

South Dakota State University
**Open PRAIRIE: Open Public Research Access Institutional
Repository and Information Exchange**

Agricultural Experiment Station Circulars

SDSU Agricultural Experiment Station

12-2000

2000 Corn Performance Trials: Corn

R. G. Hall

South Dakota State University, robert.hall@sdstate.edu

K. K. Kirby

South Dakota State University, kevin.kirby@sdstate.edu

Follow this and additional works at: http://openprairie.sdstate.edu/agexperimentsta_circ

Recommended Citation

Hall, R. G. and Kirby, K. K., "2000 Corn Performance Trials: Corn" (2000). *Agricultural Experiment Station Circulars*. Paper 299.
http://openprairie.sdstate.edu/agexperimentsta_circ/299

This Circular is brought to you for free and open access by the SDSU Agricultural Experiment Station at Open PRAIRIE: Open Public Research Access Institutional Repository and Information Exchange. It has been accepted for inclusion in Agricultural Experiment Station Circulars by an authorized administrator of Open PRAIRIE: Open Public Research Access Institutional Repository and Information Exchange. For more information, please contact michael.biondo@sdstate.edu.

2000 Crop Performance Trials

CORN



Tables, 2000 corn performance trials

A	Soil classification and land preparation	6
B	Trial cooperators, locations, test populations, and seeding and harvest dates	6
C	Nearest station precipitation and GDD accumulation	7
D	Conventional hybrids by brand /hybrid and yield table number	8
E	Roundup Ready hybrids by brand /hybrid and yield table number	12
F	Seed company addresses and telephone numbers	13

Conventional hybrid trial results

1	Watertown, early maturity	14
2	Watertown, late maturity	16
3	Frankfort, no-till, early maturity	18
4	Frankfort, no-till, late maturity	20
5	Brookings, early maturity	22
6	Brookings, late maturity	24
7	Armour, no-till, early maturity	26
8	Armour, late maturity	28
9	Beresford, early maturity	30
10	Beresford, late maturity	33

Roundup Ready* hybrid trial results

11	Brookings, early maturity	35
12	Brookings, late maturity	36
13	Beresford	37

*Roundup Ready is registered by Monsanto.



Published in accordance with an act passed in 1881 by the 14th Legislative Assembly, Dakota Territory, establishing the Dakota Agricultural College and with the act of reorganization in 1887 by the 17th Legislative Assembly, which established the Agricultural Experiment Station at South Dakota State University. SDSU is an Affirmative Action/Equal Opportunity Employer (male/female) and offers all benefits, services, education, and employment opportunities without regard for ancestry, age, race, citizenship, color, creed, religion, gender, disability, national origin, sexual preference, or Vietnam Era veteran status.

3200 copies printed by AES at a cost of \$0.87 each AX062 12/00

2000 Corn Performance Trials

Robert G. Hall, Professor/Extension Agronomist
Project Leader, Crop Performance Testing
and

Kevin K. Kirby, Senior Agricultural Research Manager
Crop Performance Testing

Plant Science Department
Agricultural Experiment Station
South Dakota State University
Brookings, SD 57007-1096

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

This publication reports the performance of entries in the 2000 South Dakota corn hybrid performance trials. It includes both conventional (non-Roundup-Ready) and Roundup-Ready hybrids. Information includes both 1999-00 and 2000 grain yields in bushels per acre; and 2000 test weight, moisture percentages of shelled corn at harvest and stalk lodge percentages. Test trials are conducted by the South Dakota State University Crop Performance Testing (CPT) program.

through the tasselling stage. Generally, if green snap occurs at the 5- through 8-leaf stages yield reductions will be greater than if green snap occurs at the 12-leaf through tasselling stages. At Frankfort the green snap occurred at the 5-leaf through 8-leaf stage growth phase. In the early maturity test (Table 3) the green snap percentages ranged from 1 to 48% and in the late maturity test (Table 4) from 1 to 42%. Damage appeared to be greatly affected by hybrid. These results strongly suggest the use of several hybrids, as opposed to just one or two hybrids, would help combat high yield losses from green snap. Frankfort was the only test site experiencing measurable green snap losses.

Test Trial Locations

Trial locations, soil types, and seedbed preparation are indicated in Table A. Test populations, seeding and harvest dates are given in Table B. Seeding started on April 26 and was completed by May 2. The Frankfort plots were hit by high winds on July 11, 2000, that caused moderate to severe green snap in several hybrids. In this case green snap is defined as a clean break at one of the intermediate nodes which also resulted in no ear development on the damaged stalk. Green snap is most likely to occur at one of two growth phases of the corn plant. First, it may occur as the plant approaches the 5-leaf stage and continues through the 8-leaf stage. Second, it may occur later as the plant approaches the 12-leaf stage and continues

Weather and Climatic Conditions

Climatic data (Table C) for this year's growing season, April-September, was obtained from the South Dakota Automatic Weather Data Network. Growing degree day (GDD) information for two locations was obtained from alternate weather reporting sites. The Frankfort GDD information was obtained from Huron while the Armour information was an average of the Mitchell and Yankton data. Mitchell and Yankton data was used to compute an Armour GDD average because (1) there was little difference in the data between the two locations and (2) because Armour lies somewhat between them. The remaining climatic reporting stations are located at or near their respective test trial sites. Precipitation may differ between a

given test site and its respective climatic recording station. At Redfield the precipitation data was missing except for August and September. Monthly precipitation totals were variable across locations. Monthly levels varied from a low of 0.54 inches at Centerville in September to a high of 6.74 at Brookings in May. This high of 6.74 inches for Brookings in May was critical to the crop since Brookings received below average precipitation for the rest of the growing season. The highest accumulation of recorded seasonal precipitation was at Brookings with 15.52 inches or 2.59 inches below average. Centerville and Armour both reported more than 4 inches below average while Watertown reported 2 inches below average in seasonal rainfall.

The heat unit or 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 3029 GDDs at Armour to a low of 2342 GDDs at Brookings. At Armour, Centerville, Redfield, and Watertown the GDD seasonal accumulations were above average; while Brookings was 76 GDDs below average for the growing season. The 2000 GDD total for the Armour site is an average of the Mitchell and Yankton data.

In summary, the major environmental impact in 2000 was the below average rainfall received across most of eastern South Dakota. The seasonal GDD totals across this region varied only slightly and were probably not a significant factor in test trial areas this year.

The assistance of the following is appreciated: CPT technician Jesse Hall 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 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 as follows: 95 days for Watertown; 100 days for Frankfort and Brookings; 105 days for Armour; and 110 days for Beresford. Hybrids are assigned to maturity trials based on relative maturity ratings defined by the participating 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 2000 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 2000, following emergence 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 outlined in table A. Seedbed preparation was good at all locations. A starter fertilizer of 100 pounds/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. Recommended herbicides (pre-emergence and post-emergence) were broadcast at labeled rates where needed.

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 was when weeds were 2-4 inches tall, the second application was when weed growth was again 2-4 inches tall.

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 2000, 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; factors such as moisture, temperature, or soil variations; or agronomic factors like seeding date, reseeding, or seed quality. All of these 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 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.

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-yielding group for each test trial. For example, at Watertown (Table 1) the highest 2-year yield was 165 bu/A for Kruger EX-2096. In order to determine whether it is the only top yielding hybrid at Watertown use the LSD value of 15 bu/A at the bottom of the 2-yr yield column. In order for hybrids to be in the top-yield group they must yield 150 bu/A ($165 - 15 = 150$) or higher. Technically, a yield of 151 bu/A would be in the top-yield group while a yield of 150 bu/A would not be in the top-yield group. However, all yields and LSD values are rounded to the nearest whole number. We can say 150 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 2000. This value is indicated as the min. top-yield value at the bottom of the 2-yr

yield column. Top-yield hybrids for 2000 are those hybrids which are equal or higher than the minimum top-yield value indicated at the bottom of the 2000 yield column.

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 15 bu/A can be used to compare the yields of any two hybrids in the early maturity trial. If hybrid A yields 165 bu/A and hybrid B yields 151 bu/A their yield difference is 14 bu/A ($165 - 151 = 14$). In this case the two hybrids do not differ in yield because their yield difference of 14 bu/A is less than the reported LSD value of 15 bu/A. In contrast, if hybrid C yields 148 bu/A the yield difference between hybrid A and hybrid C would be 17 bu/A ($165 - 148 = 17$). In this case the yield difference of 17 bu/A is more than the reported LSD value of 15 bu/A and therefore hybrid A would have a significantly higher yield than hybrid C.

NOTE: In 2000, many hybrid yields across our test locations were very good, considering most locations started the growing season with minimal subsoil moisture levels and received below average rainfall during the growing season. Since we knew subsoil moisture levels were low to begin with, we did little if any tillage, in order to conserve soil moisture levels.

Performance Trial Results: Conventional Hybrids

The performance trial results for two years (1999-00) and one year (2000) are summarized below:

Watertown (NE Research Farm):

Early Maturity Trial (Table 1). The number of hybrid entries was 46. The 2-year average was 145 bu/A, hybrids had to average 150 bu/A or higher to be in the top-yield group (TYG), 5 hybrids qualified for the top-yield group, and hybrids had to differ by 15 bu/A to be significantly different in yield. The 2000 average was 118 bu/A, hybrids had to average 135 bu/A or higher to be in the top-yield group, one hybrid qualified for the top-yield group, and hybrids had to differ by 18 bu/A to be significantly different in yield.

Late Maturity Trial (Table 2). The number of hybrid entries was 49. The 2-year average was 129 bu/A, hybrids had to average 130 bu/A or higher to be in the top-yield group (TYG), 8 hybrids qualified for the top-yield group, and hybrids had to differ by 12 bu/A

to be significantly different in yield. The 2000 average was 122 bu/A, hybrids had to average 133 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 11 bu/A to be significantly different in yield.

Frankfort, No-Till Trial (Steve Masat Farm):

Early Maturity Trial (Table 3). The number of hybrid entries was 47. The 2-year average was 140 bu/A. This test was not able to detect hybrid yield differences among the 12 hybrids tested for 2 years. The yield ranking of the hybrids for 1999 were so different from those for 2000 the test was unable to detect significant yield differences for the 2-year averages. The 2000 average was 154 bu/A, hybrids had to average 168 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 18 bu/A to be significantly different in yield.

Late Maturity Trial (Table 4). The number of hybrid entries was 38. The 2-year average was 149 bu/A. Again as in table 4 this test was not able to detect hybrid yield differences among the 9 hybrids tested for 2 years. The yield ranking of the hybrids for 1999 were so different from those for 2000 the test was unable to detect significant yield differences for the 2-year averages. The 2000 average was 147 bu/A, hybrids had to average 152 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 22 bu/A to be significantly different in yield.

Brookings (SDSU Agronomy Farm):

Early Maturity Trial (Table 5). The number of hybrid entries was 58. The 2-year average was 169 bu/A, hybrids had to average 158 bu/A or higher to be in the top-yield group (TYG), 16 hybrids qualified for the top-yield group, and hybrids had to differ by 21 bu/A to be significantly different in yield. The 2000 average was 179 bu/A, hybrids had to average 183 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 13 bu/A to be significantly different in yield.

Late Maturity Trial (Table 6). The number of hybrid entries was 47. The 2-year average was 183 bu/A, hybrids had to average 175 bu/A or higher to be in the top-yield group (TYG), 18 hybrids qualified for the top-yield group, and hybrids had to differ by 19 bu/A to be significantly different in yield. The 2000 average was 187 bu/A, hybrids had to average 193 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 12 bu/A to be significantly different in yield.

Armour, No-Till Trial (Robert Clark Farm):

Early Maturity Trial (Table 7). The number of hybrid entries was 40. The 2-year average was 141 bu/A. This test was not able to detect hybrid yield differences among the 19 hybrids tested for 2 years. The yield rankings of the hybrids for 1999 were so different from those for 2000 the test was unable to detect significant yield differences for the 2-year averages. The 2000 average was 139 bu/A, hybrids had to average 138 bu/A or higher to be in the top-yield group, 26 hybrids qualified for the top-yield group, and hybrids had to differ by 21 bu/A to be significantly different in yield.

Late Maturity Trial (Table 8). The number of hybrid entries was 60. The 2-year average was 158 bu/A, hybrids had to average 158 bu/A or higher to be in the top-yield group (TYG), 13 hybrids qualified for the top-yield group, and hybrids had to differ by 21 bu/A to be significantly different in yield. The 2000 average was 150 bu/A, hybrids had to average 149 bu/A or higher to be in the top-yield group, 36 hybrids qualified for the top-yield group, and hybrids had to differ by 19 bu/A to be significantly different in yield.

Beresford: (SE Research Farm):

Early Maturity Trial (Table 9). The number of hybrid entries was 74. The 2-year average was 160 bu/A, hybrids had to average 157 bu/A or higher to be in the top-yield group (TYG), 22 hybrids qualified for the top-yield group, and hybrids had to differ by 22 bu/A to be significantly different in yield. The 2000 average was 168 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 21 bu/A to be significantly different in yield.

Late Maturity Trial (Table 10). The number of hybrid entries was 36. The 2-year average was 163 bu/A, hybrids had to average 169 bu/A or higher to be in the top-yield group (TYG), 3 hybrids qualified for the top-yield group, and hybrids had to differ by 16 bu/A to be significantly different in yield. The 2000 average was 183 bu/A, hybrids had to average 186 bu/A or higher to be in the top-yield group, 17 hybrids qualified for the top-yield group, and hybrids had to differ by 19 bu/A to be significantly different in yield.

Performance Trial Results: Roundup Ready Hybrids

Brookings (SDSU Agronomy Farm):

Early Maturity Trial (Table 11). The number of hybrid entries was 19. The 2-year average was 147 bu/A. There was no significant yield difference in 2-year averages among the 5 hybrids tested. Therefore, all 5 hybrids were in the top-yield group. The 2000 average was 170 bu/A, hybrids had to average 171 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 10 bu/A to be significantly different in yield.

Late Maturity Trial (Table 12). The number of hybrid entries was 16. The 2-year average was 167 bu/A. There were only 2 hybrids tested for 2 years and there was no significant difference between them in 2-year yield averages. The 2000 average was 188 bu/A, hybrids had to average 200 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 15 bu/A to be significantly different in yield.

Beresford (SE Research Farm):

Note: The early and late maturity trials were combined into a single trial because there were only three late maturity hybrids. The relative maturity rating of these hybrids (Jacobsen J4753RR, US Seeds C1119RR, and US Seeds C1139RR) was 111-day compared to the 110-day cut off value for the early test.

Early Maturity Trial (Table 13). The number of hybrid entries was 26. The 2-year average yield was 143 bu/A. There was no significant yield difference in 2-year averages among the 9 hybrids tested. Therefore, all 9 hybrids were in the top-yield group. The 2000 average was 165 bu/A, hybrids had to average 163 bu/A or higher to be in the top-yield group, 16 hybrids qualified for the top-yield group, and hybrids had to differ by 27 bu/A to be significantly different in yield.

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 2000 trial cooperators, locations, test populations, and seeding and harvest dates.

Cooperators	Location	Test*	----- Date -----	
		population (plants/acre)	Seeded	Harvested
Robert Clark	Armour	27,878	April 26	Oct. 17
SE Research Farm	Beresford	27,878	April 27	Oct. 20
SDSU Agronomy Farm	Brookings	27,878	May 1	Oct. 18
NE Research Farm	Watertown	27,878	May 2	Oct. 12
Steve Masat	Frankfort	27,878	May 2	Oct. 11

* Plots were thinned to this population following emergence.

Table C. Nearest station precipitation and growing degree day (GDD) seasonal accumulation for the 2000 cropping season and their departures (+/-) from average. Source: South Dakota Automatic Weather Data Network.

Station	Data variable		Apr	May	Jun	Jul	Aug	Sep	Total
Armour	Precip.	'00 (in.)	1.14	4.71	1.44	0.62	4.03	0.59	12.53
		Avg.(in.)	2.34	3.18	3.88	3.12	2.16	2.38	17.06
Airport	Precip.	+/- (in.)	-1.2-	+1.53	-2.44	-2.50	+1.87	-1.79	-4.53
	Accum.	'00 (GDD)	194	579	1116	1843	2546	3029	*
	GDD's	Avg.(GDD)	183	563	1133	1852	2512	2935	*
	GDD's	+/- (GDD)	+11	+16	-17	-9	+34	+94	*
Brook-ings	Precip.	'00 (in.)	1.47	6.74	3.01	1.77	1.61	0.92	15.52
		Avg.(in.)	2.07	2.93	4.34	3.32	2.81	2.64	18.11
	Precip.	+/- (in.)	-0.60	+3.81	-1.33	-1.55	-1.20	-1.72	-2.59
2NE	Accum.	'00 (GDD)	121	441	881	1498	2085	2342	*
	GDD's	Avg.(GDD)	123	425	904	1524	2082	2418	*
	GDD's	+/- (GDD)	+2	+16	-23	-26	+3	-76	*
Center-ville	Precip.	'00 (in.)	1.33	2.35	3.68	3.13	2.94	0.54	13.97
		Avg.(in.)	2.27	3.44	4.22	3.38	2.93	2.64	18.88
	Precip.	+/- (in.)	-0.94	-1.09	-0.54	-0.25	+0.01	-2.10	-4.91
6SE	Accum.	'00 (GDD)	211	641	1174	1904	2613	2894	*
	GDD's	Avg.(GDD)	186	565	1133	1833	2465	2876	*
	GDD's	+/- (day)	+25	+76	+41	+71	+148	+18	*
Red-field	Precip.	'00 (in.)	*	*	*	*	0.03	0.08	*
		Avg.(in.)	2.10	2.89	3.17	2.67	2.18	1.77	*
	Precip.	+/- (in.)	*	*	*	*	*	*	*
2NE	Accum.	'00 (GDD)	176	562	1032	1738	2443	2928	*
	GDD's	Avg.(GDD)	158	495	1024	1717	2353	2744	*
	GDD's	+/- (GDD)	+18	+67	+8	+11	+90	+184	*
Water-town	Precip.	'00 (in.)	1.55	2.52	3.89	4.12	1.35	1.11	14.54
		Avg.(in.)	2.18	3.03	3.53	3.05	2.72	1.97	16.48
	Precip.	+/- (in.)	-0.63	-.051	+0.36	+1.07	-1.37	-0.86	-1.94
Airport	Accum.	'00 (GDD)	119	430	870	1512	2147	2546	*
	GDD's	Avg.(GDD)	122	426	919	1567	2157	2494	*
	GDD's	+/- (GDD)	-3	+4	-49	-55	-10	+52	*

* values in this row are an average of the Mitchell and Yankton data.

Table D. 2000 corn performance trials—conventional non-Roundup Ready hybrids by brand/hybrid and yield table number.

No. Brand / Hybrid	Table No.	No. Brand / Hybrid	Table No.
1 CARGILL/4021 BT	4	41 ASGROW/RX452YG	2,3,5
2 CARGILL/4521 BT	4,7	42 ASGROW/RX508YG	4,6,7,9
3 CARGILL/6521 BT	8	43 ASGROW/RX634	4,6,8,9
4 CARGILL/2521 BT	3	44 ASGROW/RX730YG	10
5 CARGILL/3881 BT	4	45 GARST/8464	10
6 CARGILL/5320 BT	7	46 GARST/8590IT	8
7 CARGILL/6920 BT	8	47 GARST/8647	4,7
8 DEKALB/DK440	1	48 GARST/8530BT	8,9
9 DEKALB/DK389BTY	1	49 GARST/N7543	8,9
10 DEKALB/DK507	2,5	50 GARST/N8448	9
11 DEKALB/DK537	6	51 GARST/7477IT	10
12 DEKALB/DK595BTY	9	52 GARST/N9525BT	8,9
13 DEKALB/DKC42-22	1	53 GARST/N7734	4,6
14 DEKALB/DKC39-45	1	54 GARST/N9734	4,6
15 DEKALB/DKC44-42	3,5	55 GARST/8790BT	2,3,5
16 DEKALB/DKC46-26	2,3,5	56 GARST/8766IT	2,3,5
17 DEKALB/DKC47-72	2,3,5	57 GARST/8801IT	1,3
18 DEKALB/DKC48-83	3,5	58 WILSON/1664	8,10
19 DEKALB/DKC49-92	2,3,5	59 WILSON/1464	8,9
20 DEKALB/DKC53-32	4,7	60 WILSON/1475PT	8,9
21 DEKALB/DKC57-38	4,8,9	61 WILSON/1364	7,9
22 MALLARD/UC-2682	6	62 WILSON/E0618	8,9
23 MALLARD/UC-2652	5	63 WILSON/E9503BT	8,9
24 MALLARD/UC-X2415	1	64 TOP FARM/TFSX 2108	9
25 MALLARD/UC-X2440	2	65 TOP FARM/TFSX 2201	2,5
26 DAIRYLAND/STEALTH-1401	5	66 TOP FARM/TFSX 105BT	4,6,9
27 DAIRYLAND/STEALTH-1496	1	67 TOP FARM/TFSX 2107	9
28 DAIRYLAND/STEALTH-1410	9	68 TOP FARM/TFSX 7191BT	1
29 DAIRYLAND/STEALTH-1507	8,9	69 TOP FARM/TFSX 2295	1,5
30 DAIRYLAND/STEALTH-1493	1	70 TOP FARM/TFSX 7196BT	2,3,5
31 DAIRYLAND/STEALTH-1596	1,3	71 TOP FARM/TFSX 2299	2,3,5
32 DAIRYLAND/STEALTH-1498	3	72 TOP FARM/TFSX 2203	2,4,6
33 DAIRYLAND/STEALTH-1502	5	73 TOP FARM/TFSX 7202BT	4,6,9
34 DAIRYLAND/STEALTH-1606	7	74 KAYSTAR/KX-777	8,9
35 DAIRYLAND/STEALTH-1496BT	2	75 KAYSTAR/X9941	1
36 DAIRYLAND/STEALTH-1609	8,9	76 KAYSTAR/X9973	2,3,5
37 DAIRYLAND/STEALTH-1401BT	3	77 KAYSTAR/KX-625BT	4
38 SANDS/SOI 9126	8,10	78 KAYSTAR/X0031	4,6
39 ASGROW/RX393	5	79 KAYSTAR/X9042	6,7
40 ASGROW/RX393YG	1,3,5	80 KAYSTAR/X9055	4,6

Table D (continued).

No. Brand / Hybrid	Table No.	No. Brand / Hybrid	Table No.
81 KAYSTAR/KX-787	10	121 KRUGER/K-9104	2,4,6
82 KAYSTAR/X0121	8,10	122 KRUGER/EX-106	4
83 KALTENBERG/K5808	9	123 KRUGER/K-9106BT	4,6,7
84 KALTENBERG/K4848BT	2	124 KRUGER/EX-106BT	4,7
85 KALTENBERG/K3456	1	125 KRUGER/EX-109	4,6,7
86 KALTENBERG/K2727BT	1	126 KRUGER/K-9109BT	4,6,7
87 KALTENBERG/K4606	2,5	127 KRUGER/K-9108	6,7
88 KALTENBERG/K4707	2,5	128 KRUGER/K-9111	8,9
89 KALTENBERG/K5123	6	129 KRUGER/EX-111BT	8
90 KALTENBERG/K5151BT	6	130 KRUGER/K-9011	8,9
91 KALTENBERG/K6179	9	131 KRUGER/K-9614B	8,9
92 LG SEEDS/LG 2583	9	132 KRUGER/K-9013	8,9
93 LG SEEDS/LG 2512	6,7	133 KRUGER/K-9013BT	8,9
94 LG SEEDS/LG 2484	2	134 KRUGER/K-9914	8,10
95 LG SEEDS/LG 2533	8	135 KRUGER/K-9115A	10
96 LG SEEDS/LG 2521	4	136 KRUGER/K-9013+BT	8,9
97 LG SEEDS/LG 2488	2,3	137 KRUGER/K-9113	9
98 LG SEEDS/LG 2500BT	5	138 KRUGER/K-9114	10
99 KRUGER/K-9614A	9	139 KRUGER/K-9115	10
100 KRUGER/K-9802A	3,5	140 JACOBSEN/JS56	8,10
101 KRUGER/K-9912	8,9	141 JACOBSEN/JS4685	8,9
102 KRUGER/K-9908BT	6,7	142 JACOBSEN/JS4205BT	7
103 KRUGER/EX-2096	1	143 JACOBSEN/JS4785BT	8,10
104 KRUGER/K-9002	1,3	144 JACOBSEN/JS4645BT	8,9
105 KRUGER/K-9898+	1	145 JACOBSEN/JS4283	7
106 KRUGER/K-9002BT	2,3,5	146 JACOBSEN/JS4145	7
107 KRUGER/K-9903BT	2,5	147 JACOBSEN/JS4341	7,9
108 KRUGER/EX-104	2	148 JACOBSEN/JS4583	8,9
109 KRUGER/K-9910BT	6,8,9	149 JACOBSEN/JS4685BT	8,9
110 KRUGER/K-9008	4,6,7	150 PAYCO/468	1
111 KRUGER/K-9010BT	8,9	151 NC+/4880	9
112 KRUGER/K-9410BT	8	152 NC+/1320	1
113 KRUGER/K-9614ABT	8,9	153 NC+/1550	3
114 KRUGER/K-9014BT	8,10	154 NC+/2300	4
115 KRUGER/EX-87BT	1,3,5	155 NC+/4649B	10
116 KRUGER/EX-092	1	156 HOEGEMEYER/2593	7
117 KRUGER/K-9802BT	2,3,5	157 HOEGEMEYER/2609	8,9
118 KRUGER/K-9103	2,3,5	158 HOEGEMEYER/2649	8,10
119 KRUGER/K-9002+	2,3,5	159 HOEGEMEYER/2598	7,9
120 KRUGER/K-9105	2,4,6	160 HOEGEMEYER/2571	7

Table D (continued).

No.	Brand / Hybrid	Table No.	No.	Brand / Hybrid	Table No.
161	HOEGEMEYER/2601	8,9	201	WENSMAN/W 5088 BT	1
162	HOEGEMEYER/2659	10	202	WENSMAN/W 5258 BT	1,3,5
163	HOEGEMEYER/2666	10	203	WENSMAN/W 5319 BT	2,3,5
164	EPLEY/E2422	6,8,9	204	WENSMAN/W 5329 BT	2,3,5,7,9
165	EPLEY/E3608	8,10	205	WENSMAN/W 5359 BT	4,6,7,9
166	EPLEY/E1160	2,5	206	WENSMAN/W 4379	4,6,7,9
167	EPLEY/E1460	2,6,7	207	DENBESTEN/DB2890	1,3,5
168	EPLEY/E3620	8,10	208	DENBESTEN/DB2702	2,4,6,7
169	EPLEY/E1510BT	6,7,9	209	DENBESTEN/DB2611	8,10
170	EPLEY/E1470BT	2,6,7,9	210	DENBESTEN/DB2985	1,3,5
171	EPLEY/E3610BT	8,10	211	DENBESTEN/DB2904	2,4,6,7
172	EPLEY/E1027	1,5	212	DENBESTEN/DB2905BT	2,4,6,7,9
173	EPLEY/E1130	1,5	213	DENBESTEN/DB2902BT	2,4,6,7
174	EPLEY/E2433	6,8	214	DENBESTEN/DB2011BT	8,10
175	MUSTANG/503	2,3,5	215	DENBESTEN/DB2912BT	8,10
176	MUSTANG/3090	1	216	DENBESTEN/DB2085BT	1,3,5
177	MUSTANG/402	1,5	217	DENBESTEN/DB2090BT	1,3,5
178	MUSTANG/7110	9	218	DENBESTEN/DB2099BT	2,3,5,7
179	MUSTANG/7210	9	219	DENBESTEN/DB2106	4,6,7,9
180	MUSTANG/5103BT	6	220	DENBESTEN/DB2009	8,9
181	MUSTANG/4103BT	1,5	221	DENBESTEN/DB2212	8,10
182	MUSTANG/6464	4,6,9	222	DENBESTEN/DB2015	10
183	MUSTANG/5353	2,4,6	223	US SEEDS/US C909	1
184	MUSTANG/7105BT	9	224	US SEEDS/US C969	2,3
185	MYCOGEN/2725	8,10	225	US SEEDS/US C1009	3,5
186	MYCOGEN/2620	6,7,9	226	US SEEDS/US C1059	7,9
187	MYCOGEN/2424	1	227	US SEEDS/US C1099	8,9
188	MYCOGEN/2525	2,3,5	228	US SEEDS/US C1029BT	6,7
189	MYCOGEN/2566	2,4,6,7	229	US SEEDS/US C1109BT	8,9
190	MYCOGEN/2652	6,8,9	230	US SEEDS/US E871	1
191	MYCOGEN/2657	6,8,9	231	US SEEDS/US E971	2,3
192	MYCOGEN/2799IMI	10	232	US SEEDS/US C980	3,5
193	MYCOGEN/2249IMI	1	233	US SEEDS/US C1030	4,6
194	MYCOGEN/2544IMI	2,3,5	234	SEEDS 2000/3101	2,3,5
195	MYCOGEN/2717IMI	8,9	235	SEEDS 2000/3121BT	2,4,6
196	MYCOGEN/2722IMI	8,10	236	SEEDS 2000/2942BT	1,3,5
197	MYCOGEN/2767	8,10	237	SEEDS 2000/2951BT	2,3,5
198	MYCOGEN/2833	10	238	SEEDS 2000/2981	2,3,5
199	WENSMAN/MAX 007	1,3,5	239	SEEDS 2000/X3161BT	7
200	WENSMAN/MAX 127	1,3,5	240	HEINE/H840	10

Table D (continued).

No. Brand / Hybrid	Table No.	No. Brand / Hybrid	Table No.
241 HEINE/H825	10		
242 HEINE/H821	9		
243 HEINE/H790	9		
244 HEINE/H765	9		
245 HEINE/H850	10		
246 HEINE/H835	10		
247 HEINE/H775	9		
248 HEINE/H852	10		
249 DAHLCO/X-8054	9		
250 DAHLCO/2660	9		
251 DAHLCO/2472	2,5		
252 DAHLCO/X-8002	5		
253 DAHLCO/X-8011	6		
254 DAHLCO/2394	1		
255 DAHLCO/X-8891	1		
256 GOLD COUNTRY/8500	1		
257 GOLD COUNTRY/9200	1		
258 GOLD COUNTRY/9500	1,5		
259 GOLD COUNTRY/X69898	5		
260 GOLD COUNTRY/X49896	5		
261 GOLD COUNTRY/X69804BT	9		
262 GOLD COUNTRY/X60002	9		
263 GOLD COUNTRY/X39704	9		
264 DAKOTA/TR810	1		

Table E. 2000 corn performance trials—Roundup Ready hybrids by brand/hybrid and yield table number.

No. Brand / Hybrid	Table No.	No. Brand / Hybrid	Table No.
1 ASGROW/RX601RR/YG	13	24 MUSTANG/5002RR	11
2 ASGROW/RX489RR	11	25 MUSTANG/6005RR	12,13
3 ASGROW/RX592RR	13	26 MUSTANG/4002RR	11
4 TOP FARM/TFSX 8103RR	11	27 DENBESTEN/DB2012RR	12,13
5 TOP FARM/TFSX 8201RR	11	28 DENBESTEN/DB2002RR	11
6 TOP FARM/TFSX 8105RR	12,13	29 DENBESTEN/DB2195RR	11
7 KAYSTAR/KX-6200RR	11	30 DENBESTEN/DB2002RRBT	12,13
8 KAYSTAR/KX-7700RR	12,13	31 DENBESTEN/DB2004RR	12,13
9 KAYSTAR/KX-5700RR	11	32 DENBESTEN/DB2005RR	12,13
10 KAYSTAR/KX-7770RR	13	33 US SEEDS/US C1009RR	11
11 KRUGER/K-9199RR	11	34 US SEEDS/US C1079RR	13
12 KRUGER/K-9199RRBT	11,13	35 US SEEDS/US C1119RR	13
13 KRUGER/K-9102RR	11,13	36 US SEEDS/US C1139RR	13
14 KRUGER/K-9913RRBT	12,13	37 US SEEDS/US E981RR	11
15 KRUGER/EX-112RR	12,13	38 US SEEDS/US E1041RR	12
16 KRUGER/K-9912RR	12,13	39 US SEEDS/US E1091RR	13
17 JACOBSEN/J4256RR	12	40 SEEDS 2000/3102RR	11
18 JACOBSEN/J4655RR	13	41 SEEDS 2000/2980RR/BT	11
19 JACOBSEN/J4753RR	13	42 SEEDS 2000/3104RR	12
20 EPLEY/E-1485RR	11,13	43 SEEDS 2000/X3191RR	13
21 EPLEY/E-14R85BT	12,13	44 DAHLCO/2475RR	11
22 EPLEY/E-1515RR	12,13	45 DAHLCO/2541	11
23 EPLEY/E3615RR	12,13		

Table F. Seed company addresses and telephone numbers for 2000.

Company	Brand Name	Address	City and State	Zip	Phone Number
Cargill Hybrid Seeds	Cargill	PO Box 5645	Minneapolis, MN	55440	612-984-8040
Dahlco Seeds	Dahlco	14730 15Th St SW	Cokato, MN	55321	320-286-5982
Dairyland Seeds	Stealth	PO Box 958	West Bend, WI	53095-0958	414-338-0163
Dakota Brand Seed	Dakota	405 5Th St SE	Watertown, SD	57201	605-881-4369
Den Besten Seed Co.	Den Besten	Box 896	Platte, SD	57369	605-337-3318
Domestic Seed & Supply Inc.	Mustang	Box 466	Madison, SD	57042	605-256-6529
Epley Brothers Hybrids Inc.	Epley	PO Box 310	Shell Rock, IA	50677	319-885-6293
Garst Seed Co.	Garst	PO Box 647	Brandon, SD	57005	605-582-2777
Gold Country Seed	Gold Country	PO Box 604	Hutchinson, MN	55350-0604	800-795-8544
Heine Seedcorn	Heine	1020 E 320Th St	Vermillion, SD	57069	605-624-3414
Hoegemeyer Hybrids	Hoegemeyer	1755 Hoegemeyer Rd	Hooper, NE	68031	402-654-3399
Jacobsen Hybrid Corn Co.	Jacobsen	109 9Th St	Lake View, IA	51450-0379	800-761-1024
Kaltenberg Seeds	Kaltenberg	5506 State Hwy 19	Waunakee, WI	53597	608-849-5021
Kaystar Seeds	Kaystar	PO Box 947	Huron, SD	57350	605-352-8791
Kruger Seed Company	Kruger	Hwy 20 East, Box A	Dike, IA	50624	319-989-2414
LG Seeds	LG Seeds	1620 Hwy 10	Gibbon, NE	68840	308-234-4800
Mallard Seed Co. Inc.	Mallard	PO Box 637	Plainview, MN	55964	507-534-2300
Monsanto Global Seed Grp.	Asgrow	3100 Sycamore Rd	Dekalb, IL	60115	815-758-9323
Monsanto Global Seed Grp.	Dekalb	3100 Sycamore Rd	Dekalb, IL	60115	815-758-9323
Mycogen Seeds	Mycogen	1340 Corp.Ctr.Curve	Eagan, MN	55121-1233	515-597-3284
NC+ Hybrids	NC+	Box 4408	Lincoln, NE	68504	402-467-2517
Sand Seed Service Inc.	SOI	PO Box 648	Marcus, IA	51035	712-376-4135
Seeds 2000	Seeds 2000	Box 200	Breckenridge, MN	56520	218-643-2410
Top Farm Hybrids	Top Farm	Box 850	Cokato, MN	55321	320-286-5516
United suppliers Inc.	U.S. Seeds	PO Box 538	Eldora, IA	50627-0538	515-858-2341
Wensman Seed Company	Wensman	PO Box 190	Wadena, MN	56482	218-631-2954
Wilson Genetics, L.L.C.	Wilson	PO Box 391	Harlan, IA	51537	712-755-3841

Table 1. Watertown early corn hybrid results, 1999-2000, NE Research Farm. Test relative maturity is 95-day or less.

Brand / Hybrid	----- 2000 -----					
	Yield - bu/a (15.5% moist) 2-yr 2000		Grain moist pct	Bushe ^l weight lb	Green snap pct	Stk.Ldg. below ear pct
	----- Entries tested two years -----					
KRUGER/EX-2096	165	153	17	54	0	0
MUSTANG/3090	154	133	14	52	0	0
DEKALB/DK440	151	123	13	52	0	0
KRUGER/K-9002	151	128	15	53	0	0
MUSTANG/402	150	126	15	51	0	0
DAIRYLAND/STEALTH-1493	148	128	15	55	0	0
WENSMAN/MAX 007	147	133	17	55	0	0
WENSMAN/MAX 127	147	124	15	57	0	1
DENBESTEN/DB2890	145	114	13	51	0	0
PAYCO/468	145	128	14	53	0	0
MYCOGEN/2424	144	123	15	56	0	0
DEKALB/DK389BTY	142	118	14	57	0	0
WENSMAN/W 5258 BT	142	124	13	56	0	0
WENSMAN/W 5088 BT	140	122	14	56	0	0
DAIRYLAND/STEALTH-1496	139	116	16	50	0	0
KRUGER/K-9898+	137	106	14	54	0	1
US SEEDS/US C909	133	108	15	56	0	1
DENBESTEN/DB2985	125	103	13	57	0	0
	----- Entries tested one year -----					
TOP FARM/TFSX 2295	*	131	15	53	0	3
DEKALB/DKC39-45	*	131	15	56	0	0
DEKALB/DKC42-22	*	128	15	55	0	0
GARST/8801IT	*	127	15	51	0	1
ASGROW/RX393YG	*	127	15	54	0	1
KRUGER/EX-87BT	*	126	15	55	0	0
EPLEY/E1027	*	124	14	56	0	0
EPLEY/E1130	*	123	14	55	0	0
KALTENBERG/K3456	*	122	14	55	0	0
KAYSTAR/X9941	*	121	14	54	0	1

Table 1 (continued).

Brand / Hybrid	----- 2000 -----					
	Yield - bu/a (15.5% moist) 2-yr 2000		Grain moist pct	Bushel weight lb	Green- snap pct	Stk.Ldg. below ear pct
NC+/1320	*	120	15	54	0	1
GOLD COUNTRY/9200	*	116	14	53	0	0
MUSTANG/4103BT	*	116	16	50	0	0
KRUGER/EX-092	*	116	15	55	0	0
DENBESTEN/DB2085BT	*	116	18	52	0	0
MYCOGEN/2249IMI	*	114	14	57	0	0
DAIRYLAND/STEALTH-1596	*	114	13	54	0	1
DAHLC0/X-8891	*	113	14	55	0	0
DAHLC0/2394	*	112	13	53	0	1
KALTENBERG/K2727BT	*	112	14	53	0	0
SEEDS 2000/2942BT	*	109	22	53	0	1
TOP FARM/TFSX 7191BT	*	108	13	51	0	1
MALLARD/UC-X2415	*	108	14	56	0	0
US SEEDS/US E871	*	102	13	57	0	0
GOLD COUNTRY/9500	*	100	15	52	0	0
GOLD COUNTRY/8500	*	91	13	51	0	1
DENBESTEN/DB2090BT	*	89	13	50	0	1
DAKOTA/TR810	*	88	15	53	0	0
Test average:	145	118	15	54	0	0
LSD (5%) value:	15	18	2	2		
Min. top-yield value*:	150	135				
Coef. of variation#:	8	10				

* Top yield - within one LSD value of highest yield.

Measure of experimental error: values of < 15% are desired.

Table 2. Watertown late corn hybrid results, 1999-2000, NE Research Farm. Test relative maturity is 96-day or more.

Brand / Hybrid	----- 2000 -----					Stk.Ldg. below ear pct
	Yield - bu/a (15.5% moist)		Grain moist pct	Bushe1 weight lb	Green snap pct	
	2-yr	2000				
	Entries tested two years					
US SEEDS/US C969	142	144	17	52	0	0
MYCOGEN/2525	139	133	16	52	0	0
KRUGER/K-9903BT	137	125	19	52	0	1
DEKALB/DK507	137	132	16	54	0	1
MYCOGEN/2566	132	126	18	52	0	0
KRUGER/K-9002BT	131	127	14	53	0	1
SEEDS 2000/3101	130	132	15	52	0	0
WENSMAN/W 5329 BT	130	125	19	55	0	1
DENBESTEN/DB2902BT	129	133	19	50	0	0
KRUGER/EX-104	128	121	23	49	0	0
DENBESTEN/DB2904	128	120	25	48	0	0
SEEDS 2000/3121BT	128	124	21	49	0	0
LG SEEDS/LG 2484	127	118	17	51	0	0
TOP FARM/TFSX 2201	126	127	17	50	0	0
EPLEY/E1160	125	121	16	51	0	1
EPLEY/E1470BT	123	118	20	49	0	0
DENBESTEN/DB2702	122	119	19	50	0	1
DENBESTEN/DB2905BT	122	120	18	52	0	2
WENSMAN/W 5319 BT	120	117	17	54	0	0
	Entries tested one year					
DEKALB/DKC46-26	*	140	15	55	0	0
KALTENBERG/K4707	*	139	17	52	0	0
GARST/8766IT	*	132	18	55	0	0
US SEEDS/US E971	*	130	15	52	0	0
MYCOGEN/2544IMI	*	130	20	51	0	0
KRUGER/K-9802BT	*	128	21	51	0	0
EPLEY/E1460	*	126	19	52	0	0
KALTENBERG/K4606	*	124	14	53	0	0
DAHLCO/2472	*	123	16	52	0	1
KRUGER/K-9105	*	123	18	49	0	1

Table 2 (continued).

Brand / Hybrid	----- 2000 -----					
	Yield - bu/a (15.5% moist) 2-yr 2000		Grain moist pct	Bushe ^l weight lb	Green- snap pct	Stk.Ldg. below ear pct
LG SEEDS/LG 2488	*	123	16	54	0	0
MALLARD/UC-X2440	*	122	15	51	0	1
DEKALB/DKC47-72	*	122	17	52	0	0
MUSTANG/503	*	122	19	50	0	0
GARST/8790BT	*	122	17	52	0	1
DEKALB/DKC49-92	*	122	18	52	0	1
KALTENBERG/K4848BT	*	121	16	50	0	1
ASGROW/RX452YG	*	121	24	52	0	0
DAIRYLAND/STEALTH-1496B	*	121	18	49	0	0
KAYSTAR/X9973	*	119	15	54	0	1
DENBESTEN/DB2099BT	*	119	22	48	0	3
KRUGER/K-9002+	*	114	16	49	0	0
SEEDS 2000/2981	*	113	16	50	0	0
MUSTANG/5353	*	113	15	50	0	0
TOP FARM/TFSX 2203	*	113	18	51	0	0
TOP FARM/TFSX 2299	*	111	14	54	0	2
KRUGER/K-9103	*	110	14	49	0	0
TOP FARM/TFSX 7196BT	*	109	15	50	0	0
SEEDS 2000/2951BT	*	107	17	49	0	0
KRUGER/K-9104	*	88	13	50	0	0
Test average:	129	122	17	51	0	0
LSD (5%) value:	12	11	2	2		
Min. top-yield value*:	130	133				
Coef. of variation#:	8	6				

* Top yield - within one LSD value of highest yield.

Measure of experimental error: values of < 15% are desired.

Table 3. Frankfort no-till early corn hybrid results, 1999-2000, Steve Masat farm. Test relative maturity is 100-day or less.

Brand / Hybrid	----- 2000 -----					
	Yield - bu/a		Grain	Bushel	Green	Stk.Ldg.
	(15.5% moist)		moist	weight	snap	below
	2-yr	2000	pct	lb	pct	ear
						pct

	Entries tested two years					
SEEDS 2000/3101	174	176	19	54	2	0
KRUGER/K-9802A	159	156	18	58	9	0
MUSTANG/503	152	149	19	57	23	0
KRUGER/K-9002	151	179	16	57	9	0
MYCOGEN/2525	142	168	16	57	2	4
KRUGER/K-9002BT	142	184	17	56	5	0
WENSMAN/MAX 127	137	156	18	59	7	0
WENSMAN/W 5258 BT	136	136	15	59	31	1
DENBESTEN/DB2890	126	150	15	58	13	0
DENBESTEN/DB2985	123	136	13	61	23	0
US SEEDS/US C1009	121	159	17	56	13	0
WENSMAN/MAX 007	115	151	15	59	10	0

	Entries tested one year					
KRUGER/K-9002+	.	186	15	57	1	0
DEKALB/DKC44-42	.	180	15	55	7	0
ASGROW/RX393YG	.	178	15	56	1	0
KAYSTAR/X9973	.	175	16	58	1	1
DEKALB/DKC49-92	.	172	18	55	6	0
KRUGER/K-9802BT	.	171	19	54	8	0
GARST/8790BT	.	170	19	56	12	1
ASGROW/RX452YG	.	169	19	57	2	0
TOP FARM/TFSX 2299	.	167	19	57	2	0
LG SEEDS/LG 2488	.	167	20	55	2	3
DEKALB/DKC46-26	.	163	15	58	7	0
GARST/8766IT	.	162	18	59	10	0
DEKALB/DKC47-72	.	160	16	57	10	0
SEEDS 2000/2981	.	158	17	55	18	0
DAIRYLAND/STEALTH-1498	.	158	19	54	13	0
US SEEDS/US E971	.	158	15	56	10	0
KRUGER/EX-87BT	.	155	15	58	11	0
US SEEDS/US C980	.	155	18	58	13	0
GARST/8801IT	.	154	17	55	17	0
DAIRYLAND/STEALTH-1596	.	153	15	58	11	0

Table 3 (continued).

Brand / Hybrid	----- 2000 -----					
	Yield - bu/a (15.5% moist) 2-yr 2000		Grain moist pct	Bushel weight lb	Green- snap pct	Stk.Ldg. below ear pct
MYCOGEN/2544IMI	*	153	18	56	18	0
SEEDS 2000/2942BT	*	153	23	58	4	3
NC+/1550	*	152	16	57	12	0
DAIRYLAND/STEALTH-1401B	*	151	18	54	12	0
DENBESTEN/DB2085BT	*	150	14	57	1	0
US SEEDS/US C969	*	149	16	56	8	0
DEKALB/DKC48-83	*	147	17	57	23	0
WENSMAN/W 5319 BT	*	147	16	57	22	0
WENSMAN/W 5329 BT	*	144	18	58	27	1
CARGILL/2521 BT	*	137	13	59	18	0
DENBESTEN/DB2099BT	*	124	18	54	28	0
DENBESTEN/DB2090BT	*	121	14	56	29	0
KRUGER/K-9103	*	111	16	55	43	0
SEEDS 2000/2951BT	*	103	15	55	43	1
TOP FARM/TFSX 7196BT	*	95	14	56	48	0
Test average:	140	154	17	57	14	0
LSD (5%) value:		18	2	2		
Min. top-yield value*:		168				
Coef. of variation#:	8	7				

* Top yield - within one LSD value of highest yield.

~ Rankings of hybrid yields in 1999 were so different from those in 2000 that two-year hybrid yield differences could not be detected.

Measure of experimental error: values of < 15% are desired.

Table 4. Frankfort no-till late corn hybrid results, 1999-2000, Steve Masat farm. Test relative maturity is 101-day or more.

Brand / Hybrid	----- 2000 -----					Stk.Ldg. below ear pct
	Yield - bu/a (15.5% moist)		Grain moist pct	Bushel weight lb	Green snap pct	
	2-yr	2000				
----- Entries tested two years -----						
KRUGER/K-9008	180	171	19	55	4	0
MYCOGEN/2566	168	155	19	53	6	1
SEEDS 2000/3121BT	150	143	20	54	24	0
DENBESTEN/DB2902BT	146	134	19	55	28	0
DENBESTEN/DB2702	146	133	19	54	23	1

CARGILL/4021 BT	145	165	18	58	6	0
DENBESTEN/DB2904	142	123	22	53	20	5
DENBESTEN/DB2905BT	135	175	19	57	9	0
TOP FARM/TFSX 105BT	127	174	21	54	10	0
----- Entries tested one year -----						
KRUGER/K-9104	*	173	18	56	1	1
DEKALB/DKC57-38	*	171	22	54	5	0
CARGILL/4521 BT	*	164	18	55	8	2
KAYSTAR/X9055	*	164	20	54	3	0
GARST/N7734	*	158	19	54	5	3

CARGILL/3881 BT	*	158	21	50	1	2
DEKALB/DKC53-32	*	157	22	52	8	1
DENBESTEN/DB2106	*	155	25	53	10	1
GARST/N9734	*	154	22	54	13	1
KRUGER/EX-106	*	153	23	53	12	4

KRUGER/EX-106BT	*	151	23	53	8	1
WENSMAN/W 5359 BT	*	150	22	53	2	11
NC+/2300	*	150	19	54	10	1
WENSMAN/W 4379	*	150	23	53	11	1
TOP FARM/TFSX 7202BT	*	149	25	50	6	2

ASGROW/RX634	*	146	20	54	12	0
KRUGER/K-9106BT	*	142	20	54	24	5
TOP FARM/TFSX 2203	*	141	19	54	15	0
KAYSTAR/KX-625BT	*	140	21	53	18	1
KAYSTAR/X0031	*	140	22	55	8	7

Table 4 (continued).

Brand / Hybrid	Yield - bu/a (15.5% moist)		Grain moist pct	Bushel weight lb	----- 2000 -----		Stk.Ldg. below ear pct
	2-yr	2000			Green- snap pct		
ASGROW/RX508YG	+	140	21	51	9		0
MUSTANG/6464	+	138	24	53	8		1
LG SEEDS/LG 2521	+	138	24	49	4		1
KRUGER/K-9105	+	137	17	53	23		1
MUSTANG/5353	+	133	19	51	23		1
US SEEDS/US C1030	+	133	20	52	22		2
KRUGER/EX-109	+	110	24	49	31		0
KRUGER/K-9109BT	+	109	21	51	33		0
GARST/8647	+	108	21	53	42		0
Test average:	149	147	21	53	13		1
LSD (5%) value:	+	22	2	2			
Min. top-yield value*:	+	152					
Coef. of variation#:	10	9					

* Top yield - within one LSD value of highest yield.

~ Rankings of hybrid yields in 1999 were so different from those in 2000 that two-year hybrid yield differences could not be detected.

NS indicates values within a column are not significantly different.

Measure of experimental error: values of < 15% are desired.

Table 5. Brookings early corn hybrid results, 1999-2000, SDSU Agronomy Farm. Test relative maturity is 100-day or less.

Brand / Hybrid	----- 2000 -----					Stk.Ldg. below ear pct
	Yield - bu/a (15.5% moist)		Grain moist pct	Bushel weight lb	Green snap pct	
	2-yr	2000				
	Entries tested two years					
KRUGER/K-9903BT	179	195	18	58	0	0
WENSMAN/MAX 127	178	185	18	59	0	0
MUSTANG/503	176	171	17	56	0	0
SEEDS 2000/3101	175	179	16	56	0	0
MYCOGEN/2525	175	190	16	57	0	1
KRUGER/K-9002BT	175	190	16	58	0	0
ASGROW/RX393	173	175	15	57	0	0
DEKALB/DK507	172	180	17	58	0	0
MUSTANG/402	169	175	14	56	0	1
WENSMAN/MAX 007	169	172	16	60	0	1
DAIRYLAND/STEALTH-1401	168	176	18	56	0	0
KRUGER/K-9802A	168	176	18	56	0	0
WENSMAN/W 5258 BT	168	173	15	60	0	0
US SEEDS/US C1009	164	175	16	55	0	0
EPLEY/E1160	163	174	14	56	0	0
DENBESTEN/DB2890	160	179	14	55	0	0
TOP FARM/TFSX 2201	157	183	14	57	0	0
DENBESTEN/DB2985	152	159	14	60	0	0
	Entries tested one year					
DEKALB/DKC48-83	*	196	17	56	0	0
GOLD COUNTRY/X49896	*	193	16	57	0	0
TOP FARM/TFSX 2295	*	193	16	57	0	0
DEKALB/DKC44-42	*	192	16	55	0	0
GARST/8766IT	*	190	16	59	0	1
DEKALB/DKC46-26	*	189	15	58	0	0
EPLEY/E1130	*	189	16	57	0	1
KALTENBERG/K4707	*	189	16	58	0	1
MYCOGEN/2544IMI	*	188	18	58	0	0
DAHLCO/X-8002	*	187	16	55	0	0
DEKALB/DKC49-92	*	186	17	57	0	0
KRUGER/K-9802BT	*	186	18	56	0	0
ASGROW/RX393YG	*	186	14	56	0	0
WENSMAN/W 5329 BT	*	185	19	58	0	0
KRUGER/K-9002+	*	185	16	56	0	1

Table 5 (continued).

Brand / Hybrid	----- 2000 -----					
	Yield - bu/a (15.5% moist) 2-yr 2000		Grain moist pct	Bushel weight lb	Green- snap pct	Stk.Ldg. below ear pct
DEKALB/DKC47-72	.	182	17	58	0	0
TOP FARM/TFSX 2299	.	182	15	58	0	0
GOLD COUNTRY/X69898	.	181	15	60	0	0
GARST/8790BT	.	181	17	57	0	0
WENSMAN/W 5319 BT	.	181	17	58	0	0
ASGROW/RX452YG	.	180	18	58	0	0
KAYSTAR/X9973	.	180	16	58	0	1
SEEDS 2000/2942BT	.	180	21	58	0	1
US SEEDS/US C980	.	178	18	59	0	0
DAIRYLAND/STEALTH-1502	.	178	16	56	0	0
KALTENBERG/K4606	.	178	16	56	0	1
DENBESTEN/DB2099BT	.	175	17	55	0	0
SEEDS 2000/2981	.	175	15	55	0	0
MUSTANG/4103BT	.	175	14	53	0	0
MALLARD/UC-2652	.	172	16	59	0	0
DAHLCO/2472	.	172	14	56	0	0
LG SEEDS/LG 2500BT	.	170	17	56	0	0
TOP FARM/TFSX 7196BT	.	169	15	55	0	1
KRUGER/EX-87BT	.	168	16	59	0	0
GOLD COUNTRY/9500	.	166	14	58	0	0
KRUGER/K-9103	.	165	13	54	0	1
SEEDS 2000/2951BT	.	163	15	55	0	0
EPLEY/E1027	.	158	15	58	0	0
DENBESTEN/DB2085BT	.	157	15	56	0	0
DENBESTEN/DB2090BT	.	150	12	54	0	0
Test average:	169	179	16	57	0	0
LSD (5%) value:	21	13	2	2		
Min. top-yield value*:	158	183				
Coef. of variation#:	5	5				

* Top yield - within one LSD value of highest yield.

Measure of experimental error: values of < 15% are desired.

Table 6. Brookings late corn hybrid results, 1999-2000, SDSU Agronomy Farm. Test relative maturity is 101-day or more.

Brand / Hybrid	----- 2000 -----					
	Yield - bu/a		Grain	Bushel	Green	Stk.Ldg.
	2-yr	2000	moist	weight	snap	below
			pct	lb	pct	ear
						pct
	----- Entries tested two years -----					
MYCOGEN/2652	194	205	20	53	0	0
KRUGER/K-9908BT	192	182	23	48	0	0
KRUGER/K-9910BT	192	182	24	51	0	1
DEKALB/DK537	191	194	21	54	0	0
LG SEEDS/LG 2512	187	187	21	55	0	0
US SEEDS/US C1029BT	186	197	18	54	0	0
MYCOGEN/2657	186	193	19	54	0	0
MYCOGEN/2620	185	190	19	56	0	1
DENBESTEN/DB2904	183	188	20	56	0	0
EPLEY/E2422	183	188	17	54	0	0
TOP FARM/TFSX 105BT	183	197	19	55	0	0
KRUGER/K-9008	182	191	19	55	0	0
EPLEY/E1510BT	182	193	18	55	0	0
DENBESTEN/DB2905BT	181	191	18	55	0	0
EPLEY/E1470BT	180	189	18	56	0	0
MYCOGEN/2566	179	178	18	55	0	0
DENBESTEN/DB2702	179	188	17	55	0	0
MUSTANG/5103BT	175	181	18	55	0	0
SEEDS 2000/3121BT	172	184	19	55	0	0
EPLEY/E1460	172	185	18	56	0	0
DENBESTEN/DB2902BT	172	183	18	55	0	0
	----- Entries tested one year -----					
WENSMAN/W 4379		197	19	55	0	1
KAYSTAR/X9055		196	18	56	0	0
EPLEY/E2433		195	19	56	0	0
KAYSTAR/X0031		194	20	58	0	0
KALTENBERG/K5151BT		194	15	56	0	0
KRUGER/K-9108		194	18	54	0	0
KRUGER/K-9106BT		192	17	55	0	0
KRUGER/K-9109BT		190	18	54	0	0
KRUGER/EX-109		189	18	53	0	1
MUSTANG/6464		188	20	55	0	0

Table 6 (continued).

Brand / Hybrid	----- 2000 -----					
	Yield - bu/a (15.5% moist)		Grain	Bushel	Green-	Stk.Ldg.
	2-yr	2000	moist	weight	snap	below
			pct	lb	pct	ear
						pct
MALLARD/UC-2682	*	188	21	56	0	1
KRUGER/K-9104	*	188	16	56	0	0
KRUGER/K-9105	*	187	16	54	0	0
ASGROW/RX634	*	187	21	53	0	1
DENBESTEN/DB2106	*	186	22	56	0	0
KALTENBERG/K5123	*	185	16	55	0	0
GARST/N9734	*	180	17	54	0	0
GARST/N7734	*	179	18	54	0	0
MUSTANG/5353	*	178	17	53	0	0
US SEEDS/US C1030	*	178	18	53	0	1
TOP FARM/TFSX 7202BT	*	176	21	51	0	0
DAHLCO/X-8011	*	176	17	55	0	0
KAYSTAR/X9042	*	175	14	54	0	0
WENSMAN/W 5359 BT	*	172	20	55	0	0
ASGROW/RX508YG	*	172	18	53	10	0
TOP FARM/TFSX 2203	*	171	15	55	0	0
Test average:	183	187	19	55	0	0
LSD (5%) value:	19	12	2	1		
Min. top-yield value*:	175	193				
Coef. of variation#:	5	4				

* Top yield - within one LSD value of highest yield.

Measure of experimental error: values of < 15% are desired.

Table 7. Armour no-till early corn hybrid results, 1999-2000, Robert Clark farm. Test relative maturity is 105-day or less.

Brand / Hybrid	----- 2000 -----					Stk.Ldg.
	Yield - bu/a (15.5% moist)		Grain moist	Bushel weight	Green snap	below
	2-yr	2000	pct	lb	pct	ear pct
	----- Entries tested two years -----					
US SEEDS/US C1059	156	141	15	59	0	0
KRUGER/K-9908BT	153	146	16	54	0	0
DENBESTEN/DB2904	153	137	14	60	0	0
HOEGEMEYER/2598	153	139	16	58	0	0
HOEGEMEYER/2593	152	144	14	58	0	0
US SEEDS/US C1029BT	146	159	14	60	0	0
DENBESTEN/DB2702	144	126	13	60	0	0
MYCOGEN/2566	140	145	14	55	0	0
DENBESTEN/DB2902BT	140	140	14	59	0	0
EPLEY/E1460	139	140	14	59	0	1
KRUGER/K-9008	139	148	14	58	0	0
WENSMAN/W 5329 BT	138	141	15	63	0	0
EPLEY/E1510BT	137	149	14	59	0	0
EPLEY/E1470BT	135	140	14	59	0	1
WILSON/1364	134	143	16	60	0	0
CARGILL/4521 BT	131	140	14	60	0	0
MYCOGEN/2620	131	128	16	60	0	1
JACOBSEN/JS4205BT	130	139	15	59	0	0
DENBESTEN/DB2905BT	120	135	15	59	0	0
	----- Entries tested one year -----					
KRUGER/K-9108	.	158	15	59	0	0
LG SEEDS/LG 2512	.	152	15	60	0	0
DEKALB/DKC53-32	.	147	13	56	0	0
JACOBSEN/JS4283	.	147	16	58	0	0
SEEDS 2000/X3161BT	.	146	16	59	0	0
DAIRYLAND/STEALTH-1606	.	146	15	59	0	0
KRUGER/K-9109BT	.	144	15	57	0	0
KRUGER/K-9106BT	.	144	14	60	0	0
DENBESTEN/DB2106	.	142	15	60	0	0
GARST/8647	.	140	17	60	0	0

Table 7 (continued).

Brand / Hybrid	Yield - bu/a (15.5% moist)		Grain moist pct	Bushel weight lb	2000		Stk.Ldg. below ear pct
	2-yr	2000			Green- snap pct		
HOEGEMEYER/2571	•	140	14	59	0		0
KRUGER/EX-106BT	•	137	15	60	0		0
CARGILL/5320 BT	•	136	14	59	0		0
JACOBSEN/JS4341	•	136	16	60	0		0
ASGROW/RX508YG	•	133	15	57	7		0
KRUGER/EX-109	•	131	15	57	0		0
DENBESTEN/DB2099BT	•	127	13	57	0		1
JACOBSEN/JS4145	•	125	14	59	0		0
WENSMAN/W 4379	•	121	15	59	0		0
KAYSTAR/X9042	•	119	13	58	0		0
WENSMAN/W 5359 BT	•	115	17	60	0		0
Test average:	141	139	15	59	0		0
LSD (5%) value:	NS	21	1	2			
Min. top-yield value*:	120	138					
Coef. of variation#:	13	9					

* Top yield - within one LSD value of highest yield.

NS indicates values within a column are not significantly different.

Measure of experimental error: values of < 15% are desired.

Table 8. Armour late corn hybrid results, 1999-2000, Robert Clark farm. Test relative maturity is 106-day or more.

Brand / Hybrid	----- 2000 -----					Stk.Ldg. below ear pct
	Yield - bu/a (15.5% moist) 2-yr 2000		Grain moist pct	Bushe ^l weight lb	Green snap pct	
	Entries tested two years					
DENBESTEN/DB2912BT	179	168	20	56	0	0
KRUGER/K-9614ABT	175	163	20	56	0	0
KRUGER/K-9010BT	172	159	18	58	0	0
GARST/8590IT	171	167	17	58	0	0
EPLEY/E3620	167	153	17	57	0	0
EPLEY/E3608	167	154	19	58	0	0
JACOBSEN/JS4785BT	164	158	19	56	0	0
SANDS/SOI 9126	160	148	18	57	0	0
EPLEY/E3610BT	160	142	20	56	0	0
DENBESTEN/DB2611	160	145	19	56	0	0
WILSON/1664	158	151	19	57	0	0
MYCOGEN/2725	158	148	18	56	0	0
KRUGER/K-9410BT	158	139	18	59	0	0
WILSON/1464	156	152	17	60	0	0
JACOBSEN/JS56	155	130	18	55	0	0
KAYSTAR/KX-777	155	155	18	57	0	0
MYCOGEN/2657	154	138	17	58	0	0
HOEGEMEYER/2609	154	142	15	58	0	1
CARGILL/6521 BT	150	147	17	57	0	0
MYCOGEN/2652	146	143	16	55	0	0
US SEEDS/US C1099	144	146	18	57	0	0
DENBESTEN/DB2011BT	143	138	21	56	0	0
EPLEY/E2422	141	142	15	56	0	0
US SEEDS/US C1109BT	139	139	16	57	0	1
	Entries tested one year					
KRUGER/K-9914	.	168	21	56	0	1
KRUGER/K-9013	.	166	19	57	0	0
ASGROW/RX634	.	163	15	58	0	0
HOEGEMEYER/2649	.	163	17	59	0	0
KRUGER/EX-111BT	.	162	18	56	0	1
KRUGER/K-9013+BT	.	162	18	57	0	0
CARGILL/6920 BT	.	162	20	56	0	0
KRUGER/K-9014BT	.	161	20	57	0	0
KRUGER/K-9614B	.	160	19	55	0	0
GARST/8530BT	.	159	20	56	0	0

Table 8 (continued).

Brand / Hybrid	----- 2000 -----					
	Yield - bu/a (15.5% moist) 2-yr	2000	Grain moist pct	Bushe ^l weight lb	Green- snap pct	Stk.Ldg. below ear pct
DENBESTEN/DB2212	*	159	20	55	0	0
WILSON/E0618	*	158	20	56	0	0
EPLEY/E2433	*	156	15	58	0	0
MYCOGEN/2717IMI	*	155	19	56	0	0
JACOBSEN/JS4645BT	*	155	20	56	0	0
KRUGER/K-9111	*	154	18	57	0	0
KRUGER/K-9912	*	154	19	57	0	0
JACOBSEN/JS4685BT	*	153	18	57	0	0
WILSON/E9503BT	*	152	17	60	0	0
JACOBSEN/JS4583	*	152	17	57	0	0
WILSON/1475PT	*	151	19	57	0	0
DENBESTEN/DB2009	*	151	14	58	0	0
KRUGER/K-9011	*	151	18	58	0	0
GARST/N9525BT	*	151	18	57	0	1
DAIRYLAND/STEALTH-1507	*	150	17	56	0	0
KRUGER/K-9013BT	*	150	20	56	0	0
DEKALB/DKC57-38	*	148	16	59	0	0
KAYSTAR/X0121	*	146	19	57	0	0
MYCOGEN/2722IMI	*	146	21	57	0	0
DAIRYLAND/STEALTH-1609	*	145	17	57	0	0
JACOBSEN/JS4685	*	144	18	57	0	0
HOEGEMEYER/2601	*	140	16	58	0	0
MYCOGEN/2767	*	138	19	55	0	0
LG SEEDS/LG 2533	*	134	16	56	0	0
KRUGER/K-9910BT	*	122	19	57	0	0
GARST/N7543	*	115	18	56	0	0
Test average:	158	150	18	57	0	0
LSD (5%) value:	21	19	2	2		
Min. top-yield value*:	158	149				
Coef. of variation#:	7	8				

* Top yield - within one LSD value of highest yield.

Measure of experimental error: values of < 15% are desired.

Table 9. Beresford early corn hybrid results, 1999-2000, SE Research Farm. Test relative maturity is 110-day or less.

Brand / Hybrid	----- 2000 -----					
	Yield - bu/a		Grain	Bushel	Green	Stk.Ldg.
	(15.5% moist)		moist	weight	snap	below
	2-yr	2000	pct	lb	pct	ear
						pct

	Entries tested two years					
KRUGER/K-9010BT	179	179	13	59	0	1
TOP FARM/TFSX 2107	175	176	14	65	0	3
HEINE/H821	174	192	13	59	0	6
DAIRYLAND/STEALTH-1507	170	175	13	59	0	1
MYCOGEN/2652	170	181	12	58	0	3
DENBESTEN/DB2905BT	168	178	13	61	0	2
NC+/4880	166	182	13	60	0	1
KRUGER/K-9614ABT	165	183	14	60	0	0
MYCOGEN/2657	164	175	13	60	0	0
KRUGER/K-9614A	163	167	14	62	0	1
LG SEEDS/LG 2583	163	167	14	61	0	1
HEINE/H765	163	166	13	59	0	0
HEINE/H790	162	177	13	59	0	2
MUSTANG/7110	162	170	13	60	0	0
DEKALB/DK595BTY	161	170	13	60	0	2
US SEEDS/US C1099	161	155	13	60	0	1
DAIRYLAND/STEALTH-1410	161	154	14	61	0	0
TOP FARM/TFSX 2108	161	161	14	60	0	1
KALTENBERG/K5808	159	155	13	61	0	6
MUSTANG/7210	159	174	13	59	0	1
HOEGEMEYER/2609	158	163	13	59	0	0
KAYSTAR/KX-777	157	162	13	59	0	1
WILSON/1364	154	167	13	60	0	6
MYCOGEN/2620	153	140	13	60	0	0
WENSMAN/W 5359 BT	152	158	13	61	0	2
TOP FARM/TFSX 105BT	151	154	12	60	0	6
US SEEDS/US C1109BT	151	166	12	59	0	1
EPLEY/E1510BT	150	159	13	61	0	3
WENSMAN/W 5329 BT	150	155	14	61	0	1
HOEGEMEYER/2598	149	159	13	60	0	0

Table 9 (continued).

Brand / Hybrid	----- 2000 -----					Stk.Ldg. below ear pct
	Yield - bu/a (15.5% moist) 2-yr 2000		Grain moist pct	Bushel weight lb	Green- snap pct	
EPLEY/E1470BT	147	151	13	60	0	0
EPLEY/E2422	146	156	13	59	0	0
WILSON/1464	143	158	14	61	0	0
----- Entries tested one year -----						
KRUGER/K-9111	.	200	13	59	0	1
KRUGER/K-9013	.	200	14	59	0	1
KRUGER/K-9013BT	.	195	14	60	0	1
DAIRYLAND/STEALTH-1609	.	192	13	61	0	2
GARST/8530BT	.	189	14	61	0	0
GARST/N8448	.	188	13	59	0	0
KRUGER/K-9614B	.	188	14	61	0	4
KRUGER/K-9013+BT	.	187	13	60	0	1
JACOBSEN/JS4583	.	186	13	60	0	1
KRUGER/K-9912	.	185	14	62	0	3
WILSON/E0618	.	184	14	60	0	7
KRUGER/K-9910BT	.	179	13	59	0	0
KRUGER/K-9113	.	179	13	60	0	1
GARST/N9525BT	.	171	13	59	0	2
WILSON/E9503BT	.	170	13	61	0	11
DENBESTEN/DB2009	.	170	13	59	0	1
HEINE/H775	.	170	13	60	0	0
WENSMAN/W 4379	.	169	13	60	0	0
JACOBSEN/JS4685BT	.	168	14	60	0	0
MYCOGEN/2717IMI	.	168	13	60	0	0
DAHLCO/2660	.	166	12	57	0	1
ASGROW/RX634	.	165	12	59	0	1
GOLD COUNTRY/X69804BT	.	165	13	61	0	4
WILSON/1475PT	.	163	14	60	0	0
JACOBSEN/JS4645BT	.	162	14	61	0	0

Table 9 (continued).

Brand / Hybrid	Yield - bu/a (15.5% moist)		Grain moist pct	Bushel weight lb	2000		Stk.Ldg. below ear pct
	2-yr	2000			Green- snap pct		
ASGROW/RX508YG		162	12	57	6		0
JACOBSEN/JS4685		160	13	61	0		0
MUSTANG/6464		159	13	61	0		6
GOLD COUNTRY/X39704		157	13	61	0		6
GARST/N7543		157	13	58	0		0
TOP FARM/TFSX 7202BT		157	12	59	0		0
DENBESTEN/DB2106		156	14	63	0		0
MUSTANG/7105BT		156	13	62	0		6
DEKALB/DKC57-38		154	13	60	0		0
HOEGEMEYER/2601		154	13	62	0		3
KALTENBERG/K6179		154	13	58	0		1
KRUGER/K-9011		154	13	59	0		1
GOLD COUNTRY/X60002		153	13	61	0		5
US SEEDS/US C1059		148	12	58	0		1
DAHLCO/X-8054		145	12	59	0		0
JACOBSEN/JS4341		138	13	61	0		6
Test average:	160	168	13	60	0		2
LSD (5%) value:	22	21	1	2			
Min. top-yield value*:	157	179					
Coef. of variation#:	8	8					

* Top yield - within one LSD value of highest yield.

Measure of experimental error: values of < 15% are desired.

Table 10. Beresford late corn hybrid results, 1999-2000, SE Research Farm. Test relative maturity is 111-day or more.

Brand / Hybrid	----- 2000 -----					
	Yield - bu/a		Grain	Bushel	Green	Stk.Ldg.
	(15.5% moist)		moist	weight	snap	below
	2-yr	2000	pct	lb	pct	ear
						pct

	Entries tested two years					
KRUGER/K-9014BT	185	200	13	59	0	1
MYCOGEN/2799IMI	176	192	13	59	0	3
HEINE/H840	172	187	13	57	0	3
DENBESTEN/DB2912BT	168	185	13	58	0	0
EPLEY/E3610BT	166	187	14	58	0	1
SANDS/SOI 9126	162	186	13	60	0	0
EPLEY/E3608	160	183	14	59	0	1
WILSON/1664	160	174	14	59	0	1
DENBESTEN/DB2011BT	159	181	14	59	0	0
HOEGEMEYER/2649	158	177	13	59	0	5
HEINE/H825	156	172	14	59	0	0
DENBESTEN/DB2611	156	181	14	59	0	0
EPLEY/E3620	155	164	13	60	0	0
JACOBSEN/JS56	154	160	14	60	0	0
MYCOGEN/2725	151	165	14	58	0	0
	Entries tested one year					
KRUGER/K-9115		205	13	58	0	0
MYCOGEN/2833		205	14	59	0	0
MYCOGEN/2722IMI		199	13	58	0	1
DENBESTEN/DB2212		195	14	59	0	1
KRUGER/K-9115A		192	14	59	0	0
NC+/4649B		192	14	59	0	1
KAYSTAR/KX-787		189	14	59	0	1
DENBESTEN/DB2015		189	14	62	0	2
GARST/8464		188	15	59	0	1
KRUGER/K-9114		188	13	59	0	1
HOEGEMEYER/2666		186	15	59	0	1
KRUGER/K-9914		186	13	59	0	1
HOEGEMEYER/2659		185	14	60	0	1
ASGROW/RX730YG		182	14	60	0	0
JACOBSEN/JS4785BT		181	14	58	0	0

Table 10 (continued).

Brand / Hybrid	Yield - bu/a (15.5% moist)		Grain moist pct	Bushel weight lb	----- 2000 -----		Stk.Ldg. below ear pct
	2-yr	2000			Green- snap pct		
GARST/7477IT	*	180	14	58	0		1
MYCOGEN/2767	*	178	13	58	0		0
KAYSTAR/X0121	*	175	13	59	0		0
HEINE/H835	*	173	13	59	0		0
HEINE/H850	*	161	13	57	0		1
HEINE/H852	*	156	13	57	0		1
Test average:	163	183	14	59	0		1
LSD (5%) value:	16	19	1	1			
Min. top-yield value*:	169	186					
Coef. of variation#:	7	6					

* Top yield - within one LSD value of highest yield.

Measure of experimental error: values of < 15% are desired.

Table 11. Brookings Roundup Ready early corn hybrid results, 1999-2000, SDSU Agronomy Farm. Test relative maturity is 100-day or less.

Brand / Hybrid	----- 2000 -----					Stk.Ldg.
	Yield - bu/a (15.5% moist)		Grain moist	Bushel weight	Green snap	below
	2-yr	2000	pct	lb	pct	ear pct
----- Entries tested two years -----						
KAYSTAR KX-6200RR	151	174	15	56	0	0
MUSTANG 5002RR	149	171	14	57	0	0
SEEDS 2000 3102RR	148	172	13	57	0	0
DENBESTEN DB2002RR	144	170	14	57	0	0
EPLEY E-1485RR	144	166	13	57	0	0
----- Entries tested one year -----						
KRUGER K-9102RR	181	181	15	55	0	0
KAYSTAR KX-5700RR	180	180	13	56	0	0
MUSTANG 4002RR	178	178	13	57	0	0
TOP FARM TFSX 8201RR	178	178	13	57	0	0
US SEEDS US E981RR	173	173	13	56	0	0
KRUGER K-9199RRBT	172	172	14	56	0	0
ASGROW RX489RR	172	172	14	57	0	0
SEEDS 2000 2980RR/BT	172	172	13	56	0	0
DENBESTEN DB2195RR	171	171	13	57	0	0
DAHLCO 2541	166	166	13	56	0	0
KRUGER K-9199RR	165	165	13	56	0	1
TOP FARM TFSX 8103RR	164	164	13	56	0	0
US SEEDS US C1009RR	164	164	13	57	0	0
DAHLCO 2475RR	143	143	14	60	0	0
Test average:	147	170	13	57	0	0
LSD (5%) value:	NS	10	1	1		
Min. top-yield value*:	144	171				
Coef. of variation#:	2	4				

* Top yield - within one LSD value of highest yield.

NS indicates values within a column are not significantly different.

Measure of experimental error: values of < 15% are desired.

Table 12. Brookings Roundup Ready late corn hybrid results, 1999-2000, SDSU Agronomy Farm. Test relative maturity is 101-day or more.

Brand / Hybrid	----- 2000 -----					
	Yield - bu/a		Grain	Bushel	Green	Stk.Ldg.
	(15.5% moist)		moist	weight	snap	below
	2-yr	2000	pct	lb	pct	ear
						pct

	Entries tested two years					
MUSTANG 6005RR	171	198	22	54	0	0
DENBESTEN DB2012RR	164	181	17	53	0	1

	Entries tested one year					
TOP FARM TFSX 8105RR	.	215	20	56	0	0
SEEDS 2000 3104RR	.	201	17	56	0	0
KRUGER K-9913RRBT	.	200	21	53	0	0
DENBESTEN DB2004RR	.	198	18	55	0	1
EPLEY E-1515RR	.	193	17	55	0	0
KAYSTAR KX-7700RR	.	189	18	53	0	0
DENBESTEN DB2005RR	.	188	16	56	0	0
KRUGER EX-112RR	.	188	19	52	0	0
KRUGER K-9912RR	.	187	22	52	0	0
EPLEY E3615RR	.	183	18	52	0	0
EPLEY E-14R85BT	.	175	14	54	0	0
DENBESTEN DB2002RRBT	.	174	13	53	0	0
JACOBSEN J4256RR	.	174	14	55	0	0
US SEEDS US E1041RR	.	162	16	56	0	0

Test average:	167	188	18	54	0	0
LSD (5%) value:	NS	15	2	2		
Min. top-yield value*:	164	200				
Coef. of variation#:	3	5				

* Top yield - within one LSD value of highest yield.

NS indicates values within a column are not significantly different.

Measure of experimental error: values of < 15% are desired.

Table 13. Beresford Roundup Ready corn hybrid results, 1999-2000, SE Research Farm. Test relative maturity is 111-day or less.

Brand / Hybrid	----- 2000 -----					Stk.Ldg.
	Yield - bu/a (15.5% moist) 2-yr 2000		Grain moist pct	Bushe1 weight lb	Green snap pct	below ear pct
	Entries tested two years					
MUSTANG 6005RR	150	171	13	57	0	0
ASGROW RX601RR/YG	150	165	13	60	0	1
DENBESTEN DB2012RR	146	174	13	58	0	1
KAYSTAR KX-7700RR	144	164	13	57	0	1
JACOBSEN J4753RR	142	160	13	61	0	2
JACOBSEN J4655RR	142	169	13	56	0	0
US SEEDS US C1119RR	141	165	13	56	0	0
US SEEDS US C1139RR	140	164	13	61	0	3
US SEEDS US C1079RR	135	150	12	58	0	4
	Entries tested one year					
SEEDS 2000 X3191RR	.	190	13	59	0	1
KRUGER K-9913RRBT	.	182	14	58	0	0
KRUGER K-9102RR	.	179	12	58	0	1
KAYSTAR KX-7770RR	.	176	14	59	0	1
KRUGER EX-112RR	.	176	13	58	0	0
DENBESTEN DB2002RRBT	.	174	12	57	0	1
EPLEY E-14R85BT	.	165	12	58	0	1
EPLEY E-1485RR	.	165	12	59	0	0
EPLEY E-1515RR	.	164	12	58	0	1
US SEEDS US E1091RR	.	162	14	60	0	0
EPLEY E3615RR	.	162	13	57	0	1
KRUGER K-9912RR	.	161	14	61	0	5
DENBESTEN DB2004RR	.	158	12	59	0	1
DENBESTEN DB2005RR	.	157	12	59	0	0
KRUGER K-9199RRBT	.	144	12	58	0	0
ASGROW RX592RR	.	143	12	59	0	3
TOP FARM TFSX 8105RR	.	140	12	58	0	6
Test average:	143	165	13	58	0	1
LSD (5%) value:	NS	27	1	2		
Min. top-yield value*:	135	163				
Coef. of variation#:	13	10				

* Top yield - within one LSD value of highest yield.

NS indicates values within a column are not significantly different.

Measure of experimental error: values of < 15% are desired.