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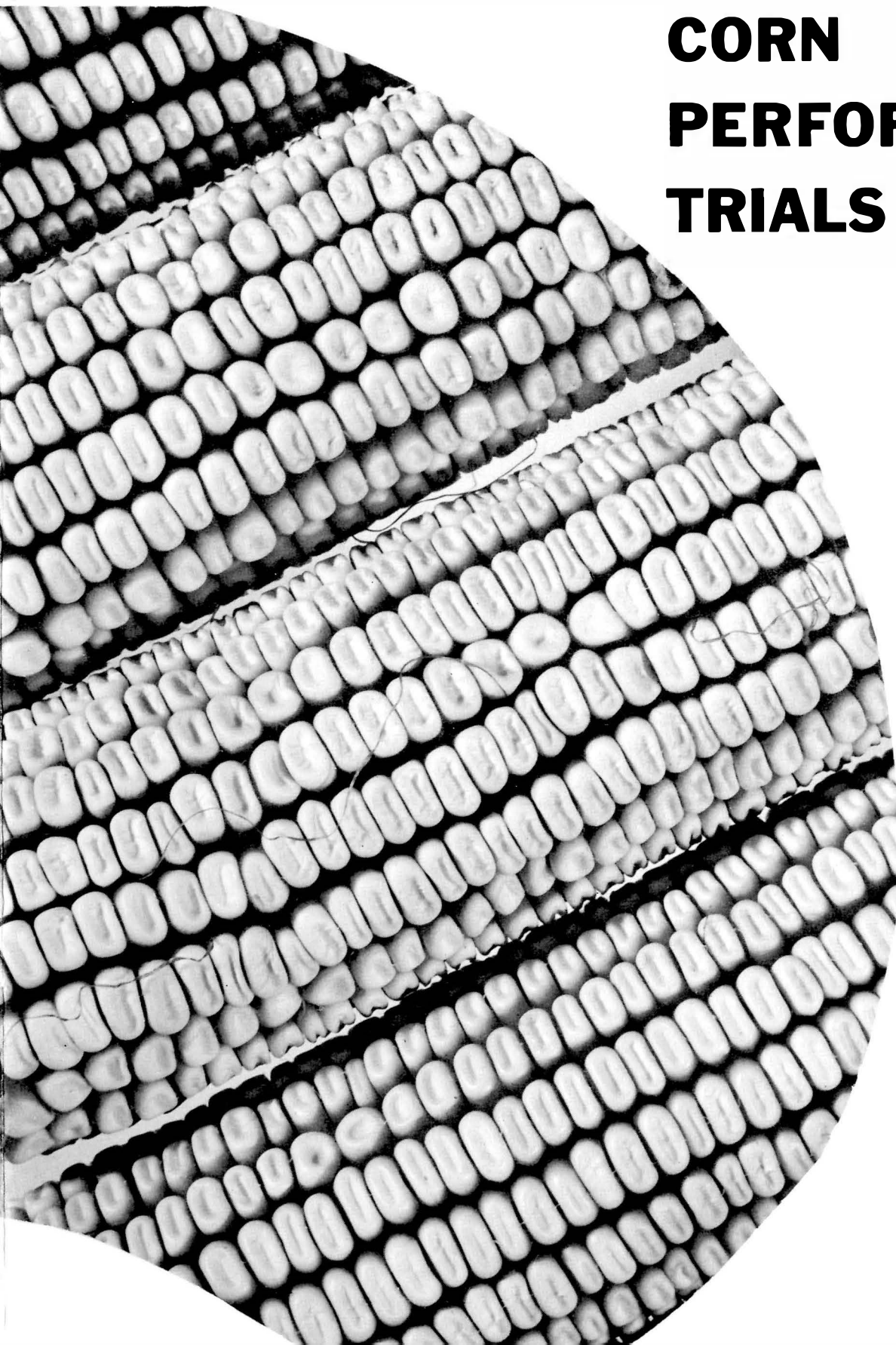
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JANUARY 1967

CIRCULAR 180

AGRONOMY DEPARTMENT, AGRICULTURAL EXPERIMENT STATION, SOUTH DAKOTA STATE UNIVERSITY, BROOKINGS

1966 CORN PERFORMANCE TRIALS



1966 Corn Performance Trials

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The trials reported in this circular have been conducted under the supervision of the Crop Performance Testing Activity, Agricultural Experiment Station. Records of performance of the corn hybrids harvested in 1966 as well as two-, three-, four-, and five-year averages of yield and moisture percentages are presented where available.

The primary purpose is to supply interested individuals with information on the relative performance of the hybrids entered, when grown under similar environmental conditions. Information in the accompanying tables includes acre grain yield in bushels, moisture percentage of either ear or shelled corn at time of harvest, performance score and other related information.

When choosing hybrids for use in this state one should refer to the trials conducted nearest to the area in which the hybrid is to be planted.

Location of the 1966 Trials

The trials were planted in the crop adaptation areas marked on the South Dakota map, page 7. The exact location of each trial and date of seeding and harvesting are given in Table 1. The soil classification, laboratory analysis of soil samples taken before or at time of seeding and fertilizer applied are presented in Table 2.

Due to an oversight at seeding time a soil sample was not taken at the Area E site and when the error was discovered it was too late to secure comparable data. Because of equipment failure, additional fertilizer was not applied at the D4 site when the trial was seeded.

Weather and Climatic Conditions

The climatic data for the 1966 corn growing season are presented in Table 3. The information for each location is based upon data from each station or the U.S. Weather Bureau station nearest the trial site. For the Platte trial, temperatures are from Academy as the Platte station records precipitation only.

Precipitation was limited during May. This coupled with sub-normal temperatures caused slow and uneven germination in much of the state. This extended period of cool, dry weather created conditions unfavorable for rapid growth of the small seedlings and serious reductions in stand were not uncommon.

The generous assistance of the following is appreciated: D. W. Beatty and D. B. Shank of the Agronomy Department; Sub-station supervisors Albert Dittman, Lloyd Dye, Jake Fredrickson, Quentin Kingsley, Bert Lawrenson, Herb Lund and Lenis Nelson; and farmer cooperators Melvin Hoffman and Willard Konrad.

TABLE 1. LOCATION OF THE 1966 CORN PERFORMANCE TRIALS

District	County	Location	Post Office	Seeded	Harvested
Area					
B2	McPherson	North Central Substation	Eureka	May 20	Oct. 19
C1	Spink	Redfield Devel. Farm, 6E	Redfield	May 17	Oct. 20
C2	Charles Mix	Melvin Hoffman Farm	Platte	May 24	Oct. 22
D2	Codington	NE Research Farm, 15N	Watertown	May 20	*
D3	Brookings	Agronomy Farm	Brookings	May 16	Oct. 18
D4	Hutchinson	Willard Konrad Farm	Parkston	May 18	Oct. 17
E	Clay	SE Research Farm	Beresford	May 10	Oct. 26

* abandoned because of severe damage by weed control chemicals

Corn that did germinate and progress rapidly produced excellent yields in 1966. The last freezing temperature of spring was no later than May 13. Light frost, 32°F., occurred as early as September 14 at one location but did not kill the stalk. The first hard freeze occurred on October 1 when temperatures dropped to the mid-20's.

Drought conditions were prevalent in the C2 and D4 areas until mid-August. Rainfall was limited at the D3 site from July through harvest. Other areas, though below normal for precipitation in May and June, received timely and generous amounts of moisture from mid-July through September.

The varieties that are normally considered to be adapted performed about as expected but varieties on the late side for the respective locations where they were included produced exceptional yields of good quality corn.

The trial at Watertown was abandoned due to herbicide damage of the corn brought on by weather conditions and time of application.

Temperatures were not too severe at the critical stage of tasseling and silking in most trials. Temperatures over 100° were recorded in early July. The combination of drought and extreme temperature was most severe at the Platte site.

TABLE 2. LABORATORY ANALYSES, SOIL CLASSIFICATION AND FERTILIZER APPLIED TO 1966 CORN PERFORMANCE TRIALS

Area	Soil Classification	Soil Test Levels				Fertilizer Applied				
		% O.M.	P	K	pH	N	P	K	Method	
			lb/A				lb/A			
B2	Williams loam	3.8	92	533	7.3	25	16	0	disced under	
C1	Boetia-Harmony si cl loam	3.2	48	533	6.4	50	20	0	disced under	
C2	Reliance-like silt loam	3.2	62	533	7.3	6	13	0	liquid starter	
D2	Kranzburg silt loam	3.7	57	208	6.5	60	40	0	disced under	
D3	Vienna loam	2.9	66	164	6.8	81	39	0	plowed down	
D4	Houdek loam	3.1	18	510	6.2	4 yr. alf., 1 yr. fallow				
E	Kranzburg silty clay loam	---	---	---	---	100	40	0	disced under	

TABLE 3. PRECIPITATION AND TEMPERATURE FOR THE 1966 CORN GROWING SEASON OF SOUTH DAKOTA

Location and district	Month	Precipitation, inches			Temperature in degrees F.		
		Month total	Departure from normal	Total departure	Month mean temp.	Departure from normal	Average departure
Eureka Area B2	May	0.83	-1.76		54.1	-2.0	
	June	2.11	-1.72		66.2	1.2	
	July	2.98	0.53		75.7	3.3	
	Aug.	3.37	0.96		66.0	-4.7	
	Sept.	0.69	-0.63		58.4	-1.7	
	Oct.	0.76	-0.21	-2.83	46.6	-3.0	-1.1
		10.74					
		Last freeze 28 ^o - May 13			First frost 32 ^o - Sept. 14		
Redfield 6E Area C1	May	1.08			55.9		
	June	2.93			68.1		
	July	5.28			78.4		
	Aug.	5.65			68.0		
	Sept.	2.14			60.2		
Oct.	2.35			47.8			
		19.43					
		Last freeze 30 ^o - May 13			First frost 30 ^o - Oct. 1		
Brookings 1E Area D3	May	1.31	-1.48		52.3	-5.3	
	June	5.21	1.26		65.6	-1.5	
	July	1.39	-0.76		75.0	1.8	
	Aug.	3.01	0.04		66.3	-4.9	
	Sept.	1.35	-0.68		58.6	-2.7	
Oct.	0.86	-0.36	-1.98	43.9	-5.6	-3.0	
		13.13					
		Last freeze 32 ^o - May 11			First frost 30 ^o - Sept. 15		
Parkston 5E Area D4	May	1.78	-1.02		58.0		
	June	1.42	-2.39		70.3		
	July	1.51	-0.89		80.2		
	Aug.	4.74	1.88		70.3		
	Sept.	2.82	0.60		61.7		
Oct.	1.24	0.08	-1.74	51.9			
		13.51					
		Last freeze 28 ^o - May 13			First frost 27 ^o - Oct. 1		
Centerville 6SE Area E	May	1.20			57.9		
	June	2.82			70.0		
	July	6.72			76.9		
	Aug.	3.58			68.4		
	Sept.	4.78			60.6		
Oct.	2.44			50.0			
		21.54					
		Last freeze 30 ^o - May 13			First frost 27 ^o - Oct. 5		
Platte Area C2	May	0.99			58.8	0.0	
	June	2.89			70.8	1.7	
	July	2.72			82.2	5.4	
	Aug.	4.36			71.4	-3.4	
	Sept.	1.53			63.5	-1.0	
Oct.	1.16			52.5	-0.6		
		13.65					
		Last freeze 25 ^o - May 13			First frost 32 ^o - Oct. 1		

Hybrid Entry Procedure

Hybrids entered are chosen by the participating commercial concerns and they designate the locations where their entries are to be grown. Hybrids that were registered with the South Dakota Department of Agriculture prior to February 28, 1966, were eligible for entry. A nominal fee was charged for each entry in each area except for entries included by Experiment Station personnel. Either closed or open pedigree hybrids were eligible and each was allowed to be entered only once in each area.

A listing of the entries and the areas in which they were planted is included in Table 16.

Experimental Procedure

The entries included in each test were planted in five or six replications. One replication was planted for public observation and no data were taken from this area. Plots of individual hybrid entries were located at random within each replication. Available space, soil type and other related factors determine the plot size and number of replications. The plot size, populations and related data are in Table 4.

TABLE 4. FIELD METHODS FOR THE 1966 CORN TRIAL SITES

Area	Table No.	Number of Replications Harvested	Method of Planting	Seeds Planted per acre	Row		
					Number of	Width, inches	Length, feet
B2	5	5	hills	7,800	2	40	20.0
C1	13	4	drilled	10,750	2	36	22.0
C2	14	4	listed	10,200	2	40	22.0
D2	--	--	hills	11,750	2	40	33.3
D3	7	4	hills	11,750	2	40	26.6
D4	9	4	drilled	13,000	2	40	26.0
E	11	4	hills	15,700	2	40	23.3

A recommended organic phosphate insecticide was used at the Area E site for corn root-worm control. Atrazine was applied to the D3 and E trials for grassy weed control.

The test plots were hand-picked separately and the ear corn weighed. Samples for moisture determinations were taken from three replications of the plots. Moisture percentages were determined from ear corn sections for the B2, C1 and C2 locations. The ear corn moisture samples were weighed in the field, oven-dried for 72 hours at 102° C. in the laboratory, reweighed and the moisture percentages determined. Shelled corn percentages were determined at the D3, D4 and E trials. Ten to twelve randomly selected ears from each plot were shelled in the field, returned to the Main Station in sealed polyethylene bags and the moisture percentages determined with an electronic moisture tester.

Measurements of Performance

Yield. The yield reported for each hybrid in each test is the average obtained from field weights of all replications, expressed as bushels per acre of No. 2 corn at 15.5 percent moisture. Varieties of equal potential may yield differently because of variations in slope, soil fertility and stand. Mathematical determinations have been made to ascertain whether yield differences obtained were caused by variations in the environment or were true varietal differences.

If the trials were found to have statistically significant differences between mean yields at the five-percent level, Duncan's Multiple Range Test was run on the means. In the interpretation of Duncan's Test, those mean yields accompanied by the same lower case letter under the Statistical Significance column in the tables are not considered to be statistically different in yield.

Using Table 5 as an example of Duncan's Test, note the varieties DeKalb XL 304 down through Pioneer 388 are accompanied by the same lower case letter "a". These five varieties in descending order do not differ significantly. All other varieties below Pioneer 388 are significantly lower in yield than DeKalb XL 304. These statements are true only for this trial under conditions that prevailed during the 1966 crop year. Average results from three or more years at the same location present a better picture of true yield differences.

Moisture Content. The moisture content of each entry at harvest time is expressed as the percent moisture in either the ear corn or the shelled corn. Moisture content is inversely related to maturity and, because maturity is of prime consideration in South Dakota, these figures are very important when evaluating entries.

Performance Rating. Undue delays should be held to a minimum if farm operations are to be efficient and provide higher economic returns. Delaying the harvest and additional drying costs can be reduced if an operator can produce sound, dry corn. Grain yield and moisture percentages are of prime importance. Because of the importance of these two factors, the two primary results obtained in these trials are used to determine this rating.

Yields in each test were converted to percentages by comparing them with the mean yield of that test. Similar calculations were made for moisture at harvest time after first subtracting moisture content from 100 so that the varieties would be ranked according to their ability to produce sound, rather than soft corn.

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

$$\frac{(\text{Yield percentage} \times 6) \text{ plus } (\text{moisture percentage} \times 4)}{10}$$

Stand. At least two possibilities may be indicated when missing hills occur: seed of an entry was unable to produce a good stand under the environmental conditions prevailing for the trial, or something destroyed the young plants. Because this work is designed primarily to test the yield potential of the varieties, corrections in yield were made for missing hills according to the formula:

$$CW = \frac{FW (H - 0.3M)}{(H - M)}$$

where; CW - corrected weight, FW - field weight, H - number of hills planted per plot, and M - number of hills missing. No corrections were attempted for drilled plantings or for minor stand variations, that is one or two plants in a three or four plant hill.

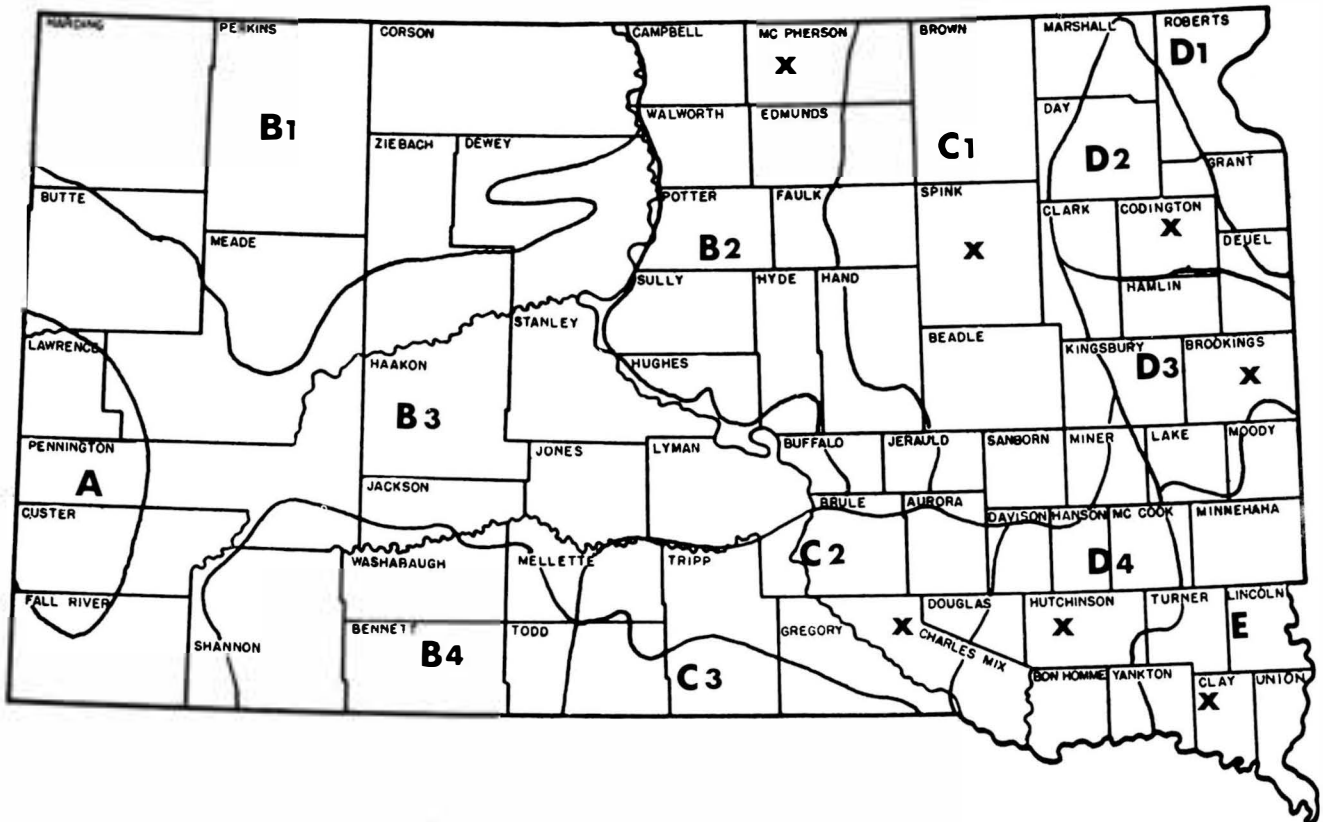
Lodging. Root lodging and stalk breakage were variable during 1966. Where lodging or breakage was serious and a probable deterrent to higher yields and ease of harvesting the percentages are shown in the tables. Root lodging was minor at most locations. Stalk breakage and ear droppage were increased by high velocity winds in early October.

All percentages reported are calculated as the average of ears dropped or of plants lodged or broken per entry. R.L. or S.B. in the tables indicates the plants Root Lodged or Stalks Broken. E.D. denotes the percentage of dropped ears recorded at harvest.

Use of the Tables. South Dakota conditions are generally quite different than in the mid-western corn belt. Many of the crop adaptation areas have conditions common to the northern plains; limited frost-free growing periods, limited precipitation and high temperatures. Corn hybrids that yield satisfactorily and produce corn that can be stored without additional costly handling are desirable. The performance score provides information on both these factors in a weighted fashion.

In choosing a hybrid, first check those yielding best. Then look for the entries with below-average moisture. Having done this, compare those that are above average in yield and below average in moisture. 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 for only one year.

Maturity, yield, quality and standability all merit consideration when purchasing seed corn. It is sound practice to plant more than one hybrid. When planting a new hybrid the acreage should be limited until its adaptability to the environment on the particular farm is known.



X -- 1966 TRIAL SITES

TABLE 5. CORN PERFORMANCE TRIAL, AREA B₂, NORTHCENTRAL SUBSTATION, EUREKA, 1966

Variety	Perfor- mance rating	Percent			Percent moisture ear corn	Yield bu/ac	Statistical significance
		RL	SB	ED			
DeKalb XL 304 (3x)	1	0	14	1	24.3	64.6	a
Pioneer 3676 (4x)	3	0	5	0	29.4	60.9	ab
Pioneer 3872 (4x)	2	0	8	2	22.9	58.8	abc
DeKalb XL 315 (3x)	8	0	11	0	30.5	54.8	abcd
Pioneer 388 (4x)	6	0	21	2	24.3	54.1	abcd
DeKalb 45 (4x)	7	0	5	1	26.3	53.2	bcde
SD Exp 59 (2x)	5	0	0	0	20.2	53.0	bcde
Minn. 805 (4x)	4	2	24	5	19.0	52.5	bcdef
SD 230 (4x)	9	0	22	0	27.0	52.5	bcdef
DeKalb XL 307 (3x)	11	0	3	0	28.0	52.5	bcdef
Pioneer 385 (4x)	10	0	3	0	25.1	51.5	bcdefg
Pioneer 391 (4x)	13	0	14	1	25.3	50.9	bcdefg
SD Exp 43 (4x)	14	0	26	0	24.7	50.4	bcdefgh
Pioneer 391 (2x)	16	0	3	0	27.4	50.2	bcdefgh
Sokota 211 (4x)	12	0	17	4	23.1	50.1	bcdefgh
SD 248 (3x)	18	0	10	0	29.3	50.1	bcdefgh
DeKalb XL 306 (3x)	17	0	1	1	27.8	49.7	bcdefgh
Haapala SX 300A (2x)	20	0	5	0	30.2	49.7	cdefgh
T-E Profitmaker (2x)	24	0	0	0	31.4	48.2	cdefgh
Pioneer 3862 (4x)	21	0	8	2	25.5	47.5	cdefghi
T-E Hastymaker (4x)	25	0	1	0	29.8	47.3	cdefghi
Northrup-King X4439 (3x)	15	0	21	2	18.0	46.9	defghi
DeKalb XT 318 (4x)	19	0	3	0	21.3	46.4	defghi
Northrup-King KE 445 (4x)	22	0	42	0	22.6	45.8	defghi
SD Exp 44 (4x)	23	0	4	3	25.4	45.7	defghi
SD 240 (4x)	27	0	18	0	28.9	45.7	defghi
Sokota 225 (4x)	28	0	15	5	25.7	43.6	defghij
Minn. 806 (4x)	26	0	27	0	18.8	41.8	efghij
SD 220 (4x)	29	0	31	5	23.1	40.4	fghij
SD Exp 58 (4x)	30	0	32	2	26.5	39.7	ghij
T-E Suremaker (3x)	32	0	1	0	35.8	37.9	hij
Northrup-King KE 435 (4x)	31	0	23	1	23.2	34.7	ij
DeKalb XL 302 (3x)	33	0	23	0	28.1	32.0	j
Mean					25.7	48.6	

C.V. = 17.4%

TABLE 6. TWO -, THREE -, FOUR -, AND FIVE-YEAR YIELD AND MOISTURE PERCENTAGE AVERAGES OF HYBRIDS ENTERED IN THE AREA B₂ TRIAL, 1962-1966

Variety	Yield, bushels per acre				Percent moisture			
	1962-66	1963-66	1964-66	1965-66	1962-66	1963-66	1964-66	1965-66
DeKalb XL 45			36.6	39.0			26.3	29.9
DeKalb XL 302				31.5				30.5
DeKalb XL 304				48.8				32.0
DeKalb XL 307				42.3				30.9
DeKalb XL 315				43.1				37.0
Northrup-King KE435			30.1	30.0			26.3	28.2
Pioneer 3854			35.7	39.6			27.3	29.5
Pioneer 3862	37.5	33.2	35.4	38.4	26.9	25.7	29.8	32.1
Pioneer 388	38.7	33.9	37.7	41.3	26.8	26.7	30.3	31.5
Pioneer 391	37.3	36.1	38.6	40.2	25.7	24.8	27.4	29.4
Sokota 225		33.6	35.9	38.5		21.6	25.5	27.3
SD 220	36.2	31.7	34.7	37.1	23.8	22.0	24.6	26.0
SD 230				44.4				29.5
SD 240	40.2	34.7	35.8	36.6	29.8	28.4	32.8	35.0
SD 248				41.0				36.1
SD Exp 43			37.8	39.2			26.4	29.3
SD Exp 44			35.4	37.8			28.0	29.3

TABLE 7. CORN PERFORMANCE TRIAL, AREA D₃, AGRONOMY FARM, BROOKINGS, 1966

Variety	Perfor- mance rating	Percent			Percent moisture	Yield bu/ac	Statistical significance
		RL	SB	ED			
Haapala SX 621 (2x)	1	0	8	3	26.9	77.4	a
DeKalb XL 45 (2x)	2	0	0	1	25.1	75.5	ab
McCurdy 3 x 9 (2x)	3	0	0	2	26.3	73.1	abc
T-E Bonusmaker (2x)	5	0	2	7	26.6	71.6	abcd
DeKalb XL 306 (3x)	4	0	2	3	22.6	69.7	bcde
SD Exp 53 (3x)	6	0	12	3	23.5	69.7	bcde
Northrup-King X5528 (3x)	9	0	5	7	26.6	69.3	bcdef
SD Exp 54 (4x)	7	0	18	1	23.6	69.2	bcdefg
DeKalb XT 218 (4x)	11	0	3	3	26.5	67.4	cdefgh
Minn. M320 (3x)	8	0	2	2	20.9	67.3	cdefghi
Sokota SK 68 (3x)	12	0	13	2	26.2	66.5	cdefghij
Minn. 5301 (3x)	14	0	9	2	27.1	66.2	cdefghijk
DeKalb XL 346 (3x)	20	0	0	2	29.4	66.2	cdefghijk
Pioneer 3775 (2x)	13	0	4	6	25.0	65.9	cdefghijkl
Minn 6302 (3x)	19	0	4	2	28.0	65.5	cdefghijklm
Sokota TS 50 (2x)	10	0	5	1	20.7	65.0	defghijklmn
DeKalb XL 325 (3x)	15	0	2	3	24.9	64.9	defghijklmn
SD 248 (3x)	16	0	3	1	24.7	64.3	defghijklmno
Haapala SX 475 (2x)	26	0	0	7	29.3	63.8	defghijklmno
Minn. 519 (4x)	17	0	7	3	24.2	63.6	defghijklmno
Northrup-King KE 497 (4x)	22	0	7	4	26.3	63.6	defghijklmno
Northrup-King X129 (2x)	25	0	4	5	28.1	63.3	efghijklmno
Haapala SX 410 (2x)	23	0	2	1	25.4	62.8	efghijklmnop
Pioneer 3676 (4x)	18	0	10	4	22.9	62.7	efghijklmnop
Northrup-King PX 527 (3x)	24	0	1	6	25.2	62.5	efghijklmnop
Sokota 255 (4x)	21	0	4	3	23.3	62.4	efghijklmnop
T-E Gromaster (4x)	27	0	3	6	27.4	62.2	efghijklmnopq
Pioneer 376 (4x)	29	0	5	2	26.3	61.4	efghijklmnopq
Pioneer 3658 (4x)	28	0	9	9	25.2	60.9	fghijklmnopq
United-Hagie IXL 6 (2x)	32	0	1	6	26.8	60.7	fghijklmnopq
Sokota 407A (4x)	31	0	1	2	26.5	60.6	ghijklmnopq
Northrup-King KM 567 (4x)	39	0	1	1	31.9	59.7	hijklmnopq
Northrup-King PX 44 (2x)	37	0	1	3	28.1	59.5	hijklmnopq
DeKalb XL 315 (3x)	33	0	4	13	24.3	59.2	hijklmnopqr
SD 250 (4x)	34	0	3	3	23.9	58.8	hijklmnopqr
Minn. 621 (4x)	30	0	3	4	21.6	58.5	ijklmnopqr
Minn. 515 (4x)	36	0	3	4	24.6	58.0	jklmnopqr
Pioneer 3681 (4x)	35	0	3	6	23.3	57.4	klmnopqrs
Sokota SK 65 (3x)	38	0	8	6	24.9	57.1	lmnopqrs
McCurdy 2 x 5 (2x)	44	0	2	3	32.8	56.6	mnopqrs

Continued next page

TABLE 7 (Continued)

Variety	Perfor- mance rating	Percent			Percent moisture	Yield bu/ac	Statistical significance
		RL	SB	ED			
Pioneer 3622 (4x)	41	0	2	10	27.0	56.2	nopqrst
McCurdy 3 x 4 (2x)	42	0	4	2	25.9	55.4	opqrst
Pioneer 385 (4x)	40	0	15	3	24.7	55.3	opqrst
DeKalb 59 (4x)	43	0	12	5	24.5	54.0	pqrstu
United-Hagie SX 138B (2x)	46	0	1	1	31.8	53.0	qrstu
United-Hagie 3H26 (3x)	45	0	3	0	25.4	50.0	rstu
United-Hagie IXL 5 (2x)	47	0	1	1	33.5	48.4	stu
DeKalb XL 342 (3x)	48	0	1	1	33.4	47.1	tu
T-E Moneymaker (3x)	49	0	1	2	31.2	45.1	uv
T-E Harvestmaster (4x)	50	0	0	2	34.6	36.3	v
Mean					26.4	61.4	

C.V. = 8.6%

TABLE 8. TWO -, THREE -, FOUR -, AND FIVE-YEAR YIELD AND MOISTURE PERCENTAGE AVERAGES OF HYBRIDS ENTERED IN THE D₃ YIELD TRIAL FROM 1962-1966

Variety	Yield, bushels per acre				Percent moisture			
	1962-66	1963-66	1964-66	1965-66	1962-66	1963-66	1964-66	1965-66
DeKalb 59	81.9	81.1	73.7	67.3	28.9	27.7	28.8	26.5
DeKalb XL 45			81.6	80.8			30.2	27.4
DeKalb XL 315				70.2				24.6
DeKalb XL 325			73.8	70.1			32.0	28.9
Minn. 515			71.5	68.1			27.8	24.8
Minn. 519			70.6	68.2			29.4	27.1
Northrup-King KE 497			74.9	71.6			29.9	27.9
Northrup-King KM 567			69.8	68.0			35.0	34.1
Pioneer 3622			77.0	68.6			30.9	28.6
Pioneer 3658		89.7	76.0	70.2		28.3	29.2	26.6
Pioneer 3681			76.7	73.4			25.8	24.0
Pioneer 376	87.8	86.7	77.5	71.4	32.1	31.8	32.5	29.5
Pioneer 3775	85.7	86.5	79.5	76.3	30.4	29.4	28.9	26.9
Pioneer 385		83.6	77.6	71.4		26.7	27.2	25.7
Sokota 255	78.8	78.7	72.5	67.6	25.2	23.9	24.2	22.6
Sokota TS-50			79.3	76.7			23.6	20.8
Sokota SK 65				66.3				24.1
United Hagie SX 138B			75.8	72.0			36.1	31.6
SD 248		85.6	80.2	74.4		24.8	25.8	25.0
SD 250	76.8	81.3	71.5	66.1	25.5	24.9	24.7	23.3
SD Exp 53				80.1				25.3
SD Exp 54				76.4				25.9

TABLE 9. AREA D₄ CORN PERFORMANCE TRIAL, WILLARD KONRAD FARM, PARKSTON, 1966

Variety	Perfor- mance rating	Percent			Percent moisture	Yield bu/ac	Statistical Significance
		RL	SB	ED			
Pioneer 3306 (2x)	3	0	0	1	33.9	87.7	a
T-E Bonusmaker (2x)	1	0	0	1	26.0	86.5	ab
Pioneer 3291 (4x)	9	0	0	0	34.0	84.5	abc
Haapala SX 626 (2x)	2	0	1	4	27.3	83.3	abcd
Northrup-King PX 610 (3x)	4	0	0	7	29.0	83.0	abcde
Green Acres 462 (4x)	7	0	3	1	30.2	83.0	abcde
Sokota 623 (4x)	6	0	2	2	29.1	82.4	abcdef
Pioneer 3715 (3x)	5	0	1	5	25.7	80.5	abcdefg
Sokota SK 70 (2x)	10	0	1	3	28.3	79.6	abcdefg
DeKalb 441A (4x)	15	0	1	3	31.4	79.5	abcdefg
Minn. 6302 (3x)	8	0	1	3	25.2	79.2	abcdefg
DeKalb XL 342 (3x)	18	0	0	2	31.7	78.0	abcdefg
DeKalb XL 45 (2x)	11	0	0	2	26.9	77.8	abcdefg
Pioneer 3558 (2x)	17	0	0	1	30.9	77.8	abcdefg
McCurdy 3 x 9 (2x)	14	0	1	3	28.5	77.7	abcdefg
Pioneer 3414 (4x)	16	0	1	3	29.6	77.0	abcdefg
SD Exp 46 (4x)	13	0	3	5	26.0	76.6	abcdefg
DeKalb XL 325 (3x)	12	0	1	5	24.8	76.3	abcdefg
Sokota 463 (4x)	22	0	1	2	29.1	73.7	bcdefghij
United Hagie IXL 6 (2x)	25	0	0	3	29.7	73.0	bcdefghij
T-E Moneymaker (3x)	26	0	1	4	29.7	73.0	bcdefghij
Sokota MS 75 (2x)	19	0	0	3	26.8	72.9	cdefghij
T-E Harvestmaker (4x)	28	0	2	5	31.6	72.4	cdefghij
McCurdy 2 x 5 (2x)	24	0	0	3	28.0	72.3	cdefghij
Haapala SX 621 (2x)	20	0	1	5	26.6	72.2	cdefghij
Northrup-King KT 623A (4x)	31	0	2	2	32.3	72.2	cdefghij
Northrup-King PX 52 (2x)	21	0	0	2	26.1	71.8	cdefghij
Pioneer 3465 (4x)	27	0	2	5	28.5	71.8	cdefghij
United-Hagie 3H40A (3x)	30	0	2	2	29.3	70.5	defghij
SD 622 (4x)	29	0	3	5	28.8	70.2	defghij
McCurdy 3 x 4 (2x)	23	0	2	4	23.8	69.5	defghij
Green Acres 623 (4x)	34	0	0	3	32.0	68.6	efghij
United-Hagie 146C (2x)	33	0	2	6	31.6	68.4	fghij
T-E Gromaster (4x)	35	0	4	4	30.7	67.7	fghij
United-Hagie SX 138B (2x)	32	0	3	0	28.3	67.6	fghij
Green Acres 616 (4x)	38	0	2	4	32.7	67.0	ghijk
Northrup-King PX 44 (2x)	36	0	0	2	30.1	66.9	ghijk
Sokota 625 (4x)	37	0	0	2	28.7	65.3	hijk
Green Acres X1007 (4x)	40	0	0	8	31.0	65.1	hijk
DeKalb XL 346 (3x)	39	0	1	1	30.2	65.0	hijk
Pioneer 362 (4x)	41	0	1	4	30.0	61.0	ijk
United-Hagie 1380B (2x)	42	0	1	1	31.4	58.7	jk
Minn. 515 (4x)	43	0	0	1	23.6	50.7	k
Mean					29.0	73.4	

C.V. = 12.4%

TABLE 10. TWO -, THREE -, FOUR -, AND FIVE-YEAR YIELD AND MOISTURE PERCENTAGE AVERAGES OF HYBRIDS ENTERED IN THE AREA D₄ TRIAL, 1962-1966

Variety	Yield, bushels per acre				Percent moisture			
	1962-66	1963-66	1964-66	1965-66	1962-66	1963-66	1964-66	1965-66
DeKalb XL-45			73.6	78.6			27.9	30.5
DeKalb XL-325				78.5				27.3
DeKalb XL-346				67.9				32.4
Minn. 515			50.7	51.9			24.3	24.7
Northrup-King KT 623A			64.1	66.6			33.5	34.1
Pioneer 3291			78.0	85.3			34.1	36.3
Pioneer 3414			71.9	79.7			30.8	32.4
Pioneer 3465				77.2				29.9
Pioneer 3558		78.2	60.6	77.3		28.2	30.8	30.5
Pioneer 362	73.5	75.5	63.9	73.3	25.9	26.2	28.7	31.1
Sokota 463			60.3	68.1			27.6	30.0
Sokota 623				81.8				31.2
Sokota 625	68.1	80.5	59.0	64.4	28.1	28.7	29.8	31.9
Sokota MS-75			59.3	69.3			26.9	28.4
SD 622				70.3				32.0
SD Exp 46			57.9	60.9			25.1	27.3

TABLE 11. AREA E CORN PERFORMANCE TRIAL, SOUTHEAST RESEARCH FARM, BERESFORD, 1966

Variety	Perfor- mance rating	Percent			Percent moisture	Yield bu/ac	Statistical significance
		RL	SB	ED			
DeKalb XL361 (3x)	1	0	5	4	25.1	158.3	a
Pioneer 3510 (2x)	2	1	2	1	24.1	155.3	ab
Northrup-King PX 610 (3x)	3	0	2	8	21.4	147.8	abc
DeKalb XL 362 (3x)	5	1	4	7	24.7	147.6	abc
United-Hagie SX 152A (2x)	6	1	3	4	23.6	146.4	bcd
Haapala SX 621 (2x)	4	0	17	6	19.6	145.8	bcde
United-Hagie 146A (2x)	10	7	1	7	25.8	142.6	cdef
Pioneer 3558 (2x)	7	0	2	1	20.7	142.2	cdef
McCurdy 3 x 6 (2x)	8	0	5	17	22.2	141.7	cdefg
SD Exp 45 (4x)	11	0	8	8	24.9	140.4	cdefgh
Curry SC-160 (2x)	9	0	5	17	22.7	140.0	cdefghi
Pfister PAG SX 29 (2x)	15	0	7	8	26.1	138.3	cdefghij
Pioneer 3567 (2x)	14	0	7	3	23.7	135.9	cdefghijk
Nebr. 501D (4x)	21	1	8	6	24.4	134.4	defghijkl
DeKalb XL 342 (3x)	16	6	5	9	22.9	134.3	defghijkl
Pfister PAG 348 (4x)	17	0	2	10	23.1	134.0	defghijkl
Curry SC-165 (2x)	22	0	4	7	24.5	133.9	defghijkl
Pioneer 3414 (4x)	19	0	7	10	23.2	133.6	defghijklm
Minn. 417 (4x)	12	0	7	7	19.7	133.0	efghijklmn
Pioneer 3715 (3x)	13	0	7	4	20.0	132.7	efghijklmn
McCurdy 112M (4x)	23	0	4	8	23.1	131.9	fghijklmn
Curry C-624 (4x)	26	0	7	7	23.9	131.9	fghijklmn
Pioneer 3206 (4x)	34	1	2	4	26.9	131.6	fghijklmn
Curry C-558 (4x)	25	0	1	7	22.8	131.0	fghijklmno
Haapala SX 626 (2x)	18	1	16	8	20.4	130.6	fghijklmno
Haapala SX 475 (2x)	20	0	3	9	20.3	130.3	fghijklmnop
DeKalb 441A (4x)	30	0	5	7	24.2	130.0	fghijklmnopq
United-Hagie 146C (2x)	28	5	7	12	22.1	128.3	ghijklmnopqr
Funk's G-4401 (2x)	29	0	3	7	22.2	128.1	ghijklmnopqr
Pfister PAG SX 66 (2x)	24	1	8	5	19.1	127.3	hijklmnopqrs
Funk's G-38 (4x)	35	2	10	13	22.9	126.9	hijklmnopqrs
Green Acres 623 (4x)	41	0	3	8	24.9	126.6	ijklmnopqrs
Minn. 4301 (3x)	27	2	8	11	19.6	126.5	ijklmnopqrs
Sokota 623 (4x)	33	1	8	6	22.1	126.4	ijklmnopqrs
United-Hagie 1500 (2x)	52	0	4	7	30.6	126.4	ijklmnopqrs
Northrup-King PX 52 (2x)	31	0	5	3	21.0	125.8	jklmnopqrs
Funk's G-4582 (4x)	44	1	3	9	24.8	125.7	jklmnopqrst
DeKalb XL 45 (2x)	32	0	4	2	21.0	125.4	jklmnopqrst
Curry TC-358 (3x)	40	0	3	6	23.5	125.1	jklmnopqrstu
Pfister PAG 343 (4x)	45	0	5	6	24.2	124.9	jklmnopqrstu
T-E Harvestmaker (4x)	39	1	4	4	23.1	124.8	jklmnopqrstu
DeKalb XL 346 (3x)	43	1	4	5	23.5	124.6	jklmnopqrstu

continued next page

TABLE 11 (Continued)

Variety	Perfor- mance rating	Percent			Percent moisture	Yield bu/ac	Statistical significance
		RL	SB	ED			
T-E Bonusmaker (2x)	37	2	6	5	21.6	123.9	klmnopqrstuv
McCurdy SP3 (3x)	38	0	7	1	21.2	123.0	klmnopqrstuv
United-Hagie IXL 8 (2x)	49	0	8	3	24.8	122.9	klmnopqrstuv
Pfister PAG 272 (3x)	36	0	9	0	20.5	122.8	klmnopqrstuvw
McCurdy 3 x 9 (2x)	42	0	4	4	20.7	121.6	lmnopqrstuvw
SD Exp 46 (4x)	46	0	4	5	20.6	120.8	lmnopqrstuvw
Pfister PAG 70 (4x)	47	3	4	7	21.4	120.4	lmnopqrstuvw
Pioneer 3291 (4x)	53	2	5	2	26.3	119.5	mnopqrstuvw
Sokota SK 70 (2x)	51	1	15	7	22.7	118.8	nopqrstuvw
Green Acres 616 (4x)	57	2	5	5	27.2	118.8	nopqrstuvw
Iowa 5063 (4x)	50	0	6	5	19.8	117.0	opqrstuvw
Minn. 519 (4x)	48	0	11	8	18.3	116.1	pqrstuvwxy
Northrup-King KT 623A (4x)	56	4	3	2	23.9	115.7	qrstuvwxyz
T-E Gromaster (4x)	54	1	6	5	22.1	114.2	rstuvwxyz
SD 622 (4x)	59	4	5	6	24.1	113.5	stuvwxyz
McCurdy 2 x 5 (2x)	58	0	3	4	20.4	111.1	tuvwxyz
Sokota MS 75 (2x)	60	0	4	8	21.6	110.6	uvwxyz
Minn. 515 (4x)	55	0	7	6	18.0	109.5	vwxyz
DeKalb XT 218 (4x)	61	0	2	3	23.2	108.1	wxyz
Sokota 625 (4x)	62	4	5	4	22.2	104.8	xyz
United-Hagie IXL 6 (2x)	63	0	7	7	20.4	102.0	yz
T-E Moneymaker (3x)	64	1	5	7	25.0	101.0	z
Mean					22.7	127.5	

C.V. = 6.4%

TABLE 12. TWO -, THREE -, FOUR -, AND FIVE YEAR YIELD AND MOISTURE PERCENTAGE AVERAGES OF HYBRIDS ENTERED IN THE AREA E TRAIL, 1962-1966.

Variety	Yield, bushels per acre				Percent moisture			
	1962-66	1963-66	1964-66	1965-66	1962-66	1963-66	1964-66	1965-66
DeKalb 441A			112.5	123.5			23.3	24.9
DeKalb XL-45				120.4				22.4
DeKalb XL-361			123.7	135.9			25.4	25.4
DeKalb XL-362			121.9	136.8			25.4	26.0
Iowa 5063	103.3	103.7	103.0	110.2	22.2	20.3	20.5	21.9
Minn. 4301			106.7	115.7			18.1	20.7
Minn. 417			112.5	122.2			20.2	21.2
Nebr. 501D				124.0				26.1
Northrup-King KT 623A				113.2				25.2
Pfister PAG SX29				128.4				27.5
Pfister PAG SX66				120.7				20.8
Pfister PAG 70				114.7				22.1
Pfister PAG 272				116.2				22.0
Pfister PAG 348				120.5				24.1
Pioneer 3206				126.8				27.5
Pioneer 3291			116.1	120.3			25.6	27.1
Pioneer 3414			119.9	133.0			21.1	23.5
Pioneer 3510				143.1				25.6
Pioneer 3558		122.5	122.3	131.8		19.2	19.6	22.0
Sokota 623				120.3				23.4
Sokota 625				108.8				23.4
Sokota MS-75				112.6				22.8
United-Hagie SX 152A			118.0	131.2			26.1	27.3
United-Hagie 1500			114.5	120.3			26.5	29.0
SD 622	105.2	104.2	106.1	109.2	23.4	22.7	23.2	24.6
SD Exp 45				131.2				25.0
SD Exp 46				117.5				21.6

TABLE 13. AREA C₂ CORN PERFORMANCE TRIAL, MELVIN HOFFMAN FARM, PLATTE, 1966

Variety	Percent		Percent moisture ear corn	Yield bu/ac
	S.B.	E.D.		
Trial was located in an area of severe drought. Entries listed in alphabetical order. Data presented as matter of record.				
DeKalb XL-45 (2x)	2	0	28.2	25.2
DeKalb XT-218 (4x)	4	0	30.5	38.4
DeKalb XL-325 (3x)	2	1	28.3	17.4
DeKalb XL-342 (3x)	0	0	37.2	20.9
DeKalb XL-346 (3x)	3	0	33.4	23.3
Haapala SX-475 (2x)	5	3	32.1	37.9
Nebr. 501D (4x)	9	1	38.7	32.8
Northrup-King PX-44 (2x)	0	0	47.9	4.3
Northrup-King PX-527 (3x)	3	6	27.1	24.4
Northrup-King PX-610 (3x)	12	7	32.1	49.7
Northrup-King KT-623A (4x)	4	1	44.3	30.1
Pioneer 3465 (4x)	2	5	30.4	26.7
Pioneer 3510 (2x)	6	0	44.0	35.8
Pioneer 3558 (2x)	1	2	32.0	26.8
Pioneer 3567 (2x)	0	0	34.3	18.4
Pioneer 362 (4x)	3	1	36.3	19.2
Pioneer 3622 (4x)	0	3	32.3	26.9
Pioneer 3715 (3x)	5	4	28.6	39.7
Sokota 463 (4x)	2	0	34.9	33.9
Sokota SK-68 (3x)	15	9	27.6	37.8
Sokota SK-70 (2x)	8	5	29.5	32.0
SD 248 (3x)	11	2	21.3	40.7
SD 250 (4x)	16	7	21.0	32.3
SD 270 (4x)	7	1	26.6	27.6
SD Exp 46 (4x)	5	4	28.6	32.4
SD Exp 47 (4x)	15	14	25.5	35.9
Taylor-Evans Bonusmaker (2x)	2	1	27.0	21.8
Taylor-Evans Gromaster (4x)	2	0	36.6	19.2
Taylor-Evans Hastymaker (4x)	8	2	22.8	21.4
Taylor-Evans Moneymaker (3x)	4	2	33.0	29.6
Taylor-Evans Profitmaker (2x)	2	4	25.0	26.0
Taylor-Evans Suremaker (3x)	4	1	26.6	26.5
Mean			31.4	28.6

C.V. 37.8%

TABLE 14. AREA C₁ CORN PERFORMANCE TRIAL, REDFIELD DEVELOPMENT FARM, REDFIELD, 1966

Variety	Perfor- mance rating	Percent			Percent moisture	Yield bu/ac	Statistical significance
		RL	SB	ED			
Sokota SK 68 (3x)	2	4	1	0	29.2	92.9	a
SD Exp. 59 (2x)	1	0	0	0	20.8	90.2	ab
DeKalb XT 138 (4x)	3	0	0	4	21.9	86.0	abc
Sokota TS 50 (2x)	4	0	1	4	25.7	84.3	abcd
DeKalb 59 (4x)	5	0	3	5	30.7	84.3	abcd
Northrup-King PX 487 (3x)	7	1	1	0	30.3	82.3	abcde
DeKalb XL 306 (3x)	6	0	0	1	27.1	81.8	abcde
T-E Profitmaker (2x)	9	0	1	4	29.5	80.5	abcdef
SD Exp 47 (4x)	8	1	1	1	28.5	80.0	abcdefg
Pioneer 3681 (4x)	10	2	0	1	29.5	78.6	abcdefg
Pioneer 3775 (2x)	16	2	1	2	31.5	78.4	abcdefg
Haapala SX410 (2x)	13	0	0	2	29.4	77.6	abcdefg
SD 250 (4x)	12	1	2	1	26.1	75.6	abcdefg
Northrup-King X4454 (3x)	11	0	2	4	25.6	75.5	abcdefg
Pioneer 3911 (2x)	14	0	0	1	26.5	75.5	abcdefg
T-E Suremaker (3x)	21	0	1	1	31.9	74.5	abcdefg
Pioneer 3812 (4x)	15	1	4	6	24.9	74.0	abcdefg
Northrup-King KE 449 (4x)	17	0	2	1	25.8	73.8	abcdefg
Pioneer 3676 (4x)	18	0	1	4	28.2	72.7	bcdefg
Pioneer 385 (4x)	20	0	3	3	28.8	72.4	bcdefg
SD 270 (4x)	19	1	4	2	26.4	71.1	bcdefg
SD 248 (3x)	23	3	3	0	27.7	70.7	bcdefg
SD Exp 58 (4x)	22	2	4	3	26.5	70.6	bcdefg
Sokota 407A (4x)	26	2	0	0	30.5	69.0	cdefg
Pioneer 3854 (4x)	24	2	5	3	23.5	66.6	cdefg
T-E Hastymaker (4x)	27	2	0	4	28.5	66.0	cdefg
DeKalb XL 304 (3x)	25	0	0	2	25.0	65.9	cdefg
SD 240 (4x)	29	5	2	0	29.3	63.6	defg
DeKalb XL 315 (3x)	30	1	1	5	29.0	63.2	defg
DeKalb XL 302 (3x)	28	1	2	1	24.5	61.8	efg
SD 220 (4x)	31	0	2	1	23.2	58.5	fg
DeKalb XL 307 (3x)	32	0	0	0	26.8	57.5	g
Mean					27.3	74.2	

C.V. = 18.4%

TABLE 15. TWO-AND THREE-YEAR YIELD AND MOISTURE PERCENTAGE AVERAGES OF HYBRIDS ENTERED IN THE AREA C₁ TRIAL, 1964-1966

Variety	Yield, bu/ac		Percent moisture	
	1964-66	1965-66	1964-66	1965-66
DeKalb 59		54.1		37.7
DeKalb XL-302		42.8		26.0
DeKalb XL-304	45.5	48.0	27.3	28.6
DeKalb XL-307		39.6		30.4
DeKalb XL-315		44.6		35.2
Northrup-King KE 449	45.8	48.7	29.0	31.1
Northrup-King PX 487		53.7		34.6
Pioneer 3681	48.7	51.8	32.7	35.9
Pioneer 3775	45.1	52.7	38.2	38.4
Pioneer 3812	52.1	52.2	26.9	28.7
Pioneer 385	47.6	52.0	32.9	33.7
Pioneer 3854	45.6	50.3	25.0	25.4
Sokota 407A	42.3	44.3	36.1	37.5
Sokota TS 50	53.6	56.8	27.2	28.3
SD 220	39.6	42.5	23.9	26.0
SD 240	42.9	44.7	30.7	32.8
SD 248	51.4	49.2	29.4	27.7
SD 250	48.1	49.9	27.3	28.7
SD 270	47.0	47.1	30.7	33.1
SD Exp 47	51.4	54.1	32.0	33.6

TABLE 16. THE CORN HYBRIDS ENTERED FOR TEST IN THE 1966 CORN PERFORMANCE TRIALS AND THE TABLES IN WHICH THE RESULTS APPEAR

Variety	Table	Variety	Table	Variety	Table	Variety	Table
CURRY SC-160	11	MCCURDY 2 X 5	7,9,11	PIONEER 3206	11,12	T-E BONUSMASTER	7,9,11,13
CURRY SC-165	11	MCCURDY 3 X 4	7,9	PIONEER 3291	9,10,11,12	T-E GROMASTER	7,9,11,13
CURRY TC-358	11	MCCURDY 3 X 6	11	PIONEER 3306	9	T-E HARVESTMASTER	7,9,11
CURRY C-558	11	MCCURDY 3 X 9	7,9,11	PIONEER 3414	9,10,11,12	T-E HASTYMAKER	5,13,14
CURRY C-624	11	MCCURDY SP3	11	PIONEER 3465	9,10,13	T-E MONEYMAKER	7,9,11,13
		MCCURDY 112M	11	PIONEER 3510	11,12,13	T-E PROFITMAKER	5,13,14
						T-E SUREMAKER	5,13,14
DEKALB 45	5,6	MINN. 417	11,12	PIONEER 3558	9,10,11,12,13	UNITED-HAGIE 3H26	7
DEKALB 59	7,8,9,10	MINN. 515	7,8,9,10,11	PIONEER 3567	11,13	UNITED-HAGIE 3H40A	9
DEKALB 441A	9,11,12	MINN. 519	7,8,9	PIONEER 362	9,10,13	UNITED-HAGIE 146A	11
DEKALB XL 45	7,8,9,10,11,12,13	MINN. 621	7	PIONEER 3622	7,8,13	UNITED-HAGIE 146C	9,11
		MINN. 805	5	PIONEER 3658	7,8	UNITED-HAGIE 1380B	9
DEKALB XL 302	5,6,14,15	MINN. 806	5	PIONEER 3676	5,7,14		
DEKALB XL 304	5,6,14,15	MINN. 4301	11	PIONEER 3681	7,8,14,15	UNITED-HAGIE 1500	11,12
DEKALB XL 306	5,11,14	MINN. 5301	7	PIONEER 376	7,8	UNITED-HAGIE IXL 5	7
DEKALB XL 307	5,6,14,15	MINN. 6302	7,9	PIONEER 3715	9,11,13	UNITED-HAGIE IXL 6	7,9,11
DEKALB XL 315	5,6,7,8,14,15	MINN. M320	7	PIONEER 3775	7,8,14,15	UNITED-HAGIE IXL 8	11
DEKALB XL 325	7,8,9,10,13			PIONEER 385	7,8,14,15		
DEKALB XL 342	7,9,11,13	NEBR. 501D	11,12,13	PIONEER 388	5,6	UNITED-HAGIE SX 108	
DEKALB XL 346	7,8,9,11,13					UNITED-HAGIE SX 127A	
				PIONEER 3812	14,15	UNITED-HAGIE SX 138B	11
DEKALB XL 361	11,12	NORTHROP-KING KE435	5,6	PIONEER 3854	5,6,14,15	UNITED-HAGIE SX 152A	11,12
DEKALB XL 362	11,12	NORTHROP-KING KE445	5	PIONEER 3862	9,10,13		
DEKALB XT 138	5,14	NORTHROP-KING KE449	14,15	PIONEER 3872	5	SD 220	5,6,14,15
DEKALB XT 218	7,11,13	NORTHROP-KING KE497	7,8	PIONEER 391	5,6	SD 230	5,6
		NORTHROP-KING KM567	7,8	PIONEER 3911	5,13	SD 240	5,6,14,15
FUNK'S G-38	11					SD 248	5,6,7,8,13,14,15
FUNK'S G-4401	11	NORTHROP-KING KT623A	9,10,11,12,13	SOKOTA 211	5	SD 250	7,8,13,14,15
FUNK'S G-4582	11	NORTHROP-KING PX44	7,9,13	SOKOTA 225	5,6	SD 270	13,14,15
		NORTHROP-KING PX52	9,11	SOKOTA 255	7,8	SD 622	9,10,11,12
GREEN ACRES 462	9	NORTHROP-KING PX487	14,15	SOKOTA 463	9,10,13		
GREEN ACRES 616	9,11	NORTHROP-KING PX527	7,13			SD EXP 43	5,6
GREEN ACRES 623	9,11			SOKOTA 623	9,10,11,12	SD EXP 44	5,6
GREEN ACRES X1007	9	NORTHROP-KING PX610	9,11,13	SOKOTA 625	9,10,11,12	SD EXP 45	11,12
		NORTHROP-KING X129	7	SOKOTA 407A	7,14,15	SD EXP 46	9,10,11,12,13
HAAPALA SX 300A	5	NORTHROP-KING X4439	5	SOKOTA TS 50	7,8,14,15	SD EXP 47	13,14,15
HAAPALA SX 410	7,14	NORTHROP-KING X4454	14				
HAAPALA SX 475	7,11,13	NORTHROP-KING X5528	7	SOKOTA SK 65	7,8	SD EXP 48	
HAAPALA SX 621	7,9,11			SOKOTA SK 68	7,13,14	SD EXP 53	7,8
HAAPALA SX 626	9,11	PFISTER PAG 70	11,12	SOKOTA SK 70	9,11,13	SD EXP 54	7,8
IOWA 5063	11,12	PFISTER PAG 272	11,12	SOKOTA MS 75	9,10,11,12	SD EXP 58	5,14
		PFISTER PAG 343	11			SD EXP 59	5,14
		PFISTER PAG 348	11,12				
		PFISTER PAG SX29	11,12				
		PFISTER PAG SX66	11,12				

*Planted in Area D2 trial. Test was abandoned.