1985

1985 Corn Performance Trials

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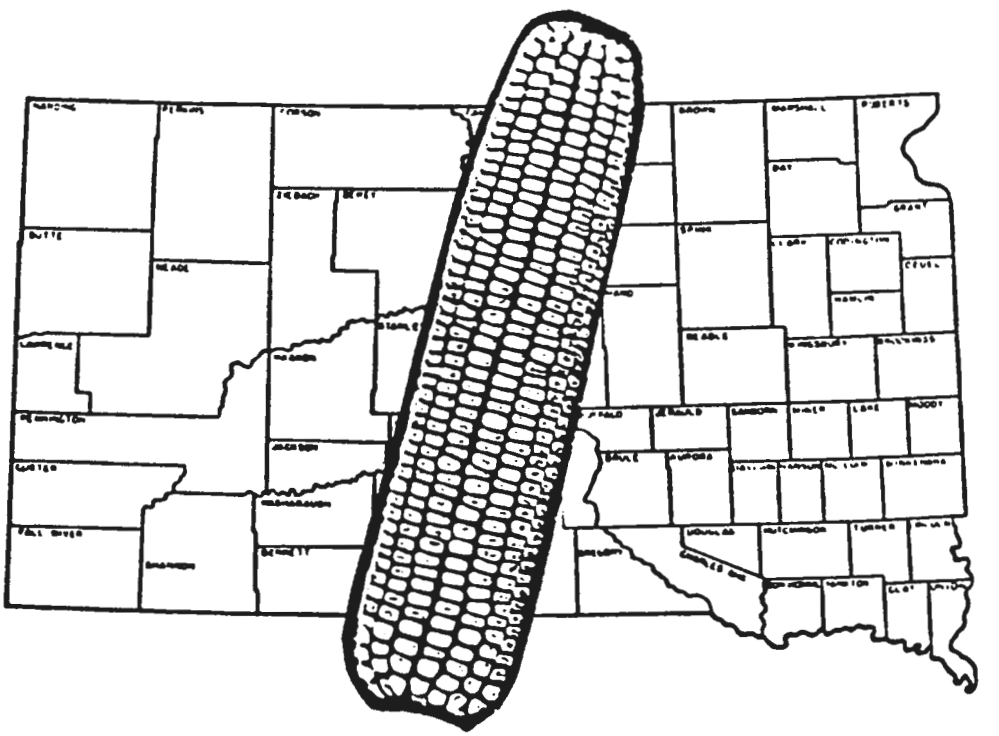

PLANT SCIENCE DEPARTMENT
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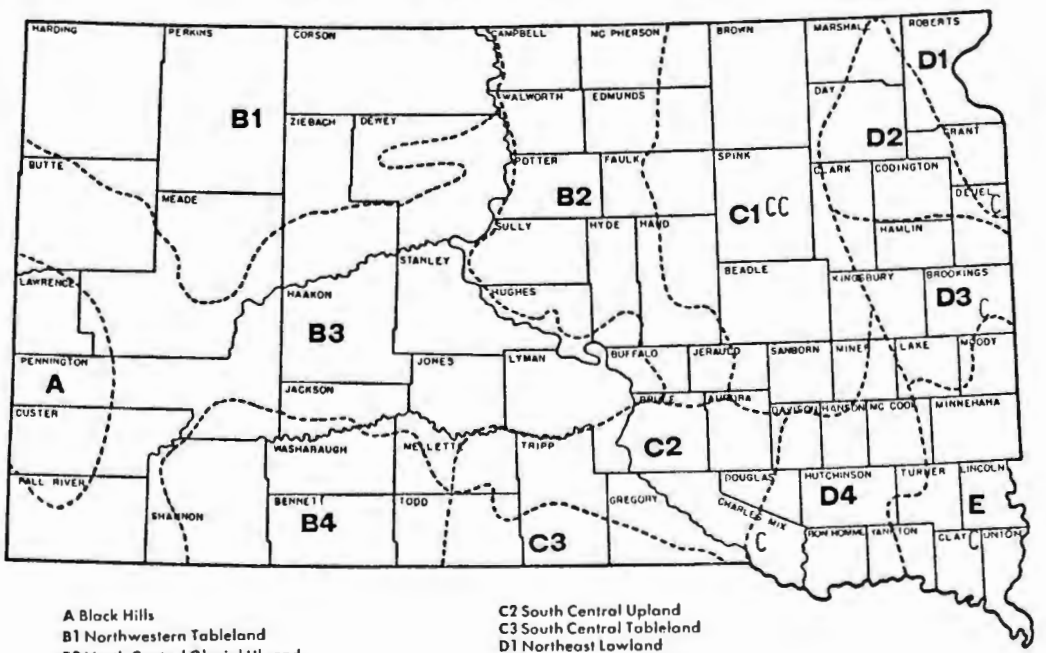
Brookings, South Dakota 57007-1096

LISTING OF TABLES

CROP ADAPTATION AREAS OF

SOUTH DAKOTA

C - 1985 CORN PERFORMANCE TRIAL SITE



A Black Hills
B1 Northwestern Tableland
B2 North Central Glacial Ulpand
B3 Pierre Plain
B4 Southwestern Tableland
C1 Northern James Valley
C2 South Central Upland
C3 South Central Tableland
D1 Northeast Lowland
D2 Northern Prairie Coteau
D3 Central Prairie Coteau
D4 Southern James Flatland
E Southeast Prairie Upland

1985 CORN PERFORMANCE TRIALS

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The relative performance of corn hybrids grown under similar environmental conditions in 1985 are evaluated in this report. Information in the accompanying tables includes grain yields in bushels per acre, moisture percentages of shelled corn at harvest, performance scores and other related information. Records of the corn hybrids harvested in 1985 and available two-, three-, and four-year averages of yield, moisture and stalk lodging percentages are also presented. The trials reported here were conducted under the Plant Science Department program in Crop Performance Testing, Agricultural Experiment Station, South Dakota State University.

Location of the 1985 Trials

Trials were located in the crop adaptation areas marked on the accompanying map of South Dakota. The exact location of each trial and date of seeding and harvesting are included in Table 1. The soil classification, laboratory analyses of soil samples taken and fertility applied at each site are given in Table 2.

Weather and Climatic Conditions

Climatic data (Table 3) for the 1985 corn growing season, May-October, are based upon information obtained from a U.S. Weather Bureau station reasonably near each trial site. The Milbank recording station is closest to the field north of Gary in Deuel County. Stations are located at or near the other trial sites, the Pickstown station representing the Geddes trial. Precipitation quantities would vary from the actual site to the recording station but temperatures are similar over a much wider area and considered applicable to the trial area.

Field conditions varied in the eastern portion of South Dakota through most of the growing period. Field work began early and ended late. Good moisture was available for germination and stands were generally uniform, though lower than desired at Redfield and Centerville. Growth was rapid in the early part of the season where normal moisture and above-normal temperatures were common until mid-June. Moisture was below normal from mid-June until early August in the southeast area and at Redfield. From mid-August through September temperatures averaged 12-15 degrees below normal and cloudy, foggy days, often accompanied by heavy downpours, were commonplace. Many hybrids had just begun to dent by September 1. A frost in the lower 20's occurred on September 25-26, primarily damaging the upper leaves of plants; stalks suffered little damage, allowing translocation to continue. Beginning in early October fog, overcast skies, rains, and wet soil hindered field drydown and harvest was very spotty and

The assistance of the following individuals is appreciated: Dwayne Beck, Burton Lawrensen, Herb Lund, Lucian Edler, Kevin Kirby, Delbert Robbins, and Zeno Wicks of the Stations; and John Biddle and John Heaton, farmer- cooperators.

Table 1. Location of Trials, Date of Seeding, and Harvesting of Corn Performance Trials, South Dakota, 1985.

Area	County	Location	Post Office	Dates when Seeded	Harvested
C1-dry	Spink	James Valley Res. Farm,6E	Redfield	May 8	Oct. 30
C1-irr.	Spink	James Valley Res. Farm,6E	Redfield	May 8	Oct. 31
C2	Charles Mix	Jack Biddle Farm, 3S,1E	Geddes	May 10	Nov. 4
D1	Deuel	John Heaton Farm, 1W,5N	Gary	May 6	Oct. 24
D3	Brookings	Plant Science Farm, 2NE	Brookings	May 7	Nov. 13
E	Clay	Southeast Exp. Farm, 7W,3S	Beresford	May 9	Nov. 5

delayed until late in the month. Despite unfavorable conditions all trials were harvested and yields were excellent. It was estimated that 30% of the farmers' corn fields in this state were unharvested as of December 1.

Excessively high temperatures were not present over extended periods and did not seriously affect pollination. Corn borers were not a serious problem. Stalk breakage was only a minor problem in most trials.

The irrigated trial at Redfield was irrigated with approximately 2 inches of water each time the tensiometer reached 50 cb at the 18-inch depth.

Hybrid Entry Procedure

Hybrids in the trials were entered by the participating companies and they designate the locations where their entries are to be grown. A fee was charged for each entry in each area except for hybrids included by the Agricultural Experiment Station. Either closed- or open-pedigree hybrids were eligible and each was allowed to be entered once in each adaptation area. A maximum of five entries could be entered by a company at any trial site. A listing of the firms, with brands and hybrids harvested, is presented in Table 17.

Hybrids frequently used by the industry have been used as check entries since 1975. They are indicated in the trials as SDAES Check 1, 4, 10, etc. The identities of the checks are as follows:

Check 1 = B73 x Mo17Ht
Check 4 = W64Ht x W117Ht
Check 9 = Mo17 x A634
Check 10 = A632 x W153R
Check 11 = A554 x CM105

Table 2. Laboratory Analyses, Soil Classification and Fertilizer Applied to the 1985 Corn Performance Trials.

Area	Soil Classification	% O.M.	P lb/A	K	pH	Preparation and method	pounds/A N	P	K
C1-dry	Beotia SiCl	2.4	70	1180	7.6	Disced and ridged	295	40	0
C1-irr.	Beotia SiCl	2.4	70	1180	7.6	Disced and ridged	295	40	0
C2	Highmore SiL	2.3	30	840	7.7	Chiseled & disced(soybeans)	0	0	0
D1	Forman SiCl	3.0	60	470	7.6	Chiseled and disced	55	34	0
D3	Lamour SiL	3.5	60	420	6.7	Plowed and disced	100	49	20
E	Egan SiL	3.0	104	1370	6.6	Plowed and disced	160	60	40

Table 3. Temperature and Precipitation Data for the 1985 Corn Performance Trials, South Dakota.

Location	Type of Data	Months of May	June	July	August	Sept.	Oct.	Total
Brookings	Precip. (inches)	3.57	0.82	1.49	3.92	5.03	1.06	15.89
2 NE	Temp. (mean)	59.5	61.2	68.3	63.3	56.5	44.6	
	Mean departure	+3.5	-4.4	-2.4	-5.3	-1.5	-2.7	
	Days 90 F. +	--	03	03	01	--	--	
	First freeze			Sept. 24				
Centerville	Precip. (inches)	5.53	4.42	0.54	5.05	3.22	0.85	19.61
6 SE	Temp. (mean)	63.5	66.3	71.3	66.1	58.8	46.0	
	Mean departure	+3.2	-3.9	-3.6	-6.7	-4.1	-5.6	
	Days 90 F. +	01	04	05	02	--	--	
	First freeze			Sept. 24				
Pickstown	Precip. (inches)	1.34	1.99	2.02	5.81	2.65	0.51	14.32
	Temp. (mean)	63.7	66.1	75.3	70.1	60.1	51.2	
	Mean departure	+3.5	-4.1	-1.0	-4.5	-4.0	-1.6	
	Days 90 F. +	01	07	15	03	02	--	
	First freeze			Sept. 26				
Redfield	Precip. (inches)	2.47	2.20	5.10	4.03	4.83	1.02	19.75
6 E	Temp. (mean)	62.1	62.6	72.0	65.3	56.5	45.0	
	Mean departure	+4.9	-4.2	-1.1	-6.2	-4.2	-3.5	
	Days 90 F. +	02	03	10	02	--	--	
	First freeze			Sept. 24				
Milbank	Precip. (inches)	5.17	2.07	3.45	3.33	3.62	2.18	19.82
2 SSW	Temp. (mean)	60.9	62.7	69.8	64.0	55.8	45.5	
	Days 90 F. +	--	03	04	--	--	--	
	First freeze			Sept. 24				

Changes occur from time to time but the checks are maintained to establish a several-year average before another might be substituted.

Experimental Procedure

Entries included in each trial were seeded in four or more replications. Two population levels were included at sites where climatic conditions are generally more favorable for growing corn. The number of replications depended upon the site and populations under trial. Plots of individual hybrids were located at random within each replication. Available space, soil type and variability, and other factors determined plot size and number of replications. The plot size, populations, and related data are presented in Table 4.

Recommended insecticides were used at all locations for corn rootworm control. The product used depended upon prior history of the field and insecticide used in the past years. A recommended short-residue preemergence herbicide was banded over the row at seeding at all sites.

All trials were seeded as drilled corn. A 31-cell cone seeder was used for the single-row plots. These units were mounted above commercial maxi-merge units preceded with a fluted coulter. Seeding rate was 20% more than the number of plants per plot desired. Seedbeds were generally firm and moist, favoring rapid germination. Stands in some of the trials were below desired population levels because of the excess moisture conditions during June or stray livestock.

Table 4. Field Methods

Area	Table No.	Number of Replications Harvested	Final Population Obtained	Row Number of	Description Width, inches	Length feet
C1-dry	11	4	14,136	1	30	32
C1-irr.	13	3	26,027	1	30	26
C1-irr.	13	3	32,251	1	30	26
C2	15	4	16,508	1	30	32
D1	5	4	18,888	1	30	32
D3	7	2	15,838	1	36	32
D3	7	2	20,490	1	36	32
E	9	2	17,142	1	36	32
E	9	2	20,528	1	36	32

Measurements of Performance

Yield. The yield reported for each hybrid is the average obtained from the yield weights of all replications, expressed as the bushels per acre of No. 2 corn at 15.5% moisture. Varieties of equal potential may yield differently because of variations in slope, soil fertility, and stand. Mathematical determinations have been made to determine whether differences obtained were caused by variations in environment or were true varietal differences. The coefficients of variation(CV) were quite normal. Population differences were not significantly different but the higher populations were better.

To convert data in these tables to the metric system of kilograms or quintals per hectare use the following methods. (The factor 1.121 converts from lbs/A to kg/ha).

I. 1 bu. #2 shelled corn = 54 lb.: 1 lb. = .454 kilograms; 1 hectare = 2.471 acres; so 54 x .454 x 2.471 = 60.6 x B/A = kilograms per hectare.

II. Or, assuming a yield of 60.6 B/A from the tables;
Step 1 = 60.6 B/A x 54 lb/B = 3272 lb/acre.
Step 2 = 3272 lb/acre x 1.121 = 3668 kilograms/hectare or 36.7 quintals/hectare.

Moisture Content. The moisture content of each entry is expressed as the percentage of moisture in the shelled corn at time of harvest. Moisture content is inversely related to maturity. Because maturity is of prime importance in South Dakota, these figures are of considerable importance in the evaluation of the trial entries.

Performance Rating. Undue delays should be held to a minimum if farm operations are to be efficient and provide high economic returns. Prevention of harvest operation delays and reduction of additional drying costs are possible if an operator can produce sound, dry corn. Grain yield and moisture percentages are of prime importance. Cash grain operators who do not turn livestock into their fields after harvest will receive greater returns when the stalks remain upright so the ears will go through their harvesting machinery. Because of the importance of the three factors-yield, moisture percentage, and upright stalks-the three results in the tables presenting this information are used to determine a rating or performance score.

The yields in each test were converted to percentages by comparing them to the mean yield of the test. Similar calculations were made for moisture and stalks broken below the ear at harvest time after first subtracting the moisture content or stalks broken from 100% so that the entries could be ranked according to their ability to produce sound, upright corn rather than soft, lodged corn.

The performance ratings that appear in the tables were computed as follows:

$$\frac{(\text{Yield } \% \times 50) + (\text{Dry matter } \% \times 35) + (\% \text{ upright stalks} \times 15)}{100}$$

Use of the Tables. South Dakota conditions are generally quite different from those in the mid-western Corn Belt. Most of the crop adaptation areas have conditions common to the Northern Great Plains, i.e., limited frost-free growing periods, limited precipitation, and high summer temperatures. Corn hybrids that provide satisfactory yields of harvestable corn that can be stored without additional costly handling are desirable. The performance score provides information on these factors in a weighted fashion or manner.

In choosing a hybrid, first check those which yield the most. Then look for entries with below average moisture and good standability. The results will generally be similar to that of the performance score. Finally, check the performance score over a "several year period", if available, as the average of several years is considerably more reliable than the data from only one year. When seeding a new hybrid the acreage should be limited until the hybrid's adaptation to the environment of the particular farm is known.

TABLE 5. 1985 CORN PERFORMANCE TRIAL, AREA D1, JOHN HEATON FARM, GARY, SD

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LODGED	PCT STALK LODGED	PCT EARS DROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
LYNKS LX 4084	E 2X	162.6	0.0	2.1	0.0	21.7	1
SUPERCROST 2989	M 2X	156.1	0.0	0.0	0.0	24.0	7
DEKALB DK484	E 2X	155.4	0.0	0.0	0.0	19.8	3
PAG SX 180	E 2X	155.1	0.0	0.0	0.0	21.1	4
CENEX 2096	M 2X	155.0	0.0	3.4	0.0	18.0	2
CARGILL 842	E 2X	154.8	0.0	0.0	0.0	21.9	5
SUPERCROST 2410	E 2X	151.8	0.0	0.0	0.0	24.0	12
INTERSTATE 635	M 2X	151.3	0.0	0.7	0.0	21.9	9
PIONEER 3737	M 2X	149.9	0.0	0.7	0.0	18.5	6
CARGILL 859	E 2X	149.0	0.0	0.7	0.0	20.6	10
CARGILL 861	M 2X	148.2	0.0	0.0	0.0	21.3	13
GOLDEN VALLEY 2500	M 2X	147.9	0.0	0.0	0.0	18.8	8
PAG SX 175	E 2X	147.6	0.0	0.0	0.0	20.2	11
BETASEED KH282	E 2X	146.3	0.0	1.4	0.0	19.5	14
KELTGEN KS89	E 2X	145.3	0.0	2.1	0.0	18.8	15
PIONEER 3732	M 2X	145.2	0.0	0.7	0.0	22.1	21
KELTGEN KS101	M 2X	144.9	0.0	0.7	0.0	20.0	16
SDAES CHECK 4	M 2X	144.6	0.0	2.9	0.0	20.9	22
PIONEER 3540	M 2X	143.5	0.0	0.0	0.0	21.3	24
STAUFFER S3306	E 2X	142.6	0.0	0.8	0.0	19.0	18
STAUFFER S4402	E 2X	142.5	0.0	0.7	0.0	19.5	19
PAYMASTER 1990	M 2X	142.4	0.0	0.0	0.0	18.9	17
CARGILL 834	E 2X	142.0	0.0	0.7	0.0	20.0	25
SIGCO 1602	M 2X	142.0	0.0	0.7	0.0	19.6	23
KELTGEN KS95	M 2X	141.6	0.0	0.0	0.0	20.3	27
PAYCO SX 595	E 2X	141.3	0.0	0.7	0.0	18.7	20
ASGROW/O'S GOLD 2330	E 2X	140.7	0.0	0.0	0.0	19.3	26
ASGROW/O'S GOLD 480	E 2X	139.7	0.0	1.4	0.0	19.1	31
TOP FARM SX1099	M 2X	139.5	0.0	0.8	0.0	18.9	30
INTERSTATE 343	E 2X	139.1	0.0	0.7	0.0	18.3	28
DEKALB DK556	M 2X	139.0	0.0	0.0	0.0	25.4	48
TOP FARM SX94	E 2X	138.7	0.0	0.7	0.0	18.2	29
CUSTOM CFS W3759	M 2X	137.4	0.0	0.0	0.0	18.0	33
TNT-SUNFLO 930	M M2X	136.6	0.0	0.7	0.0	17.0	32
BETASEED KH391	M 2X	136.6	0.0	0.8	0.0	19.1	35
CUSTOM CFS 4002	M 2X	136.6	0.0	2.8	0.0	19.1	37
DAHLGREN DG-498	L 2X	136.4	0.0	1.4	0.0	20.8	42
PAYCO SX 611	M 2X	136.1	0.0	0.7	0.0	20.1	39
STAUFFER S3303	E 2X	136.0	0.0	0.0	0.0	17.8	34
SDAES CHECK 9	L 2X	135.5	0.0	3.7	0.0	26.8	60
PIONEER 3906	E 2X	135.2	0.0	0.0	0.0	19.3	38
CENEX 2098A	M 2X	134.1	0.0	0.7	0.0	18.6	40
DAHLGREN DG-505	L 2X	134.1	0.0	0.7	0.0	19.8	45
TOP FARM SX1193	E 2X	133.9	0.0	0.0	0.0	19.1	41
SDAES CHECK 10	E 2X	133.7	0.0	0.0	0.0	20.3	47
INTERSTATE 468	M 2X	133.3	0.0	1.4	0.0	23.2	54
TOP FARM SX1096	E 2X	133.2	0.0	0.0	0.0	17.1	36
GOLDEN VALLEY 353	E 3X	133.0	0.0	0.0	0.0	18.9	44
TOP FARM SX1098	M 2X	132.6	0.0	0.0	0.0	18.8	46
KELTGEN KS1020	M 2X	132.1	0.0	0.0	0.0	23.4	57
INTERSTATE 467X	M 2X	132.0	0.0	0.0	0.0	22.4	53
CENEX 3094	M M3X	131.7	0.0	0.0	0.0	17.3	43
PAYMASTER 1690	E 2X	131.5	0.0	0.7	0.0	20.7	51
WESTERN KX-3400	M 2X	129.7	0.0	2.0	0.0	17.0	49
WESTERN 7971	M 2X	128.3	0.0	0.0	0.0	18.3	52
PRIDE 2244	E 2X	128.3	0.0	0.0	0.0	19.6	56
PAYCO SX 500	E 2X	127.0	0.0	0.0	0.0	17.0	50
CENEX 2093	M 2X	126.7	0.0	2.1	0.0	17.5	55
TNT-SUNFLO 850	M M2X	126.3	0.0	2.8	0.0	18.4	58
SIGCO 1605	M 2X	126.3	0.0	0.0	0.0	24.4	67
PAG SX 182	E 2X	124.0	0.0	2.2	0.0	19.2	62

TABLE 5. (Continued)

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LODGED	PCT STALK LODGED	PCT EARS DROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
LYNKS LX 4075	E 2X	123.6	0.0	0.0	0.0	21.6	66
LYNKS LX 3970	E 2X	122.7	0.0	0.7	0.0	16.9	59
WESTERN 7931	M 2X	122.6	0.0	0.7	0.0	17.4	61
PRIDE 2216	E 2X	119.7	0.0	0.7	0.0	17.4	64
PAYCO SX 342	E 2X	119.7	0.0	2.1	0.0	17.2	65
PAYCO SX 431	E 2X	119.3	0.0	0.7	0.0	16.8	63
CENEX 2085	E 2X	116.8	0.0	0.0	0.0	17.0	68
SDAES CHECK 11	E 2X	116.5	0.0	0.0	0.0	17.2	69
PIONEER 3901	E 2X	116.0	0.0	0.7	0.0	18.7	71
GOLDEN VALLEY 344	E 3X	116.0	0.0	2.2	0.0	18.9	72
KELTGEN KS92	E 2X	116.0	0.0	0.9	0.0	17.2	70
TNT-SUNFLO 970	L 2X	111.7	0.0	0.0	0.0	18.9	73
DAHLGREN DC-475	M 2X	103.0	0.0	0.9	0.0	16.9	74
Means		135.8		0.7		19.6	
LSD (.05)		4.6		CV - % = 10.4			

TABLE 6. AREA D1 2-YEAR YIELD, MOISTURE AND STALK LODGING AVERAGES OF CORN HYBRIDS, 1984-1985.

BRAND AND VARIETY	ACRE YIELD, B/A			STK LODGING, PCT			GRAIN MOIST, PCT		
	4-YR	3-YR	2-YR	4-YR	3-YR	2-YR	4-YR	3-YR	2-YR
CENEX 2096			109			3			19
DEKALB DK484			122			0			20
DEKALB DK554			113			1			24
GOLDEN VALLEY GV250C			111			1			20
KELTGEN KS 95			104			2			22
KELTGEN KS 101			110			1			21
KELTGEN KS102C			108			1			23
LYNKS LX4075			100			1			22
PAG SX180			121			0			21
PIONEER 3540			113			0			22
PIONEER 3732			106			1			23
PIONEER 3737			108			3			19
PIONEER 3901			99			1			20
PIONEER 3906			107			0			20
SDAES CHECK 4			101			3			21
SDAES CHECK 9			102			2			27
SDAES CHECK 10			96			5			21
SDAES CHECK 11			76			1			19
STAUFFER S3306			113			3			20
STAUFFER S4402			110			1			20
TOP FARM SX1096			95			0			19
TOP FARM SX1193			101			1			20
WESTERN/S'TEC KX340C			98			1			19
WESTERN/SEEDTEC 7931			94			2			18
WESTERN/SEEDTEC 7971			96			2			19

TABLE 7. 1985 CORN PERFORMANCE TRIAL, AREA D3, PLANT SCIENCE FARM, BROOKINGS, SD

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LODGED	PCT STALK LODGED	PCT EARS DROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
MC CURDY 4945	M 2X	148.4	0.0	0.6	0.0	24.8	1
TOP FARM SX1099	M 2X	143.2	0.0	3.8	0.0	20.3	3
PIONEER 3901	E 2X	141.8	0.0	0.0	0.0	20.1	2
KELTGEN KS101	M 2X	139.1	0.0	0.0	0.0	19.8	5
NORTHRUP KING PX9151	E 2X	138.0	0.0	0.0	0.0	18.8	4
P-A-G SX269	M 2X	137.4	0.0	0.0	0.0	30.5	30
PIONEER 3737	M 2X	137.1	0.0	0.7	0.0	19.8	6
PIONEER 3732	M 2X	136.8	0.0	0.0	0.0	21.5	7
DEKALB DK-524	M 2X	136.0	0.0	0.0	0.0	21.3	9
PIONEER 3713	M M2X	134.5	0.0	0.0	0.0	24.2	17
KELTGEN KS104	M 2X	134.2	0.0	0.6	0.0	24.8	20
MC CURDY 5750	M 2X	133.8	0.0	1.2	0.0	25.7	26
LAND O'LAKES 1096MR	E 2X	133.8	0.0	0.0	0.0	22.2	14
DEKALB DK-461	E 2X	133.6	0.0	0.0	0.0	20.5	11
HORIZON 409C	E 2X	133.3	0.0	1.9	0.0	18.1	8
HOEGEMEYER SX2545	E 2X	132.4	0.0	0.6	0.0	19.0	10
SIGCO 1602	M 2X	132.2	0.0	0.0	0.0	21.2	15
PAYCO SX 500	E 2X	132.0	0.0	1.3	0.0	19.4	12
PRIDE 2216	E 2X	131.7	0.0	0.6	0.0	19.6	13
CURRY SC1418	E 2X	131.6	0.0	0.0	0.0	21.4	16
HORIZON 202	M 2X	130.0	0.0	0.0	0.0	22.6	25
CENEX 2111	M 2X	129.9	0.6	0.6	0.0	21.4	22
TERRA 3100	M 2X	129.5	0.0	0.0	0.0	20.9	21
P-A-G SX180	E 2X	129.5	0.0	0.0	0.0	20.5	19
TERRA 3050	E 2X	129.3	0.0	0.6	0.0	19.5	18
BETASEED KH282	E 2X	129.0	0.0	0.0	0.0	21.0	23
PAYMASTER 165C	E 2X	128.5	0.0	0.0	0.0	22.1	27
CARGILL 842	E 2X	127.8	0.0	0.0	0.0	22.1	33
CARGILL 859	M 2X	127.7	0.0	0.6	0.0	21.8	32
CARGILL 861	E 2X	127.2	0.0	0.0	0.0	22.4	38
KELTGEN KS102C	M 2X	126.8	0.0	0.0	0.0	25.8	46
TOP FARM SX1096	E 2X	126.8	0.0	0.6	0.0	18.9	24
PIONEER 3906	E 2X	126.5	0.0	0.0	0.0	20.3	28
CENEX 2106	E 2X	126.3	0.0	1.2	0.0	20.8	36
KELTGEN KS95	M 2X	125.7	0.0	0.0	0.0	19.8	29
DAHLGREN DC-505	L 2X	125.6	0.0	1.5	0.0	19.9	34
SIGCO 1300	E 2X	125.5	0.0	0.6	0.0	20.6	37
CUSTOM CFS W5554	L 2X	125.5	0.0	0.6	0.0	21.0	40
SDAES CHECK 10	M 2X	125.4	0.6	1.8	0.0	20.4	39
TOP FARM SX1098	M 2X	125.4	0.0	0.0	0.0	19.9	31
LYNKS LX4102	M 2X	125.0	0.0	0.0	0.0	26.5	59
HOEGEMEYER SX2560	E 2X	125.0	0.0	1.2	0.0	20.9	42
KELTGEN KS105C	M 2X	124.6	0.0	0.0	0.0	22.9	44
TOP FARM SX11C4	L 2X	124.1	0.0	0.6	0.0	20.1	41
PRIDE 1194	E 2X	124.1	0.0	0.6	0.0	19.0	35
CUSTOM CFS 4002	M 2X	123.4	0.0	0.0	0.0	23.0	47
PRIDE 3355	E 2X	123.4	0.0	0.6	0.0	20.2	43
CENEX 2098A	M 2X	122.6	0.0	0.6	0.0	22.7	52
STAUFFER S534C	M 2X	122.1	0.0	0.6	0.0	27.0	71
PAYCO SX 788	M 2X	121.8	0.0	0.6	0.0	24.6	64
ASGROW/C'S GOLD 688C	M 2X	121.7	0.0	0.0	0.0	24.9	66
NORTHRUP KING PX9345	M 2X	121.6	0.0	0.0	0.0	20.8	45
ASGROW/O'S GOLD 2450	M 2X	121.2	0.0	0.0	0.0	28.0	81
TOP FARM SX1100	M 2X	120.8	0.0	2.5	0.0	20.7	53
SDAES CHECK 9	M 2X	120.7	0.0	0.0	0.0	29.0	85
WESTERN KX-4200	M 2X	120.6	0.0	0.6	0.0	20.3	48
PAYCO SX 62C	M 2X	120.1	0.0	0.6	0.0	22.8	61
P-A-G SX267	M 2X	120.1	0.0	0.6	0.0	30.8	91
WESTERN KX-5900	L 2X	119.7	0.0	0.0	0.0	25.5	75
SUPERCROST 1940	E 2X	119.7	0.0	0.0	0.0	20.7	54
CENEX 2096	M 2X	119.6	0.0	0.0	0.0	19.9	50

TABLE 7. (Continued)

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LODGED	PCT STALK LODGED	PCT EARS DROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
NORTHRUP KING PX9242	E 2X	119.5	0.0	0.6	0.0	19.5	49
DAHLGREN DC-511	L 2X	119.3	0.0	0.0	0.0	24.4	69
PRIDE 5556	M 2X	119.3	0.0	0.0	0.0	26.8	83
TNT-SUNFLO 970	L 2X	119.3	0.0	0.6	0.0	19.7	51
PAYMASTER 2990	M 2X	119.1	0.0	0.0	0.0	25.6	77
DEKALB DK-447	E 2X	119.0	0.0	1.2	0.0	21.5	60
CARGILL 834	E 2X	119.0	0.0	0.0	0.0	20.8	56
PRIDE 3376	E 2X	119.0	0.0	0.0	0.0	20.8	56
P-A-G SX239	E 2X	119.0	0.0	3.0	0.0	25.9	84
LYNKS LX4235	M 2X	118.9	0.0	1.3	0.0	25.6	82
MC CURDY 4737	E 2X	118.9	0.0	0.0	0.0	20.9	58
DEKALB DK-505	M 2X	118.1	0.0	0.0	0.0	21.9	67
TNT-SUNFLO 930	M M2X	117.6	0.0	0.0	0.0	19.0	55
P-A-G SX182	E 2X	117.4	0.0	0.7	0.0	20.6	63
NORTHRUP KING PX9290	E 2X	117.0	0.0	0.6	0.0	20.2	62
INTERSTATE 454	E 2X	116.3	0.6	0.0	0.0	22.9	76
SUPERCROST 2289	E 2X	116.0	0.0	0.0	0.0	23.2	80
CURRY SC1408	E 2X	115.9	0.0	2.6	0.0	21.1	74
PAYCO SX 431	E 2X	115.9	0.0	1.9	0.0	18.9	65
MC CURDY 5596	M 2X	115.5	0.0	1.8	0.0	26.6	92
CENEX 2093	E 2X	115.1	0.0	1.3	0.0	19.3	68
INTERSTATE 468	M 2X	114.9	0.0	0.0	0.0	24.3	86
LYNKS LX4115	M 2X	114.8	0.0	1.8	0.0	25.4	90
DAHLGREN DC-498	L 2X	114.6	0.0	0.0	0.0	20.5	72
STAUFFER S4414	E 2X	114.4	0.0	0.6	0.0	20.1	73
WESTERN KX-3400	M 2X	113.9	0.0	0.0	0.0	19.6	70
SDAES CHECK 4	E 2X	113.4	0.0	0.0	0.0	23.3	87
BETASEED KH391	M 2X	112.8	0.0	0.0	0.0	20.3	79
TNT-SUNFLO 850	M M2X	112.1	0.0	0.6	0.0	19.3	78
WESTERN KX-5ECO	L 2X	111.6	0.0	0.0	0.0	29.3	95
WESTERN KX-5400	M 2X	111.4	0.0	0.0	0.0	21.6	88
INTERSTATE 635	M 2X	110.4	0.7	0.7	0.0	26.9	94
STAUFFER S5260	M 2X	109.3	0.0	0.0	0.0	28.9	97
SDAES CHECK 11	E 2X	107.6	0.0	0.0	0.0	19.3	89
HORIZON 5098	M 2X	104.2	0.0	2.5	0.0	20.4	93
INTERSTATE 343	E 2X	99.2	0.0	0.0	0.0	18.5	96
Means		123.4	0.5			22.1	
LSD (.05)		2.8		CV - % =	8.1		

TABLE 8. AREA D3 2-, 3-, AND 4-YEAR YIELD, MOISTURE AND STALK LODGING AVERAGES OF CORN HYBRIDS, 1982-85.

BRAND AND VARIETY	ACRE YIELD, B/A			STK LODGING, PCT			GRAIN MOIST, PCT		
	4-YR	3-YR	2-YR	4-YR	3-YR	2-YR	4-YR	3-YR	2-YR
ASGROW/G GOLD SX2450			111			1			25
ASGROW/G GOLD SX6880	110	107	106	5	6	1	24	22	23
CARGILL 861	114	114	110	5	6	2	23	21	21
CENEX 2106	109	108	104	6	7	2	21	19	20
DEKALB DK505			105			2			20
HOEGEMEYER SX2560			105			1			20
HORIZON 202			112			2			21
KELTGEN KS 95	115	114	113	5	6	2	22	19	20
KELTGEN KS101	119	119	116	4	5	1	21	19	19
KELTGEN KS1020	115	113	111	3	4	2	25	23	24
KELTGEN KS104	112	115	116	6	7	2	24	22	23
KELTGEN KS1050			117			1			22
LYNKS LX4115		105	99		8	4		22	23
LYNKS LX4235			110			4			24
MC CURDY 4945			124			5			23
MC CURDY 5596	111	110	100	6	7	6	27	24	25
MC CURDY 575C			114			3			25
NORTHRUP KING PX9151			118			1			18
NORTHRUP KING PX9242			102			2			19
NORTHRUP KING PX9290			104			2			19
PAG SX180			112			3			20
PAG SX239		111	112		5	2		22	23
PAG SX267			100			1			27
PAYMASTER 2990			100			2			23
PIONEER 3732	120	120	123	5	6	1	23	21	21
PIONEER 3737			118			4			19
PIONEER 3901	123	124	128	6	8	1	21	19	19
PIONEER 3906	109	109	115	6	8	2	20	19	19
PRIDE 3355			109			2			19
SDAES CHECK 4		100	100		6	2		21	22
SDAES CHECK 9	101	97	92	2	1	1	27	25	27
SDAES CHECK 10		106	111		17	6		20	20
SDAES CHECK 11			93			4			19
SIGCO 1300			113			2			20
STAUFFER S5260		112	99		4	1		24	26
STAUFFER S534C		112	106		4	3		24	26
SUPERCROST 1940			111			1			19
SUPERCROST 2288			108			0			21
TOP FARM SX1096			111			1			19
TOP FARM SX1098	109	110	111	4	4	1	21	19	19
TOP FARM SX1104			113			1			19
WESTERN/S'TEC KX540C		106	103		5	1		20	20
WESTERN/S'TEC KX580C			95			2			25

TABLE 9. 1985 CORN PERFORMANCE TRIAL, AREA E, SOUTHEAST EXPERIMENT FARM, BERESFORD, SD

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LODGED	PCT STALK LODGED	PCT EARS DROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
SUPERCROST 2989	M 2X	197.5	0.0	8.3	0.0	21.8	1
PIONEER 3475	M 2X	191.6	0.0	7.9	0.0	19.9	2
CURRY SC1466	L 2X	189.5	0.0	10.5	0.0	21.5	10
FONTANELLE 4230	E 2X	188.9	0.0	0.7	0.0	21.3	3
MC CURDY 7384	L 2X	188.6	0.0	10.4	0.0	26.3	19
MC CURDY 575C	M 2X	188.5	0.0	2.9	0.0	21.5	4
PAG SX269	M 2X	187.8	0.0	2.8	0.0	21.6	5
KELTGEN KS 1090	L 2X	187.8	0.0	3.5	0.0	21.4	6
NORTHRUP KING PX9345	M 2X	187.1	0.0	12.3	0.0	19.1	9
MC CURDY 5596	M 2X	187.1	0.0	52.8	0.0	22.1	63
CARGILL 889	M 2X	185.9	0.0	7.5	0.0	19.6	7
CENEX 2107	L 2X	185.4	0.0	18.3	0.0	22.0	23
NC+ 3611	M 2X	185.1	0.0	5.7	0.0	20.7	12
CENEX 2110	L 2X	184.3	0.0	1.4	0.0	21.1	8
STAUFFER S5340	M 2X	184.1	0.0	1.4	0.0	21.5	11
WILSON 1500B	M 2X	183.9	0.0	2.9	0.0	21.7	14
HOEGEMEYER SX2625	M 2X	182.7	0.0	0.7	0.0	21.5	13
ASGROW/C*S GOLD 6882	L 2X	181.5	0.0	2.9	0.0	23.3	16
WESTERN KX-5800	L 2X	181.1	0.0	9.9	0.0	21.7	21
PIONEER 3551	M 2X	180.8	0.0	3.5	0.0	20.2	15
WESTERN KX-6800	L 2X	180.5	0.0	5.2	0.0	22.1	17
LYNKS LX4315	L 2X	178.0	0.0	5.1	0.0	25.0	27
PAYMASTER 299C	M 2X	177.2	0.0	3.5	0.0	20.7	18
STAUFFER S5260	M 2X	177.0	0.0	18.8	0.0	21.0	31
LYNKS LX4235	M 2X	176.7	0.0	6.6	0.0	21.8	24
INTERSTATE 645	L 2X	175.8	0.0	3.0	0.0	23.4	25
NORTHRUP KING PX9540	L 2X	175.3	0.0	6.6	0.0	25.3	38
DEKALB T1100	L 2X	174.0	0.0	9.3	0.0	24.1	42
SUPERCROST 4304	L 2X	173.8	0.0	4.3	0.0	24.6	34
PAYCO SX 925	L 2X	173.1	0.0	1.4	0.0	25.3	35
TERRA 3203	L 2X	173.0	0.0	4.1	0.0	23.9	33
DEKALB DK636	L 2X	172.2	0.0	1.4	0.0	25.8	43
TERRA 3100	M 2X	171.5	0.0	3.6	0.0	17.7	20
PRIDE 6692	L 2X	171.4	0.0	2.1	0.0	24.2	37
BETASEED KH391	M 2X	170.8	0.0	0.7	0.0	18.5	22
PIONEER 3713	M M2X	170.8	0.0	3.6	0.0	20.6	26
CENEX 2109	L 2X	170.4	0.0	4.2	0.0	21.0	28
CURRY SC1477	L 2X	170.1	0.0	2.8	0.0	21.7	29
NC+ 3440	E 2X	170.0	0.0	15.8	0.0	20.8	51
SDAES CHECK 9	M 2X	169.6	0.0	6.3	0.0	21.7	39
ASGROW/C*S GOLD 788	L 2X	169.5	0.0	0.0	0.0	26.4	53
PAYCO SX 86C	L 2X	169.1	0.0	6.2	0.0	23.7	52
WILSON 1100B	E 2X	168.9	0.0	8.2	0.0	22.0	47
KELTGEN KS 114	L 2X	168.6	0.0	4.1	0.0	22.8	45
LYNKS LX4304	L 2X	168.3	0.0	5.8	0.0	21.4	41
STAUFFER S6596	L 2X	167.8	0.0	9.9	0.0	24.3	62
FONTANELLE 435	M 2X	167.2	0.0	0.8	0.0	23.5	46
PIONEER 3378	L 2X	167.1	0.0	3.6	0.0	21.8	44
WILSON 1700	L 2X	167.0	0.0	1.4	0.0	26.2	59
PAYMASTER 4790	M 2X	166.9	0.0	4.3	0.0	20.8	40
WESTERN KX-5900	L 2X	166.8	0.0	5.6	0.0	21.7	48
KELTGEN KS 1150	L 2X	166.8	0.0	4.2	0.0	26.8	65
NC+ 2747	E 2X	166.4	0.0	1.4	0.0	20.1	30
CARGILL 937	M 2X	165.5	0.0	2.1	0.0	30.1	79
PAYCO SX 847	L 2X	165.4	0.0	5.9	0.0	23.6	60
SDAES CHECK 1	L 2X	165.2	0.0	3.5	0.0	26.2	68
PAG SX310	L 2X	165.1	0.0	10.2	0.0	27.2	82
PRIDE 6656	L 2X	164.3	0.0	2.1	0.0	21.4	50
PIONEER 3377	L 2X	164.2	0.0	14.8	0.0	25.3	84
LAND O'LAKES 555	L 2X	163.8	0.0	0.0	0.0	21.8	49
HOEGEMEYER SX2595	L 2X	163.7	0.0	7.7	0.0	21.5	57

TABLE 9. (Continued)

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LODGED	PCT STALK LODGED	PCT EARS DROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
NC+ 4710	M 2X	163.0	0.0	9.2	0.0	23.0	69
INTERSTATE 635	M 2X	162.9	0.0	10.4	0.0	19.6	55
TOP FARM SX11C4	L 2X	162.8	0.0	5.0	0.0	17.3	36
PAYCO SX 710	M 2X	162.6	0.0	33.6	0.0	21.0	85
PAG SX297	L 2X	162.3	0.0	11.7	0.0	20.0	61
NORTHRUP KING PX9527	L 2X	162.1	0.0	5.9	0.0	23.9	72
WESTERN KX-6C	L 2X	161.6	0.0	18.6	0.0	21.6	78
CENEX 2106	L 2X	161.4	0.0	0.7	0.0	17.5	32
WESTERN KX-7C	L 2X	161.4	0.0	3.6	0.0	27.1	81
KELTGEN KS 1070	M 2X	161.3	0.0	3.0	0.0	21.3	56
NC+ 599C	L 2X	160.6	0.0	1.5	0.0	25.8	75
SDAES CHECK 10	M 2X	160.3	0.0	8.0	0.0	17.8	54
STAUFFER S7759	L 2X	160.0	0.0	0.7	0.0	27.6	83
HOEGEMEYER SX257C	M 2X	159.7	0.0	8.7	0.0	20.1	64
KELTGEN KS 1050	M 2X	159.2	0.0	2.9	0.0	20.3	58
PRIDE 7705	L 2X	158.7	0.0	0.7	0.0	25.9	76
TERRA 3260	L 2X	158.3	0.0	2.1	0.0	22.6	70
CARGILL 893	M 2X	158.1	0.0	0.8	0.0	22.5	67
LAND O'LAKES 1096MR	E 2X	157.6	0.0	12.8	0.0	17.8	66
CENEX 2108	L 2X	157.3	0.0	5.8	0.0	20.7	71
WILSON 1440	M 2X	155.9	0.0	8.5	0.0	19.0	73
INTERSTATE 646	L 2X	155.9	0.0	1.4	0.0	24.0	77
PAG SX275	M 2X	155.9	0.0	9.7	0.0	21.2	80
LAND O'LAKES X4114	M 2X	155.8	0.0	2.2	0.0	22.4	74
FONTANELLE 5230	L 2X	150.1	0.0	1.6	0.0	25.5	86
DEKALB DK562	M 2X	148.1	0.0	9.6	0.0	21.4	87
GREEN ACRES BL7	L 2X	125.3	0.0	42.1	0.0	29.6	88
Means		169.9		6.8		22.4	
LSD (.05)		5.2		CV - % = 10.3			

TABLE 10. AREA E 2-, 3-, AND 4-YEAR YIELD, MOISTURE AND STALK LODGING AVERAGES OF CORN HYBRIDS, 1982-85.

BRAND AND VARIETY	ACRE YIELD, B/A			STK LODGING, PCT			GRAIN MOIST, PCT		
	4-YR	3-YR	2-YR	4-YR	3-YR	2-YR	4-YR	3-YR	2-YR
ASGROW/C GOLD SX6882	126	127	155	14	7	10	22	21	22
CARGILL 889			163			7			19
CARGILL 937			149			11			29
CURRY SC1466			168			14			21
CURRY SC1477			159			5			21
DEKALB T1100	127	123	156	9	5	6	22	21	22
FONTANELLE 435	133	133	151	17	8	12	22	22	23
FONTANELLE 5230			134			10			24
HOEGEMEYER SX2570			139			10			19
HOEGEMEYER SX2625			153			13			21
KELTGEN KS 114	126	124	149	20	9	14	22	22	22
KELTGEN KS105C			146			8			20
KELTGEN KS107C		122	146		7	10		20	20
KELTGEN KS1C9C			157			11			20
LYNKS LX4235			157			13			21
MC CURDY 5596		131	156		27	39		20	20
MC CURDY 575C			164			9			21
MC CURDY 7384		145	170		9	14		24	25
NC+ 2747		119	153		3	4		19	20
NC+ 3440			153			9			20
NC+ 4710			150			7			22
NORTHRUP KING PX9527	125	123	148	13	6	8	22	22	23
PAG SX275		118	145		4	6		20	20
PAYMASTER 479C			152			6			20
PIONEER 3377	128	139	161	19	11	16	22	22	23
PIONEER 3378			148			19			21
PIONEER 3475			168			10			11
PIONEER 3551		129	159		11	15		20	20
PRIDE 6692	129	124	157	20	7	9	22	22	23
PRIDE 7705			147			10			25
SDAES CHECK 1	123	121	144	20	11	16	24	24	25
SDAES CHECK 9	126	129	151	26	15	21	20	20	21
STAUFFER S5260		123	148		10	14		19	20
STAUFFER S534C		133	163		8	11		20	21
SUPERCROST 2989			172			12			21
WESTERN/STEC KX6800		108	127		15	22		21	20
WILSON 11008	122	126	147	13	9	13	20	20	20
WILSON 1440			144			5			19
WILSON 15008			161			11			20
WILSON 1700			153			9			25

TABLE 11. 1985 CORN PERFORMANCE TRIAL, AREA C1(dryland), JAMES VALLEY RESEARCH FARM, REDFIELD, SD

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LODGED	PCT STALK LODGED	PCT EARS DROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
CARGILL 842	E 2X	153.9	0.0	8.6	0.0	21.1	1
KELTGEN KS103C	M 2X	144.8	0.0	1.9	0.0	21.9	5
TOP FARM SX1C4A	M 2X	143.5	0.0	2.C	0.0	22.5	8
PIONEER 3732	M 2X	143.5	0.0	0.0	0.0	22.8	7
PAYMASTER 1990	M 2X	142.1	0.0	2.7	0.C	19.1	3
ASGROW/C*S GOLD 2450	M 2X	141.0	0.0	0.9	0.0	24.1	13
PIONEER 3737	M 2X	14C.4	0.0	0.9	0.0	18.2	4
HORIZON 4090	E 2X	140.0	0.0	2.7	0.0	16.5	2
CARGILL 839	E 2X	139.1	0.0	0.0	0.0	21.6	10
PRIDE 3344	E 2X	139.1	0.0	1.9	0.0	17.3	6
KELTGEN KS1050	M 2X	139.0	0.0	0.0	C.0	26.2	21
DEKALB DK461	E 2X	137.7	0.0	0.C	C.0	18.1	9
PIONEER 3901	E 2X	136.4	0.0	0.0	0.0	20.2	11
PAG SX180	E 2X	135.5	C.0	2.8	C.C	19.6	14
PAYMASTER 1690	E 2X	134.6	0.0	2.7	0.0	20.9	19
DEKALB DK498	E 2X	134.3	C.0	0.9	0.C	20.6	17
PRIDE 4422	M 2X	134.C	C.0	0.0	0.C	18.1	12
DEKALB DK484	E 2X	133.2	0.0	1.C	C.C	19.1	16
SUPERCROST 1940	E 2X	132.4	0.0	2.0	C.C	17.9	15
SUPERCROST 2288	M 2X	131.6	0.0	1.9	0.0	19.6	22
CENEX 2106	L 2X	131.5	C.0	3.7	C.C	18.0	20
CARGILL 861	M 2X	131.3	0.0	1.9	0.0	20.1	27
CENEX 2096	M 2X	131.3	0.0	C.9	0.C	18.3	18
PIONEER 3906	E 2X	131.C	C.0	0.0	0.C	19.8	23
KELTGEN KS102C	M 2X	130.6	C.0	C.C	C.C	24.6	35
TOP FARM SX1106	M 2X	130.3	0.0	2.9	0.C	20.0	29
CURRY SC1418	E 2X	130.3	0.0	0.0	0.C	19.8	26
KELTGEN KS101	M 2X	129.4	C.0	3.8	0.0	17.5	25
PRIDE 2244	E 2X	129.1	C.0	0.C	C.0	19.1	28
SIGCO 1602	M 2X	128.8	C.0	0.0	0.C	19.6	30
STAUFFER S4402	E 2X	128.6	0.0	0.0	0.0	18.1	24
CURRY SC1408	E 2X	128.5	C.0	2.0	C.C	18.8	31
CARGILL 859	M 2X	127.9	0.0	5.0	0.0	19.8	34
WESTERN KX-4200	M 2X	126.4	0.0	1.C	0.0	18.5	32
PAYMASTER 2990	M 2X	126.3	0.0	1.0	0.0	21.7	37
TOP FARM SX1104	M 2X	126.C	C.0	3.1	0.C	18.2	33
HORIZON 202	M 2X	125.7	0.0	3.8	0.0	19.0	36
SIGCC 1605	M 2X	125.3	C.0	0.0	0.0	22.9	38
KELTGEN KS107C	M 2X	124.1	C.0	1.9	0.0	27.1	48
INTERSTATE 635	M 2X	124.1	C.0	0.0	0.0	24.3	43
PIONEER 3747	M 2X	122.C	C.0	0.C	0.C	21.6	41
DAHLGREN DC-498	L 2X	121.6	C.0	0.9	0.C	20.7	40
INTERSTATE 467X	M 2X	121.1	C.0	0.0	0.C	24.2	46
SDAES CHECK 4	M 2X	120.4	0.0	0.0	C.0	22.8	44
CARGILL 829	E 2X	119.9	0.0	0.0	0.0	19.7	42
INTERSTATE 468	M 2X	119.8	0.0	7.5	0.0	21.9	50
PAG SX182	E 2X	119.C	C.0	1.1	0.C	17.9	39
HORIZON 4103	M 2X	117.4	0.0	2.C	C.C	21.1	49
SDAES CHECK 9	M 2X	116.9	C.0	4.8	0.0	24.1	57
TOP FARM SX1103	M 2X	116.5	C.0	0.0	0.0	19.7	45
CENEX 2098A	M 2X	115.1	0.0	5.3	0.0	18.7	51
WESTERN 7931	M 2X	112.6	C.0	C.9	0.0	17.0	47
STAUFFER S33C6	E 2X	111.9	C.0	0.9	0.0	19.0	53
SDAES CHECK 1C	E 2X	111.4	0.0	3.7	C.0	18.9	54
WESTERN KX-3400	M 2X	111.2	0.0	1.0	0.0	17.3	52
INTERSTATE 454	E 2X	111.1	0.0	C.9	0.0	23.0	61
PAG SX175	E 2X	111.C	C.0	0.9	0.C	19.7	56
CENEX 3094	M M3X	109.2	0.0	7.6	C.0	16.7	58
DAHLGREN DC-475	M 2X	108.1	C.0	0.0	0.0	17.2	55
TNT-SUNFLC 97C	L 2X.	107.3	0.0	1.9	C.0	17.6	59
TNT-SUNFLC 93C	M M2X	104.8	C.0	2.1	0.C	16.7	60

TABLE 11. (Continued)

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LODGED	PCT STALK LODGED	PCT EARS DROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
TNT-SUNFLO 850	M M2X	100.0	0.0	2.9	0.0	18.0	62
CENEX 2093	E 2X	98.0	0.0	1.8	0.0	16.7	63
Means		126.2		1.7		20.0	
LSD		4.6		CV - % = 10.4			

TABLE 12. AREA C1(dryland) 2-, 3-, AND 4-YEAR YIELD, MOISTURE AND STALK LODGING AVERAGES OF CORN HYBRIDS, 1982-1985.

	ACRE YIELD, B/A			STK LODGING, PCT			GRAIN MOIST, PCT		
BRAND AND VARIETY	4-YR	3-YR	2-YR	4-YR	3-YR	2-YR	4-YR	3-YR	2-YR
CARGILL 829			108			6			19
CARGILL 861		109	125		5	2		19	20
CENEX 2096			123			2			18
CENEX 2106	101	107	116	6	8	4	19	18	18
CURRY SC-1408		108	122		6	1		19	19
DEKALB DK484		106	122		4	4		18	19
HORIZON 202			123			7			19
INTERSTATE 635		114	127		5	1		21	23
KELTGEN KS1020	108	116	127	5	5	2	23	21	22
KELTGEN KS1030		117	128		5	3		20	21
KELTGEN KS1050			130			3			23
KELTGEN KS1070			114			4			24
PAG SX175			112			3			19
PAG SX180			118			7			19
PAYMASTER 1990			132			3			19
PIONEER 3732		115	134		4	2		20	21
PIONEER 3737			135			5			18
PIONEER 3747		112	126		6	5		19	20
PIONEER 3901		105	114		4	4		19	19
PIONEER 3906		107	117		8	3		19	19
PRIDE 3344			124			1			17
PRIDE 4422		110	121		2	1		18	18
SDAES CHECK 4	101	105	113	5	6	3	22	21	23
SDAES CHECK 9			117			6			23
SDAES CHECK 10	93	95	99	8	9	11	19	19	19
STAUFFER S3306		104	119		7	4		19	19
STAUFFER S4402			118			6			18
SUPERCROST 1940			121			3			18
SUPERCROST 2288			123			1			19
TOP FARM SX 104A	103	112	127	11	14	15	22	20	21
TOP FARM SX 1104			118			2			18

TABLE 13. 1985 CORN PERFORMANCE TRIAL, AREA C1(irrigated), JAMES VALLEY RESEARCH FARM, REDFIELD, SD

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LODGED	PCT STALK LODGED	PCT EARS DROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
CURRY SC146E	L 2X	191.3	0.0	1.4	0.0	26.9	1
DEKALB DK524	M 2X	175.6	0.0	1.5	0.0	22.0	2
PIONEER 3732	M 2X	172.9	0.0	0.0	0.0	24.3	4
PAG SX180	E 2X	169.8	0.0	1.1	0.0	20.1	3
MCCURDY 5750	M 2X	168.7	0.0	2.8	0.0	27.3	12
SIGCO 1605	M 2X	166.2	0.0	2.2	0.0	24.7	11
KELTGEN KS104	M 2X	165.2	0.0	1.9	0.0	22.3	9
ASGROW/D*S GOLD 245C	M 2X	163.8	0.0	1.1	0.0	24.8	15
CENEX 2096	M 2X	163.8	0.0	1.9	0.0	18.9	6
CARGILL 839	E 2X	163.6	0.0	1.8	0.0	22.4	10
PIONEER 3737	M 2X	163.4	0.0	1.1	0.0	17.8	5
PRIDE 3376	E 2X	162.4	0.0	0.0	0.0	20.2	8
PIONEER 3901	E 2X	162.4	0.0	0.4	0.0	20.0	7
PRIDE 5556	M 2X	160.3	0.0	0.4	0.0	25.2	27
PIONEER 3747	M 2X	159.0	0.0	0.4	0.0	22.1	19
CARGILL 842	E 2X	159.0	0.0	2.5	0.0	21.9	22
CARGILL 861	M 2X	157.9	0.0	2.9	0.0	20.2	18
MCCURDY 4945	M 2X	157.8	0.0	3.4	0.0	25.3	32
KELTGEN KS1030	M 2X	157.0	0.0	0.4	0.0	21.8	26
TOP FARM SX1C99	M 2X	156.9	0.0	0.8	0.0	20.0	17
PAYMASTER 1990	M 2X	156.9	0.0	1.1	0.0	19.1	13
SIGCO 1602	M 2X	156.7	0.0	0.8	0.0	20.6	20
SUPERCROST 2288	M 2X	156.5	0.0	0.4	0.0	19.5	16
CARGILL 829	E 2X	156.1	0.0	0.8	0.0	20.2	21
HORIZON 202	M 2X	155.4	0.0	2.6	0.0	19.8	25
PRIDE 3355	E 2X	154.5	0.0	0.0	0.0	17.8	14
DAHLGREN DC-498	L 2X	154.3	0.0	0.7	0.0	21.5	31
CENEX 2106	L 2X	153.3	0.0	1.1	0.0	18.2	24
KELTGEN KS107C	M 2X	153.3	0.0	1.5	0.0	28.4	55
INTERSTATE 467X	M 2X	152.6	0.0	1.5	0.0	23.5	37
NORTHRUP KING PX9151	E 2X	152.2	0.0	0.7	0.0	17.5	23
HORIZON 4103	M 2X	151.9	0.0	4.1	0.0	23.3	40
PAG SX239	E 2X	151.0	0.0	2.7	0.0	23.3	44
KELTGEN KS95	M 2X	150.9	0.0	0.8	0.0	21.3	33
DEKALB DK461	E 2X	150.5	0.0	1.1	0.0	18.5	30
SUPERCROST 1940	E 2X	150.1	0.0	1.8	0.0	17.8	29
INTERSTATE 426X	E 2X	149.5	0.0	3.0	0.0	16.9	28
SUPERCROST 3C3C	M 2X	149.4	0.0	1.1	0.0	26.6	60
PIONEER 3906	E 2X	147.6	0.0	0.4	0.0	21.5	43
PAG SX175	E 2X	147.3	0.0	1.9	0.0	20.4	39
SUPERCROST 2410	M 2X	147.2	0.0	0.7	0.0	24.5	58
WESTERN KX-5400	M 2X	147.1	0.0	0.4	0.0	18.9	35
PAYMASTER 299C	M 2X	146.8	0.0	0.4	0.0	23.5	52
CARGILL 859	M 2X	146.4	0.0	3.3	0.0	19.4	41
KELTGEN KS105C	M 2X	146.3	0.0	0.8	0.0	26.5	62
PRIDE 2216	E 2X	146.1	0.0	0.7	0.0	18.2	36
STAUFFER S4414	E 2X	146.0	0.0	2.7	0.0	21.6	48
WESTERN KX-3400	M 2X	145.8	0.0	1.5	0.0	17.4	34
NORTHRUP KING PX9290	M 2X	145.5	0.0	1.1	0.0	20.4	45
DAHLGREN DC-475	M 2X	145.4	0.0	0.4	0.0	19.1	38
TOP FARM SX1100	M 2X	144.6	0.0	1.1	0.0	20.0	46
NORTHRUP KING PX9410	M 2X	144.3	0.0	0.0	0.0	23.5	61
CURRY SC1418	E 2X	143.8	0.0	0.8	0.0	21.3	54
NORTHRUP KING PX9345	M 2X	143.0	0.0	0.7	0.0	20.1	49
STAUFFER S33C3	E 2X	142.5	0.0	4.2	0.0	16.2	42
TOP FARM SX11C3	M 2X	142.4	0.0	0.4	0.0	20.9	56
STAUFFER S3306	E 2X	142.2	0.0	3.6	0.0	20.0	59
WESTERN 7971	M 2X	140.9	0.0	1.1	0.0	17.6	47
INT-SUNFLO 970	L 2X	140.3	0.0	2.6	0.0	17.5	50
PAG SX182	E 2X	139.5	0.0	0.4	0.0	18.2	53
TOP FARM SX11C4	M 2X	139.3	0.0	1.5	0.0	18.2	57

TABLE 13. (Continued)

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT RCOT LODGED	PCT STALK LODGED	PCT EARS DRCPPED	PERCENT MOISTURE	PERFCRMANCE SCORE RATING
WESTERN 7931	M 2X	138.9	0.0	1.5	0.0	17.1	51
SDAES CHECK 10	E 2X	138.2	0.0	3.7	0.0	20.7	63
PAYMASTER 16SC	E 2X	137.9	0.0	1.6	0.0	21.9	66
INTERSTATE 46E	M 2X	136.9	0.0	2.0	0.0	22.9	69
INTERSTATE 635	M 2X	133.1	0.0	0.4	0.0	27.5	73
CENEX 2093	E 2X	132.6	0.0	3.4	0.0	17.0	65
TNT-SUNFLC 930	M M2X	131.5	0.0	0.8	0.0	16.8	64
NORTHRUP KING PX9242	E 2X	131.3	0.0	0.0	0.0	19.0	68
MCCURDY 4737	E 2X	130.7	0.0	0.0	0.0	19.0	70
CENEX 2098A	M 2X	130.5	0.0	7.9	0.0	19.0	71
CURRY SC1477	L 2X	130.2	0.0	0.4	0.0	32.4	75
HORIZON 4090	E 2X	129.1	0.0	1.9	0.0	16.0	67
CENEX 3094	M M3X	123.3	0.0	2.4	0.0	17.0	72
SDAES CHECK 4	M 2X	120.6	0.0	1.1	0.0	22.6	74
DEKALB DK447	E 2X	117.6	0.0	0.5	0.0	23.2	76
Means		149.1		1.5		21.0	
LSD (.05)		6.2		CV - % =		13.0	

TABLE 14. AREA C1(irrigated) 2-, 3-, AND 4-YEAR YIELD, MOISTURE AND STALK LODGING AVERAGES OF CORN HYBRIDS, 1982-1985.

	ACRE YIELD, B/A			STK LODGING, PCT			GRAIN MCIST, PCT		
BRAND AND VARIETY	4-YR	3-YR	2-YR	4-YR	3-YR	2-YR	4-YR	3-YR	2-YR
CARGILL 829			135			4			20
CARGILL 861	134	124	131	7	8	9	21	19	20
CENEX 2106	132	124	140	2	2	2	19	18	18
CURRY SC1466			168			2			24
CURRY SC1477			135			2			28
DEKALB DK447			120			4			22
HORIZON 202			156			5			20
INTERSTATE 468		123	137		3	3		20	21
INTERSTATE 635		123	139		2	2		22	24
KELTGEN KS 55	131	121	138	5	6	9	21	19	20
KELTGEN KS 104	138	132	145	4	5	4	22	20	21
KELTGEN KS103C			138			2			21
KELTGEN KS1050			145			4			24
KELTGEN KS1070			141			3			26
MC CURDY 4945			145			14			23
NORTHRUP KING PX9151			140			5			18
NORTHRUP KING PX9242			124			3			19
NORTHRUP KING PX9290			125			3			19
NORTHRUP KING PX9410			142			4			22
PAG SX175			143			6			19
PAG SX180			146			7			20
PAG SX239		125	138		5	6		20	22
PAYMASTER 1990			145			5			19
PIONEER 3732	143	135	158	2	2	0	22	21	23
PIONEER 3737			152			13			18
PIONEER 3747	135	129	150	2	3	2	21	20	21
PIONEER 3901	131	121	147	3	3	2	20	19	20
PIONEER 3906	123	117	137	2	3	4	19	18	20
SDAES CHECK 4		100	110		6	7		20	21
SDAES CHECK 10	107	93	112	10	13	12	20	19	20
STAUFFER S33C6			146			10			20
SUPERCROST 1940			130			7			18
SUPERCROST 2288			139			2			19
SUPERCROST 2410			135			8			23
TOP FARM SX1100		119	129		4	4		19	19
TOP FARM SX1104			123			3			18
WESTERN/S'TEC KX540C		120	132		2	1		18	18
WESTERN/SEECTEC 7971			124			4			18

TABLE 15. 1985 CORN PERFORMANCE TRIAL, AREA C2, JOHN BIDDLE FARM, GEDDES, SD

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LODGED	PCT STALK LODGED	PCT EARS DROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
PIONEER 3475	M 2X	163.8	0.0	0.8	0.0	18.6	1
WILSON 11008	E 2X	157.6	0.0	0.8	0.0	20.1	2
WILSON 15008	M 2X	155.9	0.0	1.6	0.0	20.3	4
WESTERN KX-5800	M 2X	154.7	0.0	3.3	0.0	19.8	6
LYNKS LX4235	M 2X	154.2	0.0	1.7	0.0	19.8	5
TOP FARM SX1099	M 2X	153.7	0.0	0.0	0.0	17.8	3
CARGILL 893	M 2X	150.7	0.0	0.8	0.0	21.8	8
KELTGEN KS1090	L 2X	150.0	0.0	0.8	0.0	20.7	7
WESTERN KX-5900	L 2X	149.8	0.0	3.2	0.0	20.2	9
SUPERCROST 4304	L 2X	147.9	0.0	0.8	0.0	23.7	15
PIONEER 3378	L 2X	147.8	0.0	0.0	0.0	21.6	10
DEKALB DK636	L 2X	147.1	0.0	0.8	0.0	28.5	24
INTERSTATE 647X	L 2X	145.6	0.0	0.8	0.0	26.6	22
HOEGEMEYER SX2625	L 2X	145.4	0.0	1.6	0.0	20.8	12
KELTGEN KS1070	M 2X	145.3	0.0	0.8	0.0	19.7	11
HOEGEMEYER SX2595	M 2X	143.5	0.0	0.0	0.0	19.9	13
PRIDE 5556	M 2X	143.3	0.0	0.8	0.0	19.9	14
WILSON 1700	L 2X	142.5	0.0	0.0	0.0	27.6	31
SDAES CHECK 9	L 2X	142.2	0.0	2.4	0.0	20.7	18
PIONEER 3713	M M2X	141.5	0.0	1.6	0.0	18.7	17
ASGROW/C'S GOLD 717	M 2X	141.2	0.0	0.0	0.0	20.8	19
PAG SX310	L 2X	140.3	0.0	12.6	0.0	25.6	41
NORTHRUP KING PX9345	M 2X	139.2	0.0	0.8	0.0	16.6	16
INTERSTATE 645	L 2X	139.0	0.0	0.0	0.0	23.2	26
KELTGEN KS1050	M 2X	139.0	0.0	0.8	0.0	19.1	20
GREEN ACRES 3000	M 4X	137.8	0.0	0.8	0.0	24.4	36
PAG SX297	L 2X	137.1	0.0	0.8	0.0	18.9	21
HOEGEMEYER SX2570	M 2X	136.7	0.0	4.1	0.0	18.7	23
DEKALB T1100	L 2X	136.4	0.0	0.0	0.0	23.4	35
PRIDE 6656	L 2X	135.0	0.0	0.8	0.0	21.3	33
LYNKS LX4115	M 2X	134.5	0.0	2.6	0.0	20.2	32
LYNKS LX4102	M 2X	134.4	0.0	2.4	0.0	19.9	29
CARGILL 889	M 2X	133.9	0.0	0.8	0.0	18.5	25
PAYMASTER 4790	M 2X	132.5	0.0	0.0	0.0	20.0	34
CARGILL 921	L 2X	131.7	0.0	2.5	0.0	26.2	45
TOP FARM SX1104	L 2X	131.6	0.0	2.4	0.0	16.7	27
KELTGEN KS104	M 2X	131.6	0.0	4.3	0.0	19.7	38
CENEX 2110	M 2X	131.3	0.0	1.8	0.0	22.4	42
KELTGEN KS95	M 2X	130.5	0.0	0.0	0.0	17.1	28
WESTERN KX-60	L 2X	129.7	0.0	0.0	0.0	21.2	40
WILSON 1440	M 2X	129.4	0.0	1.7	0.0	19.9	39
TOP FARM SX1098	M 2X	129.1	0.0	0.0	0.0	16.4	30
PIONEER 3551	M 2X	128.3	0.0	0.8	0.0	20.3	43
WESTERN KX-6800	L 2X	127.4	0.0	1.9	0.0	22.2	44
TOP FARM SX1096	E 2X	127.0	0.0	0.8	0.0	16.1	37
PIONEER 3377	L 2X	123.6	0.0	0.9	0.0	25.3	49
SUPERCROST 4337	L 2X	123.2	0.0	1.7	0.0	23.5	48
PAG SX267	M 2X	123.1	0.0	10.8	0.0	22.4	51
SDAES CHECK 4	M 2X	118.0	0.0	0.8	0.0	19.4	47
SDAES CHECK 10	E 2X	116.6	0.0	1.7	0.0	17.6	46
TOP FARM SX1100	M 2X	113.8	0.0	0.8	0.0	17.7	50
GREEN ACRES BL7	L 2X	113.2	0.0	16.7	0.0	25.8	52
GREEN ACRES BL78	L 3X	103.0	0.0	20.9	0.0	28.2	53
Means		137.0		2.3		21.0	
LSD (.05)		6.6		CV - % =		12.6	

TABLE 16. AREA C2 2-, 3-, AND 4-YEAR YIELD, MOISTURE AND STALK LODGING AVERAGES OF CORN HYBRIDS, 1982-85.

BRAND AND VARIETY	ACRE YIELD, B/A			STK LODGING, PCT			GRAIN MCIST, PCT		
	4-YR	3-YR	2-YR	4-YR	3-YR	2-YR	4-YR	3-YR	2-YR
CARGILL 921	81	81	104	22	2	2	24	23	22
GREEN ACRES 3000	79	81	103	8	2	3	22	20	22
HOEGEMEYER SX257C			100			5			17
HOEGEMEYER SX2595			103			0			18
KELTGEN KS 95	82	83	101	12	2	1	17	16	16
KELTGEN KS 104	78	78	97	7	3	3	19	17	18
KELTGEN KS105C			113			2			18
KELTGEN KS107C		88	106		2	2		17	18
LYNKS LX4115		77	99		4	5		18	19
PAG SX267			93			10			20
PAYMASTER 4790			97			1			19
PIONEER 3377	83	82	99	11	2	2	21	21	22
PIONEER 3378			114			0			19
PIONEER 3551		95	116		2	2		18	19
SDAES CHECK 4	72	74	90	13	2	2	19	17	18
SDAES CHECK 5	84	84	104	4	2	2	20	18	19
SDAES CHECK 10	69	68	81	11	3	4	17	16	17
SUPERCROST 4337			99			2			21
TOP FARM SX1096			95			0			16
TOP FARM SX1098		77	100		2	2		15	16
TOP FARM SX110C			90			5			17
TOP FARM SX1104			104			3			16
WESTERN/S'TEC KX530C		78	104		4	4		18	18
WESTERN/S'TEC KX60			96			1			19
WILSON 1100B	82	87	114	6	2	2	19	18	19
WILSON 1440			94			2			19
WILSON 1700			108			2			23

Table 17. Listing of Hybrid Corn Entries Harvested and Tables Where Results Appear.

Company and Brand	Entry	Tables
Asgrow Seed Company	RX480	5
7000 Portage Road	RX717	15
Kalamazoo, MI 49001	RX788	9
"Asgrow/O's Gold"	2330	5
	2450	7,8,11,13
	6880	7,8
	6882	7
Betaseed, Inc.	KH282	5,7
1788 Marschall Rd.	KH391	5,7,9
Shakopee, MN 55379		
"Betaseed"		
Cargill Seeds	829	11,12,13,14
PO Box 5645	834	5,7
Minneapolis, MN 55440	839	11,13
"Cargill"	842	5,7,11,13
	859	5,7,11,13
	861	5,7,8,11,12,13,14
	889	9,10,15
	893	9,15
	921	15,16
	937	9,10
Cenex	2085	5
Box 65089	2093	5,7,11,13
St. Paul, MN 55164	2096	5,6,7,11,12,13
"Cenex"	2098A	5,7,11,13
	2106	7,8,9,11,12,13,14
	2107	9
	2108	9
	2109	9
	2110	9,15
	2111	7
	3094	5,11,13
Curry Seed Co.	SC1408	7,11,12
PO Box 517	SC1418	7,11,13
Elk Point, SD 57025	SC1466	9,10,13,14
"Curry"	SC1477	9,10,14
Custom Farm Seed	CFS 4002	5,7
PO Box 160	CFSW3759	5
Momence, IL 60954	CFSW5554	7
Dahlgren & Co., Inc.	DC-475	7,11
1220 Sunflower St.	DC-480	13
Crookston, MN 56716	DC-498	5,7,11,13
"Dahlgren"	DC-505	5,7
	DC-511	7
DeKalb-Pfizer Genetics	DK447	7,13,14
3100 Sycamore Road	DK461	7,11,13
DeKalb, IL 60115	DK484	5,6,11,12
"DeKalb"	DK498	11
	DK505	7,8
	DK524	7,13
	DK556	5
	DK562	9
	DK636	9,15
	T1100	9,10,15
Fontanelle Hybrids	435	9,10
Rt. 1, Box 18	4230	9
Nickerson, NE 68044	5230	9,10
Golden Valley Seeds	344	5
RR 2, Box 106	353	5
Milbank, SD 57252	2500	5,6
Green Acres	3000	15,16
RR 2	BL7	9,15
Hastings, NE 68739	BL78	9
Hoegemeyer Hybrids	SX2545	7
RR 2	SX2560	7,8
Hooper, NE 68031	SX2570	9,10,15,16
	SX2595	9,15,16
	SX2625	9,10
Horizon Seeds, Inc.	202	7,8,11,12,13,14
1600 Cornhusker Hwy	4090	7,10,13
Lincoln, NE 68501	4103	11,13
"Horizon"	5098	7
Interstate Seed Co.	343	5,7
PO Box 470	426X	13
Fargo, ND 58107	454	7,11
"Interstate"	467X	5,11,13
	468	5,7,11,13,14
	635	5,7,9,11,12,13,14
	645	9,15
	646	9
	647X	15
Lynks Seeds	LX3970	5
Box 637	LX4075	5,6,7,8
Marshalltown, IA 50158	LX4084	5
"Lynks"	LX4102	7,15,16
	LX4115	7,8,15,16
	LX4235	7,8,9,10,15
	LX4304	9
	LX4315	9
Keltgen Seed Company	KS89	5
PO Box A	KS92	5
Olivia, MN 56277	KS95	5,6,7,8,13,14,15,16
"Keltgen"	KS101	5,6,7,8,11
	KS1020	5,6,7,8,11,12
	KS1030	11,12,13,14
	KS104	7,8,13,14,15,16
	KS1050	7,8,9,10,11,12,13,14,15,16
	KS1070	9,10,11,12,13,15,16
	KS1090	9,10,15
	KS114	9,10
	KS1150	9
Land O'Lakes, Inc.	555	9
2827 8th Ave. S.	1096MR	7,9
Ft. Dodge, IA 50501	X4114	9
"Land O'Lakes"		
McCurdy Seed Co.	4737	7,13
PO Box 66	4945	7,8,13,14
Fremont, IA 52561	5596	7,8,9,10
"Big M"	5750	7,8,9,10,13
	7384	9,10
NC+ Hybrids	2747	9,10
PO Box 4408	3440	9,10
Lincoln, NE 68504	3611	9
"NC+"	4710	9,10
	5590	9

Table 17 (Cont.).

Company and Brand	Entry	Tables
Northrup King Co.	PX9151	7,8,13,14
1754 Park Blvd.	PX9242	7,8,13,14
Fargo, ND 58103	PX9290	7,8,13,14
"Northrup King"	PX9345	7,9,13,15
	PX9410	13,14
	PX9527	9,10
	PX9540	9
PAG Seeds	SX175	5,11,12,13,14
PO Box 9480	SX180	5,6,7,8,11,12,13,14
Minneapolis, MN 55440	SX182	5,7,11,13
"PAG"	SX239	7,8,13,14
	SX267	7,8,15,16
	SX269	7,8,9
	SX275	9,10
	SX297	9,15
	SX310	9,15
Paymaster Seeds	1690	5,7,11,13
PO Box 9493	1990	5,11,12,13,14
Minneapolis, MN 55440	2990	7,8,9,11,13
"Paymaster"	4790	9,10,15,16
	6990	15
Payco Seeds	SX342	5
PO Box 70	SX431	5,7
Dassel, MN 55325	SX500	5,7
"Payco"	SX599	5
	SX611	5
	SX620	7
	SX710	9
	SX788	7
	SX847	9
	SX860	9
	SX925	9
Pioneer Hi-Bred, Int'l	3377	9,10,15,16
7000 Pioneer Parkway	3378	9,10,15,16
Johnston, IA 50131	3475	9,10,15
"Pioneer"	3540	5,6
	3551	9,10,15,16
	3713	7,9,15
	3732	5,6,7,8,11,12,13,14
	3737	5,6,7,8,11,12,13,14
	3747	11,12,13,14
	3901	5,6,7,8,11,12,13,14
	3906	5,6,7,8,11,12,13,14
Pride Company, Inc.	1194	7
RFD Box 58	2216	5,7,13
Glen Haven, WI 53810	2244	5,11
"Pride"	3344	11,12
	3355	7,8,13
	3376	7,13
	4422	11,12
	5556	7,13,15
	6656	9,15
	6692	9,10
	7705	9,10
SDAES	Check 1	9,10
Plant Science, SDSU	Check 4	5,6,7,8,11,12,13,14,15,16
Brookings, SD 57007	Check 9	5,6,7,8,9,10,11,12,15,16
	Check 10	5,6,7,8,9,11,12,13,14,15,16
	Check 11	5,7,8
Sigco Research	1300	7,8
Box 289	1602	5,11,13
Breckenridge, MN	1605	5,7,11,13
Edw. Funk & Sons	1940	7,8,11,12,13,14
601 Funk Parkway	2288	7,8,11,12,13,14
Kentland, IN 47951	2410	5,13,14
"Supercrost"	2989	5,9,10
	3030	13
	4304	9,15
	4337	15,16
Stauffer Seeds	S3303	5,13
2622 Blaney Road	S3306	5,6,11,12,13,14
Madison, WI 53711	S4402	5,6,11,12
Stauffer"	S4414	7,13
	S5260	7,8,9,10
	S5340	7,8,9,10
	S6596	9
	S7759	9
Terra Seed Co.	TR3050	7
600 4th Street	TR3100	7,9
Sioux City, IA 51101	TR3203	9
"Terra"	TR3260	9
TNT-Sunflo	850	5,7,9
1330 40th St NW	930	5,7,9,11
Fargo, ND 58105	970	5,7,9,11
Top Farm Hybrids	SX94	5
Box 850	SX104A	11,12
Cokato, MN 55321	SX1096	5,6,7,8,15,16
"Top Farm"	SX1098	5,7,8,15,16
	SX1099	5,7,13,15
	SX1100	7,11,13,14,15,16
	SX1103	11,13
	SX1104	7,8,9,11,12,13,14,15,16
	SX1193	5,6
Western SeedTec	KX3400	5,6,7,11,13
PO Box 1236	KX4200	7,11
Huron, SD 57350	KX5400	7,8,13,14
"Western SeedTec"	KX5800	7,8,9,15
	KX5900	7,9,15
	KX6800	9,10,15,16
	KX60	9,15,16
	KX70	9
	7931	5,6,11,13
	7971	5,6,13,14
Wilson Hybrids, Inc.	1100b	9,10,15,16
Box 391	1440	9,10,15,16
Harlan, IA 51537	1500b	9,10,15
"Wilson"	1700	9,10,15,16

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