2-1972

1973 Corn Performance Trials

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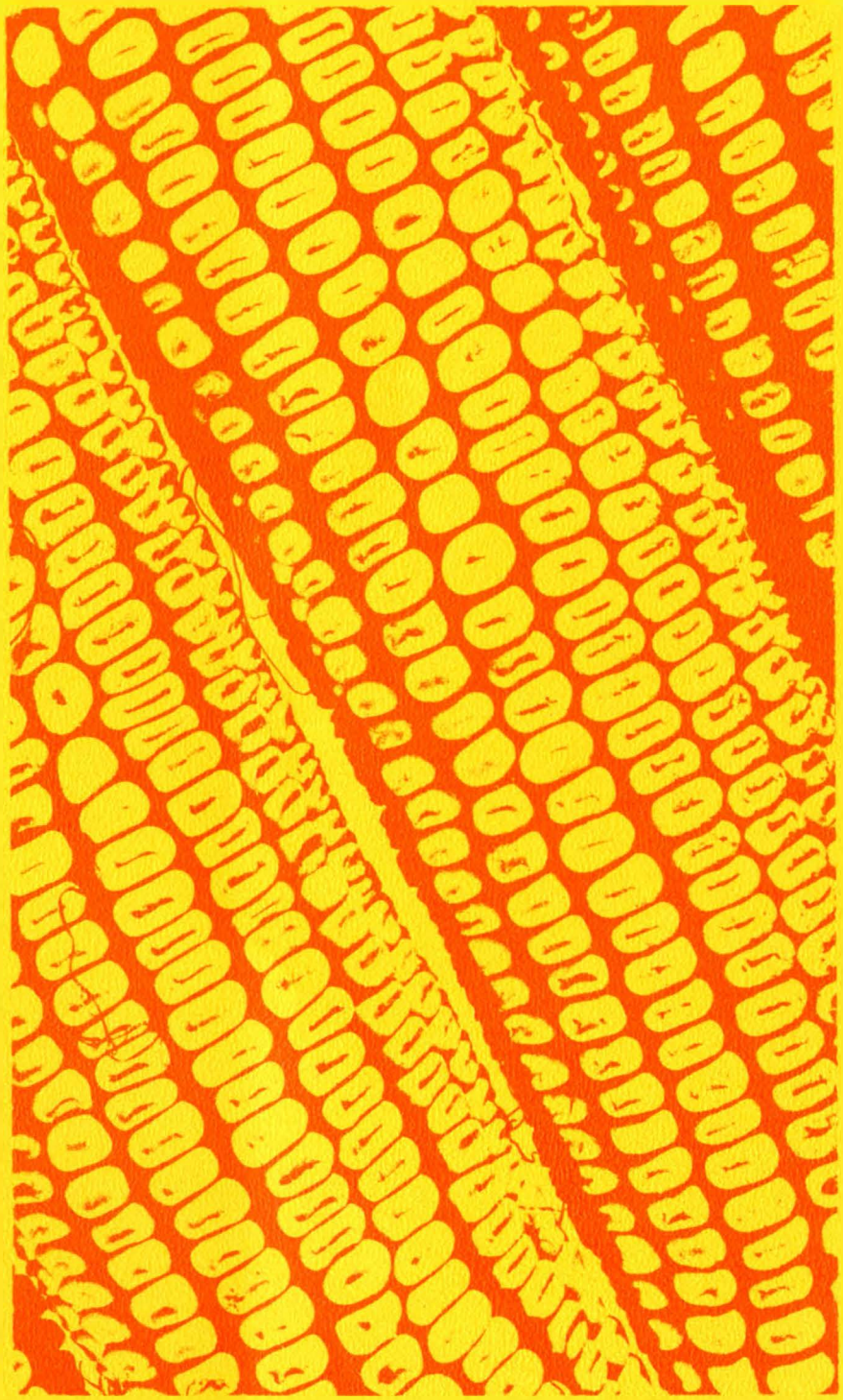
Corn Performance Trials 1973



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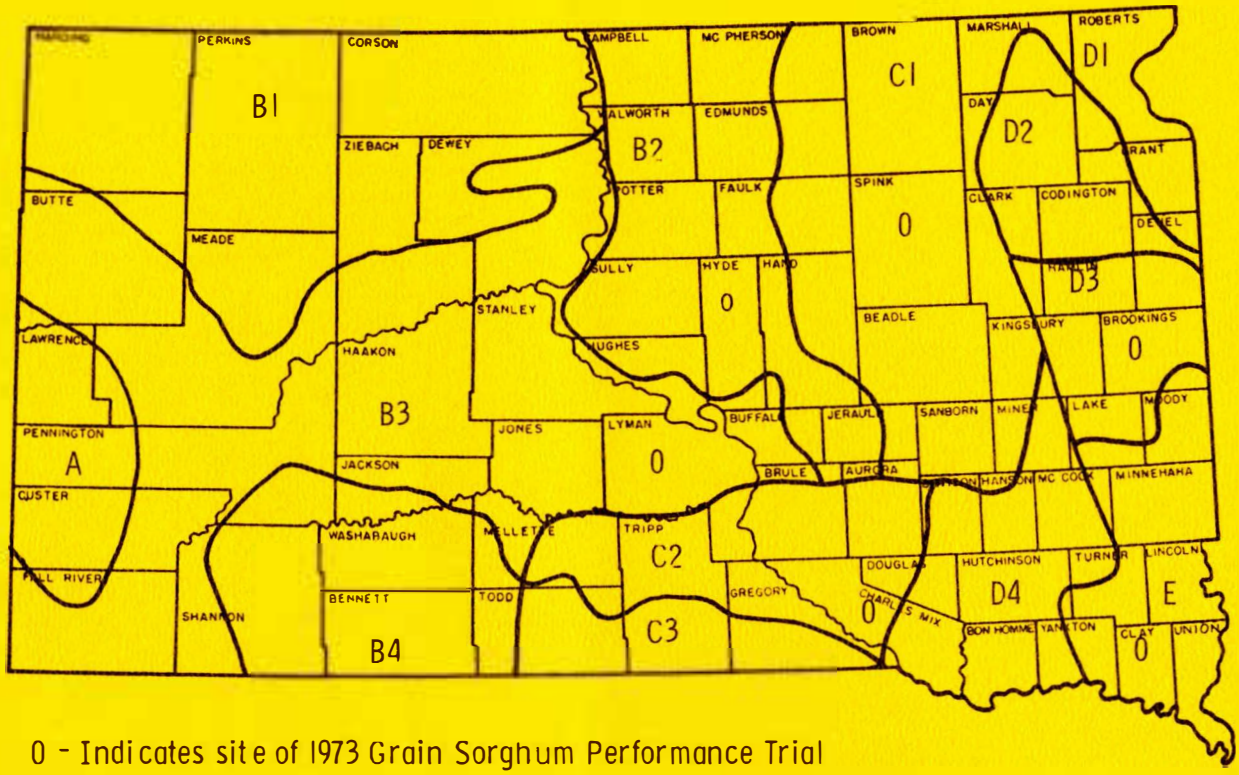
Agricultural Experiment Station
South Dakota State University, Brookings

CROP ADAPTATION AREAS



0 - Indicates site of 1973 Grain Sorghum Performance Trial

1973 Corn Performance Trials

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The relative performance of corn hybrids grown under similar environmental conditions is evaluated in this report for the 1973 season. Information in the accompanying tables includes acre grain yields in bushels per acre, moisture percentages of either ear or shelled corn at harvest, performance scores and other related information. Performance records of the corn hybrids harvested in 1973 and available two-, three-, four-, and five-year averages of yield and moisture percentages are also presented. The trials reported were conducted under the Plant Science program in Crop Performance Testing, Agricultural Experiment Station, South Dakota State University.

Location of the 1973 Trials

Trials were located in the crop adaptation areas marked on the accompanying South Dakota map. The exact location of the trials and dates of seeding and harvest are included in Table 1. No data are presented from the trial near Gettysburg in Area B2 because it was destroyed by deer. The soil classification, laboratory analysis of soil samples taken before or at seeding time, and fertilizer applied are given in Table 2.

Weather and Climatic Conditions

Climatic data (Table 3) for the 1973 corn growing season, May-October, are based upon information obtained from a U.S. Weather Bureau station reasonably near the trial. Data are presented for all but the Geddes area; the nearest recording station is about 15 miles away. Precipitation was adequate and timely during most of the season at Geddes but excessive precipitation, over 9 inches, fell during September and early October, delaying natural ripening and harvest.

Seeding was at normal times in most areas. Some problems arose as limited precipitation fell after seeding and germination in some fields, especially those with spring plowing, was delayed and uneven. Precipitation was quite limited at many sites during the usual periods of most rapid growth. Precipitation from April through September 24 was 3 to 6 1/2 inches below normal at all reporting stations except the extreme northwest area of South Dakota. Because of wet fall conditions in 1972, some portions of the state had adequate subsoil moisture reserves and creditable yields of all crops were produced.

The assistance of the following individuals is appreciated: D. B. Shank and Q. S. Kingsley of the Plant Science Department; Burton Lawrensen, Herb Lund and Ray Ward of the sub-stations; and cooperators William Fijala, Clifford Hofer and Joe Mangin.

Table 1. Location of the 1973 corn performance trials

Area	County	Location	Post Office	Date Seeded	Date Harvested
B2	Potter	Joe Mangin Farm, 5W, 11N	Gettysburg	May 17	----
C1-dry	Spink	Redfield Dev. Farm, 6E	Redfield	May 17	November 2
C1-irr.	Spink	Redfield Dev. Farm, 6E	Redfield	May 17	November 1
C2	Charles Mix	Wm. Fijala Farm, 2E, 1N	Geddes	May 10	October 23
D1	Grant	Whetstone Valley Farm, 5W	Milbank	May 15	October 16
D3	Brookings	Agronomy Farm, 2NE	Brookings	May 9	Nov. 5 & 6
D4	McCook	C. Hofer Farm, 1S	Bridgewater	May 11	Oct. 24 & 26
E	Clay	SE Experiment Farm, 7W,3S	Beresford	May 10	Oct. 29 & 30

The continued lack of precipitation together with several periods of hot, dry winds caused stress conditions for corn fields in all areas of the state. The stresses inhibited growth of the plants and permitted root, stalk and ear rots to enter and weaken the plants. The southeast area of South Dakota was particularly affected and large acreages of stalk lodging and some ear rot were not uncommon. All areas of the state were affected to some degree by the drought but many surprising yields were produced in spite of these adversities.

Killing frosts did not occur in most areas of the state until after mid-October. A light frost was recorded in some areas in mid-September but the temperatures (30-32° F.) caused only partial damage to uppermost leaves. Many corn hybrids had mature ears of quite dry corn, under 20% moisture, still on green stalks by the first hard freeze on October 29, 1973.

Hybrid Entry Procedure

Hybrids entered are submitted by the participating commercial concerns and they designated the locations where their entries are to be grown. Hybrids registered with the South Dakota State Department of Agriculture prior to March 30, 1973, 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 or

Table 2. Laboratory analysis, soil classification and fertilizer applied to the 1973 corn performance trials

Area	Soil Classification	% O.M.	lb/A P	lb/A K	pH	Fertilizer applied Method	N	P	K
C1-dry	Beotia SiCl	2.7	46	668	7.2	spring plowed, disced in	75	0	0
C1-irr	Beotia SiCl	2.6	41	675	7.2	anhydrous knifed in[a]	180	0	0
C2	Highmore SiCl	3.0	14	820	6.8	spring plowed liquid	100	0	0
D1	Peever Cl	3.7	42	533	6.3	plowed down, fall	100	18	0
D3	Vienna L	3.4	32	222	6.7	plowed down, fall	75	25	0
D4	Clarno L	2.9	64	700	6.8	spring plowed	90	21	7
E	Egan SiCl	3.5	43	682	7.1	fall plowed, disced in	75	0	0

a - field preparation was the same for both Cl fields

Table 3. Temperature and precipitation data for the 1973 corn growing season in South Dakota

Location and District	Month	Month mean Temp.	Departure from normal	Av. departure	Month total	Departure from normal	Total departure
		Temperature, degrees F.			Precipitation, inches		
Gettysburg[a]	May	54.9			3.50	0.92	
	June	66.0			1.32	-2.31	
B2	July	72.7			1.57	-0.39	
	Aug.	75.6			2.20	0.36	
	Sept.	57.0			1.43	0.21	
	Oct.	50.7			2.15	1.26	+0.03
	First freeze Oct. 28 - 24°				12.17		
Redfield 6E	May	53.4			1.96		
	June	67.4			1.57		
C1	July	73.1			1.61		
	Aug.	75.3			1.15		
	Sept.	57.6			2.27		
	Oct.	50.4			0.09		
	First freeze Oct. 16 - 29°				8.56		
Milbank	May	57.7	-0.9		5.25		
	June	69.7	1.9		0.46		
D1	July	73.1	-1.1		1.43		
	Aug.	75.3	3.1		1.40		
	Sept.	60.0	-2.3		1.38		
	Oct.	55.4	4.9	+0.9	1.55		
	First freeze Oct. 29 - 24°				11.47		
Brookings	May	53.2	-4.4		1.78	-1.01	
	June	66.4	-0.7		1.22	-2.73	
D3	July	70.1	-3.1		2.54	0.39	
	Aug.	71.9	0.7		1.54	-1.43	
	Sept.	57.2	-4.1		2.73	0.70	
	Oct.	51.2	1.7	-1.7	3.15	1.97	-2.11
	First freeze Oct. 16 - 27°				12.96		
Bridgewater	May	59.1			1.69		
	June	71.4			1.06		
D4	July	75.9			1.87		
	Aug.	78.2			1.49		
	Sept.	61.6			4.82		
	Oct.	54.4			3.15		
	First freeze Oct. 29 - 28°				14.08		
Centerville	May	56.0			2.09		
6 SE	June	69.8			2.25		
	July	72.4			3.56		
E	Aug.	74.7			0.74		
	Sept.	58.7			4.66		
	Oct.	52.3			1.18		
	First freeze Oct. 16 - 28°				14.48		

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

open pedigree hybrids were eligible and each was allowed to be entered once in each adaptation area. No more than eight entries from one concern could be entered at each location. A listing of the firms, with brands and varieties entered, is presented in Table 20.

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.

Table 4. Field methods for the 1973 corn trial sites

Area	Table No.	Number of Replications Harvested	Method of Seeding	Population Desired or Obtained	Row Number of	Row Width, Inches	Row Length, Feet
B2	--	----	drilled	11,335	1	40	32
C1-dry	16	4	drilled	10,640	1	30	35
C1-irr	14	3	drilled	14,420[a]	1	30	32
C1-irr	14	3	drilled	15,670[a]	1	30	32
C2	17	4	drilled	9,970	1	40	32
D1	10	4	drilled	11,400[a]	1	36	32
D1	10	4	drilled	13,580[a]	1	36	32
D3	11	3	drilled	11,760[b]	1	30	32
D3	11	3	drilled	15,550[b]	1	30	32
D4	6	4	drilled	11,750[a]	1	38	32
D4	6	4	drilled	13,110[a]	1	38	32
E	8	3	drilled	15,550[a]	1	30	32
E	8	3	drilled	18,200[a]	1	30	32

a - No significant differences between populations; means of two reported in tables
b - Yields from higher population significantly better than lower population

Recommended organic phosphate insecticides were used at all locations for corn rootworm control. 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. Because of the limited rainfall following seeding the weed control was not as effective as in most seasons.

All plots were seeded as drilled corn using cone-seeders mounted above commercial flexi-planter units with double disc openers. The planting rate was 15% more kernels than desired. Plots were thinned to the desired population where it was possible or necessary. Stands at thinning were at desired levels at only four locations. Adverse soil and moisture conditions caused losses greater than normally anticipated.

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

Table 5. Harvest methods and moisture determinations for the 1973 trials

Area	Harvest method	Samples used for Moisture Determinations	Moisture Determined
C1-dry	Picker-sheller	Shelled corn	Electronically
C1-irr.	Picker-sheller	Shelled corn	Electronically
C2	Hand picked	Ear sections	Oven-dried
D1	Picker-sheller	Shelled corn	Electronically
D3	Picker-sheller	Shelled corn	Electronically
D4	Picker-sheller	Shelled corn	Electronically
E	Picker-sheller	Shelled corn	Electronically

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.

In a comparison of two hybrids or treatments, the yield differences must be larger than the LSD value to show a yield difference. Least significant differences (LSD) values (.05 levels) were determined for the entries in each trial and are shown at the bottom of each table. The smaller the difference in yields, the greater is the possibility that it is due to experimental error.

Moisture content. The moisture content of each entry is expressed as the percentage of moisture either in the ear corn or shelled corn at the time of harvest (see Table 5). Moisture content is inversly related to maturity and, because maturity is of prime importance in South Dakota, these figures are of considerable importance in evaluating 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 percentage are of prime importance. To the cash grain operator who does not turn livestock into the field after harvest, the more stalks standing so that the ears will go through his machinery, the higher his return per acre. Because of the importance of these three factors -- yield, dry matter and upright stalks -- the three results in the tables presenting this information are used to determine the 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:

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

Lodging. Root lodging was not a serious problem in 1973. Losses were minimal. Stalk lodging or breaking below the ear was quite serious at most locations, especially in the very dry areas.

Corn borer and root worm damage was slight though evidence of both insects was seen at most locations.

Dropped ears were not a problem at most locations. Ears that were lost were not separated from the stalk but still attached to stalks that had fallen to the ground and not gathered in by the equipment. This loss is a penalty of machine harvest and losses are usually small.

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 high summer temperatures. Corn hybrids that provide a satisfactory yield 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 over "a several-year period," if available, as the average of several years is considerably more reliable than 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. 1973 Corn Performance Trial, Area D4, Clifford Hofer Farm, Bridgewater

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LODGED	PCT STALK LODGED	PCT EARS DROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
TROJAN TXS 108A	N 2X	95.5	0.0	9.4	0.0	24.0	1
CURRY'S TX-343	N 3X	89.9	C.C	8.3	0.0	22.0	2
WILSON 1017	N 2X	89.0	0.0	16.4	0.0	23.4	4
PIONEER 3571	N M2X	87.5	0.0	8.1	0.0	23.1	3
CURRY'S SC-150	N 2X	86.0	0.0	4.1	0.0	27.5	6
RENK RK-66	N 2X	85.3	C.C	5.7	0.0	23.1	5
PAYCO SX-1093	N 2X	83.2	0.0	2.2	0.0	28.9	9
FUNK'S G-4444	N 2X	82.7	0.0	8.7	0.0	22.8	7
ACCO U 370	N 3X	82.2	0.0	15.2	0.0	22.9	10
ACCO U 378	N 3X	81.0	C.0	6.8	0.0	25.8	15
O'S GOLD SX 1100	N 2X	80.6	0.0	13.9	0.0	21.9	14
DISCO SX-17	N 2X	80.5	0.0	12.4	0.0	22.2	13
PAYCC SX-865	N 2X	80.2	0.0	21.2	0.0	22.3	21
MC CURDYS 72-17	N M2X	80.1	C.C	5.6	0.0	22.4	8
TROJAN TXS 102	N 2X	79.8	0.0	13.9	0.0	22.7	17
MC CURDYS 3X3	N 2X	79.6	0.0	18.7	0.0	23.6	24
ACCO DC 598	N 4X	79.4	0.0	3.9	0.0	23.5	11
PIONEER 3498	N 4X	79.1	C.C	4.4	0.0	23.0	12
ACCO UC 3301	N 2X	78.7	0.0	25.9	0.0	22.5	33
SDAES PP 178	N 3X	78.6	0.0	5.6	0.0	23.3	16
CURTIS A201	N 2X	78.2	0.0	21.1	0.0	23.6	32
WESTERN KX-55	N 2X	78.1	C.0	10.8	0.0	23.2	22
PRIDE R-450	N 2X	78.0	0.0	9.2	0.0	23.3	20
PRIDE R-522	N 2X	77.8	0.0	23.6	0.0	22.1	35
MAYGOLD F 23	N 2X	77.4	0.0	9.6	0.0	21.7	19
FARMERS 4525	N 2X	77.3	C.C	14.8	0.0	23.1	29
FUNK'S G-4465	N M2X	77.0	0.0	9.4	0.0	23.5	25
PIONEER 3520	N 3X	76.6	0.0	5.2	0.0	21.5	18
FONTANELLE 400	N 2X	76.5	0.0	16.9	0.0	22.4	31
FUNK'S G-4288	N 3X	76.4	C.C	22.8	0.0	20.5	36
SDAES PP 176	N 3X	76.4	0.0	13.7	0.0	20.5	23
ASGROW RX 53	N 2X	76.4	0.0	17.1	0.0	19.7	26
WESTERN KX-64	N 2X	74.9	0.0	5.4	0.0	24.0	30
PIONEER 3517	N M2X	74.9	C.C	2.2	0.0	23.2	27
TROJAN TX 105	N 3X	74.8	0.0	19.1	0.0	22.2	41
FUNKS XG-4321	N 2X	74.2	0.0	15.5	0.0	21.6	39
FUNK'S G-4366	N 3X	74.2	0.0	16.7	0.0	21.2	40
WILSON 1016	N 2X	74.1	C.C	17.0	0.0	23.8	44
FUNK'S G-4343	N M2X	74.0	0.0	10.3	0.0	19.4	28
SDAES EX 99	N M3X	73.8	0.0	40.0	0.0	21.5	58
TROJAN TXS 94	N 2X	73.5	0.0	15.5	0.0	18.7	34
O'S GOLD SX 2145	N 2X	72.9	0.0	22.0	0.0	22.1	53
FARMERS 4425	N 2X	72.8	0.0	15.6	0.0	23.3	49
WILSON 516	N M2X	72.2	0.0	14.2	0.0	22.5	46
CURRY'S SC-142	N 2X	72.1	C.C	12.6	0.0	22.3	43
FUNK'S G-4404	N 2X	71.8	0.0	7.2	0.0	20.8	38
MAYGOLD 2095	N 3X	71.6	0.0	15.0	0.0	20.8	45
MC CURDYS MSP 111B	N 3X	71.3	0.4	9.7	0.0	19.0	37
MC CURDYS MSP 333	N 3X	71.3	C.C	17.4	0.0	21.4	54
MC CURDYS 72-13	N 2X	71.1	0.0	12.6	0.0	22.3	51
MC CURDYS 72-6	N M2X	70.9	0.0	3.1	0.0	24.9	47
PRIDE R-728	N 3X	70.7	0.0	22.4	0.0	22.8	57
FUNK'S G-4252	N 3X	70.5	C.C	14.5	0.0	18.8	42
GREEN ACRES S60	N M2X	69.9	0.0	5.4	0.0	22.7	48
ASGROW RX 58	N 2X	69.5	0.0	14.8	0.0	23.1	56
MC CURDYS 3X3 E	N 2X	69.0	0.0	21.8	0.0	21.9	59
TROJAN TX 100	N 3X	68.5	C.C	13.2	0.0	20.3	55
MC CURDYS 3X4	N 2X	67.7	0.0	11.2	0.0	18.1	52
DISCO SP-170	N 3X	66.8	0.0	17.6	0.0	22.5	62
TROJAN TXS 92	N 2X	66.3	0.0	3.6	0.0	18.2	50
SDAES PP 185	N 2X	64.7	0.0	18.2	0.0	21.9	64

Table 6. Continued

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LODGED	PCT STALK LODGED	PCT EARS DROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
GREEN ACRES 97	S 2X	64.4	0.0	24.2	0.0	27.5	70
SDAES PP 184	N 2X	64.3	0.0	2.4	0.0	23.6	60
CURTIS 457	N 2X	63.3	0.0	21.8	0.0	21.2	66
ACCO DC 441	N 4X	62.8	0.0	19.1	0.0	22.5	67
PRIDE R-501	N 3X	62.1	0.0	8.0	0.0	21.1	63
TROJAN TXS 85	N 2X	61.8	0.0	9.6	0.0	17.7	61
ACCO UC 4561	N 2X	61.7	0.0	32.6	0.0	21.0	72
TROJAN TX 90	N 3X	61.5	0.0	21.4	0.0	18.4	65
MAYGOLD 94	N 4X	60.7	0.0	20.1	0.0	22.7	69
SDAES PP 188	N 2X	60.2	0.0	8.6	0.0	25.1	68
TODD M50	N 2X	57.3	0.0	19.4	0.0	19.8	73
SDAES EX 97	N 3X	57.0	0.0	8.1	0.0	23.0	71
SDAES EX 98	N 3X	56.9	0.0	9.5	0.0	26.1	74
SDAES SD 604	T 4X	55.1	0.0	40.5	0.0	22.9	78
SDAES PP 104 A	N 4X	53.7	0.0	28.1	0.0	21.2	76
TODD M20	N 2X	50.5	0.0	12.8	0.0	18.7	75
TODD 330	N 3X	50.4	0.0	26.5	0.0	19.9	77
ACCO TGG 10	T 4X	49.8	0.0	16.2	0.0	24.6	79
TODD M55	N 2X	46.6	0.0	11.1	0.0	23.0	80
Mean		71.0		14.2		22.3	

CV = 22.7% LSD (.05) = 16.0

AREA D4

Table 7. Two-, three-, four-, and five-year yield and moisture percentage averages of hybrids entered in the corn trials, 1969-1973

Brand & Variety	Percent Moisture				Yield, Bushels per Acre			
	1969-73	1970-73	1971-73	1972-73	1969-73	1970-73	1971-73	1972-73
ACCO U 378			28.1	29.1			89.6	86.2
ACCO DC 441				25.0				66.0
ACCO UC 3301			23.7	25.2			84.4	82.2
Disco SX-17				25.4				78.1
Disco SP-170				26.6				79.1
Maygold F 23				23.9				89.8
Maygold 2095				23.7				77.9
McCurdy's 3X3				27.6				84.6
McCurdy's 3X3E				24.3				80.8
McCurdy's 3X4	18.6	19.3	20.7	20.8	77.1	80.7	82.4	78.4
McCurdy's MSP 333				23.7				84.8
Payco SX-1093				30.9				84.7
Pioneer 3571	23.5	23.4	25.1	24.9	76.4	82.0	82.0	73.8
Pioneer 3520				20.2				80.5
Pioneer 3517				27.3				84.8
Pioneer 3498				27.0				80.1
Pride R-501				23.9				78.4
Pride R-728		27.1	26.9	28.1		79.6	80.8	75.3
Renk RK-66				26.8				83.3
SDAES SD 604	22.9	22.7	24.5	25.5	62.2	66.6	71.4	72.3
SDAES PP 104A			23.4	23.9			76.3	74.4
Trojan TXS 85				19.0				58.9
Trojan TX 90				20.1				71.7
Trojan TXS 94				20.9				80.4
Trojan TX 100				22.2				72.8
Trojan TX 102				23.8				92.0
Western KX-55		21.2	22.6	24.0		82.1	83.0	79.8
Wilson 516			23.7	24.8			82.8	81.7
Wilson 1016		21.9	23.6	25.3		80.4	81.6	82.8

Table 8. 1973 Corn Performance Trial, Area E, Southeast Experiment Farm, Beresford

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LODGED	PCT STALK LODGED	PCT EARS DROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
CURRY'S SC-150	N 2X	142.3	0.0	6.4	0.0	22.6	1
PAYCO SX-1093	N 2X	140.2	0.0	5.1	0.0	25.6	2
TROJAN TXS 108A	N 2X	135.5	0.0	12.4	0.0	17.9	3
PRIDE R-803	N 2X	131.7	0.0	14.8	0.0	20.4	4
MC CURDYS MSX-55A	N 2X	125.8	0.0	18.4	0.0	18.4	5
PIONEER 3366	N 2X	121.1	0.0	15.9	0.0	18.9	7
WESTERN KX-64	N 2X	119.7	0.0	16.2	0.0	18.4	9
TROJAN TXS 111	N 2X	119.0	0.0	9.6	0.0	18.8	6
PRIDE R-793	N 3X	117.9	0.0	9.5	0.0	19.3	8
ACCO U 378	N 3X	117.5	0.0	25.5	0.0	20.6	12
CARGILL 890	N M2X	116.7	0.0	37.6	0.0	17.7	18
FUNK'S G-4321	N 2X	113.7	0.0	14.9	0.0	16.7	10
MC CURDYS 2X4	N 2X	113.1	0.0	28.4	0.0	17.7	17
TROJAN TXS 113	N 2X	112.6	0.0	21.2	0.0	20.6	16
FUNK'S G-4445	N M2X	112.0	0.0	34.0	0.0	17.7	19
MC CURDYS MSX 67	N 2X	110.7	0.0	31.3	0.0	18.1	22
CARGILL 449	N 3X	110.6	0.0	39.3	0.0	17.6	27
RENK RK 66	N 2X	110.1	0.0	9.7	0.0	17.2	11
PIONEER 3195	N 2X	110.1	0.0	9.9	0.0	22.4	15
PIONEER 3388	N M2X	109.0	0.0	8.3	0.0	20.2	13
P-A-G 344	N 3X	108.1	0.0	21.5	0.0	20.5	23
P-A-G SX 83	N 2X	108.1	0.0	22.8	0.0	22.0	26
FONTANELLE 400	N 2X	107.8	0.0	31.4	0.0	16.8	24
CURRY'S SC-160A	N 2X	106.7	0.0	29.9	0.0	20.6	30
CURRY'S SC-144	N 2X	105.8	0.0	7.7	0.0	16.9	14
P-A-G SX 53	N 2X	104.3	0.0	44.1	0.0	17.8	43
FUNK'S G-4465	N M2X	104.1	0.0	35.4	0.0	19.0	35
PRIDE R-522	N 2X	104.0	0.0	17.9	0.0	16.6	20
MC CURDYS 69-111	N 2X	103.8	0.0	35.9	0.0	19.3	39
ACCO U 370	N 3X	103.4	0.0	38.5	0.0	19.1	41
DISCO SX-17	N 2X	103.1	0.0	32.3	0.0	17.3	34
ACCO UC 6601	N 2X	102.8	0.0	46.6	0.0	20.0	55
WILSONS 1016	N 2X	102.2	0.0	36.4	0.0	17.1	37
P-A-G SX 454	N M2X	102.1	0.5	21.5	0.0	18.5	28
COOP S-201	N 2X	101.9	0.0	28.6	0.0	17.4	33
PIONEER 3520	N 3X	101.2	0.0	8.5	0.0	18.2	21
TROJAN TXS 102	N 2X	100.7	0.0	37.2	0.0	16.6	42
FUNK'S G-4444	N 2X	100.5	0.0	30.6	0.0	17.5	36
PRIDE R-450	N 2X	100.5	0.0	23.7	0.0	16.8	31
PRIDE R-810	N 2X	100.1	0.0	29.2	0.0	20.8	44
PIONEER 3517	N M2X	99.5	0.0	6.9	0.0	19.3	25
MAYGOLD F 23	N 2X	99.3	0.0	41.8	0.0	16.9	51
SDAES EX 98	N 3X	98.8	0.0	36.3	0.0	19.3	52
MC CURDYS MSX 54	N 2X	98.1	0.0	18.3	0.0	17.2	32
CARGILL 875	N M2X	97.9	0.0	33.1	0.0	17.0	45
MC CURDYS MSX 67E	N 2X	97.8	0.0	14.6	0.0	16.9	29
FUNK'S X-25792	N M2X	97.1	0.0	24.6	0.0	17.0	38
SDAES PP 180	N 3X	97.1	0.0	35.4	0.0	20.2	58
TROJAN TXS 94	N 2X	95.8	0.0	43.0	0.0	16.7	61
FONTANELLE 555	N M2X	94.9	0.0	50.3	0.0	18.7	73
PRIDE R-694	N 2X	94.8	0.0	28.1	0.0	19.4	53
P-A-G 7317	N 3X	94.8	0.0	27.7	0.0	16.6	48
CARGILL 930	N M2X	94.6	0.0	29.8	0.0	19.9	57
GREEN ACRES S60	N M2X	94.4	0.0	26.3	0.0	20.1	54
FUNK'S G-4366	N 3X	94.2	0.0	45.4	0.0	17.1	65
ASGROW RX 58	N 2X	94.0	0.0	40.2	0.0	17.5	62
ACCO UC 4561	N 2X	93.6	0.0	45.5	0.0	17.4	67
SDAES PP 178	N 3X	93.3	0.0	15.7	0.0	17.3	40
FUNK'S G-4404	N 2X	92.8	0.0	23.9	0.0	16.1	47
WILSONS 1017	N 2X	92.8	0.0	45.9	0.0	17.0	69
COOP T-221	N M3X	92.5	0.0	35.5	0.0	19.2	64

Table 8. Continued

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LODGED	PCT STALK LODGED	PCT EARS DROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
RENK RK 55	N 2X	92.5	0.C	35.5	0.0	16.4	60
TROJAN TX 105	N 3X	92.1	C.C	45.1	0.0	17.4	72
MC CURDYS 3X3	N 2X	91.9	C.C	50.5	0.0	17.9	76
ASGRCW RX 60	N 2X	91.9	0.0	20.7	0.0	16.3	46
C'S GOLD SX 3104	N 2X	91.6	0.C	53.3	0.0	17.2	80
PIONEER 3387	N 2X	91.5	C.C	16.8	0.0	18.9	50
GREEN ACRES M24	N 4X	91.2	0.0	21.5	0.0	21.6	59
ACCO TGG 678	N 4X	91.C	0.0	44.0	0.0	21.2	81
FUNK'S G-4567	N M3X	91.0	1.C	36.9	0.0	18.7	68
PRIDE R-771	N 3X	90.8	C.C	30.0	0.0	19.2	63
ACCO UC 4601	N 2X	89.7	0.0	55.7	0.0	20.8	86
GREEN ACRES L17	N 4X	89.0	0.0	32.3	0.0	21.7	74
MC CURDYS MSP 333	N 3X	88.2	0.0	43.2	0.0	16.6	75
DISCC SP-170	N 3X	88.0	0.C	43.0	0.0	17.8	78
SDAES PP 177	N 3X	87.7	C.0	35.0	0.0	17.1	70
SDAES EX 97	N 3X	87.3	0.0	8.0	0.0	18.1	49
ASGROW RX 64	N 2X	87.0	0.0	33.5	0.0	17.0	71
TODD M68	N 3X	86.3	0.C	21.4	0.0	20.0	66
PRIDE R-728	N 3X	86.0	C.0	52.9	0.0	17.7	85
MAYGCLD 2095	N 3X	85.6	0.0	50.0	0.0	16.7	82
SDAES PP 186	N 2X	85.3	0.0	6.6	0.0	20.0	56
TROJAN TX 100	N 3X	83.9	0.C	35.1	0.0	16.2	77
PAYCO 3X-1077	N 3X	82.5	0.0	51.6	0.0	16.9	88
TODD M50	N 2X	80.C	0.0	39.7	0.0	16.4	83
C'S GOLD SX 2145	N 2X	79.2	0.C	51.9	0.0	17.2	90
MAYGOLD 94	N 4X	78.6	C.C	34.6	0.0	17.9	84
TROJAN TXS 92	N 2X	77.6	C.0	21.5	0.0	16.2	79
TODD M55	N 2X	74.6	0.0	35.9	0.0	17.1	89
CURRY'S WC-1442	N 2X	73.6	0.0	27.5	0.0	16.0	87
ACCO TGG 10	N 4X	73.4	0.C	36.0	0.0	19.6	91
TODD M20	N 2X	68.7	0.6	34.5	0.0	16.4	92
GREEN ACRES 97	N 2X	64.8	0.0	62.0	0.0	22.3	94
SDAES SD 604	T 4X	57.0	0.C	70.2	0.0	18.8	95
SDAES PP 188	N 2X	53.2	C.0	21.7	0.0	19.2	93
Mean		97.8		30.0		18.4	

CV = 15.6% LSD (.05) = 17.3

AREA E

Table 9. Two-, three-, four-, and five-year yield and moisture percentage averages of hybrids entered in the corn trials, 1969-1973

Brand & Variety	Percent Moisture				Yield, Bushels per Acre			
	1969-73	1970-73	1971-73	1972-73	1969-73	1970-73	1972-73	1972-73
ACCO U378			21.6	22.0			108.3	127.4
ACCO TGG 10				21.5				102.6
ACCO TGG 678				22.3				112.4
ACCO UC 4601				21.9				114.2
Cargill 930				21.0				132.9
Curry's SC-160A				22.4				134.2
Disco SX-17				18.4				121.7
Disco SP-170				19.4				113.3
Fontanelle 400				17.8				116.5
Maygold F23				18.1				116.6
Maygold 2095				18.2				107.7
McCurdy's 2X4	19.9	18.7	18.0	18.4	106.1	99.9	111.0	125.1
McCurdy's 3X3	23.9	18.7	18.7	19.3	111.8	94.9	100.7	114.2
McCurdy's 69-111			19.4	20.0			114.0	135.4
McCurdy's MSX 55A				19.8				129.4
McCurdy's MSX 67				19.6				133.4
O's Gold SX 2145				19.3				102.5
P-A-G 344				21.7				131.1
Payco SX-1093				23.0				145.2
Pioneer 3520				19.8				119.2
Pioneer 3517				20.6				123.3
Pioneer 3388			21.5	21.7			115.3	124.8
Pioneer 3387		21.1	21.1	21.7		104.2	111.4	121.0
Pride R-450		18.1	17.7	18.1		92.4	102.6	119.9
Pride R-771			20.3	20.6			102.8	121.2
Pride R-728		19.4	19.3	19.8		90.3	100.5	114.0
SDAES SD 604	21.5	20.3	20.1	20.5	69.0	55.6	63.3	73.8
Trojan TXS 94				17.7				107.1
Trojan TXS 102				27.8				119.8
Trojan TXS 111				20.1				142.6
Trojan TXS 113				21.9				136.5
Wilson 1016				18.3				115.4
Wilson 1017			18.1				101.2	120.4

Table 10. 1973 Corn Performance Trial, Area D1, Whetstone Valley Research Unit, Milbank

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LODGED	PCT STALK LODGED	PCT EARS DROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
FUNK'S G-4444	N 2X	67.0	0.8	3.3	0.0	24.6	4
SOKOTA MS-67	N M2X	66.1	1.0	3.3	0.0	24.9	7
FUNK'S G-4321	N 2X	65.9	0.0	5.0	0.0	22.8	5
SDAES PP183	N 3X	65.8	0.0	8.8	0.0	19.3	3
PIONEER 3976	N 2X	65.1	C.C	5.2	0.0	18.0	2
TROJAN TXS 92	N 2X	65.0	0.4	0.9	0.0	18.8	1
SOKOTA TS-67	N 2X	64.4	0.0	7.5	0.0	24.7	13
TROJAN TXS 94	N 2X	64.2	0.5	11.5	0.0	21.3	9
ACCO UC 2301	N 2X	63.9	C.9	15.9	0.0	21.3	14
SDAES EX82	N 3X	63.7	0.4	4.4	0.0	19.1	6
FARMER'S 4229	N 2X	63.5	0.0	5.8	0.0	22.6	10
SDAES PP146	N 4X	63.4	1.0	9.1	0.0	20.3	8
SOKOTA MS-59	N M2X	63.0	C.9	11.0	0.0	22.7	16
PAYCO SX-680	N 2X	62.0	1.3	4.8	0.0	20.2	11
PIONEER 3932A	N 2X	61.3	0.5	1.8	0.0	20.2	12
PRIDE R-290	N 2X	61.3	0.5	10.6	0.0	22.1	19
ACCO UC 3301	N 2X	61.1	C.9	7.1	0.0	24.8	23
PIONEER 3780	N 2X	61.0	0.5	2.7	0.0	21.9	15
FUNK'S G-4195	N 3X	61.0	0.5	12.4	0.0	20.5	18
PRIDE R-200A	N 2X	60.0	0.0	14.1	0.0	19.6	21
FUNK'S G-4366	N 3X	59.9	1.C	5.3	0.0	23.9	24
PAYCO SX-775	N 2X	59.9	0.0	7.6	0.0	23.6	25
PIONEER 3965	N 3X	59.6	0.9	8.2	0.0	18.3	17
WESTERN KX-55	N M2X	59.3	0.C	13.1	0.0	24.9	31
TROJAN TX 90	N 3X	59.3	0.5	10.3	0.0	19.9	22
O'S GOLD SX900	N 2X	59.3	1.9	4.2	0.0	20.5	20
SDAES PP196	N 4X	57.1	0.0	12.0	0.0	20.9	32
FUNK'S G-4180	N 2X	56.7	0.5	8.3	0.0	19.3	27
TROJAN TX 105	N 3X	56.7	1.C	11.3	0.0	24.5	41
ACCO U 326	N 3X	56.7	3.1	12.0	0.0	21.2	35
FARMER'S 4434	N 2X	56.3	5.4	5.9	0.0	19.5	28
ACCO UC 1901	N 2X	56.2	0.5	6.5	0.0	20.7	29
PIONEER 3956A	N 2X	56.0	C.4	22.6	0.0	18.3	38
SDAES PP147	N 4X	55.8	0.9	10.5	0.0	18.7	30
PRIDE R-221	N 3X	55.5	2.0	3.4	0.0	18.7	26
TROJAN TXS 102	N 2X	55.5	1.9	16.6	0.0	24.8	47
RENK RK8	N 2X	55.4	C.C	14.4	0.0	19.6	37
C'S GOLD TX 85	N 3X	54.9	2.7	12.3	0.0	18.4	36
TROJAN TX 100	N 3X	54.8	2.3	6.4	0.0	22.5	40
TROJAN TXS 85	N 2X	54.8	3.C	9.6	0.0	18.2	34
WESTERN KX-33	N 2X	54.7	C.C	4.9	0.0	22.7	39
FUNK'S G-4288	N 3X	54.5	0.0	31.0	0.0	23.3	51
SDAES PP175	N 3X	54.4	0.5	11.2	0.0	20.3	42
ASGROW RX 35A	N 3X	53.8	3.8	1.9	0.0	18.6	33
PAYCO 3X-783	N 3X	53.7	0.4	8.0	0.0	23.3	46
PIONEER 3740	N 3X	53.4	0.5	0.5	0.0	22.7	43
ACCO U 334	N 3X	53.0	0.0	6.0	0.0	22.0	45
ACCO UC 2701	N 2X	53.0	4.2	8.0	0.0	20.8	44
FUNK'S G-4252	N 3X	51.6	2.8	12.2	0.0	20.3	48
ACCO UC 2901	N 2X	50.9	1.0	9.1	0.0	21.1	49
SDAES SD200	N 2X	48.6	0.6	6.8	0.0	19.0	50
FUNK'S G-4404	N 2X	48.2	C.4	1.7	0.0	23.3	52
RENK RK2	N 2X	47.4	2.3	11.9	0.0	19.3	54
SDAES PP171	N 3X	45.9	1.5	3.6	0.0	19.2	53
SDAES SD250	T 4X	39.7	0.C	51.8	0.0	20.5	55
SDAES SD220	T 4X	36.6	2.0	45.6	0.0	18.7	56
Mean		57.3		10.0		21.1	

CV = 19.4% LSD (.05) = 11.0

Table 11. 1973 Corn Performance Trial, Area D3, Agronomy Farm, Brookings

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LODGED	PCT STALK LODGED	PCT EARS DROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
CARGILL 846	N 2X	112.3	0.0	1.3	0.0	19.5	1
COOP S-201	N 2X	109.3	0.0	11.0	0.0	19.9	5
SDAES EX 94	N 4X	109.0	0.0	3.9	0.0	20.9	4
SOKOTA TS-67	N 2X	109.0	0.0	4.7	0.0	20.2	3
SOKOTA TS-49	N 2X	108.4	0.0	0.0	0.0	17.7	2
CURTIS A201	N 2X	107.7	0.0	10.5	0.0	22.0	8
FUNK'S G-4444	N 2X	107.3	0.0	3.5	0.0	20.4	6
DISCO SX-16	N 2X	106.2	0.0	2.0	0.0	20.2	7
TROJAN TXS 108A	N 2X	105.3	0.0	2.8	0.0	22.4	9
PAYCO 3X-783	N 3X	103.2	0.7	6.0	0.0	19.7	10
RENKS RK 44	N 2X	103.0	0.0	7.5	0.0	20.2	15
WESTERN KX 55	N 2X	102.8	0.0	7.2	0.0	21.2	18
ACCO UC 3201	N 2X	102.5	0.0	14.0	0.0	19.7	20
MAYGOLD F 23	N 2X	102.3	0.0	7.6	0.0	19.0	13
RENKS RK 11AA	N 2X	102.0	0.0	5.9	0.0	20.7	17
C'S GOLD SX 1100	N 2X	102.0	0.0	4.3	0.0	19.9	14
FUNK'S G-4321	N 2X	101.8	0.0	6.5	0.0	18.6	12
PAYCO SX-865	N 2X	101.7	0.0	7.2	0.0	20.4	19
P-A-G SX 69	N M2X	100.9	0.0	3.9	0.0	19.9	16
PIONEER 3785	N 2X	100.5	0.0	3.9	0.0	17.4	11
FUNK'S G-4288	N 3X	98.4	0.0	14.6	0.0	18.8	38
TROJAN TXS 102	N 2X	98.4	1.3	11.1	0.0	19.4	33
FARMERS 4434	N 2X	98.3	0.0	11.8	0.0	17.4	26
MC CURDYS 36M	N M2X	97.7	0.0	6.7	0.0	19.4	29
CURTIS 457	N 2X	97.2	0.0	8.9	0.0	20.0	41
RENKS RK 235A	N 3X	97.1	0.0	9.9	0.0	19.6	42
CARGILL 875	N M2X	97.0	0.0	7.8	0.0	19.3	37
FARMERS 2222	N 2X	97.0	0.0	4.6	0.0	17.2	23
PIONEER 3780	N 2X	97.0	0.0	10.9	0.0	18.0	35
CURRY'S SC-146	N 2X	96.9	0.0	3.9	0.0	20.5	34
CURRY'S TC-343	N 3X	96.9	0.0	4.0	0.0	20.3	32
CURRY'S TC-344	N 3X	96.8	0.0	9.7	0.0	21.8	51
MC CURDYS MSX 44	N 2X	96.8	0.0	5.3	0.0	20.0	36
SOKOTA MS-38	N M2X	96.8	0.0	7.1	0.0	16.8	25
SDAES PP 181	N 3X	96.8	0.0	11.0	0.0	21.3	52
TROJAN TXS 94	N 2X	96.7	0.0	3.9	0.0	17.8	24
SOKOTA MS-59	N M2X	96.7	0.0	18.4	0.0	19.3	55
ACCO UC 3301	N 2X	96.6	0.0	12.2	0.0	20.6	53
PIONEER 3740	N 3X	96.5	0.0	0.7	0.0	17.6	21
ASGROW RX 42	N 2X	96.4	0.0	2.7	0.0	17.0	22
SDAES EX 96	N 3X	96.1	0.0	8.6	0.0	18.5	39
MC CURDYS 72-23	N 2X	95.7	0.0	7.2	0.0	19.8	46
FUNK'S G-4180	N M2X	95.6	0.0	5.4	0.0	17.2	27
CARGILL 863	N M2X	95.5	0.0	5.4	0.0	17.9	31
ACCO U 334	N 3X	95.5	0.0	9.9	0.0	18.2	44
PRIDE R-200A	N 2X	95.4	0.0	6.5	0.0	16.7	28
MC CURDYS 2 X 4	N 2X	95.1	0.0	5.3	0.0	20.9	50
SDAES EX 70	N 3X	94.7	0.0	41.3	0.0	20.0	85
SDAES EX 95	N 3X	94.7	0.0	15.2	0.0	20.4	60
TROJAN TX 90	N 3X	94.6	0.0	8.0	0.0	17.7	43
WESTERN KX 52	N M2X	94.4	0.0	1.9	0.0	20.7	48
P-A-G SX 67	N 2X	94.2	0.0	4.6	0.0	17.8	40
SDAES EX 84	N 3X	94.2	0.0	12.1	0.0	18.7	56
PIONEER 3932A	N 2X	93.5	0.0	0.7	0.0	17.1	30
ASGROW RX 53	N 2X	93.2	0.0	4.6	0.0	18.5	49
FUNK'S G-4366	N 3X	93.2	0.0	9.8	0.0	19.5	59
FUNK'S G-4404	N 2X	93.1	0.0	1.9	0.0	18.4	45
PAYCO SX-775	N 2X	92.6	0.0	4.1	0.0	19.8	57
MC CURDYS 69-314	N 2X	92.3	0.0	11.1	0.0	16.3	54
FARMERS 2442	N 2X	92.2	0.0	5.8	0.0	21.5	63
MC CURDYS MSP 111B	N 3X	91.8	0.0	7.9	0.0	17.5	58

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
CCOP T-221	N M3X	91.6	0.0	1.5	0.0	22.0	61
PRIDE R-221	N 3X	91.6	0.0	4.6	0.0	16.2	47
SDAES PP 196	N 4X	91.4	0.0	15.2	0.0	18.4	69
MC CURDYS MSP 333	N 3X	90.5	0.0	5.2	0.0	19.8	64
SDAES PP 175	N 3X	90.4	0.0	14.4	0.0	17.6	70
SDAES PP 176	N 3X	90.0	0.0	8.7	0.0	19.3	71
TODD M50	N 2X	89.7	0.0	7.7	0.0	19.5	72
MC CURDYS 3 X 4	N 2X	89.7	0.0	15.9	0.0	16.5	73
MAYGOLD 94	N 4X	89.5	0.0	12.4	0.0	20.3	75
TROJAN TX 100	N 3X	89.3	0.0	5.3	0.0	18.5	65
SDAES EX 83	N M3X	88.8	0.0	19.3	0.0	18.4	79
SDAES PP 194	N M3X	88.8	0.0	23.7	0.0	18.8	83
PIONEER 3764	N 3X	88.6	0.0	1.5	0.0	18.6	62
O'S GOLD SX 900	N 2X	88.0	0.0	8.0	0.0	17.1	68
PRIDE R-290	N 2X	88.0	0.0	12.4	0.0	17.9	74
MAYGOLD 2095	N 3X	87.4	0.0	8.7	0.0	20.3	78
ACCO UC 2301	N 2X	87.4	0.0	10.9	0.0	18.7	76
TROJAN TXS 92	N 2X	87.0	0.0	4.7	0.0	16.7	67
SDAES PP 187	N 2X	87.0	0.0	6.5	0.0	20.0	77
SDAES PP 189	N 2X	86.5	0.0	13.4	0.0	20.5	84
TROJAN TXS 85	N 2X	86.5	0.0	4.0	0.0	16.2	66
DISCO SX-14	N 2X	86.4	0.0	11.8	0.0	19.3	80
FUNK'S G-4252	N 3X	85.6	0.0	16.3	0.0	17.4	82
ACCO U 326	N 3X	85.5	0.0	13.2	0.0	18.0	81
ACCO DC 394	N 4X	84.1	0.0	16.1	0.0	18.8	86
ACCO UC 1301	N 2X	83.8	0.0	42.9	0.0	18.4	89
SDAES PP 148	N 4X	82.9	0.0	18.7	0.0	18.6	88
FUNK'S G-4195	N 3X	81.0	0.0	13.4	0.0	17.6	87
SDAES SD 250	T 4X	78.2	0.0	66.5	0.0	18.5	92
TODD 330	N 3X	75.4	0.0	24.2	0.0	18.6	91
TODD M20	N 2X	73.4	0.0	11.8	0.0	17.6	90
Mean		94.6		9.7		19.0	

CV = 11.8% LSD (.05) = 12.7

AREA D1

Table 12. Two-, three-, four-, and five-year yield and moisture percentage averages of hybrids entered in the corn trials, 1969-1973

	Percent Moisture				Yield, Bushels per Acre			
Brand & Variety	1969-73	1970-73	1971-73	1972-73	1969-73	1970-73	1971-73	1972-73
ACCO U 326				26.3				70.6
ACCO UC 1901			24.5	24.9			79.2	70.6
ACCO UC 2701				28.1				71.8
ACCO UC 2901			27.4	27.0			78.4	68.3
ACCO UC 3301			31.0	31.3			79.9	72.7
O's Gold SX 900				24.1				72.8
Payco SX 775				30.2				74.5
Payco 3X 783				30.8				69.3
Pioneer 3956A			23.7	24.0			82.0	75.9
Pride R-290			29.2	29.7			81.7	73.2
Renk RK 2				22.2				65.6
SDAES SD 200		20.4	21.8	22.4		69.3	71.0	62.0
SDAES SD 250	23.8	23.1	24.5	25.6	64.6	57.1	62.3	55.7
SDAES EX 82			24.8	25.5			84.3	82.1
SDAES PP 146				25.4				75.2
Sokota MS-59		26.1	28.5	29.6		75.4	77.4	72.3
Trojan TXS 85				22.9				63.4
Trojan TX 90				25.2				77.6
Trojan TSX 94				28.0				79.9
Trojan TX 100				28.3				71.8
Trojan TXS 102				31.4				74.7
Western KX 55			30.4	30.9			81.5	71.6

AREA D3

Table 13. Two-, three-, four-, and five-year yield and moisture percentage averages of hybrids entered in the corn trials, 1969-1973

Brand & Variety	Percent Moisture				Yield, Bushels per Acre			
	1969-73	1970-73	1971-73	1972-73	1969-73	1970-73	1971-73	1972-73
ACCO U 334			22.0	21.1			96.1	107.1
ACCO DC 394				21.2				102.2
ACCO UC 3201				23.3				113.0
ACCO UC 3301			25.0	23.6			99.3	109.7
COOP S-201	23.8	23.4	24.3	23.0	106.9	108.8	109.9	123.7
Curry's SC-146				24.9				112.5
Disco SX-14				21.2				104.0
Maygold F 23				22.1				122.1
Maygold 2095				22.9				102.6
McCurdy's 2X4	24.5	23.9	24.8	23.6	104.0	103.1	103.8	112.3
McCurdy's 3X4	21.8	21.7	21.4	19.6	97.8	98.4	97.3	105.2
McCurdy's MSX 44		23.6	24.3	23.4		101.0	100.0	110.9
McCurdy's 36M				22.7				110.4
P-A-G SX 67				19.8				107.8
Payco SX 775				21.5				108.7
Payco SX 865				23.1				117.9
Payco 3X 783				21.7				113.7
Pioneer 3780				21.0				114.3
Pride R-200A				19.3				111.7
Pride R-290		21.2	25.3	20.6		99.8	101.0	114.1
Renk RK 11AA			23.4	22.4			102.8	117.8
Renk RK 44		23.0	23.8	22.4		101.8	102.6	118.9
SDAES SD 250	18.9	20.6	21.1	20.6	78.2	77.9	78.8	90.3
SDAES EX 70	23.7	23.0	23.3	22.7	100.3	100.0	99.9	107.2
SDAES EX 83				21.4				104.8
SDAES EX 84				20.8				104.8
Sokota MS-59		21.4	22.1	21.1		94.9	95.9	107.2
Trojan TX 90				19.8				102.6
Trojan TXS 94				20.3				107.7
Trojan TX 100				20.5				102.2
Trojan TXS 102				22.5				115.7
Western KX 55		23.9	24.8	23.6		100.9	100.0	112.0

Table 14. 1973 Corn Performance Trial, Area C1(irrigated), Redfield Development Farm, Redfield

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LODGED	PCT STALK LODGED	PCT EARS DROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
RENK RK 44	N 2X	159.0	0.6	1.7	0.0	24.7	1
SOKOTA TS-67	N 2X	156.6	0.0	0.0	0.0	25.8	3
PRIDE R-290	N 2X	156.6	0.0	2.0	0.0	23.5	2
PAYCO SX 865	N 2X	150.3	0.0	0.0	0.0	25.9	4
MC CURDY 2X4	N 2X	147.0	0.0	0.5	0.0	26.1	7
MC CURDY MSP 333	N 3X	146.7	0.0	0.0	0.0	25.0	6
TROJAN TXS 102	N 2X	145.7	0.0	2.2	0.0	26.4	9
RENK RK 11AA	8 2X	145.5	0.0	0.0	0.0	23.5	5
WESTERN KX-55	N 2X	145.1	0.0	0.5	0.0	25.4	8
SOKOTA MS-67	N M2X	142.2	0.0	0.5	0.0	26.1	10
ACCO UC 3201	N 2X	141.7	0.0	0.6	0.0	26.2	11
PAYCO SX 775	N 2X	134.7	0.0	0.0	0.0	23.1	12
PIONEER 3780	N 2X	134.2	0.0	0.0	0.0	23.8	15
ACCO U334	N 3X	134.0	0.0	0.0	0.0	23.0	14
SOKOTA MS-59	N M2X	133.3	0.0	0.6	0.0	23.0	16
ACCO UC 1150	T 2X	132.8	0.0	1.1	0.0	21.4	13
DISCO SX-16	N 2X	131.3	0.0	1.8	0.0	25.0	19
MC CURDY MSP 111 B	N 3X	130.1	0.0	0.6	0.0	22.5	17
SDAES PP 181	N 3X	128.7	0.0	0.0	1.1	25.2	21
TROJAN TXS 94	N 2X	128.6	0.0	0.0	0.0	23.0	18
ACCO UC 1901	N 2X	127.1	0.0	2.5	0.0	21.8	20
SOKOTA TS-49	N 2X	126.6	0.0	1.1	0.0	23.3	22
ACCO UC 2901	N 2X	126.4	0.0	2.8	0.0	22.6	23
SDAES SD 250	T 4X	125.7	0.0	5.2	0.0	22.5	26
CURRY'S SC-142	N 2X	125.4	0.6	0.6	0.0	25.8	29
PRIDE R-200A	N 2X	125.2	0.6	2.3	0.0	22.3	25
MC CURDY 3X4	N 2X	124.4	0.0	2.9	0.0	21.0	24
DISCO SX-14	N 2X	123.7	0.0	1.9	0.0	22.8	28
CURRY'S SC-144	N 2X	123.3	0.0	0.6	0.0	26.0	34
PRIDE R-221	N 3X	122.6	0.6	1.9	0.0	21.0	27
SDAES PP 187	N 2X	122.1	1.3	0.0	0.0	24.2	32
PIONEER 3764	N 3X	120.9	0.0	0.0	0.0	24.1	35
TROJAN TXS 99	N 2X	120.7	0.0	0.6	0.0	21.7	30
PIONEER 3740	N 3X	120.5	0.0	0.6	0.0	23.0	33
TROJAN TX 100	N 3X	119.5	0.0	1.2	0.0	23.0	36
ACCO U 309	T 3X	119.4	1.2	9.8	0.0	20.9	37
WESTERN KX-52	N M2X	119.1	0.6	1.8	0.0	24.2	38
TROJAN TXS 92	N 2X	118.9	0.0	2.8	0.0	20.3	31
ACCO UC 1301	N 2X	116.8	0.6	3.1	0.0	22.9	39
SDAES PP 189	N 2X	112.6	15.8	4.1	0.0	25.2	44
O'S GOLD SX 900	N 2X	112.2	0.0	5.2	0.0	22.0	41
RENK R 235 A	N 3X	110.0	0.0	0.7	0.0	24.3	45
PIONEER 3932	N 2X	109.3	0.0	0.6	0.0	21.2	42
ASGROW RX 42	N 2X	109.0	0.0	1.4	0.0	21.7	43
TROJAN TXS 85	N 2X	107.8	0.6	0.0	0.0	19.7	40
O'S GOLD TX 85	N 3X	103.1	1.9	0.6	0.0	20.7	46
PIONEER 3785	N 2X	101.9	0.0	1.4	0.0	22.6	48
TROJAN TX 90	N 3X	101.4	0.6	2.6	0.0	21.7	47
SDAES PP 178	N 3X	100.1	0.7	0.0	0.0	26.9	49
SDAES SD 200	N 2X	95.6	0.8	5.3	0.0	21.7	50
SDAES PP 192	N 2X	88.6	0.0	0.9	0.0	24.4	51
SDAES PP 188	N 2X	86.8	0.7	0.0	0.0	28.1	53
SDAES SD 230	T 4X	84.3	0.8	2.5	0.0	23.8	52
Mean		124.0		1.5		23.5	

CV = 14.1% LSD (.05) = 20.0

AREA C1 (IRRIGATED)

Table 15. Two-, three-, four-, and five-year yield and moisture percentage averages of hybrids entered in the corn trials, 1969-1973

Brand & Variety	Percent Moisture				Yield, Bushels per Acre			
	1969-73	1970-73	1971-73	1972-73	1969-73	1970-73	1971-73	1972-73
ACCO U 334			26.2	25.5			118.2	115.8
ACCO UC 1301				25.0				103.4
ACCO UC 1901			24.6	23.9			117.7	115.2
ACCO UC 2901			26.8	26.3			116.8	109.0
ACCO UC 3201				30.0				117.6
Curry's SC-142	28.7	28.3	29.5	29.6	130.7	124.4	122.0	109.7
Curry's SC-144				30.2				108.9
Disco SX 14				25.5				113.3
Disco SX 16				28.6				119.4
McCurdy's 2X4	28.8	28.5	29.7	29.3	130.9	126.9	126.6	119.7
McCurdy's MSP 333		27.1	27.9	27.3		117.2	121.3	122.0
Payco SX 775				25.3				115.9
Payco SX 865				29.2				116.3
Pioneer 3780				26.4				114.8
Pride R 200A		23.6	24.8	25.3		115.3	114.7	117.4
Pride R 290		25.7	26.9	26.4		126.3	132.2	129.6
Renk RK11AA			26.1	25.9			115.3	114.4
Renk RK 44			31.4	28.4			133.1	134.2
SDAES SD 200			22.6	22.8			97.2	90.1
SDAES SD 230				26.0				80.8
SDAES SD 250	24.6	24.4	25.8	26.6	102.9	99.6	102.9	100.3
Trojan TXS 85				21.5				94.9
Trojan TX 90				23.0				94.9
Trojan TXS 94				24.9				111.9
Trojan TXS 99				24.9				112.2
Trojan TX 100				24.7				103.6
Trojan TXS 102				29.1				118.6
Western KX 55	26.7	28.2	29.4	28.9	119.8	121.9	125.9	118.0

Table 16. 1973 Corn Performance Trial, Area C1(dryland), Redfield Development Farm, Redfield

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LODGED	PCT STALK LODGED	PCT EARS DROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
SOKOTA MS-67	N M2X	111.9	0.0	0.0	0.0	24.7	1
SOKOTA TS-67	N 2X	110.1	0.0	2.0	0.0	24.7	2
TROJAN TXS 102	N 2X	99.6	0.0	1.1	0.0	24.8	3
TROJAN TX 100	N 3X	96.3	C.C	2.2	0.0	22.7	4
WESTERN KX-55	N 2X	94.1	1.1	0.0	0.0	25.2	7
CURTIS A201	N 2X	93.9	0.0	0.0	0.0	24.6	6
PAYCC SX-775	N 2X	93.3	0.0	1.1	0.0	22.9	5
PRIDE R-290	N 2X	89.8	C.C	0.0	0.0	23.1	11
DISCC SX-9	N 2X	89.C	0.0	1.1	0.0	18.8	8
PRIDE R-221	N 3X	88.9	0.0	0.0	0.0	19.7	9
PIONEER 3816	N 4X	88.4	0.0	0.0	0.0	20.2	10
CURRY'S SC-144	N 2X	88.2	C.C	0.0	0.0	24.9	13
TROJAN TXS 99	N 2X	86.0	0.0	1.3	0.0	20.7	12
CURTIS 457	N 2X	85.2	0.0	0.0	0.0	23.1	19
ASGRCW RX 42	N 2X	84.9	0.0	0.0	0.0	21.7	15
TROJAN TXS 94	N 2X	84.6	C.C	2.1	0.0	21.0	17
ACCO U 334	N 3X	84.3	C.0	2.4	0.0	20.9	18
ACCO DC 147	N 4X	84.2	0.0	1.2	0.0	20.1	14
SDAES PP 183	N 3X	84.1	0.0	1.1	0.0	20.6	16
PIONEER 3773	N 2X	83.2	C.C	0.0	0.0	22.8	21
TROJAN TX 90	N 3X	82.7	1.1	1.1	0.0	20.2	20
PIONEER 3662	N 4X	82.4	0.0	0.0	0.0	22.3	23
ACCO U 326	N 3X	81.4	0.0	2.1	0.0	21.4	26
ACCO UC 1150	T 2X	81.2	C.C	1.2	0.0	19.7	22
PIONEER 3780	N 2X	81.1	0.0	0.0	0.0	21.7	25
PIONEER 3764	N 3X	81.1	0.0	0.0	0.0	21.3	24
SDAES PP 175	N 3X	80.7	0.0	1.1	0.0	21.5	28
SDAES SD250	T 4X	80.6	C.C	3.2	0.0	21.7	31
SDAES PP 174	N 3X	79.3	0.0	1.1	0.0	21.0	32
TROJAN TXS 92	N 2X	78.9	0.0	0.0	0.0	19.0	27
SDAES PP'195	N M3X	78.7	0.0	2.2	0.0	18.8	29
PIONEER 3932	N 2X	78.6	C.C	1.1	0.0	19.4	30
O'S GOLD TX 85	N 3X	75.1	0.0	1.0	0.0	19.5	33
ACCO U 309	T 3X	74.9	0.0	1.3	0.0	19.7	34
SDAES PP 147	N 4X	74.1	0.0	2.3	0.0	20.0	35
CURRY'S TC-343	N 3X	72.9	C.C	1.3	0.0	22.9	39
ACCO UC 1901	N 2X	72.1	0.0	0.0	0.0	20.2	36
DISCO SX-10	N 2X	7C.9	0.0	0.0	0.0	20.4	38
SDAES EX92	N 4X	70.5	2.3	1.2	0.0	19.2	37
C'S GOLD SX 900	N 2X	70.3	0.C	0.0	0.0	21.1	41
SDAES PP 171	N 3X	69.6	0.0	0.0	0.0	19.7	40
ACCO UC 1301	N 2X	67.8	0.0	3.8	0.0	21.8	43
TROJAN TXS 85	N 2X	67.4	0.C	1.2	0.0	19.4	42
SDAES SD230	T 4X	66.4	0.0	2.7	0.0	21.3	44
SOKOTA TS-49	N 2X	64.1	0.0	0.0	0.0	21.2	45
SDAES SD220	T 4X	55.8	0.0	3.8	0.0	18.7	46
SDAES PP 148	N 4X	52.2	0.0	1.8	0.0	21.9	48
SDAES PP 172	N 3X	51.4	0.0	2.6	0.0	18.5	47
SDAES SD200	N 2X	44.2	0.0	0.0	0.0	18.4	49
Mean		79.7		1.1		21.2	

CV = 19.6% LSD (.05) = 21.7

Table 17. 1973 Corn Performance Trial, Area C2, William Fijala Farm, Geddes

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LODGED	PCT STALK LODGED	PCT EARS DROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
CURRY'S SC-150	N 2X	83.1	0.0	3.0	0.0	32.6	2
PIONEER 3366	N 2X	81.3	0.0	4.1	0.0	31.7	5
PIONEER 3388	N M2X	80.9	0.0	0.0	0.0	31.0	3
DISCO SX17	N 2X	80.3	0.0	5.7	0.0	19.5	1
TROJAN TX 111	N 3X	80.3	0.0	19.4	0.0	28.8	9
ACCO UC 3301	N 2X	76.7	0.0	9.5	0.0	23.7	6
CURRY'S TC-344	N 3X	75.4	1.0	1.0	0.0	22.8	4
PIONEER 3390	N M2X	74.6	0.0	8.0	0.0	31.3	20
TROJAN TXS 102	N 2X	73.7	0.0	4.8	0.0	21.8	7
WESTERN KX-55	N 2X	72.2	0.0	8.1	0.0	22.4	12
FARMERS 4425	N 2X	72.0	0.0	4.9	0.0	22.7	11
TROJAN TXS 94	N 2X	71.4	0.0	6.5	0.0	17.7	8
ACCO U 378	N 3X	71.3	0.0	0.9	0.0	30.0	24
CURTIS A-201	N 2X	69.9	0.0	4.4	0.0	23.7	17
PIONEER 3498	N 4X	69.5	0.0	9.1	0.0	28.5	30
PRIDE R-522	N 2X	69.4	0.0	4.7	0.0	17.5	10
O'S GOLD SX 1100	N 2X	69.3	0.0	3.0	0.0	19.6	13
TODD M68	N 2X	68.6	0.0	3.9	0.0	30.9	32
ACCO DC 441	N 4X	68.5	0.0	28.0	1.0	22.6	33
PRIDE R-450	N 2X	67.8	0.0	8.0	0.0	21.8	25
CURRY'S SC-142	N 2X	67.7	0.0	7.1	0.0	19.1	18
TROJAN TX 105	N 3X	67.4	0.0	14.1	0.0	21.7	28
SDAES PP 196	N 4X	67.4	0.0	8.0	0.0	16.2	15
CURTIS 457	N 2X	67.2	0.0	8.9	0.0	18.6	21
WILSONS 1017	N 2X	67.0	0.0	2.1	0.0	23.3	26
FARMERS 4490A	N 3X	67.0	0.0	20.6	0.0	26.3	37
SDAES PP 194	N M3X	66.3	0.0	12.8	0.0	17.0	23
TROJAN TXS 111	N 2X	66.2	0.0	3.7	0.0	25.6	31
ASGROW RX 58	N 2X	65.9	0.0	1.0	0.0	17.7	16
PAYCO SX 865	N 2X	65.7	0.0	3.8	0.0	18.7	22
C'S GOLD SX 3104	N 2X	65.5	0.0	20.0	0.0	22.7	36
SDAES PP 171	N 3X	65.1	0.0	0.0	0.0	14.3	14
ACCO UC 3601	N 2X	63.8	0.0	4.0	0.0	29.7	40
TROJAN TXS 108A	N 2X	63.4	0.0	3.2	0.0	23.8	34
SDAES PP 147	N 4X	63.3	0.0	2.1	0.0	14.3	19
PIONEER 3517	N M2X	63.0	0.0	2.8	0.0	29.6	41
WILSONS 1016	N 2X	62.5	0.0	5.5	0.0	21.9	35
ACCO U 348	N 3X	62.4	0.0	22.7	0.0	26.7	45
ASGROW RX 60	N 2X	61.7	0.0	0.9	0.0	15.5	27
PIONEER 3571	N M2X	61.3	0.0	15.5	0.0	27.9	47
SDAES PP 195	N M3X	60.8	0.0	6.5	0.0	14.6	29
COOP T-221	N M2X	60.2	0.0	8.3	0.0	27.1	43
COOP S-201	N 2X	59.0	0.0	6.5	0.0	19.2	38
TODD M55	N 2X	58.9	0.0	7.1	0.0	23.0	42
SDAES EX99	N M3X	58.8	0.0	45.0	0.0	23.2	53
PRIDE R-728	N 3X	58.1	0.0	24.0	0.0	27.6	51
SDAES PP 146A	N 3X	58.1	0.0	13.3	0.0	16.5	39
SDAES PP 187	N 2X	56.6	0.0	14.4	0.0	21.3	48
WILSONS 516	N M2X	55.8	0.0	7.0	0.0	26.3	50
PRIDE R-694	N 2X	55.7	0.0	4.3	0.0	31.0	52
TODD M50	N 2X	55.6	0.0	8.9	0.0	20.3	46
ACCO UC 4601	N 2X	54.9	0.0	8.8	0.0	30.7	54
ACCO U 370	N 3X	54.7	0.0	23.9	0.0	27.9	56
TODD M20	N 2X	53.1	0.0	10.3	0.0	14.9	44
SDAES SD 250	N 4X	52.9	0.0	45.5	0.0	16.3	55
TROJAN TX 100	N 3X	52.0	0.0	10.5	0.0	15.5	49
GREEN ACRES 97	S 2X	51.1	0.0	28.4	0.0	30.9	57
DISCO SP 170	N 3X	46.6	0.0	22.7	0.0	27.7	58
Mean		65.2		10.2		23.2	

CV = 18.4% LSD (.05) = 16.7

AREA C1 (DRYLAND)

Table 18. Two-, three-, four-, and five-year yield and moisture percentage averages of hybrids entered in the corn trials, 1969-1973

Brand & Variety	Percent Moisture				Yield, Bushels per Acre			
	1969-73	1970-73	1971-73	1972-73	1969-73	1970-73	1971-73	1972-73
ACCO DC 147			23.2	21.6			64.6	80.7
ACCO U 326				22.2				80.3
ACCO UC 1301				23.3				71.8
ACCO UC 1901			22.0	21.8			63.7	76.3
Curry's SC-144				27.0				85.0
O's Gold SX 900				21.9				66.2
Payco SX 775				25.0				87.3
Pioneer 3932				22.0				78.0
Pioneer 3773		24.4	26.6	24.5		61.4	66.7	88.2
Pioneer 3662				24.4				79.8
Pride R-290		24.2	26.7	24.9		60.5	70.3	86.1
SDAES SD 200	19.7	19.3	21.0	19.9	47.9	47.2	51.0	54.0
SDAES SD 220				24.1				54.9
SDAES SD 230	23.3	22.5	24.4	23.8	51.3	51.6	53.2	64.4
SDAES SD 250	22.9	21.8	23.5	22.4	51.0	52.5	59.4	77.0
SDAES EX 92				20.0				71.7
SDAES PP 147			21.8	20.7			59.9	68.6
Trojan TXS 85				20.2				62.7
Trojan TX 90				21.8				79.9
Trojan TXS 94				22.8				87.4
Trojan TXS 99				21.7				75.0
Trojan TX 100				23.8				85.5
Trojan TXS 102				26.2				95.1
Western KX-55			28.3	26.6			70.8	88.5

AREA C2

Table 19. Two-, three-, four-, and five-year yield and moisture percentage averages of hybrids entered in the corn trials, 1969-1973

Brand & Variety	Percent Moisture				Yield, Bushels per Acre			
	1969-73	1970-73	1971-73	1972-73	1969-73	1970-73	1971-73	1972-73
ACCO U 348				24.4				85.4
ACCO U 378			33.8	30.6			74.5	95.0
ACCO UC 3301				23.4				90.2
ACCO UC 3601				29.9				85.7
Coop S-201			24.9	22.5			72.1	86.9
O's Gold SX 1100				22.4				89.5
Pioneer 3571		27.0	27.0	24.4		59.3	68.8	88.7
Pioneer 3517				28.8				79.0
Pioneer 3498				29.3				89.6
Pioneer 3388			34.4	31.8			77.6	93.8
Pioneer 3390	32.6	32.7	35.2	31.0	65.8	60.9	69.4	92.8
Pride R-450		24.2	26.7	22.7		62.9	69.6	91.4
SDAES SD 250				17.8				66.4
SDAES PP 147			14.3	13.4			60.5	71.9
Trojan TXS 102				23.5				91.9
Western KX 55		24.3	25.8	23.5		62.9	70.2	89.6
Wilson 516			27.4	24.9			68.4	79.5
Wilson 1016		23.8	25.9	24.0		64.3	70.7	88.3

Table 20. Listing of the hybrid corn entries and tables where the results appear

Company & Brand	Variety	Tables
Cargill, Inc.	930	8,10
Box 2813	449	8
North Star Sta,	846	11
Minneapolis, MN	863	11
"Cargill"	875	11,13
	890	8
Disco, Inc.	SX-10	16
800 N. Lawler	SX-17	6,7,8,9,17
Mitchell, SD	SX-14	11,13,14,15
"Disco"	SX-16	11,13,14,15
	SP-170	6,7,8,9,17
	SX-9	16
Green Acres	L 17	8
Hartington, NB	S 60	6,8
"GreenAcres"	M 24	8
	97	6,8,17
Pioneer Seed Co.	3976	10
1206 Mulberry St.	3773	16,18
Des Moines, IA	3390	17,19
"Pioneer"	3571	6,7,17,19
	3387	8,10
	3780	10,11,13,14,15,16
	3956A	10,12
	3388	8,10,17,19
	3498	6,7,17,19
	3517	6,7,8,10,17,19
	3520	6,7,8,10
	3932	14,16
	3195	8
	3366	8,17
	3662	16,18
	3740	10,11,14
	3764	11,14,16
	3785	14,16
	3816	16
	3932A	10,11
	3965	10
Sokota Hybrids	TS-49	11,14,16
Box 197	TS-67	10,11,14,16
Brookings, SD	MS-59	10,11,12,13,14
"Sokota"	MS-38	11
	MS-67	11,14,17
Curry Seed Co.	SC-142	6,14,15,17
Box 517	SC-144	8,14,15,16,18
Elk Point, SD	TX-344	11,17
"Curry's"	SC-146	11,13
	SC-160A	8,9
	TC-343	6,11,16
	SC-150	6,8,17
	WC-1442	8
W.O.McCurdy&Sons	3X4	6,7,11,13,14
Fremont, IA	2X4	8,9,11,13,14,15
"McCurdy's"	MSX 44	11,13
	3X3	6,7,8,9
	MSP 333	6,7,8,11,14
	69-111	8,9
	36M	11,13
	MSX 55A	8,9
	3X3E	6,7
	MSX 67	8,9
	MSP 111B	6,11,14
	MSX 54	8
	MSX 67E	8
	69-314	11
	72-6	6
	72-13	6
	72-17	6
	72-23	11
PAG Seeds	SX 67	11,13
Bx 2813, NorStar St.	344	8,9
Minneapolis, MN	SX 53	8
"P-A-G"	SX 69	11
	SX 83	8
	SX 454	11
	7317	11
Asgrow Seed Co.	RX 35A	10
4244 Clinton Ave.	RX 42	11,14,16
Des Moines, IA	RX 53	6,11
"Asgrow"	RX 58	6,11,17
	RX 60	11,17
Wilson Hybrids	1016	6,7,9,17,19
Harlan, IA	1017	6,8,9,17
"Wilson's"	516	6,7,17,19
King's Western Seeds	KX-33	10
2nd & Wyoming	KX-55	6,7,10,11,12,13,14, 15,16,17,18,19
Huron, SD		
"Western"	KX-52	11,14
	KX-64	6,8
O's Gold Seed Co.	SX 1100	6,11,17,19
Box 460	SX 900	10,11,12,14,16,18
Parkersburg, IA	SX 2145	6,8,9
"O's Gold"	TX 85	10,14,16
	SX 3104	8,17
Renk Seed Co.	RK 44	11,13,14,15
RFD #2	RK 2	10,12
Sun Prairie, WI	RK 66	6,7,8
"Renk"	RK 55	8
	RK 11AA	11,13,14,15
	R 235A	11,14
	RK 8	10
Earl May Seeds	2095	6,7,8,9,11,13
Shenandoah, IA	F 23	6,7,8,9,11,13
"Maygold"	94	6,8,11
Trojan Seed Co.	TXS 85	6,7,10,11,12,14,15, 16,18
Olivia, MN		
"Trojan"	TXS 102	6,7,8,9,10,11,12,13, 14,15,16,17,18,19
	TX 90	6,7,10,11,12,14,15, 16,18
	TXS 94	6,7,8,9,10,11,12,13, 14,15,16,17,18
	TXS 99	14,15,16,17
	TX 100	6,7,8,9,10,11,12,13, 14,15,16,17,18
	TXS 111	8,9,17
	TXS 113	8,9
	TXS 92	6,8,10,11,14,16
	TX 105	6,8,10,17
	TX 111	17
	TXS 108A	6,8,11,17
Clay Co. Seed Co.	A 201	6,11,16,17
Spencer,IA"Curtis"	457	6,11,16,17
Farmland Industries	S-201	8,11,13,17,19
Kansas City, MO	T-221	8,11,17
"Coop"		

Table 20. Continued

Company & Brand	Variety	Tables
Pride Co., Inc.	R-200A	10,11,13,14,15
Glen Haven, WI	R-290	10,11,12,13,14,15,
"Pride"		16,18
	R-450	6,8,9,17,19
	R-728	6,7,8,9,17
	R-501	6,7
	R-771	8,9
	R-221	10,11,14,16
	R-522	6,8,17
	R-694	8,17
	R-793	8
	R-810	8
	R-803	8
ACCO Seeds	U 334	10,11,13,14,15
Box 9	U 370	6,8,17
Belmond, IA	U 378	6,7,8,9,17,19
"ACCO"	DC 147	16,18
	UC 1901	10,12,14,15,16,18
	UC 2301	10,11
	UC 3301	6,7,10,11,12,13,
		17,19
	UC 4561	6,8
	UC 4601	8,9,17
	U 326	10,11,12,16,18
	U 348	17,19
	DC 394	11,13
	DC 441	6,7,17
	TGG 10	6,8,9
	TGG 678	8,9
	UC 1301	11,14,15,16,18
	UC 2701	10,12
	UC 3201	11,13,14,15
	UC 3601	17,19
	UC 309	14,16
	UC 1150	14,16
	UC 6601	8
	DC 598	6

Company & Brand	Variety	Tables
Fontanelle Hybrids	400	6,8,9
Nickerson, NB	555	8
"Fontanelle"		
Payco Seeds	SX-775	10,11,12,13,14,
Box 70		15,16,18
Dassel, MN	3X-783	10,11,12,13
"Payco"	SX-865	6,11,13,14,15,17
	SX-1093	6,7,8,9
	SX680	10
	3X-1077	8
Todd Hybrid Corn Co.	M 20	6,8,11,17
Burlington, IN	M 50	6,8,11,17
"Todd"	M 55	6,8,17
	M 68	8,17
	330	6,11
Farmers Hybrid	4229	10
Cos. Inc.	4425	6,17
Box 577	4434	10,11
Hampton, IA	4490A	17
"Farmer's"	4525	6
	2222	11
	2442	11
Funk Seeds Inter-	G-4180	10,11
national, Inc.	G-4195	10,11
1300 W. Washington	G-4252	10,11
Bloomington, IL	G-4288	6,10,11
"Funk's"	G-4321	6,8,10,11
	G-4343	6
	G-4366	6,8,10,11
	G-4404	6,8,10,11
	G-4444	6,8,10,11
	G-4445	8
	G-4465	6,8
	G-4567	8
	EXP-25792	8

Company & Brand	Variety	Tables
South Dakota	SD 220	10,16,18
Agricultural	SD 250	6,8,10,11,12,13,14,
Experiment		15
Station	SD 604	6,7,8,9
"SDAES"	SD 230	10,12,14,15,16,18
	SD 200	10,12,14,15,16,18
	EX 70	11,13
	EX 82	10,12
	EX 83	11,13
	EX 84	11,13
	EX 92	16,18
	EX 94	11
	EX 95	11
	EX 96	11
	EX 97	6,8
	EX 98	6,8
	EX 99	17
	PP 104A	6,7
	PP 146	10,12
	PP 147	10,16,17,18,19
	PP 148	11,16
	PP 146A	17
	PP 171	10,16,17
	PP 172	16
	PP 174	16
	PP 175	10,11,16
	PP 176	6,11
	PP 177	8
	PP 178	6,8,14
	PP 180	8
	PP 181	11,14
	PP 183	10,16
	PP 184	6
	PP 185	6
	PP 186	8
	PP 187	11,14,17
	PP 188	6,8,14
	PP 189	11,14
	PP 192	14
	PP 194	11,17
	PP 195	16,17
	PP 196	10,11,17