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

Agricultural Experiment Station Circulars

SDSU Agricultural Experiment Station

1-1977

1976 Corn Performance Trials

J.J. Bonnemann South Dakota State University

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

Recommended Citation

Bonnemann, J.J., "1976 Corn Performance Trials" (1977). *Agricultural Experiment Station Circulars*. Paper 166. http://openprairie.sdstate.edu/agexperimentsta_circ/166

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

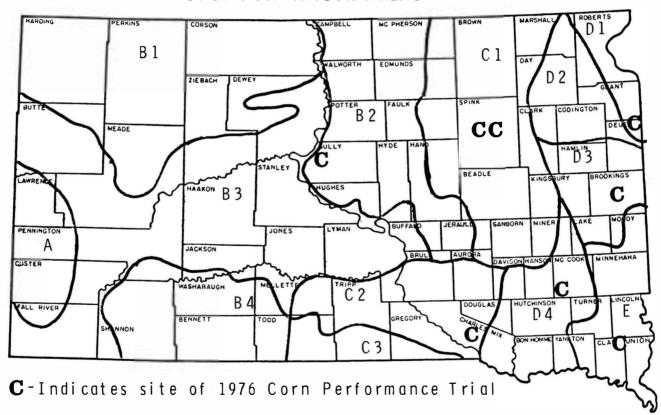
1976 Corn Performance Trials

Circular 217 January 1977

Plant Science Department
Agricultural Experiment Station
South Dakota State University
Brookings

Table No.	Contents	Page No.
1	Location of Trials	4
2	Laboratory Analysis and Soil Classification	4
3	Temperature and Precipitation Data	5
4	Field Methods	7
5	Harvest Methods and Moisture Determinations	8
6	1976 Area Cl dryland (Redfield) Corn Performance Trial	9
7	1976 Area Cl irrigated (Redfield) Corn Performance Trial	10
8	Area Cl dryland Averages	11
9	Area Cl irrigated Averages	11
10	1976 Area D3 (Brookings) Corn Performance Trial	12
11	Area D3 Averages	13
12	1976 Area D4 (Bridgewater) Corn Performance Trial	14
13	Area D4 Averages	15
14	Listing of all entries harvested	16

CROP ADAPTATION AREAS



Published in accordance with an Act passed in 1881 by the 14th Legislative Assembly, Dakota Territory, establishing the Dakota Agricultural College and with the Act of re-organization passed in 1887 by the 17th Legislative Assembly, which established the Agricultural Experiment Station at South Dakota State University.

1976 Corn Performance Trials

J. J. Bonnemann, Assistant Professor

Plant Science Department Agricultural Experiment Station South Dakota State University Brookings, South Dakota 57006

The relative performances' of corn hybrids grown in 1976 under similar environmental conditions are evaluated in this report. Information in the accompanying tables includes grain yields in bushels per acre, moisture percentage of either ear corn or shelled corn at harvest, performance scores and other related information. Records of the corn hybrids harvested in 1976 and available two-, three-, and four-years 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 1976 Trials

Trials were located in the crop adaptation areas marked on the accompanying South Dakota map. The exact location of each trial and dates of seeding and harvesting are included in Table 1. The trials at Agar (Area B2) and Gary (Area D1) were abandoned in late August. The yield results for the trials at Beresford and Geddes were so variable that little reliable information was obtained and they were not included. The soil classification, laboratory analyses of soil samples taken and fertilizer applied at each site is given in Table 2.

Weather and Climatic Conditions

Climatic data (Table 3) for the 1976 corn growing season, May-October, are based upon information obtained from a U.S. Weather Bureau station reasonably near each trial. Data are presented for all but the Geddes area. Stations are located at all other sites except the Agar and Deuel County trials so data from official stations at Onida 4NW and Milbank are presented for these two trials, respectively. Precipitation quantities would vary from the actual site to the recording station, especially the Deuel County site, but temperatures are comparative over a much wider area and considered applicable to the trial area.

Recorded precipitation totals at all sites were less than their seasonal averages. May precipitation was quite limited across most of the state. Only in the southeastern area was there much beneficial rainfall. Germination was slow and spotted at most sites except the southeastern trials. The emergence was especially slow and uneven at Gary and the dryland trial at Redfield. Stands at Gary were down a third or more from the desired populations and the stages of plant growth were quite

The assistance of the following individuals is appreciated: D. B. Shank and J. R. Jenison of the Plant Science Department; Joe Giles, Burton Lawrensen, Herb Lund, Robert Morris, Delbert Robbins and Lucian Edler of the stations; and cooperators William Fijala, John Heaton, Clifford Hofer and Mike Mikkelson.

Table 1. Location of the 1976 Corn Performance Trials

				Da	tes
Area	Count <u>y</u>	Location	Post Office	Seeded	Harvested
B2	Sully	M. Mikkelson Farm, 7W, 1N	Agar	May 17	
Cl-dry	Spink	James Valley Res. Farm, 6E	Redfield	May 18	Oct. 29
Cl-irr.	Spink	James Valley Res. Farm, 6E	Redfield	May 18	Oct. 28
C2	Charles Mix	Wm. Fijala Farm, 2E, 1N	Geddes	May 20	Oct. 6
D1	Deuel	John Heaton Farm, 1W, 5N	Gary	May 10	
D3	Brookings	Plant Science Farms, 2NE	Brookings	May 12	Oct. 8
D4	McCook	Clifford Hofer Farm, 1S	Bridgewater	May 11	Oct. 7
E	Clay	SE Experiment Farm, 7W, 3S	Beresford	May 13	Oct. 27

variable from row to row and among plants within rows. The stages of growth were also quite varied in the dryland Redfield trial and the high moisture content at harvest is evidence of the general retarding of the plant growth all season.

In no instance was rainfall near or above normal at stations where departures were available. As the season progressed, the ever increasing drouth conditions were accompanied by high-velocity drying winds much of the mid-summer and dried up plants rapidly. At all but one location, over half the days in July and August showed recorded temperatures of 90° or higher (Table 3). It is ironic that the season temperatures were below normal in May, September and October but above normal in the remaining months of the crop year.

The timeliness of precipitation, though not in great amounts, was the reason for the apparent success and yields in the trials for which data are presented. The trial at Redfield that was to be irrigated received only one water application, about 2 inches in early July. All pumping from the river source for irrigation was halted in mid-July as domestic use down the river had prior water rights.

The drouth induced stresses hastened ripening or drying of some hybrids. Lodging occurred in varying amounts. In the data presented, lodging was serious at the D3 site, Brookings. Lodging was even more serious in the Beresford and Geddes trials.

All trials were seeded after the last killing frost in the spring. Killing frosts in the fall did not occur until September 22 at any location. The date of the first frost and below normal temperatures in October did not lead to rapid dry-down of standing corn. However, drouth hastened maturity of adapted hybrids. Late maturing lines in farmer fields were probably chopped for forage earlier in the fall. The quality of corn was variable between varieties at some locations and between the same varieties at different locations.

Table 2. Laboratory analyses, soil classification and fertilizer applied to the 1976 corn performance trial fields.

	Soil	73	P	K				1b/A	
Area	Classification	0.M.	11	o/A	pН	Preparation or method	N	P	K
B2	Agar SiCL	2.6	23	870	7.1	Plowed and disked (oats)	0	0	0
Cl-dry	Beotia SiCl	2.4	33	650	7.1	Plowed, chiseled & disced	40	0	0
Cl-irr.	Beotia SiCl	3.0	61	720	7.1	Plowed, chiseled & disced	110	0	0
C2	Highmore SiCl	3.3	140	1000	6.8	Plowed & disced	0	0	0
D1	Forman SiL	2.7	26	400	6.5	Plowed & disced (oats)	0	0	0
D4	Clarno SiCl	2.5	25	590	6.7	Plowed & disced (sovbeans)	50	0	0
E	Egan SiCl	2.9	23	860	6.8	Plowed & disced (soybeans)	100	40	0

Table 3. Temperature and precipitation data for the 1976 corn growing season in South Dakota

			Depar-				Depar-	_
Location		Month	ture	Av.			ture	Total
and		mean	from	depar-	Days	Month	from	depar-
istrict	Month	temp.	normal	ture	900+	total	normal	ture
		Temper	ature, o	legrees F		Preci	pitation,	inches
nida 4NW ^a	May	58.9	Ъ			0.87	Ъ	
	June	72.3			11	0.82		
B2	July	78.8			22	0.60		
	Aug.	78.5			22	0.70		
	Sept.				10	1.06		
	Oct.	45.5				0.40		
		st frost	29 ⁰ - 9	Sept. 23		4.45		
edfield 6E	May	55.5	b		-	0.53	Ъ	
	June	70.4			11	3.72		
C1	July	75.3			17	1.41		
- <u>-</u>	Aug.	75.5			18	0.54		
	Sept.				5	1.76		
	Oct.	41.8				1.00		
		st frost	26° - 9	Sept. 23		8.96		
filbank	May	55.5	- 2.2			0.16	- 2.89	
	June	70.1	2.8		11	0.45	- 3.86	
D1	July	74.0	1.2		16	0.52	- 2.30	
	Aug.	74.3	2.8		16	0.79	- 1.78	
	Sept.		- 0.5		4	1.45	- 0.42	
	Oct.	42.9	- 8.6	- 0.7		0.17	- 1.38	-12.63
		st frost		Sept. 23		3.54		
Brookings	May	54.2	- 2.0		1.00	0.43	- 2.77	
2NE	June	67.8	2.1		2	2.68	- 1.90	
	July	73.1	2.0		11	1.51	- 1.33	
D3	Aug.	71.4	1.8		11	2.02	- 0.84	
	Sept.	58.9	- 0.1		3	1.45	- 1.23	
	Oct.	40.9	- 8.6	- 0.8		0.20	- 1.27	- 9.34
		st frost		Sept. 23		8.29		
ridgewater	May	59.2	Ъ			1.76	Ъ	
	June	71.0			10	1.84		
D4	July	77.1			22	2.80		
	Aug.	76.8			22	0.83		
	Sept.	65.0			5	1.86		
	Oct.	45.9			-	1.22		
	Fir	st frost	30° - 9	Sept. 25		10.31		
Centerville	May	56.8	- 3.9		1	1.96	- 1.52	
6 SE	June	70.3	0.1		8	1.31	- 3.39	
	July	75.4	0.1		15	1.79	- 1.32	
E	Aug.	73.6	- 0.3		17	1.05	- 1.99	
	Sept.	62.0	- 1.7		4	1.14	- 1.54	
	Oct.	44.0	- 9.2	- 2.5		0.57	- 1.08	-10.84
	Fir	st frost	26° - 9	Sept. 30		7.82		

a - All data based upon reports of Monthly Climatological Data, U.S. Department of Commerce, Ashville, NC.

b - Departures are figured from 30 years data. This station has not been in operation for that long a period.

Hybrid Entry Procedure

Hybrids entered are submitted by participating commercial concerns 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 31, 1976 were eligible to be entered. A fee was charged for each entry in each area except for hybrids included by Agricultural Experiment Station personnel. Either closed or open pedigree hybrids were eligible and each was allowed to be entered once in each adaptation area. No more than seven entries from one concern were accepted for each location. A listing of the firms, with brands and varieties entered, is presented in Table 14.

In prior years check entries used were released hybrids of the South Dakota Agricultural Experiment Station. A change was made in 1975 to include hybrids made up of released inbreds commonly used by the industry. Several of these were included in each trial as Check 1, 3, 5, etc. The identities are as follows:

```
Check 1
           B73 x Mo17Ht
                                              Check 5
                                                         (W64Ht \times W117Ht)(W153R \times A632Ht)
Check 2
           A632Ht \times A619Ht
                                              Check 6
                                                         (A641 \times A635)(W153R)
Check 3
           W153R \times A632Ht
                                              Check 7
                                                         A641 x Co109
Check 4
           W64AHt x W117Ht
                                             Check 8
                                                         A632Ht x Co109
```

The hybrids included are the joint effort of the Plant Science Department and Clyde Black & Sons, Inc., Ames, Iowa. Seed was provided by Clyde Black & Sons, Inc.

Several experiment hybrids have been included by Agricultural Experiment Station personnel for several years and have shown promise. The pedigrees of the hybrids included over a period of years is listed below:

```
SDAES Ex 82
              (W64AxSD10)(W117)
                                        SDAES Ex 106
                                                        (SD early 2-ear syn.)
SDAES Ex 94
              (A632xB14A) (SD23xOh43P-1) SDAES Ex 147
                                                        (SD10xA632)(SDP232xSDP2)
SDAES Ex 94A (A632xB14A) (SD23xOh43P-2) SDAES Ex 199
                                                        (SDP236mxSDP2)(A632)
SDAES Ex 100 (W117xSD9)(SD24)
                                        SDAES Ex 204
                                                        (SDP309xA632)
SDAES Ex 102
              (W117xSD25)
                                        SDAES Ex 204A (SDP236mxSDP309) (A632)
SDAES Ex 103 (SD25xA632)
                                        SDAES Ex 206
                                                        (SDP31WxB14A)
SDAES Ex 104
                                        SDAES Ex 207
              (W64AxSD17A)
                                                        (SDP316WxB73)
SDAES Ex 105 (SD22xA632)
                                        SDAES Ex 208
                                                        (SDP309xN28)
```

Experimental Procedure

The entries included in each trial were seeded in four or more replications. 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 the prior history of the field and insecticide used in past years. A recommended short-residue preemergence herbicide was banded over the row at seeding at all but one site. 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 planting rate was 15% more kernels than the number of plants desired. Plots were thinned to the desired stand where necessary. The stands at Redfield were lower than desired because of soil crusting that occurred just as the kernels were germinating and emerging. The dry weather contributed to some decline in desired populations,

especially at Gary, but in the face of the severe drouth the reduction was perhaps more beneficial than realized. Where two populations were grown (Table 4) it was felt that the lower levels might be favored in the presence of the severe stress that occurred in the past two years. However, no significant differences have been found in either of the past two years where different populations of the same hybrid were grown in the same trial.

Table 4. Field methods for the 1976 corn trial sites.

		Number of				Row	
Area	Table No.	Replications Harvested	Method of Seeding	Population Obtained	Number of	Width, inches	Length, feet
В2			drilled	10,315	1	40	36
Cl-dry	6	5	drilled	11,295	1	36	36
Cl-irr.	7	3	drilled	16,335	1	36	32
Cl-irr.		3	drilled	19,055	1	36	32
C2		4	drilled	11,250	1	40	36
D1			drilled	9,935	1	38	36
D1			drilled	11,460	1	38	36
D3	10	3	drilled	11,800	1	36	32
D3	10	3	drilled	15,880	1	36	32
D4	12	3	drilled	13,775	1	38	36
D4	12	3	drilled	16,430	1	38	36
E		2	drilled	15,790	1	30	32
E			drilled	19,600	1	30	32

Measurements of Performance

<u>Yield</u>. 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 variations were great in some of the 1976 trials.

The metric system of weights and measures will soon be in nationwide usage. To convert data in these tables to kilograms/hectare (kg/ha) use the following methods:

- 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 yield = kilograms/hectare
- II or assuming a yield of 45.5 B/A from the tables
 - Step 1 = $45.5 \text{ B/A} \times 54 \text{ lb/B} = 2457 \text{ lb/acre}$
 - Step 2 = 2457 lb/acre x 1.121 = 2754 kilograms/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 evaluation of entries.

Dropped ears were not a common problem, in spite of some high-velocity winds early in the harvest season. No effort was made to include these ears as it is a penalty of machine harvesting in commercial operations.

Table 5. Harvest methods and moisture determinations for the 1976 corn trials

Area	Harvest Method	Samples used for Moisture Determinations	Moisture Determined
C1-dry	Picker-sheller	Shelled corn	Electronically
Cl-irr.	Picker-sheller	Shelled corn	Electronically
C2	Hand picked	Ear sections	Oven-dried
D3	Picker-sheller	Shelled corn	Electronically
D4	Picker-sheller	Shelled corn	Electronically
E	Hand picked	Ear sections	Oven-dried

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. To the cash grain operator who does not turn livestock into his fields after harvest the better stalks stand so that the ears will go through his harvesting machinery, the higher will be his return per acre. Because of the importance of the three factors—yield, dry matter 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:

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 Plains, i.e., limited frost-free growing periods, limited precipitation and higher 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 yielding 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. 1976 Corn Performance Trial, Area Cl(dryland), James Valley Research Farm, Redfield

	TYPE	AIEFC	PCT RCCT	PCT Stalk	PC T E A R S	PERCENT	PERFCRMANC
BRANC AND VARIETY	CRCSS	E/A	LODGED	LCCGEC	CRCPPED	MOISTURE	SCCRE RATIN
PICNEER 3965	3 X	35.9	G.C	1.2	0 . C	25.3	1
PAYCC SX680	2x	37.5	C • C	C • C	0.0	29.3	2
SCAES PP199	XE	36.9	C.C	2.1	0.0	28.8	3
SCAES FP147	4 X	34.9	C.C	1.3	0.0	27.8	4
TRCJAN TXS 99	2 X	31.3	0.0	C.C	0.0	28.4	5
FLNKS G-4141	2 X	31.1	C.C	C.C	0.0	29.4	6
SCKCTA SS-51	2 X	31.1	0.0	C.C	0.0	31.3	9
CHECK =4	2 X	3C.8	C.C	C.C	0.0	3C.C	8
CENEX 3015	3 x	30.4	0.0	C • C	C.C	27.8	ž
ACCC LC 1901	2 X	30.0	0.0	C.C	C • C	3C.C	11
AGSCC 3XP	3 x	25.8	0.0	1.9	0.0	27.8	10
PICNEER 371C	2 X	25.C	C.C	C • C	0.C	34.3	13
TROJAN TXS 94	2 X	28.5	0.0	C.C	0.0	31.5	12
ACCC LC 2301	2 X	26.3	0.0	C.7	C.C	31.6	14
ACCC LC 1151	2 X	27.7	C • C	C.C	0.0	31.1	15
SCAES EXICA	2 X	27.7	C.C	C.7	C • C	33.C	17
AGSCC 4XC	4 X	27.1	0.0	C • C	C • C	30.4	16
CHECK =5	4×	26.3	C • C	C • C	C.C	33.8	20
FUNKS G-4195	3 X	25.8	C • C	1.9	0.0	29.5	19
FUNKS G-4195	3 X	25.6	C • C	C • C	C • C	28.9	18
KALTENBERG KX42	2 X	25.5	C • C	0.0	C • C	31.2	21
PRICE 3315	2 X	24.4	C • C	C.C	C • C	30.4	22
ACCC CC 147	4 X	24.3		1.4	0.0	30.1	23
PRICE 22C6	2 X	24.1	C • C	C.C	0.0	31.2	24
SCAES EXIC3	2 X	23.0	C • C	C.C	0.0	33.0	26
PRICE 44C4	2 x 2 x	22.1	0.0	C.C	0.0	29.3	25
FUNKS G-43214	2 X	21.3	0.0	C • C	0.0	35.6	27
CENEX 2116	2 X	2C.C	C • G	C.C	C.C	35.8	31
PAYCC SX775	2 X	19.7	C • C	2.1	G.C	33.4	3C
SCKCTA TS-67	2 X	19.7	C • C	C.C	0.0	36.6	32
SCAES EXICE	2 X	19.3 19.0	C • O	C • 6	C.C	30.2	29
CHECK =8	2 X	18.6	C • C	1.7	0.0	21.1	28
SCKCTA SS-67	2 X	18.6	C.O	C.C	C.C	35.6	33
FONTANELLE 365	3 X	18.5	C.O	C.C	0.0	36.6	35
FLNKS G-4288	3 X	18.3	C • C	3.1	0.0	33.8	34
PAYCC SX865	2 X	17.3	C.C	C.C	0.0	35.7	37
KALTENBERG KX442	3 X	17.C	C • C	C.C	0.0	36.7	36
TRCJAN TXS 1C2	2 X	16.5	C • C	C.C	0.0	35.7	3.8
CURTIS 443	2 X	16.1	0.0	2.3	C.C	37.3	39
FCNTANELLE 4CC	2 X	14.9	C • C	C.C	C.C	35.1	4 C
CURTIS A-2C1	2 X	14.9	C.C	2.4	C.C	35.4	41
FUNKS G-4444A	2 X	12.9	C • C	0.0	C • O	34.9	42
WESTERN KX-55	2 x	12.7	C.O	C.C	0.0	40.5	44
PRICE R-2COA	2X	12.7	C.C	C.C	0.0	34.2	43
PAYCC 3XE11	3 X	10.6	C.C	C • C	C.C	35.2	45
KALTENBERG KX68	2 X	10.4	0.0	C • C	0.0	38.0	46
Mean	۷,		0.0		0.0		70
nean		23.4		0.5		32.1	

Table 7. 1976 Corn Performance Trial, Area Cl(irrigated), James Valley Research Farm, Redfield

	TYPE		PCT	PCT	PCT		
	ANE	YIELC	RCCT	STALK	EARS	PERCENT	PERFORMANCE
RANC AND VARIETY	CRCSS	6/4	LCCGEC	LCCGEC	CROPPEC	MOISTURE	SCCRE RATIN
DAES EX105	2 X	99.5	C.C	8.0	C.C	20.4	1
HECK = 2	2 X	96.6	C . O	0.4	0 • C	23.8	2
ONTANELLE 4CO	2 X	94.2	0.0	C.C	C.C	24.2	4
ICNEER 378C	2 X	93.4	C.O	C.C	0.C	20.9	3
LAKS G-4444A	2 x	92.2	C.C	C . 8	C.C	24.9	5
'S GCLC 11CC	2 X	91.3	C.C	C - 4	0 • C	24.8	9
ROJAN TXS 1C2	2 X	91.2	0.0	0.0	0.0	24.C	í
CKCTA TS-67	2 X	91.1	0.0	1.2	0.C	24.2	8
RICE 44C4	2 X	85.C	C • C	C • C	C.C	2C.4	6
HECK =3	2 X	86.4	C.C	C • C	C • C	19.5	10
UNKS G-4288	3 X	84.3	0.0	0.9	0.0	22.0	12
RCJAN TXS 94	2 X	84.1	C • O	C.C	0.0	20.3	11
-A-G 534	3 x	83.8	C • C	0.8	0.C	23.5	15
ARGILL 863	2 X	83.8	C.C	C.C	0.0	23.4	13
'S GCLC 11C7	2 X	82.9	0.0	0.0	C • C	23.9	17
CKCTA SS-51	M2X	81.5	C • O	C.C	C.C	20.3	14
CCC LC 2901	2 X	81.2	0.0	C.9	0.0	2C.C	16
ICNEER 371C	2 X	80.0	0.0	C.C	C.C	22.7	18
CCC LC 3301	2 X	79.7	0.0	C • 4	C.C	21.5	23
DAES PP204A	M2X	79.6	C.C	1.7	0 • C	23.6	19
LNKS G-4321A	2 X	77.4	C • C	C • C	C • C	24.4	24
CAES PP204	2 X	76.6	C • C	0 • C	C • C	29.2	31
C CLRDY MSP 111	3 X	75.9	0.0	C • O	0.0	21.5	21
AYCC SX775	2 X	75.8	C • O	C - 4	C • C	22.5	26
RICE R-2CCA	2 X	75.1	C • C	C • C	0.C	21.3	25
AYCC SXE8C	2 X	74.7	0 • C	C • C	0 • C	21.1	27
-A-G SX 177	2 X	74.6	C • C	C - 4	C.C	10.3	20
LNKS G-4180	3 X	74.4	0 • C	C.C	0 • C	19.2	22
C CLRDY MSP 333	3 X	73.8	C • C	C.C	0 • C	23.8	3 C
ESTERN KX-55	2 X	73.8	C . C	0.4	0 • C	26.0	34
CKCTA SS-67	#2x	72.9	0 • C	C - O	0 • C	25.C	35
C CLRDY MSX 24	2 X	72.5	C.C	C.C	0.C	19.1	29
C CLRCY MSX 44A	2 X	72.3	C.C	C.C	0.0	25.0	36
CCC LC 1151	2 X	72.1	C.C	C.C	C.C	18.C	2.8
CKCTA TS-46	2 X	70.4	0.0	0.9	C.C	2C.1	33
SGRC N RX2222	2 X	70.0	C.C	C.C	0 • C	19.5	32
CKCTA SS-59A	M2X	69.1	C • C	C • C	0.C	24.4	42
ARGILL 848	2 X	68.8	0 • C	C • 4	C.C	21.9	38
OKCTA TS-49	2 x	68.5	0.0	0.0	0.0	20.9	37
ENEX 2116	M2X	68.3	0.0	0.4	0.0	22.C	39
CNTANELLE 365	3 X	67.2	0.0	C.C	0.0	30.9	5 C
GSCC 4XC	4 X	67.2				20.4	4 C
			0 • C	1.2	0.0		
HECK =5	4 X	65.7	0.0	0.0	0.0	20.8	44
C CLRCY MSX 46	2 X	65.5	0 • C	C.C	0.0	23.0	46
RICE 3315	2 X	65.0	C • C	C.C	0 • C	17.6	41
ENEX 2125	2 X	64.6	C • C	C • C	0.0	21.8	47
ALTENBERG KX42	2 X	64.3	0.0	C • 9	0.C	21.2	48
RICE 22C6	2 X	63.3	C • C	C • C	C • C	15.0	45
UNKS G-4141	2 X	63.C	C • C	C - 4	0 • C	16.3	43
ARGILL 83C	2 X	58.9	C.C	C.C	C.C	17.4	49
ALTENBERG KX65	2 X	58.2	0.0	0 • C	0 • C	25.9	51
AYCC SX865	2 X	57.8	C • C	C • C	0 • C	26.0	52
-A-G 22C	2 X	51.3	C • C	C • C	0 • C	26.5	54
LNKS G-4195	3 X	5C.2	0 • C	C.4	C • C	19.2	5 3
DAES EX106	₩2 X	47.2	0.0	1.2	0 • C	21.3	55
ALTENBERG KX68	2 x	41.7	C • O	C.C	0 • C	25.9	56
Mean		74.2		0.3		22.3	

Table 8. Area Cl(dryland), 2-, 3-, and 4-year yield, moisture and stalk lodging averages of corn hybrids, 1973-1976

	ACRE	YIELD	· 6/8	STK L	CCCINC	, PCT	GRAIN	MCIST	GRAIN MOIST, PC			
BRAND AND VARIETY	4-YH	3-YF	2-YR	4-YR	3-YP	2-YR	4- YR	3-YR	2-YF			
ACCC LC 1151	56	47	52	1		С	22	23	24			
ACCO LC 23C1		46	47		0	С		2 3	2 5			
CHECK =4			49			0			2 5			
CHECK =5			42			С			27			
CHECK = 8			35			1			22			
CURTIS A201	55	42	41	1	1	1	26	29	30			
FUNKS G-4141			44			0			2 3			
FUNKS G-4288		43	40		2 1	2		26	2 1			
PAYCC SX 775	53	35	45	1	1	1	24	24	2			
PAYCO Sx 865			45			0			30			
PRICE R-2CCA			35			0			26			
PRICE 3315			42			С			25			
PRICE 44C4		37	36		C	С		23	2 5			
SDAES EX 1C3			40			C			26			
SDAES EX104			45			0			2			
SCAES PP 147	54	47	51	1	1	1	2 C	2 C	23			
SCAES PP 199		45	49		1	1		22	24			
SOKOTA SS-51			51			С			2 5			
SOKOTA SS-67		45	47		С	C		2 8	29			
SOKOTA 15/67			45			С			3 (
TROJAN TXS 1C2			45			С			3 (
TROJAN TXS 94	52	41	50	t	1	1	22	23	26			
TROJAN TXS 99			46			С			2 3			
WESTERN KX-55			45			С			2.2			

Table 9. Area Cl(irrigated) 2-, 3-, and 4-year yield, moisture and stalk lodging averages of corn hybrids, 1973-1976

	ACRE	YIELC	. e/A	STK L	CCCINC	, PCT	GRAIN	MOIST	, PCT
BRAND AND VARIETY	4-YR	3-YF	2-YR	4-YR	3-YR	2-YR	4-YR	3- YR	2-YR
ACCO LC 1151	103	94	97	0	С	C	19	18	19
ACCC LC 2901	105	97	101	1	1	1	21	2 C	20
CHECK =2			116			С			24
CHECK =3			102			1			19
ChECK =5			81			С			21
FUNKS G-4141			90			C			17
FUNKS G-418C			93			C			2 C
FUNK S G-4288		99	103		1	1		21	22
MC CLRDY MSP 333	104	89	94	0	C	С	23	22	22
MC CLRCY MSX 24		93	91		1	1		18	19
MC CLRDY MSX 46			94			С			23
MC CLRDY MSX44A		105	107		0	0		24	25
O'S GOLD SXIICC		103	106		0	С		24	25
PAYCO SX 68C		95	97		C	С		21	21
PAYCC SX 775	1 C 2	92	97	0	0	С	21	2 C	21
PIONEER 378C	11 C	101	105	0	0	0	21	2 C	21
PRICE R-2CCA	99	90	90	1	0	0	2 1	2 C	2 C
PRICE 3315			91			С			18
PRIDE 44C4		9.8	103		0	С		2 C	21
SCAES EX 105			114			1			19
SOKOTA SS-51		103	103		0	C		19	2 C
SOKCTA SS-67		95	92		0	С		25	24
SOKOTA TS-46			88			1			2 C
SOKOTA TS-49	98	89	89	0	C	0	21	21	21
SOKCIA TS-67			108			l			24
TROJAN TXS 1C2			115			C			24
TROJAN TXS 94	108	101	104	С	0	С	21	2 C	21
WESTERN KX-55			104			0			25

Table 10. 1976 Corn Performance Trial, Area D3, Plant Science Farm, Brookings

BRANC AND VARIETY	TYPE ANC CRESS	Y I E L C E/A	PCT RCCT LOCGEC	PCT STALK LCCGEC	PCT EARS CROPPEC	PERCENT MOISTURE	PERFORMANCE SCORE RATING
PIGNEER 3710	2 X	70.5	0.0	6.4	C • C	19.6	3
CHECK =3	2 X	69.9	C.C	5.3	C - C	16.9	2
ASGRC RX2222	2 X 2 X	69.6	0.C C.C	2.1 2.1	0.C 0.C	16.9	1 4
SECURITY SS97	2 X	67.5 67.1	0.0	10.5	0.0	17.C 15.C	7
ASGRC RX2345 TRCJAN TXS SS	2 X	66.1	C.C	2.2	C • C	16.5	5
CHECK =4	2 x	66.0	0.0	3.7	0.0	17.2	6
ACCC LC 33C1	2 x	64.8	C.C	14.3	C • C	23.2	17
PAYCC SX680	2 X	64.6	C.C	1.6	0.0	17.4	8
SCKCTA TS-49	2 X	63.4	C . C	C. 5	0.0	17.4	9
DISCC SX-9B	2 X	63.3	C .C	4.8	C.C	17.0	10
FUNKS G-4321A	2 X	63.C	C .C	3.7	0 • C	21.3	15
O'S GCLC 11CC	2 X	62.9	0.0	5.9	0.0	21.C	16
NC+ 35	2 X	62.8	C • C	1.6	0 • C	19.7	13
FLNKS G-418C	3 X	61.9	0.0	1.6	0 • C	16.0	11
TRCJAN TXS 1C2	2 x	61.8	0.0	2.1	0 • C	21.7	1 8
PAYCC SX865	2 X	61.4	C • C	1C.7	0 • C	22.2	27
SCKCTA TS-7533	2 X	61.1	0.0	3.2	C • C	15.6	12
PAYCC SX775	2 X	61.0	0 • C	3.2	C.C	20.8	20
O'S GCLC 949	2 X	6C.9	C.C	2.1	C.C	17.1	14
FUNKS G-4444A	2X	60.6	C - C	3.3	C • C	21.8	24
SCAES PP204A	M2X	6C.1	C.C	1.1	C - C	21.3	22
NC+ 12	3 X	60.0	0.0	3.2	C.O O.C	17.9	19 23
MC CLRCY MSP 111 MC CLRCY MSX 44A	3 X 2 X	55.5 55.1	0.C C.C	6.9 5.8	0.0	18.1 21.2	32
P-A-G SX 21C	2 X	55.0	C • C	7.C	C.C	2C.C	30
HESTERN KX-45	2 X	58.7	C • C	3.2	C.C	16.4	21
MC CLRCY MSX 24	2 x	58.5	C • C	9.1	0.0	15.7	25
KALTENBURG KX 57	2 X	58.3	C • C	4.8	C • C	18.2	2.8
FLNKS G-4288	3 X	58.2	C • C	13.C	0 • C	2 C • E	35
CENEX 2116	N2X	58.1	C • O	1.6	0 • C	2C.C	29
FLNKS G-4465	3 X	5 E . C	C • C	12.3	0 . C	23.4	45
SCAES EXS4A	4 X	57.7	C • C	9.1	C.C	23.4	43
CUALITY 3h 1C5	3 X	57.4	C . C	4.8	0 • C	18.1	31
SCAES PP204	2 X	57.4	0 • C	4.9	C.C	24.1	42
CARGILL &63	2 X	57.0	C.C	7.1	0 • C	19.5	33
ASGRC RX58	2 X	56.8	C • C	7.C	C • C	21.C	39
CENEX 3015	3 X	56.5	C - C	2.1	C • C	14.6	26
MC CLRCY MSX 42	2 X	56.5	C.C	3.2	0 • C	21.2	37
NC+ 33	2 X	56.4	C • C	€.4	C • C	2C.1	38
PICNEER 3780	2 X	56.1	C • C	2.1	C • C	19.6	34
ASGRC RX53	2 X	55.7	0.0	2.7	C • C	19.7	36
SECURITY SSIC5	2 X	55.1	C • C	3.7	0.0	19.8	4 1 4 4
MC CLRCY MSX 46	2 X	54.9	C • C	2.2	0.C 0.C	20.5 21.4	46
P-A-G SX69 QUALITY SX 11C	2 X 2 X	54.8 54.8	C • C	2.7 13.4	0.0	22.3	56
SCKCTA SS-51	M2X	54.5	C.C C.C	5.3	0.0	17.2	4C
PAYCC 3XELL	3 X	54.4	C.C	3.2	C • C	21.2	51
CARGILL 845	2 x	54.4	C • C	4.2	0.0	20.4	50
CARGILL 434	3 X	54.2	C.C	7.C	0.0	20.7	52
HESTERN KX-55	2 X	54.1	C • C	10.1	0.0	21.7	5 5
P-A-G 22C	2 x	53.9	C.C	13.8	0.0	22.4	59
KALTENBURG KX 42	2 x	53.3	0.0	5.6	C • C	17.6	49
MC CLR CY 38P	2 X	52.9	C.C	3.2	0 • C	20.1	54
FUNKS G-4141	2 X	52.6	C.C	2.7	0.0	16.9	48
KALTENELRG KX 65	2 X	52.3	C.C	5.9	C • C	20.6	57
NC+ 21	2 X	51.8	C . O	4.3	0 • C	2 C . 8	58
TROJAN TXS 94	2 X	51.5	C • C	2.1	C . C	17.1	53
CHECK =7	2 X	51.C	C • C	1.1	0.0	14.3	47
C'S GCLC 11C7	2 X	5 C • 9	C • C	1.1	0.0	23.1	63
P-A-G 534	3 X	50.4	C - C	16.1	0 • C	20.7	68

Table 10. Continued

	TYPE	YIELC	PCT RCCT	PCT STALK	PCT EARS	PERCENT	PERFCRNANCE
BRANC AND VARIETY	CRCSS	E/A	LOCGEC	LCCGEC	CROPPEC	MCISTURE	SCCRE RATING
CARGILL 848	2 X	49.9	C • C	1.6	0 • C	20.6	62
SDAES EX94	4 X	49.8	C • O	9.7	0 . C	22.1	67
FLNKS G-4195	3 X	49.5	C.C	12.2	C.C	16.4	64
SECURITY SSIC2	2 X	49.5	C.C	6.5	C.C	19.8	65
CHECK ±5	4 X	49.3	C . O	2.7	0 . C	17.8	61
MC CLRDY MSP 333	3 X	45.2	C.C	3.2	C.C	20.8	66
PRICE 3315	2 X	48.7	C .C	C.C	C.C	17.2	6 C
KALTENEURG KX 68	2 X	46.C	0.0	C.6	C.C	23.2	69
PRICE 5525	2 X	44.1	0 . C	2.1	C.C	21.1	71
SCAES EX106	MZX	43.5	C.C	12.2	C.C	16.C	7 C
KALTENBURG KX 720	3 X	42.9	C • C	2.7	C • C	26.5	72
Mean		56.9		5.2		19.6	
LSD-(.05)		12.2				CV - 18.89	7.

Table 11. Area D3 2-, 3-, and 4-year yield, moisture and stalk lodging averages of corn hybrids, 1973-1976

BRANC AND VARIETY	ACRE	YIELD	. E/A	STK L	STK LCCGING, PCT			GRAIN MOIST, PCT		
	4-YR	3-YF	2-YP	4 - YR	3-YP	2-YR	4-YR	3-YR	2-YR	
ACCO LC 33C1	76	69	81	 7	5	8	2 3	24	27	
ASGROW RX 53		65	71		1	1		2 C	23	
ASGRC RX 58		67	76		3	4		23	25	
CARCILL 434		59	68		4	4		23	26	
CARGILL 845			66			2			2 3	
CARGILL 863	73	66	75	4	3	4	21	2 1	24	
CHECK = 3			69			4			19	
CHECK =4			74			2			20	
CHECK =5			57			2			21	
CFECK =7			54			1			16	
FUNKS G-4141			63			2			19	
FLNKS G-418C	6.8	59	65	2	1	1	17	17	19	
FLNKS G-4288	73	64	75	7	5	7	21	21	24	
AC CLRDY MSP 333			65			2			25	
C CLRDY MSX 24		64	69		4	6		17	18	
C CLRDY MSX 42			71			2			25	
MC CLRCY MSX 44A		67	77		2	3		23	25	
MC CLRCY MSX 46		59	66		1	1		23	25	
O'S GCLD SX 11CC	7.8	7 C	76	3	3	4	21	22	25	
P-A-G SX 21C			71			4			25	
PAYCO SX 68C		66	72		1	1		18	20	
PAYCO SX 775	72	6.5	72	2	1	2	21	22	25	
PAYCC SX 865	75	66	74	5	4	6	23	23	26	
PICNEER 378C	10	61	69	4	1	1	2 C	21	24	
PRICE 3315			61			С			2 1	
SCAES EX 94	7 C	57	67	4	3	5	23	24	27	
SCAES EXSAA			62			5			28	
SCAES PP204			70			3			27	
SCAES PP204A			14			1			25	
SECURITY SS 1C2			C			С			C	
SCKOTA SS-51		68	76		3	4		19	21	
SOKCIA IS-49	14	62	68	0	0	С	18	19	21	
TROJAN TXS 1C2			80	_		2	_		26	
TROJAN TXS 94	6.3	52	52	1	1	ì	16	16	16	
TROJAN TXS 55			12	_	9.9	ī			19	
WESTERN KX-55			72			6			25	

Table 12. 1976 Corn Performance Trial, Area D4, Clifford Hofer Farm, Bridgewater

	TYPE		PCT	PCT	PCT		
BRANC AND VARIETY	ANC CRCSS	E/V A IEFC	RCCT Lodged	STALK LOCGEC	EARS CROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
DRANG AND VARIETY	CKCJJ	L/ F	LOUGED		ENGITED	FOISTORE	JOCKE KATTAC
SECURITY SS1C8	2 X	9.33	C • C	C - 4	C • C	16.9	2
CHECK = 3	2 X	68.7	C • C	1.7	0 • C	14.8	1
WILSON 2380	M 2 X	66.1	0.0	C.4	C - C	16.1	3
CARGILL 863	2 X	61.8	C • C	1.6	C - C	16.3	4
WILSON 1016	2 X	58.5	C • O	C • 4 C • 8	0.C C.C	16.5 15.8	6 5
SCKCTA SS-67 FUNKS G-4321A	2 X 2 X	58.3 54.7	C • C C • O	9.0	C.C	16.0	7
TROJAN TXS 111	2 X	54.2	0.0	0.0	C.C	20.7	12
WILSON 1500	M2X	53.8	C.C	1.3	0 • C	16.8	9
PICNEER 3709	M2X	53.1	C.C	C . 8	0 • C	14.9	é
C'S GCLD 11CC	2 X	52.8	C.C	1.2	C.C	14.7	10
TROJAN TXS 1C8A	2 X	52.6	C.C	2.6	C . C	19.7	17
SECURITY SSIC5	2 X	52.6	C .C	C . 4	0 • C	15.4	11
SCKCTA TS-77	2 X	52.5	C • C	1 • C	0 • C	21.1	18
WILSON 1400	2 X	52.3	C . C	C • 5	0 • C	19.1	15
NC+ 33	2 ×	52.3	C • C	C - 4	C • C	16.4	13
TROJAN TXS 102	2 X	52.C	C • C	1.7	C • C	15.9	14
NC+ 57	2 X	51.8	C • C	C.8	C • C	22.9	21
P-A-G 22C	2 X	51.6	C • C	C • C	C • C	17.8	16
DISCC SX-27	2 X	51.0	C • C	0.8	C - C	25.7	24
ASGRCW RX2345	2 X	5C.C	C • C	1.4	C • C	16.2	19
PRICE 44C4 ACCC L 370	2 X 3 X	45.2 45.2	0.0	C • C 4 • 2	C.C C.C	16.4 19.7	2C 23
MC CLRDY MSX 46	2 X	48.6	C • C O • C	C.C	0.0	16.4	22
PAYCC SX865	2 X	47.5	C • C	1.9	0 • C	16.2	25
CARGILL 434	3 X	47.3	C • C	C . 9	C • C	17.3	27
ASGRCW RX58	2 X	47.0	C.C	1.3	C • C	15.5	26
MC CLRDY MSX 42	2 X	46.9	C.G	C.4	C.C	16.7	28
FUNKS G-4366	3 X	45.6	C.C	1.4	C.C	17.2	30
CHECK =5	4 X	45.1	C . C	1.8	C . C	14.3	29
MC CLRCY MSX 448	2 X	43.9	C.C	8.0	C.C	16.1	31
FLNKS G-4445	2 X	43.4	C • C	C.C	0 • C	17.C	32
MC CLRCY MSP 333	3 X	42.6	C • C	1.7	C • C	16.6	33
CHECK = 2	2 X	41.9	C.C	0.0	C • C	15.9	34
NC+ 35	2 X	41.2	C • O	C • C	0.0	16.9	35
FUNKS G-4288 FUNKS G-4465	3 X 3 X	41.1 4C.1	C • C O • C	3.1 2.6	0.C 0.C	15.9 19.1	36 38
DISCC SX-30	2 X	35.9	C.C	C . 9	C • C	25.6	49
TRCJAN TXS 1C54	2 X	39.5	0.0	4 • C	C.C	16.5	37
KALTENBERG KX68	2 X	39.4	0.0	C • 5	0 • C	19.6	41
PRICE 5525	2 X	39.C	C.C	1.2	C.C	18.2	4 C
ACCC L 356	3 X	39.C	C.C	2.5	C.C	18.3	42
MC CLRCY 72-17	3 X	38.9	C . C	C • C	0 • C	19.5	43
SCKCTA SK-79	3 X	38.7	C . C	C.C	C • C	21.4	44
SOKCTA TS-82	2 X	38.4	C • C	C - 8	0 • C	25.3	55
P-A-G SX 210	2 X	37.9	C • C	C • 4	C • C	15.5	39
FUNKS G-4449	2 X	37.5	C • C	C • C	C • C	20.8	52
PAYCC 3X811	3 X	37.2	C • C	C • C	C • C	17.8	45
ACCC LC 3301 KALTENBERG KX65	2 X 2 X	37.C	0.0	C.O C.4	0.C C.C	17.6 16.4	46 47
SCAES EX106	*2 X	36.5 36.3	0 • 0 C • C	5.2	0.0	14.4	48
NC+ 21	3 X	36.2	C.C	1.7	C.C	15.9	50
MC CLRCY 73-91	3 X	35.8	C.C	0.8	0.0	15.8	51
O'S GCLC 55CCA	2 x	35.5	C • C	C . 4	C • C	25.6	59
PRICE 5565	2 X	34.9	C.C	0.8	0.0	15.4	54
KALTENBERG KX57	2 X	34.8	C.C	1.4	C • C	14.9	53
CURTIS 443	2 x	34.2	C.C	3.C	C • C	17.6	56
P-A-G 534	ХŁ	34.2	C • O	6.8	C • C	17.C	57
ASGRC RX61	2 X	33.0	C . C	C • 5	C • O	18.5	58
hESTERN KX-64	2 X	25.9	C . C	2.3	C • C	22.8	63
CARGILL 848	2 X	29.3	C . C	1.6	C.C	15.0	60

Table 12. Continued

BRANC AND	VARIETY	TYPE ANC CRCSS	A 1 E L E	PCT RCCT LCCGEC	PCT STALK LCCGEC	PCT EARS CRCPPEC	PERCENT MCISTURE	PERFORMANCE SCORE RATING
MC CLRCY 3	38 M	2 X	27.9	0.0	1.1	C . C	16.2	61
FUNKS G-44		2 X	27.6	0.0	1.3	0.0	16.3	62
	Mean		44.6		1.3		17.7	
-	LSD-(.05)		19.5				cv - 38.	6 %

Table 13. Area D4 2-, 3-, and 4-year yield, moisture and stalk lodging averages of corn hybrids, 1973-1976

BRANC AND VARIETY	ACRE	YIELD	. e/A	STK L	OCCING	, PCT	GRAIN MOIST, PCT		
	4-YR	3-YP	2-YP	4-YR	3-YR	2-YR	4-YR	3- YR	2 – YR
 ACCC L 370		35	45		2	3		21	2 (
ACCO LC 3301	44	32	39	8	1	2	22	22	20
ASGROW RX 58		3 2	38		1	L		21	19
CARGILL 434			42			2			19
CARGILL 863			52			3			18
HECK =2			34			1			18
CHECK = 3			52			2			16
CHECK =5			38			4			16
DISCO SX-3C			49			1			24
FUNKS G-4288			36			3			16
FLNKS G-4366	46	36	43	5	1	2	21	21	19
FUNKS G-4445		43	49		2	С		22	20
MC CLRDY MSP 333			36			1			18
MC CLRDY MSX 44A		29	35		3	5		21	18
MC CLRCY MSX 46		34	42		0	С		2 C	18
MC CLRDY 72-17		33	41		С	С		23	2 1
O'S GCLD SX 11CC	45	34	45	5	2	2	21	21	1 8
C'S GCLC 55CCA		26	34		l	1		23	27
P-A-G SX 21C			34			1			1
PAYCC SX 865	43	31	40	8	4	5	22	22	1 9
PRICE 5525			3.8			2			1 (
PRICE 5565			28			l			1 8
SECURITY SS 105			47			С			1 4
SECURITY SS 1C8			57			С			1 8
SOKOTA SS-67		36	47		1	2		21	1
SOKOTA TS-77			46			1			2 (
TROJAN TXS 1C2	45	33	44	7	4	7	22	21	1
TROJAN TXS 1C5A			44			3			1
TROJAN TXS 1084	51	36	46	4	2	2	22	21	1 4
WESTERN KX-64			36			2			2
WILSON 1C16	44	35	4 3	5	1	1	22	21	1
WILSON 1500		37	44		1	1		22	1 '

Table 14. Listing of hybrid corn entries harvested and the tables where the results appear

Company & Brand	Variety	Tables	Company & Brand	Variety	Tables	Companv & Brand	Variety	Tables
ACCO Seed	DC 147	6	Kaltenberg Seed	KX 42	6,7,10	Funk Seeds, Intl.	G-4141	6,7,8,9,10,11
PO Box 9	U 356	12	Farms, Rt. 2	KX 57	10,12	1300 W. Washington	G-4180	6,7,9,10,11
Belmond, IA 50421	บ 370	12,13	Waunakee, WI	KX 65	7,10,12	Box 2911	G-4195	6,7,10
"ACCO"	UC 1151	6,7,8,9	"Kaltenberg"	KX 68	6,7,10,12	Bloomington, IL	G-4288	6,7,8,9,10,11,12,13
	UC 1901	6	a_comoc_g	KX 442	6,10	"Funks"	G-4321A	6,7,10,12
	UC 2301	6,8		101 112	0, 2	, attics	G-4366	12,13
	UC 2901	7,9	King's Western Seeds	KX 45	10		G-4444A	6,7,10,12
	UC 3301	7,10,11,12,13		KX 55	6,7,8,9,10,11		G-4445	12,13
	00 3301	7,10,11,12,13	205 Wyoming SW Huron, SD 57350	KX 64	12,13		G-4449	12,13
Agsco, Inc.	3 x B	6	"Western"		,		G-4465	10,12
Box 458	4 x C	6,7	McCurdy Seed Co.	MSP 111	7,10			
Grand Forks, ND		• • •	Fremont, IA 52561	MSP 333	7,9,10,11,12	Trojan Seed Co.	TXS 94	6,7,8,9,10,11
Grand Forks, ND			"McCurdy"	MSX 24	7,9,10,11	PO Box 115	TXS 99	6,8,10,11
Account Soud Co	DV 53	10 11	riccurdy	MSX 42		Watertown, SD	TXS 102	6,7,8,9,10,11,12,13
Asgrow Seed Co.	RX 53	10,11			10,11,12			
PO Box 2010	RX 58	10,11,12,13		MSX 44A	7,9,10,11,12,13	"Trojan"	TXS 105A	12,13
DesMoines, IA	RX 61	12		MSX 46	7,8,10,11,12,13		TXS 108A	12,13
"Asgrow"	RX 2222	7,10		38M	10,12		TXS 111	12
	RX 2345	10,11		72-17	12			
				73-91	12	Payco Seed Co.	SX 680	6,7,9,10,11
Cargill Inc.	434	10,11,12,13				PO Box 70	SX 775	6,7,8,9,10,11
1433 Cargill Bldg.	830	7	Mid-States Dist.	3W 105	10	Dassel, MN 55325	SX 865	6,8,9,10,11,12,13
Mpls., MN 55402	845	10,11	648 Snelling Ave.	SX 110	10	"Payco"	3X 811	6,10,12
"Cargill"	848	7,10,12	St. Paul, MN			,		
	863	7,10,11,12,13	"Quality"			Sokota Hybrids Box 250	TS-46 TS-49	7 7,9,10,11
Cenex Seed	2116	6,7,10	NC+ Hybrids	12	10	Brookings, SD 57006		7,8,9,10,11,12
Box "G"	2125	7	3820 North 56th	21	10,12	"Sokota"	SS-59A	7
St. Paul, MN 55165	3015	6,10	Lincoln, NE 68504	33	10,12	Donoed	SS-67	6,7,8,9,12,13
St. ladi, MM 55105	3013	0,10	"NC+"	35	10,12		TS-67	6,7,8,9
Class Ca. Sand Ca	A-201	6,8	NOT	57	12		TS-77	
Clay Co. Seed Co.				37	12			12,13
Spencer, IA 51301	443	6,12	01- 0-14 04 0-	0/0	10		SK-79	12
"Curtis"			O's Gold Seed Co.	949			TS-82	12
			PO Box 460	1100	7,9,10,11,12,13		SS-7533	10
Disco Seeds	SX-9B	10	Parkersburg, IA	1107	7,10			
PO Box 640	SX-27	12	"O's Gold"	5500A	12,13	South Dakota	Check 2	7,9,12,13
Mitchell, SD 57301	SX-30	12,13				Agricultural	Check 3	7,9,10,11,12,13
"Disco"			P-A-G Seeds	SX 69	10	Experiment	Check 4	6,8,10,11
			1200 Nor'star Ctr.	SX 177	7	Station	Check 5	6,7,8,9,10,11,12,13
Fontanelle Hybrids	365	6,7	Mpls., MN 55402	SX 210	10,11,12,13	"SDAES"	Check 7	10,11
Nickerson, NE 68044	400	6,7	"P-A-G"	220	7,10,12		Check 8	6,8
"Fontanelle"		•		53 4	7,10,12		EX 94	10,11
							EX 94A	10,11
Pioneer Seed Co.	3709	12	Security Seed Co.	SS 97	10		EX 103	6,8
1206 Mulberry St.	3710	6,7,10,12	Box 630	SS 102	10,11		EX 104	6,8
DesMoines, IA 50308		7,9,10,11	Williamsburg, IA	SS 105	10,12,13		EX 105	7,9
"Pioneer"	3965	6	"Security"	SS 108	12,13		EX 106	6,8,10,12
. 1011061	3,03	-	20041169	DI, 1.70	,-3		EX 147	6,8
Wilcon Hubrida	1016	12 13	Dride Co. Tes	P 2004	6790			
Wilson Hybrids	1016	12,13	Pride Co. Inc.	R-200A	6,7,8,9		EX 199	6,8
PO Box 391	1400	12	Glen Haven, WI	2206	6,7		EX 204	7,10,11
Harlan, IA 51537	1500	12,13	"Pride"	3315	6,7,8,9,10,11		EX 204A	7,10,11
"Wilson"	2380	12		4404	6,7,8,9			
				5525	10,12,13			