Armour Airport	Precip.- in.	'01	6.21	8.69	12.75	18.69	19.56
		DFN*	3.96	3.65	4.12	6.33	5.23
	GDD's	'01	101	445	916	1868	2612
		DFN	15	83	34	99	164
Brookings 2NE	Precip.- in.	'01	5.58	7.79	11.3	14.07	14.7
		DFN	3.59	3.28	2.81	1.59	-0.31
	GDD's	'01	59	301	671	1508	2129
		DFN	23	91	62	188	282
Center- ville 6SE	Precip.- in.	'01	4.82	8.03	10.78	14.77	16.5
		DFN	2.64	2.84	1.66	1.66	0.72
	GDD's	'01	97	404	874	1763	2410
		DFN	31	86	61	131	174
Huron Airport	Precip.- in.	'01	6.27	8.68	13.82	16.44	17.52
		DFN	5.07	4.14	6.16	5.6	4.87
	GDD's	'01	91	388	815	1762	2482
		DFN	32	117	86	198	281
Watertown Airport	Precip.- in.	'01	5.94	8.29	11.3	14.15	15.24
		DFN	3.84	3.52	3.24	2.54	1.13
	GDD's	'01	70	309	670	1540	2194
		DFN	28	66	-5	96	159

*DFN - Departure from normal - how much a variable for year 2001 is greater or less than a long-term average.

Table D. 2001 corn performance trials—conventional non-Roundup Ready entries by brand/hybrid and yield table number(s).

No.	Brand / Hybrid	Table No.	No.	Brand / Hybrid	Table No.
1	DEKALB/DKC42-22	1	51	WILSON/1671CL	10
2	DEKALB/DKC39-45	1	52	WILSON/1752	10
3	DEKALB/DKC44-42	1,3,5	53	TOP FARM/TFSX 2201	2,3,5
4	DEKALB/DKC46-26	2,3,5	54	TOP FARM/TFSX 105BT	4,6
5	DEKALB/DKC48-83	5	55	TOP FARM/TFSX 2295	1,3,5
6	DEKALB/DKC53-32	4,6,7	56	TOP FARM/TFSX 2299	2,3,5
7	DEKALB/DKC57-38	4	57	TOP FARM/TFSX 2203	4,6
8	DEKALB/DKC48-15	2,3,5,7	58	TOP FARM/TFSX 2390	1
9	DEKALB/DKC50-72	2,3,5,7	59	TOP FARM/TFSX 2297	2,3,5
10	DEKALB/DKC51-88	2,4,6,7	60	TOP FARM/TFSX 2301	2,3,5
11	DEKALB/DKC57-72	9	61	TOP FARM/TFSX 2300	2,4,6
12	DEKALB/DKC60-15	8,9	62	KAYSTAR/KX-622	3,5
13	DEKALB/DKC60-08	9	63	KAYSTAR/KX-630	4,6,7
14	DEKALB/DKC63-03	10	64	KAYSTAR/KX-665	6,9
15	DAIRYLAND/STEALTH-1507	9	65	KAYSTAR/X1921	1
16	DAIRYLAND/STEALTH-1606	7	66	KAYSTAR/X1961	2,5
17	DAIRYLAND/STEALTH-1609	9	67	KAYSTAR/KX-898	10
18	DAIRYLAND/STEALTH-1592	1	68	KAYSTAR/X1131	8
19	DAIRYLAND/STEALTH-1598	2	69	KAYSTAR/X0941	1,5
20	DAIRYLAND/STEALTH-1401BT	4	70	KALTENBERG/K4707	5
21	DAIRYLAND/STEALTH-1089BT	1	71	KALTENBERG/K5123	6,7
22	DAIRYLAND/STEALTH-1611	9	72	KALTENBERG/K5151BT	6,7
23	DAIRYLAND/STEALTH-1605	7	73	KALTENBERG/K4664	5
24	DAIRYLAND/STEALTH-1607	9	74	KALTENBERG/K6396	8,9
25	SANDS/SOI 9027	6,7	75	KALTENBERG/K6789	8,9
26	SANDS/SOI 9102	8,9	76	KALTENBERG/K7202CL	10
27	SANDS/SOI 9082	8,9	77	KALTENBERG/K7337	10
28	SANDS/SOI 9041	9	78	LG SEEDS/LG 2533	6,7
29	SANDS/EXP 996-1	5	79	LG SEEDS/LG 2488	2,3
30	SANDS/EXP 901-03	6,7	80	LG SEEDS/LG 2474	1,5
31	ASGROW/RX452YG	3,5	81	KRUGER/EX-96	1
32	ASGROW/RX634	4,8	82	KRUGER/K-9002BT	3,5
33	ASGROW/RX730YG	10	83	KRUGER/K-9903BT	2,5
34	ASGROW/RX708	9	84	KRUGER/K-9910BT	8
35	GARST/8464IT	8,10	85	KRUGER/K-9008	4
36	GARST/8590IT	7,9	86	KRUGER/K-9010BT/CL	8,9
37	GARST/8801IT	1,3,5	87	KRUGER/K-9014BT	10
38	GARST/N9946	1	88	KRUGER/K-9802BT	2
39	GARST/8779	2,3,5	89	KRUGER/K-9002+	3
40	GARST/N9708	2	90	KRUGER/K-9104	4
41	GARST/8720	4,6,7	91	KRUGER/K-9106BT	4,6,7
42	GARST/8686IT	4,6	92	KRUGER/K-9108+BT	6,7
43	GARST/N9513	9	93	KRUGER/K-9108	6,7
44	GARST/N8577IT	9	94	KRUGER/K-9111	9
45	GARST/8327IT	8,10	95	KRUGER/K-9011	9
46	GARST/8301	10	96	KRUGER/K-9013	8,9
47	WILSON/1475PT	8,9	97	KRUGER/K-9914	8
48	WILSON/1364	7,9	98	KRUGER/K-9013+BT	8,9
49	WILSON/1458	8,9	99	KRUGER/K-9114	8,10
50	WILSON/1563	8,9	100	KRUGER/EX-092BT	1

Table D (continued).

No.	Brand / Hybrid	Table No.	No.	Brand / Hybrid	Table No.
101	KRUGER/K-9201	2,3,5	151	MIDWEST/G 6966 B	2,5
102	KRUGER/K-9203	2,3	152	MIDWEST/G 6961	1,5
103	KRUGER/K-9203A	2,3,5	153	MIDWEST/G 7101 B	2,5
104	KRUGER/EX-203-1	2,3,5	154	MIDWEST/G 7706	6,9
105	KRUGER/K-9204	3	155	EPLEY/E1160	2,5
106	KRUGER/K-9104BT	2,3,5,7	156	EPLEY/E3620	8,10
107	KRUGER/K-9204BT	2,3,5,7	157	EPLEY/E1470BT	2,6,7
108	KRUGER/K-9206	2,4,6,7	158	EPLEY/E3610BT	8,10
109	KRUGER/K-9208A	4,6,7	159	EPLEY/E1027	1,5
110	KRUGER/K-9208	4,6,7	160	EPLEY/E2433	6,8,9
111	KRUGER/K-9210	8,9	161	EPLEY/E1170	2,5
112	KRUGER/K-9211BT	8,9	162	EPLEY/E1493	2,6,7,9
113	KRUGER/K-9211A	8,9	163	EPLEY/E1579	6,7,9
114	KRUGER/K-9012BT	8,9	164	EPLEY/E2470	6,8,9
115	KRUGER/EX-214-1	10	165	EPLEY/E3223	8,10
116	KRUGER/K-9014+BT	8,10	166	EPLEY/E3630BT	8,10
117	KRUGER/K-9114BT	10	167	MUSTANG/3090	1,5
118	JACOBSEN/JS56	10	168	MUSTANG/402	1,3,5
119	JACOBSEN/JS4246	4,6,7	169	MUSTANG/5103BT	4,6,7
120	JACOBSEN/JS4785BT	8,9	170	MUSTANG/7105BT	7,9
121	JACOBSEN/JS4341	7,9	171	MUSTANG/3103BT	1,5
122	JACOBSEN/JS4637	8,9	172	MUSTANG/4747	2,3,5
123	JACOBSEN/JS4632	8,9	173	MUSTANG/5151	2,3,5,7,9
124	JACOBSEN/JS4583BT	8,9	174	MUSTANG/5252	3,5,7
125	JACOBSEN/JS4225BT	4,6,7	175	MUSTANG/7108BT	8,9
126	JACOBSEN/JS4167	3,5,7	176	MUSTANG/7710	9
127	JACOBSEN/JS4345	8,9	177	MYCOGEN/2395	1
128	JACOBSEN/JS4543	8,9	178	MYCOGEN/2525	2
129	JACOBSEN/JS4487	8,9	179	MYCOGEN/2652	4,6
130	CROWS/171	1	180	MYCOGEN/2720 BT	1
131	CROWS/217 B	2,5	181	MYCOGEN/2545 IMI	2,4,6
132	CROWS/438 B	8	182	MYCOGEN/4521 BT	2
133	CROWS/3520 B	8,9	183	MYCOGEN/3631IMI	2
134	CROWS/4908	9	184	MYCOGEN/3611	2
135	NC+/1320	1	185	MYCOGEN/5351LL	4,6
136	NC+/1551B	2,3	186	MYCOGEN/4321 BT	4,6
137	NC+/2471C	4	187	WENSMAN/MAX 007	1
138	NC+/3361	7	188	WENSMAN/MAX 127	1,3,5
139	NC+/3448	7	189	WENSMAN/W 5258 BT	1
140	NC+/4771	10	190	WENSMAN/W 4152	1
141	NC+/5169	10	191	WENSMAN/W 4164	1,5
142	HOEGEMEYER/2649	10	192	WENSMAN/W 4212	1,3,5
143	FILLER/HOEG. 598CL	2	193	WENSMAN/W 4284	2,3,5,7,9
144	HOEGEMEYER/2601	8,9	194	WENSMAN/W 4314	2,4,6,7,9
145	HOEGEMEYER/2666	8,10	195	WENSMAN/W 4362	4,6,7,9
146	HOEGEMEYER/2590	2,7	196	WENSMAN/W 4388	2,4,6,7,9
147	HOEGEMEYER/598CL	2,7	197	WENSMAN/W 4418	4,6,7,9
148	HOEGEMEYER/HBT619	7,9	198	WENSMAN/W 4424	6,8,9
149	HOEGEMEYER/GLL418	9	199	US SEEDS/US C969	2
150	HOEGEMEYER/CK044	10	200	US SEEDS/US C1059	7

Table D (continued).

No.	Brand / Hybrid	Table No.	No.	Brand / Hybrid	Table No.
201	US SEEDS/US C1029BT	6	227	DAHLCO/DS 2286	1,5
202	US SEEDS/US C971CL	2,3	228	DAHLCO/DS 2335	5
203	US SEEDS/US E1002	3	229	DAHLCO/DS X-9963	1,5
204	US SEEDS/US C1111	10	230	DAHLCO/DS 2502	5
205	SEEDS 2000/2981	2,3,5	231	DAHLCO/DS X-0031	4,6,9
206	SEEDS 2000/EX2953	2,5	232	DAHLCO/DS X-0012	7,9
207	SEEDS 2000/EX3132	4,6	233	GOLD COUNTRY/9803	2,3
208	SEEDS 2000/EX3152ND	6	234	GOLD COUNTRY/X49896	2
209	HEINE/H840	10	235	GOLD COUNTRY/X60094	1
210	HEINE/H825	10	236	GOLD COUNTRY/X60000	3,5
211	HEINE/H821	9	237	GOLD COUNTRY/X20200CL	7
212	HEINE/H765	9	238	GOLD COUNTRY/X10008	8,9
213	HEINE/H775	9	239	GOLD COUNTRY/X10010BT	9
214	HEINE/H860	10	240	GOLD COUNTRY/X69804ABT	4
215	HEINE/H857	10	241	PFISTER/1532	2,5,7
216	HEINE/H844	10	242	PFISTER/1680	2,5,9
217	HEINE/H848	10	243	PFISTER/2656	9
218	HEINE/H831	10	244	PFISTER/2024	9
219	HEINE/H745	9	245	KAUP/KS 97-1101	9
220	FILLER/	10	246	KAUP/KS 97-108CL	8,9
221	HEINE/H788	9	247	KAUP/KS 97-109BT	9
222	HEINE/H785	9	248	KAUP/KS EX1052	7
223	HEINE/H780	9	249	KAUP/KS 97-104	7
224	DAHLCO/DS 2660	7,9	250	RAGT/PG005	1
225	DAHLCO/DS 2394	5	251	RAGT/PG006	2,3
226	DAHLCO/DS X-0851	1,5	252	DAIRYLAND/STEALTH-1503	7

Table E. 2001 corn performance trials—Roundup Ready entries by brand/hybrid and yield table number(s).

No.	Brand / Hybrid	Table No.	No.	Brand / Hybrid	Table No.
1	DEKALB/DKC39-47	11,13	37	EPLEY/E-3225RR	16
2	DEKALB/DKC42-70	11,13	38	MUSTANG/5002RR	11,13,15
3	DEKALB/DK440RR/BTY	11,13,15	39	MUSTANG/6005RR	15,17
4	DEKALB/DKC46-28	11,13,15	40	MUSTANG/4002RR	11,13
5	DEKALB/DKC53-33	12,14,15	41	MUSTANG/5903RRBT	12,14,15
6	DEKALB/DKC57-40	12,14,16,17	42	MUSTANG/6004RR	12,14,15
7	DEKALB/DKC60-17	16,17	43	MUSTANG/7909RRBT	16,17
8	SANDS/SOI 1010RR	13	44	US SEEDS/US C1091RR	17
9	SANDS/EXP 900-9RR	13	45	US SEEDS/US E1012RR	12,14
10	ASGROW/RX601RR/YG	12,14,15,17	46	US SEEDS/US E1052RR	15
11	ASGROW/RX730RR/YG	17	47	SEEDS 2000/EX3191RR	17
12	TOP FARM/TFSX 8103RR	11,13	48	SEEDS 2000/EX3112RR	14
13	TOP FARM/TFSX 8201RR	11,13	49	SEEDS 2000/3110RRBT	14
14	TOP FARM/TFSX 8196RR	11,13	50	SEEDS 2000/EX3171RR	16
15	TOP FARM/TFSX 8203RR	12,14,15	51	HEINE/H8250	17
16	KAYSTAR/KX-6200RR	13	52	HEINE/H8380	17
17	KAYSTAR/KX-6202RR	11,13	53	HEINE/H8490	17
18	KAYSTAR/KX-6260RR	12,14	54	DAHLCO/DS 2475RR	13
19	KAYSTAR/X1131R	17	55	DAHLCO/DS 2140RR	11,13
20	LG SEEDS/LG 2481RR	11	56	DAHLCO/DS X-0851RR	11,13
21	LG SEEDS/C 7753RR	16	57	DAHLCO/DS X-0911RR	13
22	KRUGER/K-9199RRBT	11	58	DAHLCO/DS X-0105RR	12,17
23	KRUGER/K-9102RR	11,13,15	59	DAHLCO/DS X-1001RR	13,17
24	KRUGER/EX-299-1RR	11	60	GOLD COUNTRY/9603RRBT	11,13
25	KRUGER/EX-201RR	11	61	GOLD COUNTRY/1020RRBT	12,14
26	KRUGER/EX-205RR	11,13,15	62	GOLD COUNTRY/X69904RRBT	15
27	KRUGER/K-9208RR	12,14,15,17	63	GOLD COUNTRY/X10011RR	16,17
28	KRUGER/K-9910RR	12,16,17	64	PFISTER/1553 RR	13,15
29	KRUGER/EX-212RR	12,14,16,17	65	PFISTER/1554 RR	13,15,17
30	KRUGER/K-9912+RR	17	66	PFISTER/2656 RR	17
31	JACOBSEN/J4256RR	14,15	67	CHANNEL/6959R	11
32	JACOBSEN/J4655RR	16,17	68	CHANNEL/6998R	13
33	JACOBSEN/J4753RR	17	69	CHANNEL/7341R	12,14,15
34	FONTANELLE/HC7735BT/RR	17	70	CHANNEL/7707R	16,17
35	EPLEY/E-1485RR	13,15	71	TRIUMPH/1120BTRR	16,17
36	EPLEY/E-3615RR	14,16	72	TRIUMPH/TRX1307RR	11

Table F. Seed company addresses and telephone numbers for 2001.

COMPANY NAME	ADDRESS	CITY AND STATE	ZIP	PHONE NUMBER
AgriPro/Garst Seed Co	1010 Christine Ave	Brookings SD	57006	605-692-7198
Channel Bio Corp	PO Box 157	Kentland IN	47951	219-474-6868
Crows Hybrid Corn Co	PO Box 157	Kentland IN	47951	800-331-7201
Dahlco Seeds	14730 15th St SW	Cokato MN	55321	320-286-5982
Dairyland Seed	PO Box 958	West Bend WI	53095-0958	262-338-0163
Domestic Seed & Supply	Box 466	Madison SD	57042	605-256-6529
Epley Brothers Hybrids Inc.	PO Box 310	Shell Rock IA	50670	319-885-6293
Fontanelle Hybrids	10981 8th St	Fontanelle NE	68044-2505	402-721-1410
Gold Country Seed Inc.	16506 Hwy 15 N Box 604	Hutchinson MN	55350-0604	800-795-8544
Heine Seeds	1020 E 320th St	Vermillion SD	57069	605-624-3414
Hoegemeyer Hybrids	1755 Hoegemeyer Rd	Hooper NE	68031	402-654-3399
Jacobsen Hybrid Corn Co Inc.	Box 379 129 9TH St	Lake View IA	51450-0379	800-761-1024
Kaltenberg Seeds	5506 State Hwy 19	Waunakee WI	53597-0278	608-849-5021
Kaup Seed	1101 S Beemer St	West Point NE	68788	402-372-5588
Kaystar Seed	PO Box 947	Huron SD	57350	605-352-8791
Kruger Seed Company	Hwy 20 E Box A	Dike IA	50624	319-989-2414
LG Seeds	1620 Hwy 10	Gibbon NE	68840	877-505-7313
Midwest Seed Genetics	PO Box 518	Carroll IA	51401	800-369-8218
Monsanto	3100 Sycamore Rd	Dekalb IL	60115	815-758-9323
Mycogen Seeds	205 S Oakridge Rd	Brandon SD	57005	605-582-7969
NC+ Hybrids	Box 4408	Lincoln NE	68504	402-467-2517
Pfister Hybrid Corn Co	187 N Fayette St	El Paso IL	61738	309-527-6000
R 2N - RAGT	Site De Bourran Ave St. Pierre	12033 Rodez Cedex 9 France		33-565.73.41.00
Sand Seed Service Inc	PO Box 648	Marcus IA	51035	712-376-4135
Seeds 2000 Inc	115 N 3rd ST PO Box 200	Breckenridge MN	56520	218-643-2410
Top Farm Hybrids	PO Box 850	Cokato MN	55321	320-286-5516
Triumph Seed Co Inc	PO Box 1050	Ralls TX	79357	800-530-4789
United Supliers Inc	PO Box 538	Eldora IA	50627	641-858-2341
Wensman Seed Co	PO Box 190	Wadena MN	56482	218-631-2854
Wilson Genetics, L.L.C.	PO Box 391	Harlan IA	51537	712-755-3841

Table 1. Watertown early corn hybrid results, 2000-2001. NE Research Farm, test relative maturity is 95-day or less.

Brand / Hybrid	Seed Company Relative Maturity	Yield - bu/a (15.5% mst.) 2-yr	2001	Bu. wt. lb	Grain mst. pct	Green snap pct	Lodged below ear pct
			2001				
		Entries tested two years					
KRUGER/EX-96	92	148	142	57	17	0	0
DEKALB/DKC42-22	92	142	156	59	16	0	2
TOP FARM/TFSX 2295	95	138	146	56	14	0	0
MUSTANG/3090	90	137	142	57	15	0	1
MUSTANG/402	95	137	147	58	16	0	0
EPLEY/E1027	87	136	148	59	14	0	0
GARST/8801IT	95	136	145	57	16	0	0
WENSMAN/MAX 007	93	132	131	58	16	0	0
WENSMAN/W 5258 BT	94	132	140	60	15	0	0
NC+/1320	95	131	142	57	14	0	2
DEKALB/DKC39-45	89	131	132	59	15	0	0
WENSMAN/MAX 127	95	123	122	60	16	0	0
		Entries tested one year					
DAHLCO/DS X-9963	95	.	160	57	18	0	1
MIDWEST/G 6961	95	.	156	58	17	0	2
DEKALB/DKC44-42	94	.	154	56	15	0	1
CROWS/171	95	.	154	57	15	0	1
WENSMAN/W 4212	95	.	149	57	18	0	0
KRUGER/EX-092BT	89	.	148	59	15	0	0
GOLD COUNTRY/X60094	94	.	141	57	17	0	0
RAGT/PG005	89	.	137	58	14	0	0
DAHLCO/DS 2286	83	.	136	58	14	0	0
GARST/N9946	89	.	135	56	15	0	0
WENSMAN/W 4152	90	.	135	59	15	0	0
WENSMAN/W 4164	93	.	135	59	15	0	1
DAIRYLAND/STEALTH-1089B	90	.	133	58	15	0	0
DAIRYLAND/STEALTH-1592	92	.	133	59	15	0	0
KAYSTAR/X0941	94	.	132	59	14	0	0
KAYSTAR/X1921	92	.	131	56	14	0	0
LG SEEDS/LG 2474	95	.	131	56	14	0	1
TOP FARM/TFSX 2390	90	.	130	57	14	0	0
DAHLCO/DS X-0851	85	.	130	59	15	0	0
MYCOGEN/2720 BT	91	.	129	60	15	0	0
MYCOGEN/2395	95	.	126	60	17	0	1
MUSTANG/3103BT	93	.	106	56	14	0	0
Test average:		135	139	58	15	0	0
LSD (5%) values:		NS**	17	2	1	NS	1
Top-group values*- Minimum:		.	143	58			
Maximum:					15	0	1
No. entries in top group:		.	11	13	23	34	31
Coef. of variation#:		8	7				

* Top group value- within one LSD value of the highest yield or bushel weight values or the lowest grain moisture, green snap or lodging percentage values.

** Ranking of hybrid yields in 2000 was so different from those in 2001 (a significant year effect) that two-year yield differences could not be detected (hybrid effect for two-year yields was not significant).

NS indicates values within a column are not significantly different.

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

Table 2. Watertown late corn hybrid results, 2000-2001. NE Research Farm, test relative maturity is 96-day or more.

Brand / Hybrid	Seed Company Relative Maturity	Yield - bu/a (15.5% mst.) 2-yr	2001	2001 Bu. wt. lb	2001 Grain mst. pct	2001 Green snap pct	2001 Lodged below ear pct
		Entries tested two years					
DEKALB/DKC46-26	96	136	132	58	16	0	0
US SEEDS/US C969	96	127	111	54	15	0	0
KRUGER/K-9903BT	99	126	127	57	14	0	0
MYCOGEN/2525	100	125	117	55	15	0	0
KRUGER/K-9802BT	99	124	121	56	19	0	0
US SEEDS/US C971CL	97	124	118	54	14	0	0
EPLEY/E1160	98	123	124	55	14	0	1
TOP FARM/TFSX 2201	100	119	110	55	14	0	0
LG SEEDS/LG 2488	99	119	114	57	15	0	0
EPLEY/E1470BT	102	115	112	55	18	0	0
SEEDS 2000/2981	98	113	114	53	14	0	1
TOP FARM/TFSX 2299	100	109	106	57	16	0	0
		Entries tested one year					
MYCOGEN/4521 BT	108	.	145	56	14	0	0
CROWS/217 B	100	.	137	56	14	0	0
DEKALB/DKC50-72	100	.	136	57	16	0	0
MYCOGEN/3611	100	.	134	55	15	0	0
DEKALB/DKC48-15	98	.	132	57	16	0	0
KRUGER/K-9203	100	.	132	53	14	0	0
SEEDS 2000/EX2953	99	.	131	56	16	0	0
WENSMAN/W 4314	102	.	131	54	14	0	1
MUSTANG/4747	97	.	131	54	15	0	0
GARST/8779	99	.	130	56	14	0	0
KRUGER/K-9201	98	.	129	56	14	0	1
MIDWEST/G 6966 B	96	.	129	55	16	0	0
KRUGER/K-9206	102	.	128	55	20	0	1
MIDWEST/G 7101 B	100	.	126	57	14	0	1
WENSMAN/W 4388	105	.	125	55	15	0	0
MYCOGEN/2545 IMI	101	.	125	56	17	0	0
NC+/1551B	98	.	124	54	14	0	1
GARST/N9708	100	.	124	53	14	0	0
GOLD COUNTRY/X49896	96	.	124	55	15	0	0
RAGT/PG006	98	.	124	57	18	0	1
KRUGER/K-9203A	100	.	124	55	18	0	0
DAIRYLAND/STEALTH-1598	98	.	120	55	14	0	0
EPLEY/E1493	103	.	118	55	20	0	0
EPLEY/E1170	96	.	117	56	14	0	0
KRUGER/K-9204BT	100	.	116	56	19	0	0
WENSMAN/W 4284	100	.	115	56	15	0	0
HOEGEMEYER/2590	96	.	114	55	16	0	0
DEKALB/DKC51-88	101	.	114	56	18	0	0
TOP FARM/TFSX 2297	97	.	113	55	15	0	0
GOLD COUNTRY/9803	98	.	113	57	17	0	1

Table 2 (continued).

Brand / Hybrid	Seed Company Relative Maturity	Yield - bu/a (15.5% mst.) 2-yr	Yield - bu/a (15.5% mst.) 2001	2001 Bu. wt. lb	2001 Grain mst. pct	2001 Green snap pct	2001 Lodged below ear pct
			Entries tested one year				
PFISTER/1532	98		112	57	16	0	0
TOP FARM/TFSX 2301	100		110	55	14	0	1
HOEGEMEYER/598CL	96		110	53	22	0	0
MUSTANG/5151	100		108	56	18	0	0
KAYSTAR/X1961	96		107	54	13	0	0
PFISTER/1680	99		107	56	17	0	0
MYCOGEN/3631IMI	101		106	58	16	0	0
TOP FARM/TFSX 2300	102		106	55	20	0	0
KRUGER/EX-203-1	100		105	56	16	0	0
KRUGER/K-9104BT	100		103	57	17	0	0
Test average:		122	120	55	16	0	0
LSD (5%) values:		16	14	1	1	NS	NS
Top-group values*- Minimum:		120	131	57			
Maximum:					14	0	1
No. entries in top group:		7	10	12	18	52	52
Coef. of variation#:		6	7				

* Top group value- within one LSD value of the highest yield or bushel weight values or the lowest grain moisture, green snap or lodging percentage values.
NS indicates values within a column are not significantly different.
Measure of experimental error: values less than 15% are desired.

Table 3. Frankfort no-till early corn hybrid results, 2000-2001. Steve Masat farm, test relative maturity is 100-day or less.

Brand / Hybrid	Seed Company Relative Maturity	Yield - bu/a (15.5% mst.) 2-yr	2001	2001 Bu. wt. lb	2001 Grain mst. pct	2001 Green snap pct	2001 Lodged below ear pct
		Entries tested two years					
KRUGER/K-9002BT	98	181	177	60	18	0	0
KRUGER/K-9002+	100	175	163	58	18	0	1
DEKALB/DKC44-42	94	174	168	59	16	0	0
ASGROW/RX452YG	99	166	163	61	20	0	0
DEKALB/DKC46-26	96	163	164	60	18	0	0
SEEDS 2000/2981	98	162	166	58	16	0	0
GARST/8801IT	95	157	161	59	18	0	0
US SEEDS/US C971CL	97	157	156	60	18	0	0
LG SEEDS/LG 2488	99	155	143	59	18	0	0
TOP FARM/TFSX 2299	100	151	135	62	18	0	1
WENSMAN/MAX 127	95	146	136	63	17	0	0
		Entries tested one year					
JACOBSEN/JS4167	100	.	174	57	17	0	0
KRUGER/K-9204BT	100	.	171	59	20	0	0
KRUGER/K-9201	98	.	170	60	16	0	0
KRUGER/K-9203	100	.	167	58	17	0	0
KRUGER/K-9204	100	.	165	59	20	0	0
WENSMAN/W 4212	95	.	163	58	18	0	0
KRUGER/K-9203A	100	.	163	58	19	0	1
TOP FARM/TFSX 2295	95	.	162	59	16	0	1
US SEEDS/US E1002	100	.	162	59	17	0	1
KRUGER/EX-203-1	100	.	162	60	18	0	0
DEKALB/DKC50-72	100	.	161	60	18	0	0
GARST/8779	99	.	160	59	17	0	0
TOP FARM/TFSX 2201	100	.	159	60	16	0	0
MUSTANG/5252	100	.	158	60	20	0	0
MUSTANG/402	95	.	157	59	15	0	0
DEKALB/DKC48-15	98	.	156	61	17	0	1
GOLD COUNTRY/X60000	100	.	156	58	18	0	1
GOLD COUNTRY/9803	98	.	153	61	19	0	0
NC+/1551B	98	.	153	58	16	0	0
TOP FARM/TFSX 2301	100	.	153	59	16	0	0

Table 3 (continued).

Brand / Hybrid	Seed Company Relative Maturity	Yield - bu/a (15.5% mst.) 2-yr	Yield - bu/a (15.5% mst.) 2001	2001 Bu. wt. lb	2001 Grain mst. pct	2001 Green snap pct	2001 Lodged below ear pct
KRUGER/K-9104BT	100	.	152	61	20	0	0
RAGT/PG006	98	.	152	58	18	0	1
KAYSTAR/KX-622	100	.	151	59	16	0	0
TOP FARM/TFSX 2297	97	.	146	58	16	0	0
MUSTANG/5151	100	.	142	59	19	0	0
MUSTANG/4747	97	.	139	58	16	0	0
WENSMAN/W 4284	100	.	134	57	18	0	0
Test average:		162	157	59	18	0	0
LSD (5%) values:		21	13	2	1	NS	NS
Top-group values*- Minimum:		160	164	61			
Maximum:					16	0	1
No. entries in top group:		6	9	6	11	38	38
Coef. of variation#:		7	5				

* Top group value- within one LSD value of the highest yield or bushel weight values or the lowest grain moisture, green snap or lodging percentage values.
NS indicates values within a column are not significantly different.
Measure of experimental error: values

Table 4. Frankfort no-till late corn hybrid results, 2000-2001. Steve Masat farm, test relative maturity is 101-day or more.

Brand / Hybrid	Seed Company Relative Maturity	Yield - bu/a (15.5% mst.) 2-yr	Yield - bu/a (15.5% mst.) 2001	2001 Bu. wt. lb	2001 Grain mst. pct	2001 Green snap pct	2001 Lodged below ear pct
			Entries tested two years				
TOP FARM/TFSX 105BT	104	174	173	58	20	0	0
KRUGER/K-9104	101	172	170	59	18	0	0
DEKALB/DKC57-38	107	168	166	57	19	0	1
KRUGER/K-9008	104	167	164	57	20	0	0
DEKALB/DKC53-32	103	167	176	56	19	0	0
ASGROW/RX634	107	157	167	58	19	0	0
KRUGER/K-9106BT	103	155	168	57	20	0	0
TOP FARM/TFSX 2203	103	151	162	55	16	0	0
			Entries tested one year				
JACOBSEN/JS4225BT	102	.	172	56	22	0	1
TOP FARM/TFSX 2300	102	.	170	57	20	0	0
MYCOGEN/2652	106	.	169	55	21	0	0
MYCOGEN/4321 BT	102	.	169	58	17	0	1
KRUGER/K-9206	102	.	167	57	21	0	1
DAIRYLAND/STEALTH-1401B	103	.	166	58	19	0	0
MUSTANG/5103BT	102	.	162	58	19	0	0
GARST/8686IT	105	.	162	57	22	0	1
GOLD COUNTRY/X69804ABT	102	.	161	59	18	0	0
WENSMAN/W 4362	104	.	161	55	20	0	0
WENSMAN/W 4388	105	.	159	56	19	0	0
JACOBSEN/JS4246	102	.	159	56	19	0	0
WENSMAN/W 4314	102	.	158	57	18	0	0
DEKALB/DKC51-88	101	.	158	59	20	0	0
WENSMAN/W 4418	105	.	158	56	23	0	0
KRUGER/K-9208	105	.	155	56	22	0	0
DAHLCO/DS X-0031	103	.	155	57	17	0	0
KRUGER/K-9208A	105	.	155	56	21	0	0
MYCOGEN/2545 IMI	101	.	153	58	19	0	0
MYCOGEN/5351LL	105	.	152	58	20	0	0
GARST/8720	102	.	151	58	19	0	0
KAYSTAR/KX-630	103	.	151	58	20	0	0
SEEDS 2000/EX3132	102	.	150	58	20	0	0
NC+/2471C	101	.	149	59	18	0	1
Test average:		164	161	57	19	0	0
LSD (5%) values:		NS	17	2	2	NS	NS
Top-group values*- Minimum:		151	159	57			
Maximum:					18	0	1
No. entries in top group:		8	20	15	7	32	32
Coef. of variation#:		7	7				

* Top group value- within one LSD value of the highest yield or bushel weight values or the lowest grain moisture, green snap or lodging percentage values.
NS indicates values within a column are not significantly different.
Measure of experimental error: values less than 15% are desired.

Table 5. Brookings early corn hybrid results, 2000-2001. SDSU Agronomy Farm, test relative maturity is 100-day or less.

Brand / Hybrid	Seed Company Relative Maturity	Yield - bu/a (15.5% mst.) 2-yr	Yield - bu/a (15.5% mst.) 2001	2001 Bu. wt. lb	2001 Grain mst. pct	2001 Green snap pct	2001 Lodged below ear pct
		Entries tested two years					
DEKALB/DKC44-42	94	199	205	58	15	0	0
DEKALB/DKC48-83	98	195	194	59	15	0	1
KRUGER/K-9903BT	99	193	190	59	16	0	1
TOP FARM/TFSX 2295	95	187	181	57	15	0	2
KRUGER/K-9002BT	98	186	183	60	16	0	0
WENSMAN/MAX 127	95	185	185	59	16	0	1
DEKALB/DKC46-26	96	183	177	60	16	0	3
KALTENBERG/K4707	96	180	172	58	15	0	1
ASGROW/RX452YG	99	180	180	61	17	0	2
MUSTANG/402	95	179	182	59	15	0	0
EPLEY/E1160	98	175	176	59	15	0	1
TOP FARM/TFSX 2201	100	173	164	60	15	0	2
TOP FARM/TFSX 2299	100	173	164	62	16	0	0
SEEDS 2000/2981	98	169	162	58	14	0	2
EPLEY/E1027	87	164	170	58	15	0	1
		Entries tested one year					
PFISTER/1680	99		201	58	17	0	2
MUSTANG/5252	100		200	60	18	0	0
DEKALB/DKC50-72	100		193	60	17	0	0
MIDWEST/G 7101 B	100		192	61	16	0	0
SEEDS 2000/EX2953	99		192	58	15	0	1
KALTENBERG/K4664	96		190	59	15	0	1
DAHLCO/DS 2502	100		189	59	18	0	0
DAHLCO/DS X-9963	95		189	58	15	0	0
GOLD COUNTRY/X60000	100		189	59	16	0	1
MIDWEST/G 6961	95		187	59	15	0	1
WENSMAN/W 4212	95		187	58	15	0	1
DEKALB/DKC48-15	98		186	59	15	0	1
JACOBSEN/JS4167	100		183	58	16	0	1
SANDS/EXP 996-1	96		182	59	15	0	1
MUSTANG/5151	100		182	60	16	0	0
MIDWEST/G 6966 B	96		181	60	16	0	1
DAHLCO/DS 2394	94		181	58	15	0	2
KRUGER/K-9104BT	100		179	61	19	0	1
PFISTER/1532	98		178	58	16	0	1
GARST/8801IT	95		176	59	16	0	0
KRUGER/K-9201	98		175	57	15	0	1
CROWS/217 B	100		174	59	15	0	0
WENSMAN/W 4284	100		173	60	17	0	1
KRUGER/K-9204BT	100		172	59	17	0	0
MUSTANG/4747	97		171	58	15	0	2
TOP FARM/TFSX 2297	97		171	58	15	0	0
MUSTANG/3090	90		170	57	15	0	0
LG SEEDS/LG 2474	95		170	57	14	0	2
GARST/8779	99		170	59	16	0	1
KRUGER/K-9203A	100		169	58	17	0	2

Table 5 (continued).

Brand / Hybrid	Seed Company Relative Maturity	Yield - bu/a (15.5% mst.) 2-yr	Yield - bu/a (15.5% mst.) 2001	2001 Bu. wt. lb	2001 Grain mst. pct	2001 Green snap pct	2001 Lodged below ear pct
			Entries tested one year				
KRUGER/EX-203-1	100	.	169	59	15	0	1
TOP FARM/TFSX 2301	100	.	169	59	15	0	1
WENSMAN/W 4164	93	.	168	58	15	0	1
DAHLCO/DS X-0851	85	.	163	61	15	0	1
EPLEY/E1170	96	.	162	57	15	0	1
DAHLCO/DS 2335	90	.	160	57	14	0	1
KAYSTAR/KX-622	100	.	159	58	15	0	0
MUSTANG/3103BT	93	.	156	59	15	0	0
KAYSTAR/X1961	96	.	153	57	14	0	1
KAYSTAR/X0941	94	.	152	58	14	0	1
DAHLCO/DS 2286	83	.	148	59	15	0	1
Test average:		181	177	59	15	0	1
LSD (5%) values:		16	13	2	1	NS	NS
Top-group values*- Minimum:		183	192	60			
Maximum:					15	0	3
No. entries in top group:		7	7	13	34	56	56
Coef. of variation#:		4	4				

* Top group value- within one LSD value of the highest yield or bushel weight values or the lowest grain moisture, green snap or lodging percentage values.
NS indicates values within a column are not significantly different.
Measure of experimental error: values less than 15% are desired.

Table 6. Brookings late corn hybrid results, 2000-2001. SDSU Agronomy Farm, test relative maturity is 101-day or more.

Brand / Hybrid	Seed Company Relative Maturity	Yield - bu/a (15.5% mst.) 2-yr	Yield - bu/a (15.5% mst.) 2001	2001 Bu. wt. lb	2001 Grain mst. pct	2001 Green snap pct	2001 Lodged below ear pct
			Entries tested two years				
MYCOGEN/2652	106	193	182	58	16	0	3
TOP FARM/TFSX 105BT	104	192	186	61	17	0	0
US SEEDS/US C1029BT	102	190	183	61	16	0	0
KRUGER/K-9108+BT	105	190	190	60	17	0	0
EPLEY/E2433	108	189	183	58	16	0	1
KRUGER/K-9106BT	103	188	183	59	16	0	1
KRUGER/K-9108	105	186	179	58	16	0	0
KALTENBERG/K5151BT	102	185	176	59	16	0	1
EPLEY/E1470BT	102	179	170	59	18	0	1
MUSTANG/5103BT	102	178	175	60	17	0	0
KALTENBERG/K5123	102	177	170	58	16	0	0
TOP FARM/TFSX 2203	103	166	162	58	15	0	2
			Entries tested one year				
MIDWEST/G 7706	110	.	200	58	17	0	2
LG SEEDS/LG 2533	105	.	199	59	18	0	0
WENSMAN/W 4418	105	.	194	58	18	0	0
KRUGER/K-9208A	105	.	190	58	18	0	0
KAYSTAR/KX-665	105	.	190	60	17	0	1
DEKALB/DKC53-32	103	.	189	57	16	0	1
EPLEY/E2470	110	.	186	58	15	0	1
WENSMAN/W 4314	102	.	186	59	15	0	0
JACOBSEN/JS4225BT	102	.	185	60	17	0	0
SANDS/EXP 901-03	102	.	183	58	15	0	0
KAYSTAR/KX-630	103	.	182	60	18	0	0
EPLEY/E1493	103	.	180	60	17	0	0
MYCOGEN/4321 BT	102	.	179	60	16	0	0
WENSMAN/W 4424	107	.	179	58	16	0	1
TOP FARM/TFSX 2300	102	.	179	59	18	0	1
GARST/8686IT	105	.	179	61	20	0	0
KRUGER/K-9206	102	.	178	59	17	0	1
MYCOGEN/5351LL	105	.	176	59	17	0	1
KRUGER/K-9208	105	.	175	59	16	0	1
SANDS/SOI 9027	102	.	174	60	16	0	0
SEEDS 2000/EX3152ND	105	.	174	61	16	0	8
JACOBSEN/JS4246	102	.	174	58	17	0	1
WENSMAN/W 4362	104	.	174	58	17	0	0
WENSMAN/W 4388	105	.	173	57	16	0	1
GARST/8720	102	.	173	60	18	0	0

Table 6 (continued).

Brand / Hybrid	Seed Company Relative Maturity	Yield - bu/a (15.5% mst.) 2-yr	Yield - bu/a (15.5% mst.) 2001	2001 Bu. wt. lb	2001 Grain mst. pct	2001 Green snap pct	2001 Lodged below ear pct
MYCOGEN/2545 IMI	101	.	170	59	16	0	0
DEKALB/DKC51-88	101	.	170	59	16	0	1
SEEDS 2000/EX3132	102	.	169	60	17	0	0
EPLEY/E1579	105	.	167	57	15	0	1
DAHLCO/DS X-0031	103	.	166	58	16	0	1
Test average:		184	179	59	17	0	1
LSD (5%) values:		9	13	2	1	NS	2
Top-group values*- Minimum:		184	187	59			
Maximum:					16	0	2
No. entries in top group:		8	7	14	22	42	40
Coef. of variation#:		4	4				

* Top group value- within one LSD value of the highest yield or bushel weight values or the lowest grain moisture, green snap or lodging percentage values.
NS indicates values within a column are not significantly different.
Measure of experimental error: values less than 15% are desired.

Table 7. Armour no-till early corn hybrid results, 2000-2001. Robert Clark farm, test relative maturity is 105-day or less.

Brand / Hybrid	Seed Company Relative Maturity	Yield - bu/a (15.5% mst.) 2-yr	2001	2001 Bu. wt. lb	2001 Grain mst. pct	2001 Green snap pct	2001 Lodged below ear pct
		Entries tested two years					
DEKALB/DKC53-32	103	174	202	57	19	0	0
DAIRYLAND/STEALTH-1606	104	174	202	58	20	0	0
KRUGER/K-9108	105	172	186	58	19	0	0
US SEEDS/US C1059	105	164	188	60	19	0	0
KRUGER/K-9108+BT	105	164	183	59	21	0	0
WILSON/1364	104	162	180	60	20	0	1
KRUGER/K-9106BT	103	160	176	59	19	0	2
EPLEY/E1470BT	102	157	173	59	17	0	0
JACOBSEN/JS4341	104	153	170	61	20	0	1
		Entries tested one year					
WENSMAN/W 4418	105	.	207	58	20	0	0
JACOBSEN/JS4225BT	102	.	198	59	20	0	1
KRUGER/K-9208A	105	.	194	58	21	0	0
DEKALB/DKC50-72	100	.	194	60	17	0	2
LG SEEDS/LG 2533	105	.	193	59	18	0	1
GOLD COUNTRY/X20200CL	105	.	188	62	19	0	2
KRUGER/K-9204BT	100	.	186	60	19	0	0
KRUGER/K-9206	102	.	185	60	20	0	1
DEKALB/DKC48-15	98	.	185	58	16	0	2
KRUGER/K-9104BT	100	.	185	61	20	0	1
EPLEY/E1579	105	.	185	56	18	0	0
DAIRYLAND/STEALTH-1605	105	.	185	60	20	0	0
KALTENBERG/K5151BT	102	.	185	61	17	0	0
NC+/3448	105	.	184	57	20	0	0
KALTENBERG/K5123	102	.	183	59	17	0	0
JACOBSEN/JS4167	100	.	183	57	17	0	0
WENSMAN/W 4314	102	.	182	56	17	0	1
NC+/3361	105	.	182	58	18	0	1
WENSMAN/W 4388	105	.	182	57	19	0	1
SANDS/EXP 901-03	102	.	181	58	17	0	0
EPLEY/E1493	103	.	181	58	20	0	0
DAIRYLAND/STEALTH-1503	105	.	181	59	19	0	0
GARST/8590IT	105	.	181	60	21	0	1
DAHLCO/DS X-0012	100	.	181	58	16	0	1
HOEGEMEYER/HBT619	104	.	180	59	20	0	0
KRUGER/K-9208	105	.	180	58	19	0	1
DAHLCO/DS 2660	105	.	178	57	16	0	1
MUSTANG/5252	100	.	177	59	19	0	0
HOEGEMEYER/598CL	96	.	174	58	19	0	1
JACOBSEN/JS4246	102	.	173	57	18	0	0

Table 7 (continued).

Brand / Hybrid	Seed Company Relative Maturity	Yield - bu/a (15.5% mst.) 2-yr	Yield - bu/a (15.5% mst.) 2001	Bu. wt. lb	Grain mst. pct	Green snap pct	Lodged below ear pct
			Entries tested one year				
DEKALB/DKC51-88	101		173	60	19	0	1
MUSTANG/5103BT	102		173	59	18	0	0
KAUP/KS 97-104	104		172	59	18	0	2
GARST/8720	102		170	59	17	0	1
KAUP/KS EX1052	105		168	57	20	0	0
WENSMAN/W 4362	104		168	56	17	0	1
WENSMAN/W 4284	100		167	59	18	0	1
MUSTANG/7105BT	105		166	60	20	0	1
MUSTANG/5151	100		166	60	18	0	0
SANDS/SOI 9027	102		165	60	17	0	0
KAYSTAR/KX-630	103		153	59	17	0	0
HOEGEMEYER/2590	96		152	59	17	0	0
PFISTER/1532	98		148	58	17	0	1
Test average:		165	180	59	18	0	1
LSD (5%) values:		NS	17	2	1	NS	NS
Top-group values - Minimum:		153	190	60			
Maximum:					17	0	2
No. entries in top group:		9	7	15	16	52	52
Coef. of variation#:		8	6				

* Top group value- within one LSD value of the highest yield or bushel weight values or the lowest grain moisture, green snap or lodging percentage values.
NS indicates values within a column are not significantly different.
Measure of experimental error: values less than 15% are desired.

Table 8. Armour late corn hybrid results, 2000-2001. Robert Clark farm, test relative maturity is 106-day or more.

Brand / Hybrid	Seed Company Relative Maturity	Yield - bu/a (15.5% mst.) 2-yr	2001	2001 Bu. wt. lb	2001 Grain mst. pct	2001 Green snap pct	2001 Lodged below ear pct
		Entries tested two years					
KRUGER/K-9013+BT	110	180	199	58	20	0	1
KRUGER/K-9914	111	177	186	54	24	0	1
EPLEY/E3620	113	175	196	57	21	0	0
JACOBSEN/JS4785BT	110	174	190	58	22	0	0
KRUGER/K-9013	110	168	171	56	21	0	2
KRUGER/K-9010BT/CL	106	167	176	58	20	0	0
ASGROW/RX634	107	161	158	58	18	0	2
HOEGEMEYER/2601	106	159	178	60	18	0	2
EPLEY/E2433	108	158	159	57	18	0	1
EPLEY/E3610BT	111	156	171	57	22	0	0
WILSON/1475PT	108	154	157	57	21	0	0
KRUGER/K-9910BT	107	154	185	57	20	0	0
		Entries tested one year					
KRUGER/K-9114	112	.	201	56	23	0	1
DEKALB/DKC60-15	110	.	197	57	22	0	1
CROWS/438 B	108	.	188	58	20	0	0
WILSON/1458	107	.	187	57	20	0	1
KRUGER/K-9014+BT	111	.	187	57	21	0	1
SANDS/SOI 9082	108	.	186	58	19	0	1
EPLEY/E2470	110	.	184	58	19	0	0
JACOBSEN/JS4487	106	.	184	57	19	0	1
JACOBSEN/JS4632	110	.	183	57	20	0	0
CROWS/3520 B	107	.	183	60	21	0	1
GOLD COUNTRY/X10008	106	.	182	56	18	0	0
KRUGER/K-9211BT	107	.	181	58	21	0	0
SANDS/SOI 9102	110	.	179	58	20	0	0
KALTENBERG/K6789	109	.	178	58	19	0	0
HOEGEMEYER/2666	113	.	175	57	22	0	1
WILSON/1563	110	.	174	57	21	0	0
GARST/8327IT	113	.	173	56	25	0	0
JACOBSEN/JS4345	106	.	172	58	18	0	1
KAYSTAR/X1131	112	.	171	57	21	0	1
WENSMAN/W 4424	107	.	168	57	19	0	2
KRUGER/K-9211A	107	.	168	57	20	0	1
MUSTANG/7108BT	108	.	166	58	20	0	0
EPLEY/E3630BT	113	.	164	57	24	0	0
GARST/8464IT	111	.	161	56	21	0	0
KALTENBERG/K6396	107	.	160	58	21	0	0

Table 8 (continued).

Brand / Hybrid	Seed Company Relative Maturity	Yield - bu/a (15.5% mst.) 2-yr	Yield - bu/a (15.5% mst.) 2001	Bu. wt. lb	Grain mst. pct	Green snap pct	Lodged below ear pct
			Entries tested one year				
KRUGER/K-9012BT	109	.	160	58	20	0	0
JACOBSEN/JS4543	106	.	159	57	21	0	0
EPLEY/E3223	112	.	159	56	19	0	1
JACOBSEN/JS4583BT	108	.	158	57	21	0	1
KAUP/KS 97-108CL	108	.	157	57	21	0	0
JACOBSEN/JS4637	110	.	146	56	20	0	1
KRUGER/K-9210	106	.	139	57	20	0	2
Test average:		165	174	57	20	0	1
LSD (5%) values:		NS**	22	2	2	NS	NS
Top-group values*- Minimum:		.	179	58			
Maximum:					20	0	2
No. entries in top group:		.	18	16	23	44	44
Coef. of variation#:		8	8				

* Top group value- within one LSD value of the highest yield or bushel weight values or the lowest grain moisture, green snap or lodging percentage values.

** Ranking of hybrid yields in 2000 was so different from those in 2001 (a significant year effect) that two-year yield differences could not be detected (hybrid effect for two-year yields was not significant).

NS indicates values within a column are not significantly different.

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

Table 9. Beresford early corn hybrid results, 2000-2001. SE Research Farm, test relative maturity is 110-day or less.

Brand / Hybrid	Seed Company Relative Maturity	Yield - bu/a (15.5% mst.) 2-yr	Yield - bu/a (15.5% mst.) 2001	2001 Bu. wt. lb	2001 Grain mst. pct	2001 Green snap pct	2001 Lodged below ear pct
		Entries tested two years					
KRUGER/K-9111	108	194	187	61	16	0	2
KRUGER/K-9013	110	189	178	60	16	0	3
HEINE/H821	110	187	181	60	16	0	2
KRUGER/K-9013+BT	110	186	184	59	16	0	0
KRUGER/K-9010BT/CL	106	182	185	60	16	0	1
DAIRYLAND/STEALTH-1609	109	182	172	61	15	0	1
DAIRYLAND/STEALTH-1507	108	177	179	60	15	0	2
HEINE/H775	109	174	179	60	16	0	0
HEINE/H765	108	167	169	59	15	0	1
DAHLCO/DS 2660	105	166	166	58	14	0	2
WILSON/1364	104	164	162	61	15	0	3
MUSTANG/7105BT	105	163	170	62	15	0	3
WILSON/1475PT	108	158	154	58	15	0	1
HOEGEMEYER/2601	106	158	162	61	15	0	3
KRUGER/K-9011	107	155	156	60	16	0	2
JACOBSEN/JS4341	104	148	158	61	15	0	1
		Entries tested one year					
WILSON/1458	107		189	61	15	0	2
SANDS/SOI 9082	108		187	61	15	0	1
KALTENBERG/K6396	107		187	61	15	0	1
DEKALB/DKC60-08	110		187	61	15	0	1
GOLD COUNTRY/X10010BT	110		185	60	15	0	1
KAUP/KS 97-109BT	109		185	59	15	0	2
SANDS/SOI 9102	110		185	59	15	0	1
HEINE/H785	109		184	60	16	0	1
KAUP/KS 97-1101	110		184	60	15	0	2
CROWS/4908	110		184	62	16	0	3
WENSMAN/W 4418	105		183	60	15	0	1
HEINE/H740	108		183	61	16	0	2
JACOBSEN/JS4583BT	108		183	60	15	0	1
JACOBSEN/JS4632	110		182	59	15	0	1
MUSTANG/7108BT	108		180	60	15	0	1
GARST/N9513	108		179	60	15	0	2
JACOBSEN/JS4543	106		178	60	16	0	3
PFISTER/1680	99		177	62	15	0	1
JACOBSEN/JS4487	106		176	58	15	0	4
JACOBSEN/JS4785BT	110		176	60	16	0	2
ASGROW/RX708	110		176	61	16	0	0
KALTENBERG/K6789	109		176	60	15	0	1
WILSON/1563	110		175	61	16	0	3
PFISTER/2656	109		175	61	15	0	3
CROWS/3520 B	107		175	62	16	0	0
GARST/8590IT	105		174	61	15	0	2
KRUGER/K-9211A	107		173	60	15	0	2
EPLEY/E2470	110		172	60	15	0	1
JACOBSEN/JS4637	110		172	60	15	0	3
MIDWEST/G 7706	110		172	60	16	0	4

Table 9 (continued).

Brand / Hybrid	Seed Company Relative Maturity	Yield - bu/a (15.5% mst.) 2-yr	Yield - bu/a (15.5% mst.) 2001	Bu. wt. lb	Grain mst. pct	Green snap pct	Lodged below ear pct
			2001				
			Entries tested one year				
DAHLCO/DS X-0031	103	.	171	60	14	0	1
KRUGER/K-9211BT	107	.	168	61	16	0	0
HEINE/H788	109	.	167	61	15	0	0
DEKALB/DKC57-72	107	.	167	62	18	0	1
GARST/N8577IT	108	.	167	61	16	0	2
WENSMAN/W 4314	102	.	166	58	14	0	0
EPLEY/E2433	108	.	166	60	15	0	0
HEINE/H745	110	.	165	62	15	0	3
HOEGEMEYER/GLL418	109	.	165	59	16	0	1
HOEGEMEYER/HBT619	104	.	165	60	15	0	0
EPLEY/E1579	105	.	165	58	14	0	2
DAIRYLAND/STEALTH-1611	109	.	164	60	16	0	2
WENSMAN/W 4424	107	.	164	60	15	0	2
KAUP/KS 97-108CL	108	.	163	61	15	0	1
DEKALB/DKC60-15	110	.	162	61	17	0	2
PFISTER/2024	101	.	161	62	15	0	2
KAYSTAR/KX-665	105	.	161	62	15	0	1
KRUGER/K-9012BT	109	.	161	61	18	0	1
WENSMAN/W 4388	105	.	161	60	15	0	0
JACOBSEN/JS4345	106	.	161	62	16	0	2
DAIRYLAND/STEALTH-1607	105	.	160	60	15	0	1
EPLEY/E1493	103	.	160	61	15	0	4
GOLD COUNTRY/X10008	106	.	159	60	15	0	2
MUSTANG/5151	100	.	159	61	15	0	1
KRUGER/K-9210	106	.	156	60	16	0	1
SANDS/SOI 9041	104	.	156	61	15	0	3
WENSMAN/W 4284	100	.	152	61	15	0	0
MUSTANG/7710	110	.	151	60	15	0	1
WENSMAN/W 4362	104	.	150	58	14	0	2
DAHLCO/DS X-0012	100	.	149	60	14	0	2
Test average:		172	171	60	15	0	2
LSD (5%) values:		18	16	2	1	NS	2
Top-group values*- Minimum:		176	173	60			
Maximum:					15	0	2
No. entries in top group:		7	34	64	51	76	37
Coef. of variation#:		5	6				

* Top group value- within one LSD value of the highest yield or bushel weight values or the lowest grain moisture, green snap or lodging percentage values.
NS indicates values within a column are not significantly different.
Measure of experimental error: values less than 15% are desired.

Table 10. Beresford late corn hybrid results, 2000-2001. SE Research Farm, test relative maturity is 111-day or more.

Brand / Hybrid	Seed Company Relative Maturity	Yield - bu/a (15.5% mst.) 2-yr	Yield - bu/a (15.5% mst.) 2001	2001 Bu. wt. lb	2001 Grain mst. pct	2001 Green snap pct	2001 Lodged below ear pct
			Entries tested two years				
KRUGER/K-9014BT	111	189	179	60	18	0	3
ASGROW/RX730YG	111	185	188	60	16	0	1
EPLEY/E3610BT	111	185	182	58	16	0	0
HEINE/H840	112	180	174	58	15	0	3
HOEGEMEYER/2666	113	178	169	60	16	0	2
KRUGER/K-9114	112	176	164	59	16	0	4
HOEGEMEYER/2649	111	173	169	58	15	0	1
HEINE/H825	111	171	170	59	16	0	0
EPLEY/E3620	113	170	175	59	16	0	4
GARST/8464IT	111	165	142	60	18	0	2
JACOBSEN/JS56	112	164	168	60	16	0	2
			Entries tested one year				
DEKALB/DKC63-03	113	.	192	61	17	0	2
KALTENBERG/K7337	113	.	192	59	16	0	1
KAYSTAR/KX-898	114	.	187	59	18	0	3
KRUGER/K-9014+BT	111	.	181	59	17	0	3
EPLEY/E3630BT	113	.	178	60	17	0	1
HEINE/H860	114	.	177	59	16	0	1
HEINE/H831	112	.	174	60	17	0	2
US SEEDS/US C1111	111	.	171	58	15	0	1
GARST/8301	114	.	170	59	18	0	0
KRUGER/EX-214-1	111	.	169	56	15	0	3
WILSON/1752	112	.	169	58	17	0	2
KRUGER/K-9114BT	111	.	168	59	17	0	1
NC+/4771	111	.	166	59	15	0	2
HEINE/H844	114	.	163	58	16	0	4
EPLEY/E3223	112	.	162	59	15	0	3
NC+/5169	112	.	161	61	17	0	3
KALTENBERG/K7202CL	112	.	156	58	15	0	1
GARST/8327IT	113	.	155	60	19	0	1
HEINE/H857	114	.	154	59	18	0	2
HOEGEMEYER/CK044	111	.	147	57	15	0	2
HEINE/H848	113	.	145	58	16	0	1
WILSON/1671CL	111	.	140	59	18	0	3
Test average:		176	168	59	16	0	2
LSD (5%) values:		NS	15	2	1	NS	NS
Top-group values*- Minimum:		164	177	59			
Maximum:					16	0	4
No. entries in top group:		11	9	23	19	33	33
Coef. of variation#:		6	5				

* Top group value- within one LSD value of the highest yield or bushel weight values or the lowest grain moisture, green snap or lodging percentage values.
NS indicates values within a column are not significantly different.
Measure of experimental error: values less than 15% are desired.

Table 11. Frankfort Roundup Ready no-till early corn hybrid results, 2000-2001. Steve Masat farm, test relative maturity is 100-day or less.

Brand / Hybrid	Seed Company Relative Maturity	Yield - bu/a (15.5% mst.) 2-yr	Yield - bu/a (15.5% mst.) 2001	2001 Bu. wt. lb	2001 Grain mst. pct	2001 Green snap pct	2001 Lodged below ear pct
		Entries tested one year					
MUSTANG/4002RR	95		174	56	15	0	0
DEKALB/DK440RR/BTY	94		170	56	16	0	0
DEKALB/DKC46-28	96		170	57	17	0	1
KRUGER/K-9199RRBT	98		164	55	17	0	0
GOLD COUNTRY/9603RRBT	96		162	56	16	0	0
MUSTANG/5002RR	100		162	56	17	0	0
KRUGER/EX-299-1RR	96		161	55	17	0	0
TOP FARM/TFSX 8103RR	100		158	57	17	0	0
DEKALB/DKC42-70	92		157	57	16	0	1
KRUGER/EX-205RR	100		157	56	20	0	1
LG SEEDS/LG 2481RR	97		156	56	16	0	0
CHANNEL/6959R	95		155	57	16	0	1
KRUGER/K-9102RR	99		154	53	17	0	1
DEKALB/DKC39-47	89		153	57	16	0	0
TOP FARM/TFSX 8196RR	96		152	54	16	0	0
DAHLCO/DS X-0851RR	85		150	56	16	0	0
KAYSTAR/KX-6202RR	100		150	56	18	0	0
TOP FARM/TFSX 8201RR	100		148	55	15	0	1
TRIUMPH/TRX1307RR	100		144	57	18	0	1
KRUGER/EX-201RR	98		139	56	17	0	0
DAHLCO/DS 2140RR	84		138	57	17	0	0
Test average:			156	56	17	0	0
LSD (5%) values:			18	2	1	NS	NS
Top-group values* - Minimum:			156	55			
Maximum:					16	0	1
No. entries in top group:			11	19	10	21	21
Coef. of variation#:			7				

* Top group value- within one LSD value of the highest yield or bushel weight values or the lowest grain moisture, green snap or lodging percentage values.
NS indicates values within a column are not significantly different.
Measure of experimental error: values less than 15% are desired.

Table 12. Frankfort Roundup Ready no-till late corn hybrid results, 2000-2001. Steve Masat farm, test relative maturity is 101-day or more.

Brand / Hybrid	Seed Company Relative Maturity	Yield - bu/a (15.5% mst.) 2-yr	Yield - bu/a (15.5% mst.) 2001	2001 Bu. wt. lb	2001 Grain mst. pct	2001 Green snap pct	2001 Lodged below ear pct
			Entries tested one year				
KRUGER/K-9910RR	106	.	164	53	24	0	0
GOLD COUNTRY/1020RRBT	102	.	161	55	18	0	0
DEKALB/DKC57-40	107	.	160	56	20	0	0
MUSTANG/6004RR	104	.	159	56	21	0	1
DAHLCO/DS X-0105RR	105	.	159	55	19	0	0
ASGROW/RX601RR/YG	105	.	158	54	21	0	0
TOP FARM/TFSX 8203RR	103	.	157	54	17	0	0
CHANNEL/7341R	104	.	154	54	19	0	1
DEKALB/DKC53-33	103	.	153	55	19	0	0
MUSTANG/5903RRBT	103	.	152	54	17	0	0
KRUGER/K-9208RR	105	.	151	54	21	0	0
US SEEDS/US E1012RR	101	.	148	55	18	0	0
KAYSTAR/KX-6260RR	102	.	146	56	19	0	0
KRUGER/EX-212RR	108	.	143	51	26	0	0
Test average:		.	155	54	20	0	0
LSD (5%) values:		.	NS	2	1	NS	NS
Top-group values*- Minimum:		.	143	54			
Maximum:					18	0	1
No. entries in top group:		.	14	12	4	14	14
Coef. of variation#:		.	5				

* Top group value- within one LSD value of the highest yield or bushel weight values or the lowest grain moisture, green snap or lodging percentage values.
NS indicates values within a column are not significantly different.
Measure of experimental error: values less than 15% are desired.

Table 13. Bookings Roundup Ready early corn hybrid results, 2000-2001. SDSU Agronomy Farm, test relative maturity is 100-day or less.

Brand / Hybrid	Seed Company Relative Maturity	Yield - bu/a (15.5% mst.) 2-yr	2001	2001 Bu. wt. lb	2001 Grain mst. pct	2001 Green snap pct	2001 Lodged below ear pct
		Entries tested two years					
KRUGER/K-9102RR	99	180	179	56	15	0	1
TOP FARM/TFSX 8201RR	100	174	169	56	15	0	0
MUSTANG/4002RR	95	172	166	57	15	0	0
TOP FARM/TFSX 8103RR	100	167	169	57	15	0	0
MUSTANG/5002RR	100	166	161	57	15	0	2
KAYSTAR/KX-6200RR	100	163	153	57	15	0	0
EPLEY/E-1485RR	100	162	158	57	15	0	1
DAHLCO/DS 2475RR	96	158	173	57	16	0	2
		Entries tested one year					
KRUGER/EX-205RR	100	.	199	58	19	0	0
DEKALB/DKC42-70	92	.	195	58	15	0	0
SANDS/EXP 900-9RR	100	.	192	57	16	0	1
DEKALB/DKC46-28	96	.	184	59	16	0	2
SANDS/SOI 1010RR	100	.	181	57	16	0	0
DAHLCO/DS X-0851RR	85	.	180	59	15	0	0
PFISTER/1553 RR	98	.	179	58	16	0	1
DEKALB/DKC39-47	89	.	175	58	15	0	0
DEKALB/DK440RR/BTY	94	.	174	56	15	0	0
KAYSTAR/KX-6202RR	100	.	171	57	15	0	0
CHANNEL/6998R	99	.	166	57	15	0	0
PFISTER/1554 RR	99	.	165	57	14	0	0
DAHLCO/DS X-1001RR	100	.	163	58	16	0	0
GOLD COUNTRY/9603RRBT	96	.	154	56	16	0	0
DAHLCO/DS 2140RR	84	.	145	57	16	0	0
DAHLCO/DS X-0911RR	91	.	143	59	16	0	0
TOP FARM/TFSX 8196RR	96	.	131	56	14	0	0
Test average:		168	169	57	16	0	0
LSD (5%) values:		NS	21	NS	1	NS	1
Top-group values*- Minimum:		158	178	56			
Maximum:					15	0	1
No. entries in top group:		8	8	25	15	25	22
Coef. of variation#:		6	8				

* Top group value- within one LSD value of the highest yield or bushel weight values or the lowest grain moisture, green snap or lodging percentage values.
NS indicates values within a column are not significantly different.
Measure of experimental error: values less than 15% are desired.

Table 14. Brookings Roundup Ready late corn hybrid results, 2000-2001. SDSU Agronomy Farm, test relative maturity is 101-day or more.

Brand / Hybrid	Seed Company Relative Maturity	Yield - bu/a (15.5% mst.) 2-yr	Yield - bu/a (15.5% mst.) 2001	Bu. wt. lb	Grain mst. pct	Green snap pct	Lodged below ear pct
			2001				
			Entries tested two years				
EPLEY/E-3615RR	110	176	169	55	20	0	2
JACOBSEN/J4256RR	104	169	165	56	15	0	1
			Entries tested one year				
DEKALB/DKC57-40	107	.	199	58	19	0	1
KRUGER/EX-212RR	108	.	191	57	18	0	1
SEEDS 2000/3110RRBT	101	.	191	56	15	0	1
ASGROW/RX601RR/YG	105	.	188	58	18	0	1
MUSTANG/6004RR	104	.	186	58	19	0	3
DEKALB/DKC53-33	103	.	179	57	16	0	1
GOLD COUNTRY/1020RRBT	102	.	178	57	15	0	1
SEEDS 2000/EX3112RR	101	.	170	57	14	0	1
US SEEDS/US E1012RR	101	.	168	56	15	0	0
CHANNEL/7341R	104	.	168	58	16	0	0
KAYSTAR/KX-6260RR	102	.	165	58	16	0	0
MUSTANG/5903RRBT	103	.	163	55	15	0	0
KRUGER/K-9208RR	105	.	162	57	17	0	1
TOP FARM/TFSX 8203RR	103	.	160	56	15	0	0
Test average:		173	175	57	16	0	1
LSD (5%) values:		NS	18	2	1	NS	NS
Top-group values*- Minimum:		169	181	56			
Maximum:					15	0	3
No. entries in top group:		2	5	10	7	16	16
Coef. of variation#:		6	6				

* Top group value- within one LSD value of the highest yield or bushel weight values or the lowest grain moisture, green snap or lodging percentage values.
NS indicates values within a column are not significantly different.
Measure of experimental error: values less than 15% are desired.

Table 15. Armour Roundup Ready early corn hybrid results, 2000-2001. Robert Clark farm, test relative maturity is 105-day or less.

Brand / Hybrid	Seed Company Relative Maturity	Yield - bu/a (15.5% mst.) 2-yr	Yield - bu/a (15.5% mst.) 2001	Bu. wt. lb	Grain mst. pct	Green snap pct	Lodged below ear pct
			Entries tested one year				
DEKALB/DK440RR/BTY	94	.	176	58	14	0	0
DEKALB/DKC46-28	96	.	171	59	14	0	0
KRUGER/K-9208RR	105	.	171	59	15	0	1
ASGROW/RX601RR/YG	105	.	166	58	16	0	2
MUSTANG/6004RR	104	.	163	59	15	0	1
GOLD COUNTRY/X69904RRBT	105	.	159	59	14	0	1
MUSTANG/6005RR	105	.	158	57	17	0	1
PFISTER/1553 RR	98	.	154	58	14	0	0
US SEEDS/US E1052RR	103	.	154	60	16	0	0
PFISTER/1554 RR	99	.	154	57	13	0	0
DEKALB/DKC53-33	103	.	153	58	14	0	1
MUSTANG/5002RR	100	.	153	58	14	0	0
CHANNEL/7341R	104	.	153	59	14	0	1
KRUGER/K-9102RR	99	.	150	56	14	0	1
EPLEY/E-1485RR	100	.	150	58	14	0	0
KRUGER/EX-205RR	100	.	147	60	16	0	0
MUSTANG/5903RRBT	103	.	147	57	14	0	0
JACOBSEN/J4256RR	104	.	143	58	14	0	0
TOP FARM/TFSX 8203RR	103	.	140	58	14	0	1
Test average:		.	156	58	14	0	0
LSD (5%) values:		.	19	2	1	NS	NS
Top-group values*- Minimum:		.	157	58			
Maximum:					14	0	2
No. entries in top group:		.	7	15	13	19	19
Coef. of variation#:		.	7				

* Top group value- within one LSD value of the highest yield or bushel weight values or the lowest grain moisture, green snap or lodging percentage values.
NS indicates values within a column are not significantly different.
Measure of experimental error: values less than 15% are desired.

Table 16. Armour Roundup Ready late corn hybrid results, 2000-2001. Robert Clark farm, test relative maturity is 106-day or more.

Brand / Hybrid	Seed Company Relative Maturity	Yield - bu/a (15.5% mst.) 2-yr	2001	Bu. wt. lb	Grain mst. pct	Green snap pct	Lodged below ear pct
			Entries tested one year				
DEKALB/DKC60-17	110	.	169	59	15	0	1
LG SEEDS/C 7753RR	108	.	159	58	16	0	1
MUSTANG/7909RRBT	109	.	156	57	18	0	1
DEKALB/DKC57-40	107	.	153	59	16	0	1
CHANNEL/7707R	110	.	150	59	17	0	2
KRUGER/K-9910RR	106	.	149	59	16	0	1
KRUGER/EX-212RR	108	.	144	58	15	0	1
EPLEY/E-3615RR	110	.	142	56	16	0	0
GOLD COUNTRY/X10011RR	110	.	142	56	13	0	0
SEEDS 2000/EX3171RR	109	.	141	59	17	0	2
EPLEY/E-3225RR	112	.	141	57	15	0	1
JACOBSEN/J4655RR	108	.	132	57	15	0	0
TRIUMPH/1120BTRR	108	.	129	59	20	0	0
Test average:		.	147	58	16	0	1
LSD (5%) values:		.	19	1	2	NS	NS
Top-group values*- Minimum:		.	150	58			
Maximum:					15	0	2
No. entries in top group:		.	5	8	5	13	13
Coef. of variation#:		.	8				

* Top group value- within one LSD value of the highest yield or bushel weight values or the lowest grain moisture, green snap or lodging percentage values.
NS indicates values within a column are not significantly different.
Measure of experimental error: values less than 15% are desired.

Table 17. Beresford Roundup Ready combined early-late corn hybrid results, 2000-2001. SE Research Farm. Test relative maturity is 99 to110-day.

Brand / Hybrid	Seed Company Relative Maturity	Yield - bu/a (15.5% mst.) 2-yr	Yield - bu/a (15.5% mst.) 2001	2001 Bu. wt. lb	2001 Grain mst. pct	2001 Green snap pct	2001 Lodged below ear pct
			Entries tested two years				
SEEDS 2000/EX3191RR	109	179	168	58	15	0	4
JACOBSEN/J4753RR	110	176	191	58	16	0	2
ASGROW/RX601RR/YG	105	173	181	60	16	0	3
US SEEDS/US C1091RR	109	163	165	58	15	0	3
JACOBSEN/J4655RR	108	160	152	58	15	0	1
MUSTANG/6005RR	105	153	136	58	16	0	1
			Entries tested one year				
TRIUMPH/1120BTRR	108	.	190	59	15	0	1
KRUGER/EX-212RR	108	.	186	59	15	0	5
KRUGER/K-9912+RR	110	.	184	60	16	0	5
KAYSTAR/X1131R	110	.	183	59	16	0	6
PFISTER/2656 RR	109	.	182	59	15	0	6
CHANNEL/7707R	110	.	179	59	16	0	2
DEKALB/DKC60-17	110	.	178	60	16	0	3
HEINE/H8490	110	.	178	60	16	0	2
ASGROW/RX730RR/YG	110	.	176	59	16	0	3
DEKALB/DKC57-40	107	.	175	60	15	0	1
KRUGER/K-9910RR	106	.	169	58	15	0	4
MUSTANG/7909RRBT	109	.	166	58	18	0	2
KRUGER/K-9208RR	105	.	165	60	14	0	3
DAHLCO/DS X-1001RR	100	.	163	59	14	0	3
DAHLCO/DS X-0105RR	105	.	163	59	14	0	2
HEINE/H8380	110	.	157	56	16	0	1
HEINE/H8250	110	.	155	59	16	0	3
PFISTER/1554 RR	99	.	150	57	13	0	1
GOLD COUNTRY/X10011RR	110	.	147	57	14	0	1
FONTANELLE/HC7735BT/RR	110	.	144	58	17	0	1
Test average:		167	169	59	15	0	3
LSD (5%) values:		NS	16	2	1	NS	3
Top-group values*- Minimum:		153	175	58			
Maximum:					14	0	4
No. entries in top group:		6	12	15	5	26	22
Coef. of variation#:		9	6				

* Top group value- within one LSD value of the highest yield or bushel weight values or the lowest grain moisture, green snap or lodging percentage values.
NS indicates values within a column are not significantly different.
Measure of experimental error: values less than 15% are desired.