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1979 Corn Performance Trials

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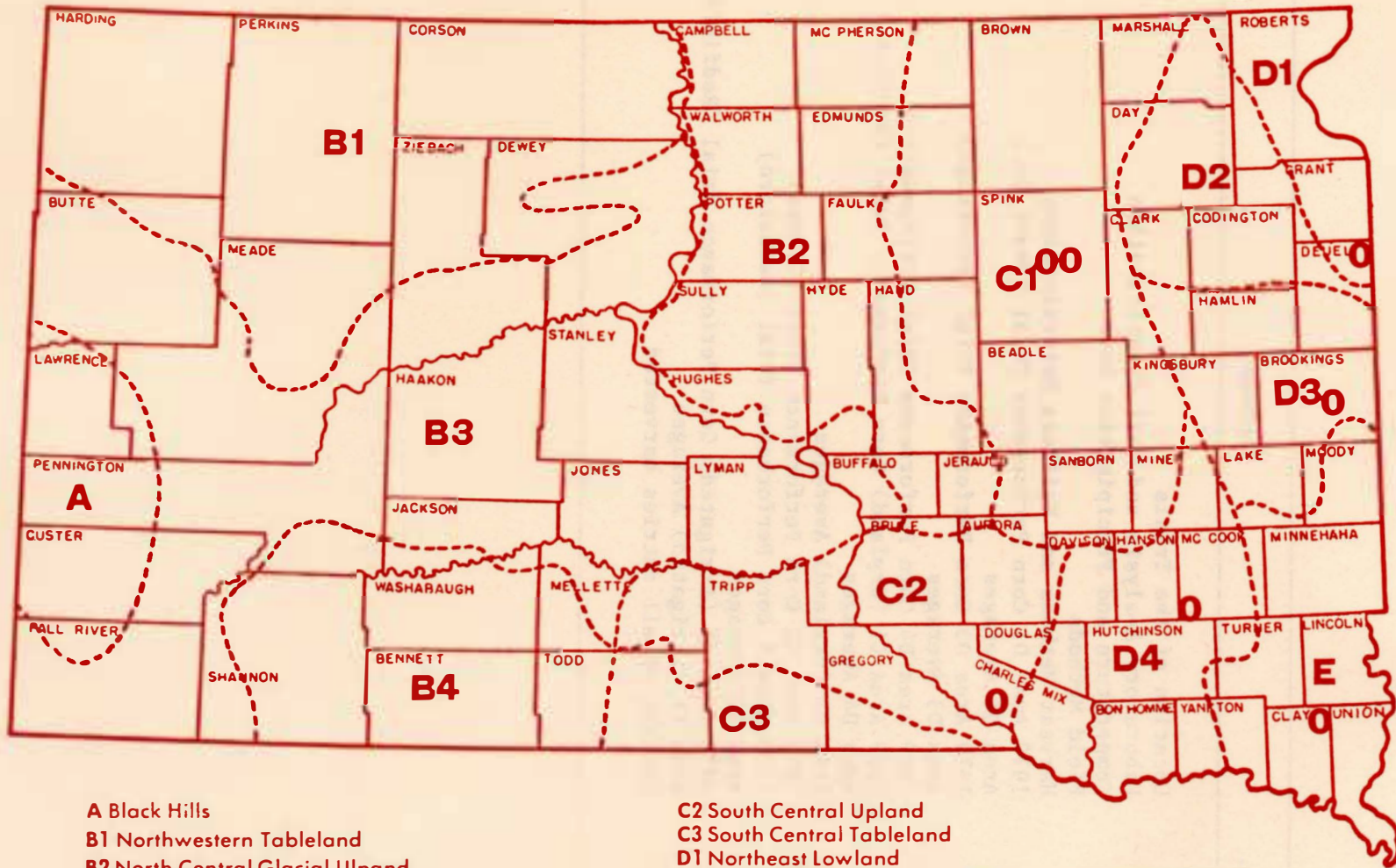
**Agricultural Experiment Station
South Dakota State University
Brookings**



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CROP ADAPTATION AREAS OF SOUTH DAKOTA

O - INDICATES SITE OF 1979 CORN PERFORMANCE TRIAL



A Black Hills
 B1 Northwestern Tableland
 B2 North Central Glacial Upland
 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

1979 Corn Performance Trials

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The relative performance of corn hybrids grown in 1979 under similar environmental conditions are evaluated in this report. Information in the accompanying tables includes grain yields in bushels per acre, moisture percentages of either ear corn or shelled corn at harvest, performance scores and other related information. Records of the corn hybrids harvested in 1979 and available two-, three-, and four-year averages of yield, moisture and stalk lodging percentages are also presented. The trials reported were conducted under the Plant Science Department program in Crop Performance Testing, Agricultural Experiment Station, South Dakota State University.

Location of the 1979 Trials

Trials were located in the crop adaptation areas marked on the accompanying map of South Dakota. The exact location of each trial and dates of seeding and harvesting are included in Table 1. The Area B2 site was discontinued. The soil classification, laboratory analyses of soil samples taken and fertility applied at each site are given in Table 2.

Weather and Climatic Conditions

1979 climatic data (Table 3) for the corn growing season, May-October, are based upon information obtained from a U.S. Weather Bureau station reasonably near each trial. The Milbank recording station is closest to the trial north of Gary in Deuel County. Stations are located at all other trial sites. 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.

The major part of the May precipitation occurred early in the month and the total was slightly above normal. Seeding was delayed in many parts of the state until after May 20 as over half the total acreage was seeded between May 20 and 27. The performance trials were seeded from May 15 through 23. Adequate soil moisture was present to assure good germination. Stands were quite uniform but growth was slow as temperatures were below normal. Temperatures remained below normal at most sites for every month but September. Total precipitation for the season was generally slightly above normal at most sites also. Though total precipitation was adequate, yields were also favored by below normal temperatures during most of the year allowing continued growth in the absence of the extreme temperatures and limited moisture stresses that usually occur. However, the slower growth combined with the absence of a killing freeze until mid-October delayed harvest as the corn, though physiologically mature, did not dry down. Plot harvest at Brookings was delayed until November 8 due to the

The assistance of the following individuals is appreciated: D. B. Shank and G. W. Erion of the Plant Science Department; Albert Dittman, Burt Lawrensen, Herb Lund, Kevin Kirby, Delbert Robbins and Lucian Edler of the stations; and cooperators William Fijala, John Heaton and Clifford Hofer.

Table 1. Location of the 1979 Corn Performance Trials

Area	County	Location	Post Office	Dates	
				Seeded	Harvested
Cl-dry	Spink	James Valley Res. Farm, 6E	Redfield	May 21	Nov. 6
Cl-irr.	Spink	James Valley Res. Farm, 6E	Redfield	May 21	Oct. 29
C2	Charles Mix	Wm. Fijala Farm, 2E, 1N	Geddes	May 23	Oct. 10
D1	Deuel	John Heaton Farm, 1W, 5N	Gary	May 18	Oct. 12
D3	Brookings	Plant Science Farm, 2NE	Brookings	May 15	Nov. 8
D4	McCook	Clifford Hofer Farm	Bridgewater	May 22	Oct. 23
E	Clay	Southeast Exp. Farm, 7W, 3S	Beresford	May 16	Oct. 25

high moisture content of the ears and stalks and to the rain and snow of late October. By mid-November only 80% of the entire state corn crop was harvested and heavy snows on top of already rain-soaked fields in the major production areas delayed harvest even further.

Because the stalks remained green at most sites until just before harvest, lodging was not generally a serious problem. Corn borers caused some problems at Geddes. The trial at Geddes dried down more rapidly than the others as rainfall was below normal in August and September. This caused some stress and the weakened ear shanks permitted high ear droppage when strong winds occurred in early October.

The irrigated trial at Redfield did not benefit from the additional applications of water in 1979. Initial growth was very slow and weeds were even a problem early in the year. These two problems combined with high populations and below normal temperatures the rest of the year apparently restricted growth and yield.

The growing season was longer than normal at most sites as the last hard freeze occurred April 30 and the first killing freeze for much of the state was either October 4 or 13. Lighter frost, 29-32°, occurred earlier but barely nipped the uppermost leaves of most crops.

Hybrid Entry Procedure

Hybrids entered are submitted by participating commercial companies and they designate the locations where their entries are to be grown. Hybrids registered with the South Dakota State Department of Agriculture prior to March 23, 1979, were eligible for entry. A fee was charged for each entry in each area except for hybrids included by Agricultural Experiment Station personnel. Either closed

Table 2. Laboratory analyses, soil classification and fertilizer applied to the 1979 corn performance trial fields.

Area	Soil Classification	% O.M.	P K		pH	Preparation and method	lb/A		
			lb/A				N	P	K
Cl-dry	Beotia SiCl	2.2	35	890	7.5	Disc(2) & harrow (oats)	80	40	0
Cl-irr.	Beotia SiCl	2.3	38	810	7.6	Disc(2) & harrow (sorghum)	80	40	0
C2	Highmore SiCl	2.9	17	999	6.8	Plowed & Disced (wheat)	100	0	0
D1	Forman SiCl	2.6	40	410	6.7	Plowed & Disced (soybeans)	80	60	20
D4	Clarno SiL	2.2	98	920	6.7	Plowed & Disced	0	0	0
E	Egan SiL	3.0	88	950	6.3	Plowed & Disced (sm. grain)	80	40	20

Table 3. Temperature and Precipitation Data for the 1979 Corn Growing Season in South Dakota.

District	Month	Temperature, °F				Precipitation inches			
		Mean Av.	Departure from normal	Av. departure	Days 90 ⁺	Month total	Departure from normal	Total departure	
Armour ^a	May	56.3	-3.4		1	3.09	+0.21		
	June	68.9	-0.2		8	3.25	-1.02		
	C2	July	74.2	-1.4		10	4.31	+1.62	
	Aug.	72.0	-2.1		9	0.94	-1.99		
	Sept.	67.3	+4.0		9	1.98	-0.29		
	Oct.	44.5	-7.8	-1.8	-	1.59	+0.04	-1.43	
	First freeze	10/13	- 25 ^o			16.07			
Bridgewater	May	M	b	b	-	M	b		
	June	69.5			4	3.23			
	D4	July	73.5			8	3.54		
	Aug.	71.2			4	3.92			
	Sept.	M			-	M			
	Oct.	50.2			-	1.89			
	First freeze	10/9	- 29 ^o			12.58			
Brookings	May	50.8	-5.4		-	3.61	+0.41		
	2 NE	June	63.9	-1.8		1	3.64	-0.94	
	July	69.8	-1.3		1	2.88	+0.04		
	D3	Aug.	65.5	-4.1		1	3.85	+0.99	
	Sept.	61.0	+2.0		1	1.04	-1.20		
	Oct.	44.5	+0.3	-1.7	-	3.44	+1.97	+1.27	
	First freeze	10/13	- 18 ^o			18.46			
Centerville	May	54.4	-6.3		-	4.01	+0.53		
	6 SE	June	67.0	-3.2		2	2.69	-2.01	
	July	72.1	-3.2		7	1.56	-1.55		
	E	Aug.	69.0	-4.9		3	5.11	+2.07	
	Sept.	63.6	-0.1		1	1.88	-0.80		
	Oct.	47.8	-5.4	-3.8	-	3.30	+1.65	-0.11	
	First freeze	10/13	- 15 ^o			18.55			
Milbank	May	49.9	-7.8		-	1.63	-1.42		
	2 SSW	June	63.3	-4.0		1	4.94	+0.63	
	July	69.5	-3.2		3	4.12	-0.76		
	D1	Aug.	65.8	-5.7		1	1.87	-0.70	
	Sept.	61.0	-0.1		3	0.19	-1.14		
	Oct.	44.9	-5.9	-4.4	-	3.74	+2.19	+1.20	
	First freeze	10/13	- 21 ^o			16.49			
Redfield	May	52.9	b	b	1	1.67	b		
	6 E	June	65.5			2	2.57		
	July	72.8			8	3.92			
	C1	Aug.	68.1			1	3.47		
	Sept.	63.6			4	0.00			
	Oct.	45.4			-	1.59			
	First freeze	10/4	- 24 ^o			13.22			

a - based upon reports of Monthly Climatic Data, National Climatic Center, Ashville, N.C.

b - Departures are figures from 30 years data. This station has not been in operation for that period of time.

or open pedigree hybrids are eligible and each was allowed to be entered once in each adaptation area. No more than seven entries from one company were accepted for each location. A listing of the firms, with brands and varieties harvested, is presented in Table 19.

In the years prior to 1975 check entries were hybrids released by the South Dakota Agricultural Experiment Station. In 1975 a change was made to use hybrids made up of inbreds frequently used by the industry. These are indicated in the trials as Check 3, 5, etc. The identities are as follows:

Check 1 - B73 x Mol7Ht	Check 5 - (W64AHt x W117Ht)(W153R x A632Ht)
Check 2 - A632Ht x A619Ht	Check 6 - (A641 x A635)(W153R)
Check 3 - W153R x W117Ht	Check 8 - A632Ht x C0109
Check 4 - W64Ht x W117Ht	

Seed of the hybrids was secured from Clyde Black & Sons, Inc., Ames, Iowa.

Several experimental hybrids have been included by Agricultural Experiment Station personnel for several years. The pedigrees of the hybrids included are listed below:

SDAES Ex 105 - (SD22 x A632	SDAES Ex 109 - (SD33 x 548-363)
SDAES Ex 108 - (B73 x 525-263)	

Experimental Procedure

The entries included in each trial were seeded in four or more replications. Two population levels were included at sites where climatic conditions generally are 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 the 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 the insecticide used in past years. A recommended short-residue preemergence herbicide was banded over the row at seeding at all sites. Atrazine was sprayed over the entire plot area at Brookings for grassy weed control.

The trials were seeded as drilled corn using 31-cell cone seeders mounted above commercial flexi-planter units with double disc openers. The seeding rate was 15% more kernels than the number of plants desired. Plots were thinned to the desired stands when necessary.

Measurements of Performance

Yield The yield reported for each hybrid is the average obtained from the yield weights of all replications, expressed as 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 yield differences obtained were caused by variations in environment or were true varietal differences. The 1979 variation coefficients at Bridgewater and Redfield (dryland) approached the upper limit desired but the remainder were within acceptable statistical limitations (5-15%).

A significant difference in yield was noted for the higher population at Brookings. No significance was obtained for different populations at the other sites.

Table 4. Field methods for the 1979 corn trial sites.

Area	Table No.	Number of Replications Harvested	Method of Seeding	Population Obtained	Row		
					Number of	Width, inches,	Length, feet
Cl-dry	11	4	drilled	11,725	1	36	36
Cl-irr.	17	2	drilled	19,130	1	36	36
Cl-irr.	17	2	drilled	22,280	1	36	36
C2	14	4	drilled	10,680	1	40	36
D1	6	4	drilled	16,045	1	38	36
D3	8	2	drilled	12,145	1	36	32
D3	8	2	drilled	16,090	1	36	32
D4	10	3	drilled	12,650	1	38	36
D4	10	3	drilled	16,050	1	38	36
E	15	2	drilled	15,700	1	36	32
E	15	2	drilled	19,385	1	36	32

To convert data in these tables to the metric system of kilograms or quintals per hectare use the following methods:

- I. - 1 bu. #2 shelled corn = 54 lb.; 1 lb. = .454 kilograms; 1 hectare = 2.471 acres; so, $54 \times .454 \times 2.471 = 60.6 \times B/A =$ kilograms per hectare
- II. - or assuming a yield of 60.3 B/A from the tables
 Step 1 = $60.3 B/A \times 54 \text{ lb/B} = 3258 \text{ lb/acre}$
 Step 2 = $3258 \text{ lb/acre} \times 1.121 = 3652 \text{ kilograms/hectare}$ or 36.5 quintals/hectare

Moisture content. The moisture content of each entry is expressed as the percentage of moisture in the ear corn or shelled corn at the time of harvest (Table 5). 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 entries.

Ear droppage and stalk breakage were not a severe problem in 1979 at most sites. Some very early maturity entries at all sites had stalk breakage and/or ear droppage at harvest. Corn borers contributed to the problem at Geddes, some varieties being more severely affected than others.

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

Table 5. Harvest methods and moisture determinations for the 1979 corn trials.

Area	Harvest method	Samples used for Moisture Determinations	Moisture Determined
Cl-dry	Picker-sheller	Shelled corn	Electronically
Cl-irr.	Picker-sheller	Shelled corn	Electronically
C2	Hand picked	Ear sections	Oven-dried
D1	Picker-sheller	Shelled corn	Oven-dried
D3	Picker-sheller	Shelled corn	Oven-dried
D4	Picker-sheller	Shelled corn	Oven-dried
E	Picker-sheller	Shelled corn	Electronically

operations 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. The cash grain operator who does not turn livestock into his fields after harvest will receive greater returns when the stalks remain upright so that the ears will go through his 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 varieties 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:

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

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.

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 planting a new hybrid the acreage should be limited until the hybrid's adaptation to the environment of the particular farm is known.

Table 6. 1979 Corn Performance Trial, Area D1, John Heaton Farm, Gary.

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT	PCT	PCT	PERCENT MOISTURE	PERFORMANCE SCORE RATING
			ROGCT LODGED	STALK LODGED	EARS DRIPPED		
CENEX 2119	E 2X	125.6	0.0	9.5	0.0	30.3	1
SOKOTA TS60	M 2X	124.5	0.0	1.8	0.0	31.6	2
KALTENBURG KX58	M 2X	122.3	0.0	3.0	0.0	35.1	6
WESTERN KX-35	M 2X	119.0	0.0	4.8	0.0	27.3	3
CENEX 2157	M 2X	116.9	0.0	4.8	0.0	34.6	14
SCAES EX 105	E 2X	114.7	0.0	7.7	0.0	27.8	10
PRICE 2320	E 2X	114.4	0.0	5.4	0.0	28.2	9
TROJAN TXS99	M 2X	114.3	0.0	1.2	0.0	27.4	5
TROJAN TXS94	E 2X	114.0	0.0	1.8	0.0	26.9	4
PAYCO SX680	E 2X	113.1	0.0	6.0	0.0	26.7	8
SOKOTA TS64	L 2X	112.6	0.0	1.2	0.0	32.3	17
SOKOTA TS62A	M 2X	112.8	0.0	2.4	0.0	30.8	13
CURRY SC-1400	E 2X	112.7	0.0	1.8	0.0	27.5	7
KALTENBURG KX44	M 2X	112.2	0.0	2.4	0.0	29.4	12
SCAES CHECK 5	M 2X	111.5	0.0	3.6	0.0	28.0	11
TROJAN TXS103	M M2X	111.1	0.0	1.8	0.0	30.5	15
SCAES CHECK 3	M 2X	109.2	0.0	6.0	0.0	28.1	18
JACQUES JX52	E 2X	107.5	0.0	3.0	0.0	27.7	19
ASGRW RX40	E M2X	107.4	0.0	2.4	0.0	26.8	16
SOKOTA TS44	E 2X	107.3	0.0	7.1	0.0	26.7	21
JACQUES JX107	E 2X	106.4	0.0	3.0	0.0	31.4	23
PRICE 2269	E 2X	105.3	0.0	7.1	0.0	24.7	20
ACCO UC2951	M 2X	104.6	0.0	2.4	0.0	30.1	24
ACCO UC1905	E 2X	104.5	0.0	6.0	0.0	29.3	26
CURRY SC-1414	M 2X	104.0	0.0	4.8	0.0	30.7	28
ACCO UC3002	M 2X	102.6	0.0	2.4	0.0	32.1	29
PRICE 2206	E 2X	99.8	0.0	7.1	1.8	22.8	22
WESTERN KX-333	M 3X	99.2	0.0	3.0	0.0	26.7	27
CENEX 2134	M 2X	98.5	0.0	0.6	0.0	30.7	30
TROJAN T 929	E 2X	97.2	0.0	4.8	0.0	22.6	25
PAYCO SX756	M M2X	95.1	0.0	1.8	0.0	34.2	33
KALTENBURG KX68	M 2X	93.4	0.0	0.6	0.0	33.9	34
ACCO UC1151	E 2X	88.6	0.0	2.4	0.0	27.6	32
TROJAN TX90	E M2X	88.5	0.0	3.6	0.0	24.2	31
ACCO UC2851	M 2X	84.7	0.0	3.0	0.0	32.0	36
SOKOTA TS58	M 2X	84.4	0.0	1.2	0.0	31.6	35
Means		106.7		3.6		29.1	
LSD (.05)		16.9				C.V. = 11.3%	

Table 7. Area D1 2-, 3-, and 4-year yield, moisture and stalk lodging averages of corn hybrids, 1976-1979.

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
	ACCO UC 1905			93			5		
ACCO UC 2951			99			7			28
CHECK #3		99	97		5	6		23	25
CHECK #5			91			3			27
PAYCO SX 680		90	101		3	4		24	25
PRICE 2206		90	89		4	5		21	22
SCAES EX 105		103	103		4	5		24	25
SOKOTA TS 62A			102			2			30
SOKOTA TS-64		107	106		2	1		21	22

Table 8. 1979 Corn Performance Trial, Area D3, Plant Science Farm, Brookings

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LDCGCD	PCT STALK LDCGED	PCT EARS DRCPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
PAYCO SX775	M 2X	153.3	0.0	3.2	0.0	22.4	1
CURRY SC-1421	M 2X	151.4	0.0	4.8	0.0	24.0	4
SCKOTA TS58	M 2X	151.1	0.0	0.8	0.0	21.9	2
ACCO UC3301A	M 2X	147.3	0.0	0.8	0.0	24.7	9
KALTENBURG KX58	M 2X	147.1	0.0	0.8	0.0	23.8	7
CENEX 2157	M 2A	146.4	0.0	7.3	0.0	23.3	11
PRIDE 5578	M 2X	146.1	0.0	4.8	0.0	21.5	6
SCKOTA TS60	M 2X	145.8	0.0	1.6	0.0	23.1	8
CENEX 2119	E 2X	145.2	0.0	2.4	0.0	19.2	3
ASGROW RX40	E M2X	145.0	0.0	0.8	0.0	20.5	5
ASGROW RX58	M 2X	143.5	0.0	5.7	0.0	23.7	14
NORTHRUP KING PX45	M 2X	142.2	0.0	3.2	0.0	22.4	12
CARGILL 872	M M2X	142.1	0.0	12.1	0.0	23.8	18
ACCO UC3002	M 2X	141.8	0.0	4.0	0.0	22.8	13
TCP FARM TF106A	M 2X	141.5	0.0	2.4	0.0	20.3	10
PRIDE 4488	M 2X	140.5	0.0	0.0	0.0	23.3	15
SCKOTA TS64	L 2X	139.1	0.0	6.3	0.0	21.7	17
NORTHRUP KING PX37	M 2X	138.9	0.0	2.4	0.0	22.8	16
MC CURDY MSX37	E 2X	138.8	0.0	33.6	0.0	20.4	38
MC CURDY 5556	M 2X	138.3	0.0	1.6	0.0	25.5	24
P-A-G SX397	M 2X	138.2	0.0	0.8	0.0	28.2	31
PRIDE 5585	M 2X	136.5	0.0	1.6	0.0	23.5	22
TROJAN TXS102	M 2X	136.4	0.0	0.0	0.0	23.7	20
JACQUES JX107	E 2X	134.8	0.0	0.8	0.0	22.2	21
SCKOTA TS62A	M 2X	134.5	0.0	3.2	0.0	21.6	23
BLANEY B605WX	M 2X	134.1	0.0	4.0	0.0	20.3	19
ACCO UC2851	M 2X	134.1	0.0	0.8	0.0	22.5	25
TROJAN TXS103	M M2X	133.6	0.0	3.2	0.0	22.5	27
DE KALB XL-25A	M 2X	132.4	0.0	2.4	0.0	21.6	26
P-A-G SX 185	E M2X	131.8	0.0	3.2	0.0	21.2	28
PAYCO SX844	L 2X	131.5	0.0	0.0	0.0	22.9	32
BLANEY B507	M 2X	131.4	0.0	1.6	0.0	21.9	30
TCP FARM TF97	M 2X	131.1	0.0	2.5	0.0	21.0	29
FUNKS G-4444	M 2X	130.9	0.0	7.4	0.0	24.9	47
DISCO SX-24	M 2X	130.9	0.0	0.0	0.0	24.9	37
FUNKS G-4323	M M2X	130.7	0.0	3.2	0.0	23.0	36
WESTERN KX55	M 2X	130.7	0.0	4.1	0.0	25.1	43
WESTERN KX56	M 2X	130.2	0.0	3.2	0.0	21.6	33
REA 96	M 3X	129.8	0.0	4.8	0.0	20.8	34
MC CURDY MSX42	M 2X	128.7	0.0	4.0	0.0	23.8	45
MC CURDY MSX44A	M 2X	128.4	0.0	3.2	0.0	25.4	52
TROJAN T 1058	M 2X	128.0	0.0	0.8	0.0	23.7	41
MC CURDY MSF111	E 3X	127.9	0.0	0.0	0.0	20.9	35
PAYCO SX756	M M2X	127.7	0.0	0.8	0.0	23.6	42
DE KALB XL-23	E 2X	126.4	0.0	0.8	0.0	21.5	39
BLANEY B606	M 2X	125.8	0.0	0.8	0.0	23.3	49
CENEX 2134	M 2X	125.6	0.0	1.7	0.0	22.1	46
NORTHRUP KING PX24	E 2X	124.8	0.0	5.6	0.0	20.4	48
CURRY SC-1400	E 2X	124.5	0.0	1.6	0.0	20.3	40
CARGILL 852	M M2X	124.4	0.0	3.2	0.0	24.4	57
DISCO SX-16AA	M 2X	124.3	0.0	3.2	0.0	21.3	50
JACQUES JX177	M 2X	123.8	0.0	0.8	0.0	24.7	56
P-A-G SX177	E M2X	123.1	0.0	9.7	0.0	20.1	55
TCP FARM TF103	M 2X	123.1	0.0	0.8	0.0	21.8	53
TCP FARM TF356	E 3X	122.3	0.0	1.6	0.0	18.9	44
KALTENBURG KX68	M 2X	121.4	0.0	1.7	0.0	23.4	59
REA SUPER 40	M 3X	121.0	0.0	1.6	0.0	24.1	61
FUNKS G-4195	E 3X	120.9	0.0	5.6	0.0	18.9	54
ASGROW RX544	M M2X	119.8	0.0	1.6	0.0	24.4	64
DE KALB XL-15	E 2X	119.4	0.0	2.4	0.0	18.0	51
FUNKS G-4224	M M2X	119.3	0.0	2.4	0.0	20.6	58

Table 8. (continued)

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT	PCT	PCT	PERCENT MCISTURE	PERFORMANCE SCORE RATING
			RCCT LCDGEC	STALK LCDGED	EAR CRCPEEC		
P-A-G SX 547	M 3X	118.1	0.0	3.2	0.0	24.0	65
ACCO UC2951	M 2X	117.8	0.0	4.0	0.0	21.5	62
CARGILL 838	E M2X	117.6	0.0	6.6	0.0	20.6	63
CARGILL 430	E 3X	117.5	0.0	7.2	0.0	22.6	68
P-A-G SX67	E 2X	117.3	0.0	4.8	0.0	19.5	60
ASGROW RX549	M 2X	116.9	0.0	6.3	0.0	24.5	71
MC CURDY 77-49	M 2X	116.1	0.0	0.0	0.0	23.8	67
SCKCTA SS51	M M2X	114.8	0.0	2.4	0.0	21.5	66
REA 94	M 2X	112.0	0.0	0.0	0.0	21.1	69
SCKCTA TS44	E 2X	111.0	0.0	0.8	0.0	20.5	70
TOP FARM TF100	M 2X	109.6	0.0	4.0	0.0	21.5	72
Means		130.7		3.3		22.4	
LSD (.05)		14.4					
						C.V. = 7.9%	

Table 9. Area D3 2-, 3-, and 4-year yield, moisture and stalk lodging averages of corn hybrids, 1976-1979.

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
ACCC UC 3002			140			4			21
ACCC UC 3301A			149			5			22
ASGROW RX 40		122	135		4	5		20	18
CARGILL 430			117			6			20
CARGILL 838		111	116		6	7		20	18
CENEX 2157			149			9			22
CURRY SC-1421			150			4			21
FUNKS G-4195	50	103	111	5	6	6	18	18	17
FUNKS G-4224			117			2			18
FUNKS G-4322			126			3			22
FUNKS G-4444			127			7			22
MC CURDY MSP 111	102	116	123	4	4	4	19	20	19
MC CURDY MSX 37		125	138		15	20		20	18
MC CURDY MSX 42	103	119	130	4	4	4	22	23	21
MC CURDY MSX 44A	107	123	131	5	5	6	22	23	22
NCRTHRUP-KING PX 37			135			2			21
NCRTHRUP-KING PX 45			139			4			20
P-A-G SX 177		114	128		8	11		19	19
P-A-G SX 189		116	125		3	5		21	20
P-A-G SX 397			139			1			24
P-A-G SX 67			110			4			18
PAYCO SX 775	110	127	141	3	4	4	21	21	20
PAYCO SX 844			125			2			22
PRICE 4488		125	137		1	0		22	22
PRICE 5578			141			5			20
PRICE 5585			140			4			21
SGKOTA SS-51	54	107	111	4	4	4	19	20	19
SCKCTA TS-44			112			1			19
SCKOTA TS-62A			127			3			20
SCKCTA TS-64		129	135		5	7		22	20
TCP FARM SX 100		104	106		3	4		20	19
TCP FARM SX 103			117			1			19
TCP FARM SX 106A			123			5			19
TCP FARM SX 57		113	121		3	4		20	19
TROJAN TXS 102	108	124	136	4	4	4	22	23	21
WESTERN KX55			132			4			22

Table 10. 1979 Corn Performance Trial, Area D4, Clifford Hofer Farm, Bridgewater.

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LCDGED	PCT STALK LCDGED	PCT EARS DRIPPED	PERCENT MCISTURE	PERFORMANCE SCORE RATING
ACCO UC8201	L 2X	133.8	0.0	0.0	0.0	31.7	3
NCRTHRUP KING PX603	M 3X	129.9	0.0	0.4	0.0	27.0	2
PRICE 6678	L 2X	129.5	0.0	0.9	0.0	26.1	1
TRCJAN TXS115A	L 2X	126.6	0.0	0.0	0.0	31.8	5
CISCO SX1E	M 2X	126.0	0.0	2.6	0.0	24.9	4
CARGILL 924	M M2X	123.6	0.0	0.4	0.0	31.8	7
CURRY SC-1455	M 2X	119.5	0.0	0.5	0.0	29.3	10
ACCO UC7951	L 2X	119.2	0.0	2.1	0.0	33.9	21
MC CURDY MSX46	M 2X	118.4	0.0	0.4	0.0	25.7	6
NCRTHRUP KING PX72	L 2X	118.2	0.0	0.0	0.0	35.7	28
KALTENBURG KX58	M 2X	117.7	0.0	1.8	0.0	27.6	12
GREEN ACRES X2000	M 4X	116.0	0.0	0.0	0.0	32.3	24
TCP FARM TF103	M 2X	115.2	0.0	0.4	0.0	25.3	11
NCRTHRUP KING PX45	M 2X	115.0	0.0	0.9	0.0	24.2	9
SCAES CHECK 2	L 2X	114.8	0.0	0.4	0.0	25.6	14
TCP FARM TF106A	M 2X	114.5	0.0	0.0	0.0	23.3	8
LYNKS LX4220A	M 2X	114.3	0.0	0.5	0.0	26.9	17
PRIDE 557E	M 2X	113.9	0.0	0.9	0.0	24.5	13
CURRY SC-1422	M 2X	113.6	0.0	0.8	0.0	26.2	16
CURRY SC-1421	M 2X	113.4	0.0	0.4	0.0	26.2	18
P-A-G SX277	M M2X	113.2	0.0	0.4	0.0	30.7	27
WILSON 1400A	M 2X	112.6	0.0	0.0	0.0	28.7	22
PRICE 44EE	M 2X	112.5	0.0	0.0	0.0	28.2	20
LYNKS LX412C	M 2X	111.5	0.0	0.9	0.0	25.3	19
CENEX 2134	M 2X	110.9	0.0	0.9	0.0	27.7	25
MC CURDY MSX37	E 2X	110.8	0.0	0.5	0.0	22.8	15
KALTENBURG KX68	M 2X	108.3	0.0	1.8	0.0	27.9	29
P-A-G SX397	M 2X	107.1	0.0	1.3	0.0	32.2	44
TCP FARM TF100	M 2X	107.0	0.0	1.9	0.0	23.8	26
ASGFOW RX40	E M2X	106.7	0.0	2.2	0.0	22.5	23
LYNKS LX4305	L 2X	106.7	0.0	0.4	0.0	28.1	32
CENEX 2157	M 2X	106.0	0.0	1.3	0.0	26.5	31
CENEX 2203	M 2X	105.9	0.0	0.9	0.0	29.6	38
ASGFOW RX58	M 2X	105.8	0.0	2.0	0.0	25.9	30
ASGFOW RX549	M 2X	105.6	0.0	1.3	0.0	29.3	40
ACCO UC4201	M 2X	104.9	0.0	0.0	0.0	30.3	43
GREEN ACRES GA617	L 4X	104.5	0.0	0.0	0.0	33.7	50
CARGILL 892	M M2X	104.4	0.0	2.7	0.0	27.7	39
ASGFOW RX544	M M2X	104.1	0.0	0.5	0.0	29.1	42
TROJAN TXS102	M 2X	104.0	0.0	0.4	0.0	26.1	33
ACCO UC3301A	M 2X	103.5	0.0	3.2	0.0	25.9	36
CURRY SC-1414	M 2X	102.9	0.0	0.9	0.0	25.0	34
WILSON 1016	E 2X	102.4	0.0	0.9	0.0	25.4	35
NCRTHRUP KING PX65A	L 2X	102.2	0.0	0.4	0.0	29.4	46
WILSON 1800	L 2X	101.2	0.0	0.5	0.0	33.5	52
MC CURDY 77-49	M 2X	101.0	0.0	0.9	0.0	24.9	37
TRCJAN T 105E	M 2X	100.3	0.0	0.0	0.0	29.2	48
WESTERN KX64	L 2X	100.0	0.0	0.4	0.0	33.7	55
PAYCO SX844	L 2X	99.4	0.0	0.5	0.0	28.0	47
SCAES CHECK 5	M 4X	99.3	0.0	1.8	0.0	23.9	41
TOP FARM TF110	M 2X	99.2	0.0	0.0	0.0	25.1	45
CISCO SX24	M 2X	98.6	0.0	0.9	0.0	31.6	54
CARGILL 924	L 2X	98.4	0.0	0.0	0.0	34.4	57
CENEX 2371	L 2X	98.0	0.0	0.0	0.0	32.5	56
MC CURDY MSX44A	M 2X	96.5	0.0	2.8	0.0	28.5	53
TCP FARM TF57	M 2X	96.2	0.0	1.7	0.0	25.1	49
P-A-G SX249	M M2X	95.8	0.0	0.5	0.0	28.3	51
P-A-G 547	M 3X	87.5	0.0	1.4	0.0	29.6	58
PAYCO SX590	L 2X	83.2	0.0	1.9	0.0	33.6	59
WESTERN KX62C	L 3X	75.4	0.0	0.5	0.0	33.8	60
Means		108.1		0.9		28.3	

LSD (.05)

20.0

C.V. = 16.3%

Table 11. 1979 Corn Performance Trial, Area C1 (dryland) James Valley Research Farm, Redfield.

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LDCGED	PCT STALK LDCGED	PCT EARS DROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
CURRY SC-1422	M 2X	109.9	0.0	25.2	0.0	20.3	4
SCKCTA TS58	M 2X	107.8	0.0	8.3	0.0	18.4	1
NCRTRUP KING PX45	M 2X	105.6	0.0	9.3	0.0	19.7	2
WESTERN KX55	M 2X	104.4	0.0	6.6	0.0	20.1	3
SCKOTA TS62A	M 2X	98.8	0.0	11.8	0.0	18.2	7
PRIDE 4488	M 2X	98.4	0.0	0.0	0.0	19.2	5
CENEX 3123	E 3X	97.4	0.0	8.0	0.0	17.7	6
TROJAN TXS102	M 2X	97.4	0.0	16.2	0.0	19.7	11
CENEX 3018	E 3X	96.5	0.0	12.5	0.0	16.8	9
CENEX 2111	E 2X	96.4	0.0	13.3	0.0	18.2	10
PAYCO SX637	E 2X	95.8	0.0	8.1	0.0	16.7	8
CURRY SC-1444	M 2X	95.1	0.0	16.7	0.0	18.3	17
SCKCTA 5567	L M2X	95.0	0.0	11.0	0.0	19.4	13
CENEX 2119	E 2X	93.3	0.0	11.3	0.0	16.4	12
CURRY SC-1424	M 2X	92.3	0.0	6.8	0.0	17.5	14
ACCO UC3002	M 2X	92.1	0.0	9.0	0.0	19.6	19
ACCG UC1905	M 2X	92.1	0.0	16.4	0.0	17.0	21
ASGROW RX58	E M2X	91.9	0.0	32.2	0.0	19.1	35
DE KALB XL-23	E 2X	91.9	0.0	19.0	0.0	19.1	26
PAYCO SX756	M M2X	91.8	0.0	5.1	0.0	20.8	20
DE KALB XL-15	E 2X	91.7	0.0	6.6	0.0	17.1	15
SCKCTA TS44	E 2X	91.5	0.0	6.9	0.0	18.4	18
PRIDE R-328	E 3X	90.8	0.0	23.0	0.0	18.5	31
TCP FARM TF106A	M 2X	90.1	0.0	3.4	0.0	16.7	16
TROJAN T 10C8	M 2X	88.9	0.0	7.0	0.0	18.2	22
PAYCO SX680	E 2X	88.5	0.0	6.8	0.0	18.9	23
TCP FARM TF100	M 2X	88.1	0.0	7.4	0.0	18.2	24
TROJAN TX594	E 2X	87.6	0.0	5.4	0.0	18.6	25
TCP FARM TF396	E 3X	86.8	0.0	10.0	0.0	16.8	28
FUNKS G-4195	E 3X	86.1	0.0	32.8	0.0	16.7	41
JACQUES JX107	E 2X	85.9	0.0	4.3	0.0	18.4	29
SCAES CHECK 4	M 2X	85.6	0.0	6.6	0.0	19.1	32
ACCO UC2951	M 2X	85.5	0.0	2.6	0.0	17.5	27
NCRTRUP KING PX37	M 2X	85.4	0.0	3.5	0.0	18.5	30
CURRY SC-1400	E 2X	85.4	0.0	9.2	0.0	18.0	33
PAYCO SX844	L 2X	85.0	0.0	4.3	0.0	19.5	34
TROJAN T 1058	M 2X	84.9	0.0	10.0	0.0	21.2	38
SCAES CHECK 5	M 4X	84.4	0.0	9.0	0.0	18.5	36
PRIDE 4417	M 2X	82.9	0.0	7.6	0.0	17.8	37
TCP FARM TF97	M 2X	82.8	0.0	14.0	0.0	18.3	40
ACCO U322	E 3X	82.2	0.0	10.0	0.0	17.7	39
FUNKS G-4180	E 3X	78.1	0.0	6.4	0.0	17.8	42
DE KALB XL-25A	M 2X	77.7	0.0	5.8	0.0	18.5	43
JACQUES JX52	E 2X	74.9	0.0	6.2	0.0	18.6	44
WESTERN KX475	M 3X	71.4	0.0	15.4	0.0	18.0	45
SCAES CHECK 8	E 2X	68.5	0.0	9.7	0.0	16.4	46
FUNKS G-4085	E 3X	64.8	0.0	18.6	0.0	16.4	47
SCAES CHECK 6	E 3X	38.5	0.0	7.7	0.0	16.8	48
Means		88.3		10.6		18.3	

LSD (.05)

17.6

C.V. = 14.3%

Table 12. Area D4 2-, 3-, and 4-year yield, moisture and stalk lodging averages of corn hybrids, 1976-1979.

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
ACCO UC 3301A		111	128		0	7		23	22
ACCO UC 7951			131			6			26
CARGILL 924			139			2			27
CENEX 2157			137			10			23
CENEX 2203			115			1			24
CHECK =2	82	96	111	7	0	8	20	21	20
CHECK =5			96			7			21
DISCO SX 24			121			2			25
LYNKS LX4120			121			6			22
LYNKS LX4220A			122			1			23
MC CURDY MSX 37		106	123		4	5		20	20
MC CURDY MSX 44A			121			9			23
MC CURDY MSX 46	96	112	127	1	2	1	21	23	22
MC CURDY 77-49			123			5			21
NORTHRUP-KING PX 49			124			5			21
NORTHRUP-KING PX 603			130			5			24
P-A-G SX 397		116	129		4	5		26	26
PAYCO SX 844			120			2			24
PAYCO SX 990			115			2			29
PRIDE 4488		113	125		1	1		23	23
PRIDE 5578			124			9			21
PRIDE 6678			138			4			25
WESTERN KX 64			119			2			27
WILSON 1016	92	103	121	4	5	5	21	22	21
WILSON 1400A			114			1			24
WILSON 1800			120			2			29

Table 13. Area C1 (dryland) 2-, 3-, and 4-year yield, moisture and stalk lodging averages of corn hybrids, 1976-1979.

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 2111			90			7			16
CHECK =4	70	83	87	2	2	3	21	19	18
CHECK =5			85			5			18
CHECK =8	57	70	72	4	5	6	19	16	15
CURDY SC-1422			107			15			18
FUNKS G-4085		67	67		7	9		16	15
FUNKS G-4195	62	74	78	0	12	17	20	17	15
NORTHRUP-KING PX 37			87			2			19
NORTHRUP-KING PX 40			102			5			19
PAYCO SX 680	71	82	84	2	2	3	21	18	17
PAYCO SX 844			87			2			19
PRIDE P-328			89			12			17
PRIDE 4417		82	85		3	4		18	17
PRIDE 4488		87	91		0	0		20	18
SOKOTA SS-67			98			6			18
SOKOTA TS-44		83	87		3	3		18	16
SOKOTA TS-62A			92			6			18
TOP FARM SX 100		85	89		3	5		18	17
TOP FARM SX 97		80	83		6	8		17	16
TRIJAN TXS 102		96	98		6	9		21	19
WESTERN KX-55			97			4			20

Table 14. 1979 Corn Performance Trial, Area C2, William Fijala Farm, Geddes.

BRAND AND VARIETY	TYPE AND CRCS	YIELD B/A	PCT KCOB LODGED	PCT STALK LODGED	PCT EARS DRIPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
DE KALB XL-3E2AA	L 3X	80.8	0.0	0.8	10.5	30.6	3
CARGILL 949	L M2X	76.8	3.4	0.9	9.5	21.3	2
TCP FARM TF106A	M 2X	72.8	0.0	0.8	18.2	11.8	1
ACCO UC3301	M 2X	72.3	0.0	0.8	19.0	17.7	4
CURRY SC-1422	M 2X	71.6	0.0	3.4	24.8	21.9	7
TROJAN T 112C	L 2X	71.3	0.0	0.0	4.0	26.0	11
DE KALB XL-32A	M 2X	70.5	0.0	0.8	13.3	20.7	5
LYNKS LX4226A	M 2X	69.0	0.0	1.7	19.7	18.1	9
WESTERN KX55	M 2X	68.1	0.0	1.7	9.1	21.7	14
CURRY SC-1451	M 2X	68.1	0.0	0.0	9.3	19.3	10
CENEX 2119	E 2X	67.5	0.0	3.4	7.8	14.7	6
TCP FARM TR103	M 2X	67.2	0.0	0.0	10.8	15.5	8
LYNKS LX4305	L 2X	66.6	0.0	2.6	14.7	21.0	18
CURRY TC-343A	M 3X	66.1	0.0	0.9	9.5	23.6	23
ASGROW RX58	M 2X	65.9	0.0	12.3	26.2	16.0	16
CENEX 2157	M 2X	65.6	0.0	3.7	29.4	15.6	13
PAYCO SX844	L 2X	65.5	0.0	0.8	20.7	20.5	19
ASGROW RX545	M 2X	65.4	0.0	2.5	23.3	20.1	20
PRIDE 771C	L 2X	65.0	0.0	0.9	6.0	34.5	35
P-A-G SX277	M M2X	64.5	0.0	0.0	16.8	25.2	27
SCAES CHECK 2	L 2X	64.2	0.0	5.1	11.0	14.6	15
CURRY SC-1455	M 2X	64.1	0.0	2.5	15.3	21.6	24
DISCO SX-24	M 2X	63.9	0.0	2.6	20.5	24.5	29
ACCO LC4201	M 2X	63.8	0.0	34.5	10.7	27.5	43
TOP FARM TF110	M 2X	63.5	0.0	2.5	14.3	12.0	12
NORTHROP KING PX603	M 3X	63.0	0.0	10.1	16.3	24.2	31
DE KALB XL-25A	M 2X	62.8	0.0	0.8	11.3	16.3	21
PRIDE 5578	M 2X	62.7	0.0	5.6	33.6	18.6	25
CARGILL 934	L 2X	62.4	0.0	1.9	7.6	30.6	37
TROJAN T 1058	M 2X	62.4	0.0	1.6	4.9	20.6	26
ASGROW RX544	M M2X	62.4	0.0	1.7	12.9	21.3	28
DE KALB XL-55A	M 2X	61.4	0.0	5.9	8.5	29.3	39
ASGROW RX40	E M2X	61.4	0.0	3.4	20.7	11.6	17
DISCO SX29	L 2X	61.0	0.0	5.2	20.9	26.4	36
PRIDE 7715	L 2X	60.5	0.0	1.8	16.1	31.3	41
WESTERN KX56	M 2X	60.3	0.0	0.0	11.9	13.4	22
PAYCO SX756	M M2X	60.1	11.5	3.5	16.8	23.1	33
NORTHROP KING PX65A	L 2X	60.0	0.0	0.9	12.1	22.4	32
ACCO UC8201	L 2X	59.3	0.0	3.3	11.5	31.8	44
CARGILL 524	M M2X	59.0	0.0	2.8	11.0	26.1	38
LYNKS LX412C	M 2X	58.9	0.0	2.6	10.5	21.4	34
CENEX 2134	M 2X	57.4	0.0	0.8	11.1	16.4	30
CURRY TC-347	L 3X	56.9	0.0	5.2	5.2	29.9	45
NORTHROP KING PX74	L 2X	56.8	0.0	4.5	10.0	33.8	46
PRIDE 6678	L 2X	55.5	0.0	0.0	4.2	23.4	42
NORTHROP KING PX72	L 2X	55.4	0.0	4.9	5.7	32.3	47
CARGILL 892	M M2X	54.6	0.0	1.8	15.8	20.8	40
JACQUES JX180	L 2X	52.1	0.0	2.8	9.3	34.2	49
TROJAN TXS 115A	L 2X	51.0	0.0	3.6	11.7	31.9	48
Means		63.6		3.3		22.6	

LSD (.05)

12.0

C.V. = 13.5%

Table 15. 1979 Corn Performance Trial, Area E, Southeast Experiment Farm, Beresford.

BRAND AND VARIETY	TYPE AND CLASS	YIELD B/A	PCT ROCT LODGE	PCT STALK LGDGE	PLT EARS DRCPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
PRIDE 7715	L 2X	175.3	0.0	0.6	0.0	28.3	1
CURRY SC-1505	L 2X	176.4	0.0	0.6	0.0	29.3	2
MC CURDY MSX 84	L 2X	171.5	0.0	2.5	0.0	27.9	4
SCAES EX 10E	M 2X	169.1	0.0	5.3	0.0	27.8	9
NORTHRUP KING PX74	L 2X	168.5	0.0	0.0	0.0	27.7	6
ACCO UC82G1	L 2X	168.3	0.0	0.7	0.0	27.9	8
P-A-G SX333	L 2X	167.5	0.0	1.9	0.0	29.1	12
REA 111	L 2X	165.5	0.0	1.3	0.0	27.1	11
SCKCTA TX18C	L 2X	165.2	0.0	1.3	0.0	28.3	13
KALTENBURG KX58	M 2X	164.2	0.0	1.9	0.0	21.8	3
CARGILL 549	L M2X	163.8	0.0	0.0	0.0	28.2	15
NORTHRUP KING PX72	L 2X	163.8	0.0	1.3	0.0	30.4	20
FUNKS G-4507	L 2X	162.7	0.0	4.5	0.0	29.4	24
SCKCTA TS62A	M 2X	160.1	0.0	1.3	0.0	20.8	5
GENEX 2380	L 2X	159.5	0.0	2.5	0.0	27.3	21
RBA SUPER 4	L 2X	159.3	0.0	2.6	0.0	26.8	22
WILSON 1800	L 2X	159.2	0.0	3.9	0.0	28.1	29
FUNKS G-4323	M M2X	158.5	0.0	0.6	0.0	20.6	7
MC CURDY 555E	M 2X	158.8	0.0	1.3	0.0	21.9	10
DE KALB XL-62AA	L 2X	157.0	0.0	0.6	0.0	26.6	25
SCKCTA TX82	L 2X	156.4	0.0	1.3	0.0	28.7	39
CURRY SC-150	L 2X	156.1	0.0	0.0	0.0	27.9	34
MC CURDY MSX 77	L 2X	155.5	0.0	3.8	0.0	27.1	38
CURRY SC-1455	M 2X	155.4	0.0	1.3	0.0	23.4	17
KALTENBURG KX76	L 2X	154.8	0.0	0.6	0.0	28.9	43
BLANEY B606	M 2X	154.6	0.0	0.0	0.0	22.0	16
BLANEY B507	M 2X	154.0	0.0	0.0	0.0	21.1	14
LYNKS LX4305	L 2X	153.1	0.0	1.9	0.0	23.7	26
NORTHRUP KING PX65A	L 2X	152.7	0.0	1.9	0.0	24.0	30
LYNKS LX4220A	M 2X	152.6	0.0	0.6	0.0	22.3	19
CURRY TC-347	L 3X	152.0	0.0	2.0	0.0	26.8	46
TROJAN TXS 115A	L 2X	151.9	0.0	1.3	0.0	28.5	55
FUNKS G-4445	L 2X	151.5	0.0	1.3	0.0	23.9	32
DISCO SX-24	M 2X	151.3	0.0	0.6	0.0	23.0	27
KALTENBURG KX68	M 2X	151.1	0.0	0.7	0.0	21.7	23
CURRY SC-1444	M 2X	150.5	0.0	1.3	0.0	20.7	18
SCAES CHECK 1	L 2X	150.5	0.0	1.3	0.0	28.7	57
CARGILL 924	M M2X	150.7	0.0	0.0	0.0	23.9	33
ACCO LC75E1	L 2X	150.5	0.0	3.9	0.0	29.8	65
CARGILL 872	M M2X	150.5	0.0	2.6	0.0	23.0	35
FONTANELLE 420	M 2X	150.1	0.0	0.7	0.0	23.0	31
P-A-G SX357	M 2X	149.3	0.0	4.5	0.0	22.9	40
ACCO UC42C1	M 2X	149.1	0.0	1.9	0.0	25.5	54
DE KALB XL-54	M 2X	148.5	0.0	0.0	0.0	25.5	51
WILSON 1400A	M 2X	148.1	0.0	1.9	0.0	21.9	36
LYNKS LX412C	M 2X	147.6	0.0	0.6	0.0	20.6	28
DE KALB XL-55A	M 2X	147.6	0.0	3.9	0.0	22.9	45
MC CURDY 6475	M 2X	147.5	0.0	0.6	0.0	24.6	52
MC CURDY MSX 6C	L 2X	147.4	0.0	0.6	0.0	26.3	56
PRIDE 771C	L 2X	147.1	0.0	0.0	0.0	30.0	74
ASGROW RX545	M 2X	146.5	0.0	0.7	0.0	23.9	49
JACQUES JX18C	L 2X	146.6	0.0	1.5	0.0	28.0	68
CARGILL 534	L 2X	146.6	0.0	1.3	0.0	26.2	59
GENEX 2157	M 2X	146.2	0.0	0.0	0.0	21.3	37
FONTANELLE 430	M 2X	145.5	0.0	0.6	0.0	21.9	42
CURRY SC-1422	M 2X	145.8	0.0	0.0	0.0	23.0	47
BLANEY B606EWX	M 2X	145.3	0.0	2.6	0.0	20.7	41
FONTANELLIUS C353X	M 2X	145.0	0.0	2.1	0.0	22.2	50
FONTANELLE 45C	L 2X	144.7	0.0	0.6	0.0	27.1	70
ASGROW RX90	L 2X	144.7	0.0	5.1	0.0	28.7	77
P-A-G SX249	M M2X	144.2	0.0	1.3	0.0	24.5	58

Table 15. (continued)

BRAND AND VARIETY	TYPE AND CROSS		YIELD B/A	PCT	PCT	PCT	PERCENT MOISTURE	PERFORMANCE SCORE RATING
				ROTT LODGED	STALK LODGED	EARS DAMAGED		
REA 104	M	2X	143.6	0.0	0.0	0.0	21.1	44
PRIDE 6678	L	2X	143.1	0.0	3.2	0.0	23.9	60
TROJAN T 112C	L	2X	142.5	0.0	1.3	0.0	27.6	75
SCKCTA TX64	L	2X	142.8	0.0	1.3	0.0	20.6	48
FUNKS G-4444	M	2X	142.2	0.0	0.0	0.0	21.2	53
PRIDE 6609	M	2X	141.7	0.0	6.3	0.0	23.3	71
P-A-G 3X277	M	M2X	141.5	0.0	1.4	0.0	24.3	67
WESTERN KX-70	L	2X	141.5	0.0	2.0	0.0	28.1	81
MC CURDY 76-99	L	3X	141.4	0.0	1.3	0.0	24.4	69
ACCO UC6601	L	2X	141.1	0.0	0.7	0.0	24.7	72
DE KALB XL-32AA	M	2X	140.4	0.0	1.3	0.0	23.0	64
JACQUES JX177	M	2X	139.9	0.0	0.7	0.0	22.7	63
TROJAN T 105E	M	2X	139.1	0.0	2.0	0.0	21.7	62
FONTANELLE 400	M	2X	139.0	0.0	0.6	0.0	21.8	61
P-A-G 547	M	3X	137.3	0.0	1.3	0.0	23.9	76
CARGILL 892	M	M2X	137.1	0.0	1.3	0.0	24.9	79
NORTHROP KING PX49	M	2X	137.1	0.0	1.9	0.0	21.6	73
DISCO SX-18	M	2X	136.1	0.0	3.8	0.0	23.0	78
DE KALB XL-25A	M	2X	135.7	0.0	1.3	0.0	19.9	66
NORTHROP KING PX603	M	3X	134.7	0.0	3.2	0.0	24.5	83
ACCO UC3301A	M	2X	134.6	0.0	1.3	0.0	23.3	80
CENEX 2371	L	2X	133.2	0.0	0.7	0.0	27.3	86
TROJAN TXS 102	M	2X	130.4	0.0	2.6	0.0	21.3	82
SCAES CHECK 2	L	2X	128.8	0.0	4.7	0.0	21.2	84
WILSON 1016	E	2X	127.4	0.0	1.9	0.0	22.8	87
SCAES CHECK 3	M	2X	119.4	0.0	0.6	0.0	17.2	85
WESTERN KX-22C	L	2X	117.1	0.0	2.6	0.0	28.4	88
SCAES EX 105	M	2X	102.9	0.0	1.3	0.0	23.7	89
Means			148.7		1.6		24.7	
LSD (.05)			16.7				C.V. = 8.0%	

Table 16. Area C2 2-, 3-, and 4-year yield, moisture and stalk lodging averages of corn hybrids, 1976-1979.

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
ACCO UC 3301A		94	94	10		4	20		18
ACCO UC 8201			88			3			25
CENEX 2157			98			6			16
CHECK #2	80		71		8	7	16		13
DISCO SX-24			84			3			21
NORTHROP-KING PX 603			90			7			21
PAYCO SX 844			80			2			19
PRIDE 5578			92			8			17
PRIDE 6678			84			3			20
PRIDE 7715		92	87		2	1	28		28
TROJAN T 1120			91			2			22
TROJAN TXS 115A		86	79		3	3	26		24
WESTERN KX 55			90			3			19

Table 17. 1979 Corn Performance Trial, Area C1 (irrigated), James Valley Research Farm, Redfield.

BRAND AND VARIETY	TYPE AND CRCS	YIELD B/A	PCT RCCT LODGED	PCT STALK LODGED	PCT EARS DRIPPED	PERCENT MCISTURE	PERFORMANCE SCORE RATING
SCAES EX 10E	M 2X	120.8	0.0	2.7	0.0	32.1	1
CURRY SC-1424	M 2X	104.2	0.0	1.9	0.0	18.4	2
P-A-G SX257	M 2X	102.1	0.0	5.1	0.0	22.1	9
SCAES CHECK 2	L 2X	101.3	0.0	3.8	0.0	21.5	10
TCP FARM TF106A	M 2X	100.4	0.0	3.5	0.0	17.3	4
DE KALB XL-25A	M 2X	100.3	0.0	1.9	0.0	19.5	7
WESTERN KX-56	M 3X	100.1	0.0	4.2	0.0	17.8	5
PRIDE 448E	M 2X	99.6	0.0	1.0	0.0	22.3	14
ASGROW RX40	E M2X	99.5	0.0	3.2	0.0	16.3	3
RBA SUPER 4+	M 3X	99.5	0.0	4.1	0.0	28.6	36
CURRY SC-1444	M 2X	99.3	0.0	5.2	0.0	18.0	8
MC CURDY 5556	M 2X	98.8	0.0	6.5	0.0	19.8	17
CURRY SC-1422	M 2X	98.6	0.0	2.8	0.0	22.2	19
MC CURDY MSX46	M 2X	98.4	0.0	1.0	0.0	19.9	11
RBA 104	M 2X	98.3	0.0	2.3	0.0	21.2	18
CENEX 2119	E 2X	98.2	0.0	3.9	0.0	15.9	6
SCKCTA TS60	M 2X	97.8	0.0	4.0	0.0	19.1	15
SCKCTA TX62A	M 2X	97.6	0.0	6.8	0.0	17.9	16
NORTHRUP KING PX45	M 2X	97.6	0.0	1.9	0.0	18.9	12
CISCO SX-24	M 2X	96.1	0.0	3.8	0.0	21.0	23
DE KALB XL-15	E 2X	95.7	0.0	1.4	0.0	16.8	13
PAYCO SX644	L 2X	94.9	0.0	2.1	0.0	21.8	29
PAYCO SX779	M 2X	94.3	0.0	2.1	0.0	20.0	24
PAYCO SX750	M M2X	94.1	0.0	5.3	0.0	21.2	35
CARGILL 838	E M2X	94.1	0.0	2.7	0.0	17.1	20
CENEX 2157	M 2X	94.1	0.0	4.7	0.0	19.2	25
ACCO UC3002	M 2X	94.0	0.0	2.4	0.0	21.5	33
ACCO UC1905	E 2X	93.3	0.0	6.2	0.0	18.0	26
CENEX 2134	M 2X	92.5	0.0	5.0	0.0	18.0	27
PAYCO SX637	E 2X	92.5	0.0	3.3	0.0	15.7	21
P-A-G SX249	M M2X	92.6	0.0	2.0	0.0	23.4	41
MC CURDY 77-74	E 2X	92.3	0.0	3.3	0.0	16.2	22
JACQUES JX107	E 2X	92.1	0.0	2.0	0.0	19.2	32
SCKCTA 155H	M 2X	92.0	0.0	3.8	0.0	18.3	31
PRIDE 3320	E 2X	91.9	0.0	3.0	0.0	17.5	28
P-A-G SX189	E M2X	91.9	0.0	2.8	0.0	19.1	34
MC CURDY MSX37	E 2X	91.1	0.0	6.8	0.0	15.8	30
ACCO UC2951	M 2X	90.3	0.0	3.0	0.0	19.0	39
NORTHRUP KING PX37	M 2X	90.0	0.0	0.5	0.0	20.1	40
P-A-G SX177	E M2X	89.9	0.0	3.8	0.0	16.9	37
NORTHRUP KING PX24	E 2X	89.7	0.0	3.3	0.0	17.1	38
TROJAN TXS 102	M 2X	89.4	0.0	2.0	0.0	21.3	43
CARGILL 872	M M2X	89.4	0.0	3.6	0.0	21.5	44
MC CURDY 77-45	M 2X	88.8	0.0	3.5	0.0	22.1	50
SCKCTA S567	L M2X	88.4	0.0	4.0	0.0	22.8	51
RBA 96	M 3X	88.1	0.0	4.9	0.0	16.7	42
PAYCO SX775	M 2X	87.4	0.0	2.4	0.0	19.9	46
DE KALB XL-23	E 2X	87.4	0.0	4.2	0.0	19.9	49
MC CURDY MSX44A	M 2X	87.4	0.0	4.0	0.0	23.4	56
CISCO SX-16AA	M 2X	86.6	0.0	7.8	0.0	17.4	48
TROJAN T 100E	M 2X	86.4	0.0	3.0	0.0	18.6	47
WILSON 1016	E 2X	86.0	0.0	2.0	0.0	21.2	53
TCP FARM TF103	M 2X	85.5	0.0	2.1	0.0	17.5	45
JACQUES JX52	E 2X	84.4	0.0	5.8	0.0	18.7	55
FUNKS G-4195	E 3X	83.6	0.0	4.3	0.0	16.7	52
FUNKS G-4141A	M M2X	83.2	0.0	3.9	0.0	17.1	54
TROJAN T 105E	M 2X	81.2	0.0	5.2	0.0	23.9	61
ASGROW RX544	M M2X	81.0	0.0	4.4	0.0	21.9	59
TCP FARM TF100	M 2X	80.9	0.0	2.4	0.0	19.4	57
CARGILL 832	E M2X	79.3	0.0	10.0	0.0	17.4	58
PRIDE 2269	E 2X	78.6	0.0	12.6	0.0	18.1	65

Table 17. (continued)

BRAND AND VARIETY	TYPE AND CROSS		YIELD B/A	PCT	PCT	PCT	PERCENT MOISTURE	PERFORMANCE SCORE RATING
				ROCT LCDGED	STALK LCDGED	EARS DROPPED		
CENEX 2111	E	2X	78.5	0.0	3.7	0.0	19.1	60
P-A-G 547	M	3X	78.4	0.0	3.4	0.0	22.6	66
TCP FARM TFS7	M	2X	77.0	0.0	6.4	0.0	18.1	62
WESTERN KX-35	M	2X	76.0	0.0	1.4	0.0	18.7	63
ACCC UC1151	E	2X	75.5	0.0	5.2	0.0	16.7	64
FUNKS G-4224	M	M2X	75.0	0.0	4.2	0.0	19.4	67
REA 94	M	2X	72.5	0.0	2.5	0.0	18.7	68
FUNKS G-4180	E	3X	66.4	0.0	0.5	0.0	18.4	70
ACCC U322	E	3X	66.2	0.0	1.5	0.0	17.0	69
SCAES CHECK 5	M	4X	62.4	0.0	4.2	0.0	18.9	72
MC CURDY 3410	E	2X	62.1	0.0	3.1	0.0	16.0	71
Means			89.5		3.7		19.5	
LSD (.05)			13.5				C.V. = 10.9%	

Table 18. Area C1 (irrigated) 2-, 3-, and 4-year yield, moisture and stalk lodging averages of corn hybrids, 1976-1979.

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 PX 40		111	107		3	3		16
CARGILL R38		106	103		3	2		10	17
CENEX 2111			90			5			18
CHECK #5			81			4			10
CURRY SC-1422			109			3			20
DISCO SX-24			113			3			22
FUNKS G-4195			88			7			16
FUNKS G-4224			93			4			18
MC CURDY MSX 37		110	114		5	6		10	17
MC CURDY MSX 44A	100	110	106	3	4	4	23	22	22
MC CURDY MSX 46	99	110	110	2	3	3	22	22	21
MC CURDY 76-10		81	80		4	3		16	15
MC CURDY 77-49			109			2			22
NORTHRUP-KING PX 37			110			1			20
NORTHRUP-KING PX 40			114			3			19
P-A-G SX 177	97	104	101	3	4	5	19	19	17
P-A-G SX 180		105	100		3	3		21	20
PAYCO SX 775	101	110	109	3	2	4	21	20	20
PAYCO SX 844			108			3			22
PRIDE 2260			90			10			17
PRIDE 4488		113	112		1	2		22	22
PRA 104			110			1			21
SOKOTA SS-67	101	110	105	3	4	3	23	22	22
TCP FARM SX 100			91			3			19
TCP FARM SX 103			96			3			10
TCP FARM SX 106A			103			3			18
TCP FARM SX 97			92			5			17
TROJAN T 1008			102			4			18
TROJAN TXS 102	101	104	96	3	4	3	23	22	22
WILSON 1016			104			4			21

Table 19. Listing of hybrid corn entries and the table where the results appear.

Company & Brand	Variety	Tables	Company & Brand	Variety	Tables
Cargill, Inc. PO box 9300-D16 Minneapolis, MN 55440 "Cargill"	430 838 832 872 892 924 934 949	8,9 8,9,17,18 17 8,17 8,10,14,15 10,12,14,15 14,15 15	Curry Seed Co. PO Box 517 Elk Point, SD 57025 "Curry"	SC 150 TC 343A TC 347 SC 1400 SC 1414 SC 1421 SC 1422 SC 1424 SC 1444 SC 1451 SC 1455 SC 1505	15 14 14,15 6,8,11 6,10 8,9 10,11,13,14, 17,18 10,11,17 11,15,17 14 10,14,15 15
DeKalb Ag Research Sycamore Road DeKalb, IL 60115 "DeKalb"	XL-15 XL-23 XL-25A XL-32A XL-32AA XL-54 XL-55A XL-62AA XL-362AA	8,11,17 8,11,17 8,11,14,15,17 14 15 15 14,15 15 14	McCurdy Seed Co. Fremont, IA 52561 "McCurdy"	MSX 37 MSX 42 MSX 44A MSX 46 MSX 60 MSX 77 MSX 84 MSP 111 3410 5596 6475 76-99 77-49 77-74	8,9,10,12,17,18 8,9 8,9,10,12,17,18 10,12,17,18 15 15 15 8,9 17,18 8,15,17 15 15 8,10,12,17,18 17
Disco Seeds PO Box 640 Mitchell, SD 57301 "Disco"	SX-16AA SX-18 SX-24 SX-29	8,17 10,15 8,10,12,14,15,16,18 14		MSP 111 3410 5596 6475 76-99 77-49 77-74	8,9 17,18 8,15,17 15 15 8,10,12,17,18 17
Green Acres Hartington, NE	GA 617 GA x2000	10 10		76-99 77-49 77-74	15 15 8,10,12,17,18 17
Northrup King Co. PO Box 959 Minneapolis, MN 55440 "NK"	PX 24 PX 37 PX 49 PX 69A PX 72 PX 74 PX 603	8,17 8,9,11,13,17,18 8,9,10,11,12,13 15,17,18 10,14,15 10,14,15 14,15 10,12,14,15,16	South Dakota Agricultural Experiment Station "SDAES"	Check #1 Check #2 Check #3 Check #4 Check #5 Check #6 Check #8 Ex 105 Ex 108 Ex 109	15 10,12,14,15,16,17 6,7,15 11,13 6,7,10,11,12 13,17,18 11 11,13 6,7 15,17 15
Sokota Hybrids PO Box 250 Brookings, SD 57006 "Sokota"	TS 44 SS 51 TS 58 TS 60 TS 62A TS 64 SS 67 TS 82 TS 180	6,8,9,11,13 8,9 6,8,11 6,8,17 6,7,8,9,11,13 14,15 6,7,8,9,15 11,13,18 15 15	P-A-G Seeds PO Box 9480, D16 Minneapolis, MN "P-A-G"	SX 67 SX 177 SX 189 SX 249 SX 277 SX 333 SX 397 SX 547	8,9 8,9,17,18 8,9,17,18 10,17 10,14,15 15 8,9,10,12,15,17 8,10,15,17
Asgrow Seed Co. PO Box 1059-Clive Des Moines, IA 50053 "Asgrow"	RX 40 RX 58 RX 90 RX 544 RX 549	6,8,9,10,14,17,1 8,10,11,14 15 8,10,14,17 8,10,14			

Table 19 (cont)

Company & Brand	Variety	Tables	Company & Brand	Variety	Tables
Wilson Hybrids	1016	10,12,15,17,18	Payco Seeds	SX 637	11,17
Box 391	1400a	10,12,15	PO Box 70	SX 680	6,7,11,13
Harlan, IA 51537	1800	10,12,15	Dassel, MN 55325	SX 756	6,8,11,17
			"Payco"	SX 775	8,9,14,17,18
King's Western Seed	KX-35	17		SX 799	17
205 Wyoming Ave. SW	KX-55	8,9,13,14,16		SX 844	8,9,10,11,12,13
Huron, SD 57350	KX-56	8,14			14,15,16,17,18
"Western"	KX-64	10,12		SX 990	10,12
	KX-70	15			
	KX-333	6	Funk Seeds, Int'l	G-4085	11,13
	KX-475	11	PO Box 2911	G-4141A	17
	KX-620	10,15	Bloomington, IL	G-4180	11
			61701	G-4195	8,9,11,13,17,18
Pfizer Genetics	TX 90	6	"Funks"	G-4224	8,9,17,18
PO Box 166	TXS 94	6,11		G-4323	8,9,15
Olivia, MN 56277	TXS 99	6		G-4444	8,9,15
"Trojan"	TXS 102	8,9,10,11,13, 15,17,18		G-4449	15
	TXS 103	6,8		G-4507	15
	TXS 115A	10,14,16	Cenex Seeds	2111	11,13,17,18
	TXS 929	6	PO Box 43089	2119	6,8,11,14,17
	T 1008	10,17,18	St. Paul, MN 55164	2134	8,10,14,17
	T 1058	8,10,11,14,15	"Cenex"	2157	6,8,9,10,12,14,16,17
	T 1120	14,15,16		2203	10,12
				2371	10,15
Pride Company, Inc.	2206	6,7		2380	15
PO Box 8	2269	6,18		3018	11
Glen Haven, WI	3320	6,17		3123	11
"Pride"	4417	11,13			
	4488	8,9,10,11,12 13,17,18	Top Farm Hybrids	TF 97	8,9,10,11,13,17,18
	5578	8,9,10,12,14,16	PO Box 850	TF 100	8,9,10,11,13,17,18
	5589	8,9	Cokato, MN	TF 103	8,9,10,14,17,18
	6609	15	55321	TF 106A	8,9,10,11,14,17,18
	6678	10,12,14,15,16	"Top Farm"	TF 110	10,14
	7710	15		TF 396	8
	7715	14,15,16	Kaltenburg Seeds	KX 44	6
	R-328	11,13	RR #2	KX 58	6,8,10,15
ACCO Seeds	U 322	11,17	Wauakee, WI 53597	KX 68	6,8,10,15
PO Box 9	1151	6,17	"Kaltenburg"	KX 76	15
Belmond, IA 50421	1905	6,7,11,17			
"ACCO"	2851	6,8	RBA Seeds, Inc.	Super 4	15
	2951	6,7,11,17	American Bank Bldg.	Super 4+	17
	3002	6,8,9,11,17	Olivia, MN 56277	94	8,17
	3301A	8,9,10,12,15,16	"RBA"	96	8,17
	4201	10		104	15,17,18
	6601	15		111	15
	7951	10,12,15	Lynks Hybrids	LX 4120	10,12,14,15
	8201	10,15,16	PO Box 637	LX 4220A	10,12,14,15
Fontanelle Hybrids	400	15	Marshalltown, IA	LX 4305	10,14,15
Nickerson, NE 68044	420	15	"Lynks"		
"Fontanelle"	430	15			
	450	15			

Table 19 (continued)

Company & Brand	Variety	Tables
Cornelius Seed Co. R.R. #1 Bellevue, IA 52031	C 395X	15
Blaney Seed Farms Route 4 Madison, WI 53711	B 507	15
	B 606	15
	B605wx	8
"Blaney"	B606wx	15
Jacques Seed Co. 720 St. Croix Prescott, WI 54021	JX 52	6,11,17
	JX 107	6,8,11,17
	JX 177	8,15
	JX 180	14,15