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J. J. Bonnemann
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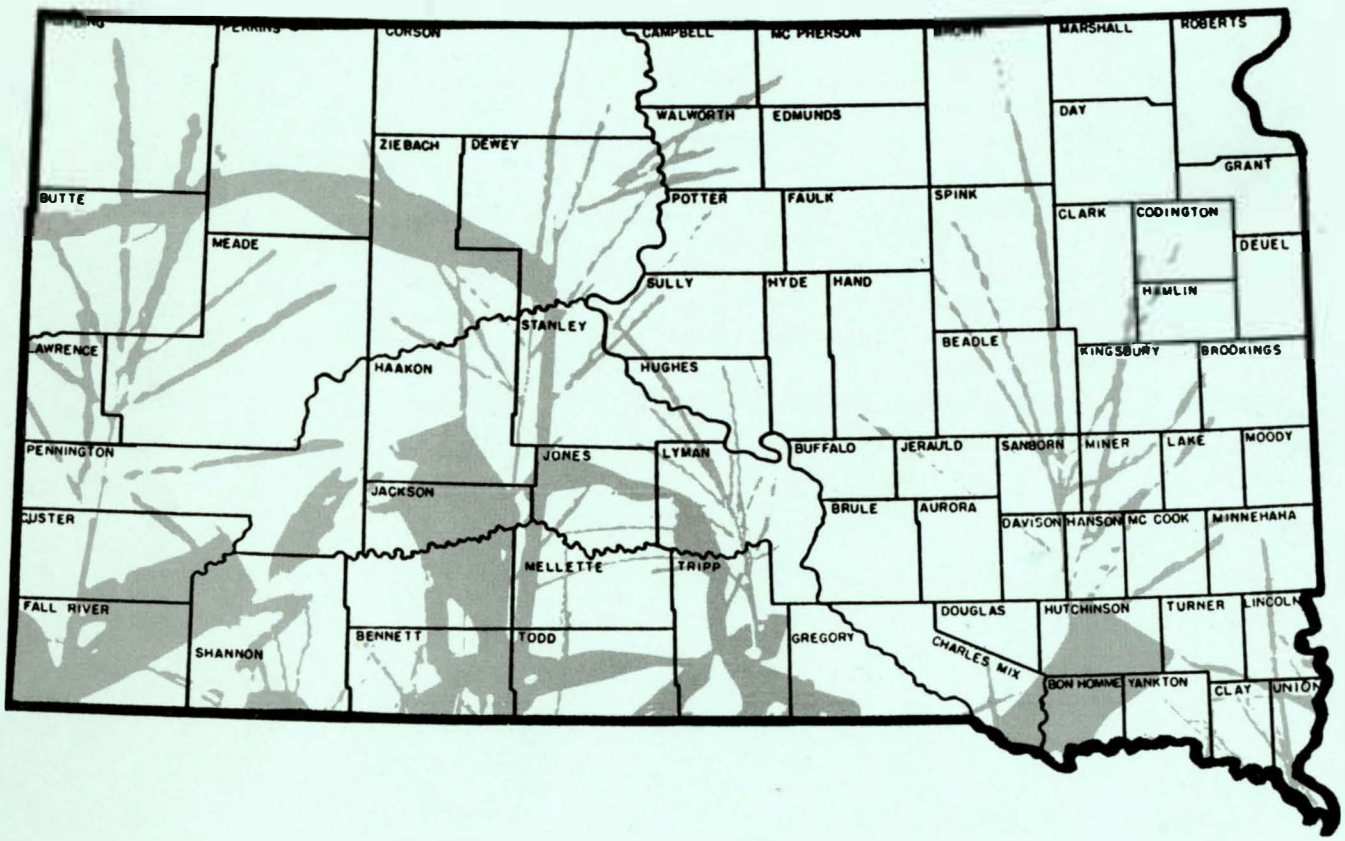
Corn Performance Trials for 1982



C 241
January 1983

Agricultural Experiment Station
South Dakota State University
Brookings

Listing of Tables

Published in accordance with an Act passed in 1881 by the 14th Legislative Assembly, Dakota Territory, establishing the Dakota Agriculture 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

File: 1.4-1.1--4.5M--1-83mb--AX 026

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The relative performance of corn hybrids grown under similar environmental conditions in 1982 are evaluated in this report. Information in the accompanying tables includes grain yields in bushels per acre, moisture percentages of either ear corn or shelled corn at harvest, performance scores and other related information. Records of the corn hybrids harvested in 1982 and available two-, three- and four-year averages of yield, moisture and stalk lodging percentages are also presented. The trials reported here were conducted under the Plant Science Department program in Crop Performance Testing, Agricultural Experiment Station, SDSU.

Location of the 1982 Trials

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

Weather and Climatic Conditions

Climatic data (Table 3) for the 1982 corn growing season, May-October, are based upon information obtained from a U.S. Weather Bureau station reasonably near each trial site. The Milbank recording station is closest to the field north of Gary in Deuel County. Stations are located at or near the other trial sites; the Pickstown station representing the Geddes trial. Precipitation quantities would vary from the actual site to the recording station but temperatures are similar over a much wider area and considered applicable to the trial area.

The latter part of April and first week of May were favorable for field operations permitting seeding of small grain and the start of corn planting. From May 8 on the precipitation began and totals ranged from 4 to 9 inches over most of the state before showers ceased. The heavy rainfall continued in the southern portion of the state later than the northern areas and the seeding order was reversed for most row crops in 1982. Those few corn fields seeded prior to May 8 did not benefit greatly from the early seeding as the wet soil caused kernels to rot or the emerging plants became spindly and yellow until warmer, drier weather returned in early June. Precipitation was below normal at all sites in June but the soil profile was well filled and standing water was not uncommon. July was again wet and cool, especially in the east-central area of the state. Precipitation tapered off in late July and was below normal at the southern sites during August. Only at Geddes was there evidence of stress for extended periods. Precipitation was near normal in September. October was wet and a heavy, wet snowfall occurred on October 20-21 leaving from 4 to 12

The assistance of the following individuals is appreciated: G. W. Erion and Z. W. Wicks of the Plant Science Department; Albert Dittman, Burton Lawrensen, Herb Lund, Lucian Edler, Kevin Kirby and Delbert Robbins of the Stations; and cooperators Jack Biddle and John Heaton.

Table 1. Location of Trials, Dates of Seeding and Harvesting of the 1982 Corn Performance Trials, South Dakota.

Area	County	Location	Post Office	Dates Seeded	Dates Harvested
C1-dry	Spink	James Valley Res. Farm, 6E	Redfield	May 20	Nov. 16
C1-irr.	Spink	James Valley Res. Farm, 6E	Redfield	May 20	Nov. 8
C2	Charles Mix	Jack Biddle Farm, 3S, 1E	Geddes	June 3	Nov. 23
D1	Deuel	John Heaton Farm, 1W, 6N	Gary	May 17	Oct. 22
D3	Brookings	Plant Science Farm, 2NE	Brookings	May 17	Nov. 3
E	Clay	Southeast Exp. Farm, 7W, 3S	Beresford	May 7	Nov. 24

inches of snow over much of the southeast area of the state. The corn did not dry and fields were so soft that little harvest was accomplished until late November or until the field soil surface froze enough to support heavy harvest equipment.

Temperatures for the entire season were below normal at nearly all sites. The coolest site for the entire season was Brookings; 456 GDD units below normal at the end of October. The southeast area of the state was near normal until October when the rains and snowfall caused unfavorable conditions. The first light frost occurred on September 21 but only nipped the uppermost leaves allowing growth to continue. Temperatures dropped to killing frost temperatures on October 16 in Brookings, Centerville and Milbank. The first killing temperatures at the other sites were recorded with the heavy snowfall of October 20-21. Many stalks were insulated by the snow and were still green and wet when harvested in late November.

The moist, cool condition greatly delayed harvest as the kernel moisture stayed at 28-30%. This delay in harvest contributed to the excessive stalk breakage or lodging noted in many trials as the heavy October snowfall was accompanied by high velocity winds and either or both were damaging. Lodging was so severe that two trials were harvested by hand to salvage any type of satisfactory information. Though the season was frost-free longer than usual the fall conditions did not greatly favor later maturing varieties as the later, higher yielding entries were generally lodged most severely.

The irrigated trials at Redfield received three applications of water in addition to the timely rainfall that occurred during the growing season.

Table 2. Laboratory Analyses, Soil Classification and Fertilizer Applied to the 1982 Corn Performance Trial Fields.

Area	Soil Classification	% O.M.	P lb/A	K lb/A	pH	Preparation and method	lb/A N	lb/A P	lb/A K
C1-dry	Beotia SiCl	3.0	51	900	7.3	Plowed and disced(wheat)	50	30	0
C1-irr.	Beotia SiCl	3.0	40	880	7.5	Plowed and disced(sorghum)	150	30	0
C2	Highmore SiL	3.6	38	910	6.9	Sweeps and disced(oats)	-	-	-
D1	Forman SiCl	3.0	60	420	6.7	Plowed and disced(sm grain)	90	45	21
E	Egan SiL	2.4	86	1380	6.8	Plowed and disced(sm grain)	80	30	20

Table 3. Temperature and Precipitation Data for the 1982 Corn Performance Trials

Location	Type of Data	May	June	July	August	Sept.	Oct.	Total
Brookings	Precip. (inches)	4.31	2.25	5.55	1.92	2.74	3.14	19.91
2 NE	Temp. (mean)	57.8	60.8	71.0	68.0	57.8	46.4	
	Days 90° F +	--	--	2	2	--	--	
D3	Killing Frost	30° - Sept. 21		27° - Oct. 16				
Centerville	Precip. (inches)	9.34	1.69	3.01	2.66	1.26	4.18	22.14
6 SE	Temp. (mean)	60.9	63.9	73.5	70.0	60.7	49.0	
	Days 90° F +	--	--	7	5	--	--	
E	Killing Frost	29° - Sept. 21		27° - Oct. 16				
Milbank	Precip. (inches)	4.18	1.18	3.65	1.30	2.28	5.86	18.45
	Temp. (mean)	57.4	60.0	71.6	68.0	57.6	47.6	
	Days 90° F +	--	1	9	7	1	--	
D1	Killing Frost	31° - Sept. 22		28° - Oct. 16				
Pickstown	Precip. (inches)	8.63	1.68	1.82	1.00	1.30	5.45	19.88
	Temp. (mean)	60.2	64.5	75.8	74.5	62.9	51.0	
	Days 90° F +	--	1	15	12	2	--	
C2	Killing Frost	28° - Oct. 21 (snow)						
Redfield	Precip. (inches)	4.54	1.72	3.44	1.40	2.30	4.74	18.14
6E	Temp. (mean)	58.6	61.9	74.1	71.5	59.8	47.3	
	Days 90° F +	--	1	14	11	2	--	
C1	Killing Frost	31° - Sept. 21; 24° - Oct. 21						

Hybrid Entry Procedure

Hybrids in the trials were entered by the participating companies and they designate the locations where their entries were to be grown. A fee was charged for each entry in each area except for hybrids included by the Agricultural Experiment Station. Either closed or open-pedigree hybrids were eligible and each was allowed to be entered once in each adaptation area. A maximum of 6 entries could be entered by a company at any trial site. A listing of the firms, with brands and hybrids harvested, is presented in Table 18.

Hybrids frequently used by the industry have been used as check entries since 1975. They are indicated in the trials as SDAES Check 1, 9, 10, etc. The identities of the checks are as follows:

Check 1 = B73 x Mo17Ht
Check 2 = A632Ht x A619Ht
Check 4 = W64Ht x W117Ht
Check 9 = Mo17 x A634
Check 10 = A632 x W153R
Check 11 = A554 x CM105

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

Table 4. Field Methods for the 1982 Corn Trials.

Area	Table No.	Number of Replications Harvested	Method of Seeding	Final Population Obtained	Rows		
					Number of	Width, inches	Length, feet
C1-dry	12	4	drilled	10,832	2	36	22
C1-irr.	14	2	drilled	22,375	2	36	18
C1-irr.	14	2	drilled	25,827	2	36	18
C2	10	3	drilled	17,371	1	30	29
D1	8	4	drilled	17,358	1	30	32
D3	16	2	drilled	13,648	1	36	32
D3	16	2	drilled	17,569	1	36	32
E	6	1	drilled	15,985	2	36	18
E	6	1	drilled	19,696	2	36	18

Experimental Procedure

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

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

All trials were seeded as drilled corn. A 31-cell cone seeder was used for the single-row plots or an Oyjord small-batch type feeder with 6-row divider was used for the two-row plots. These units were mounted above commercial flexi-planter units with double disc openers. Seeding rate was 15% more kernels than the number of plants per plot desired. Plots were thinned to the desired stands when deemed necessary.

Table 5. Harvest methods and moisture determinations for the 1982 corn trials.

Area	Harvest Methods	Samples Used for Moisture Determinations	Moisture Determined
C1-dry	Plot combine	Shelled corn	Electronically
C1-irr.	Plot combine	Shelled corn	Electronically
C2	Hand picked	Ear Sections	Oven-dried
D1	Picker-sheller	Shelled corn	Electronically
D3	Picker-sheller	Shelled corn	Electronically
E	Hand picked	Ear Sections	Oven-dried

Measurements of Performance

Yield. The yield reported for each hybrid is the average obtained from the yield weights of all replications, expressed as bushels per acre of No. 2 corn at 15.5% moisture. Varieties of equal potential may yield differently because of variations in slope, soil fertility and stand. Mathematical determinations have been made to determine whether yield differences obtained were caused by variations in environment or were true varietal differences. The 1982 coefficients of variations were within statistical limitations acceptable for corn (5-15%) at all sites. No statistical differences were found for populations in the 1982 trials.

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

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

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

Moisture Content. The moisture content of each entry is expressed as the percentage of moisture in the ear corn or shelled corn at the time of harvest (Table 5). Moisture content is inversely related to maturity. Because maturity is of prime importance in South Dakota, these figures are of considerable importance in the evaluation of the entries.

Stalk breakage was a severe problem in 1982 at those sites where heavy snowfall occurred. The snowfall was accompanied by high velocity winds (60+ mph) and either or both contributed to the breakage. Ear droppage was a lesser problem in some trials. Many ear shanks remained tough because of the continued higher moisture content and droppage was reduced.

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. The cash grain operator who does not turn livestock into his fields after harvest will receive greater returns when the stalks remain upright so that the ears will go through his harvesting machinery. Because of the importance of the three factors - yield, moisture percentage and upright stalks - the three results in the tables presenting this information are used to determine a rating or performance score.

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

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

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

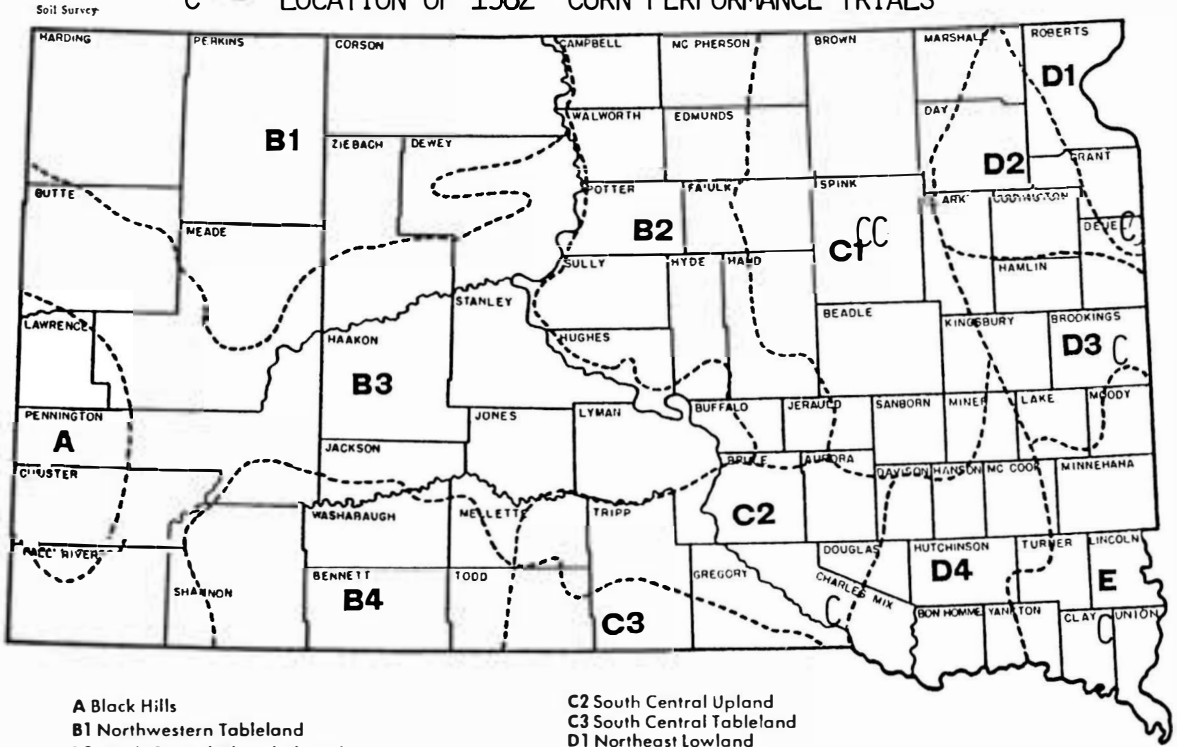
Use of the Tables. South Dakota conditions are generally quite different from those in the mid-western Corn Belt. Most of the crop adaptation areas have conditions common to the Northern Great Plains, i.e., limited frost-free growing periods, limited precipitation and high summer temperatures. Corn hybrids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

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

CROP ADAPTATION AREAS OF

SOUTH DAKOTA

C - LOCATION OF 1982 CORN PERFORMANCE TRIALS



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

Table 6. 1982 Corn Performance Trial, Area E, Southeast Experment 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
O'S GOLD 5500A	L 2X	157.8	0.0	86.7	3.6	25.3	39
CARGILL 921	M 2X	155.7	0.0	83.9	0.0	21.9	25
DISCO DS5433	M 2X	147.0	0.0	26.9	0.0	20.9	1
MIGRO HP 555	L 2X	146.8	0.0	69.9	3.6	25.8	35
DE KALB XL-55A	M 2X	146.5	0.0	80.5	2.3	22.0	47
LYNKS LX4225	M 2X	145.3	0.0	74.4	2.2	20.7	34
WESTERN KX-70	L 2X	144.6	0.0	55.3	7.1	25.1	15
CENEX 2115	L 2X	143.3	0.0	68.5	0.0	24.9	41
PRIDE 6692	L 2X	141.9	0.0	57.8	2.2	21.8	18
TROJAN T1100	L 2X	140.8	0.0	22.8	0.0	22.4	2
CURTIS 601	M 2X	140.4	0.0	72.5	0.0	25.1	54
PAYMASTER 8201	L 2X	139.2	0.0	68.7	1.2	24.4	49
KALTENBURG KX77	L 2X	138.6	0.0	53.5	2.3	23.6	23
MIGRO HP-401	M 2X	136.8	0.0	55.3	2.4	19.8	20
TALL CORN SX113	L 2X	136.5	0.0	22.0	0.0	21.7	3
LYNKS LX4315A	L 2X	135.5	0.0	47.7	0.0	21.4	11
DE KALB EX6261	L 2X	134.8	0.0	53.5	3.5	24.2	31
KELTGEN KS115	L 2X	133.0	0.0	60.2	0.0	25.7	52
FONTANELLE 435	M 2X	132.9	0.0	44.9	0.0	21.7	16
PAYMASTER 4790	M 2X	132.8	0.0	31.3	2.4	22.6	5
WILSON 1600A	M 2X	132.3	0.0	51.7	1.1	22.4	29
KELTGEN KS114	L 2X	131.8	0.0	52.3	0.0	21.7	30
FONTANELLE 580	L 2X	131.1	0.0	36.6	3.2	24.9	14
NORTHRUP KING PX9527	L 2X	130.7	0.0	36.8	0.0	22.5	8
AGRIGOLD AG-6688	M 2X	130.7	0.0	54.8	0.0	22.3	42
PAG SX333	L 2X	130.3	0.0	58.4	1.1	23.8	50
WESTERN KX-66	L 2X	130.1	0.0	33.0	2.0	22.3	7
CROWS 444	M 2X	130.0	0.0	44.7	5.9	24.2	26
FUNK'S G-4522	L M2X	129.7	0.0	52.3	1.1	25.5	48
CURRY SC-1424	M 2X	128.9	0.0	26.4	0.0	19.5	4
CURRY SC-1452	M 2X	128.3	0.0	50.6	2.4	22.0	38
SDAES CHECK 1	L 2X	128.3	0.0	46.4	0.0	23.4	33
WILSON 1600	M 2X	128.0	0.0	30.4	0.0	21.3	6
CURRY SC-1490	M 2X	127.7	0.0	64.0	0.0	23.9	63
CURTIS 602	M 2X	125.8	0.0	54.1	0.0	25.0	55
CENEX 2114	L 2X	125.5	0.0	34.0	0.0	21.3	12
ASGROW RX610	M 2X	125.3	0.0	54.2	2.4	19.3	46
TALL CORN SX108	M 2X	124.3	0.0	53.1	2.5	22.3	51
DE KALB XL-72AA	L 2X	124.2	0.0	67.1	0.0	23.4	70
DE KALB EX4345	M 2X	124.2	0.0	43.2	0.0	23.1	37
KALTENBURG KX73	L 2X	124.2	0.0	32.5	1.2	22.0	17
MC CURDY 6475	M 2X	123.6	0.0	38.3	1.2	21.6	24
O'S GOLD 6882	L 2X	123.5	0.0	34.4	2.2	22.3	22
KELTGEN KS116	L 2X	123.2	0.0	46.9	4.1	27.9	57
KALTENBURG KX67	M 2X	122.8	0.0	35.6	0.0	19.4	19
KALTENBURG KX61	M 2X	122.6	0.0	43.0	0.0	19.1	28
TALL CORN SX110	M 2X	121.6	0.0	73.2	3.7	20.4	74
LYNKS LX4232	M 2X	120.6	0.0	30.4	0.0	19.1	10
PAG SX397	M 2X	120.4	0.0	91.4	1.2	19.0	83
TROJAN T1000	M 2X	120.1	0.0	42.0	2.0	18.5	32
CURTIS 530	M 2X	120.0	0.0	52.9	2.4	21.6	58
FUNK'S G-4438	L 2X	119.3	0.0	59.6	1.1	20.6	66
NORTHRUP KING PX74	L 2X	119.1	0.0	87.6	3.4	25.1	86
FUNK'S G-4435	L M2X	119.0	0.0	22.6	2.2	23.0	13
MIGRO HP-470	M 2X	118.8	0.0	21.1	0.0	22.4	9
AGRIGOLD AG-6659	M 2X	118.0	0.0	52.9	3.4	23.9	67
SDAES CHECK 9	M 2X	116.8	0.0	57.7	0.0	18.8	65
PIONEER 3707	M 2X	116.3	0.0	91.5	2.4	18.5	85
LYNKS LX4210	M 2X	115.9	0.0	50.0	0.0	20.2	59
CARGILL 862	E 2X	115.3	0.0	55.8	2.1	17.6	62
MC CURDY 6262	L 2X	114.6	0.0	32.9	3.5	23.2	44

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
CURRY SC-1455	M 2X	113.7	0.0	33.7	0.0	21.9	45
PAYMASTER 2990	M 2X	113.5	0.0	46.4	0.0	19.1	56
CARGILL 872	M 2X	112.4	0.0	61.1	3.2	20.8	76
SDAES CHECK 2	L 2X	111.9	0.0	62.8	0.0	18.8	75
MIGRO HP-360	M 2X	111.9	0.0	41.4	0.0	19.2	53
FUNK'S G-4342	M 2X	111.4	0.0	57.3	4.9	17.9	69
PIONEER 3732	M 2X	111.4	0.0	23.0	1.1	17.9	21
WESTERN KX-59	M 2X	111.1	0.0	31.1	2.2	18.8	36
CARGILL 924	M 2X	110.9	0.0	54.7	0.0	19.6	71
WILSON 1100B	E 2X	110.4	0.0	24.4	0.0	20.1	27
NORTHRUP KING PX9415	M 2X	109.8	0.0	28.9	2.2	20.0	40
MC CURDY 81-42	L 2X	109.8	0.0	56.0	2.4	22.4	77
WILSON 1500	M 2X	109.1	0.0	85.4	0.0	19.2	87
MC CURDY 6555	L 2X	108.3	0.0	26.5	1.2	21.6	43
PRIDE 5523	M 2X	107.3	0.0	42.5	1.3	18.8	61
DISCO DS5519	E 2X	104.1	0.0	41.2	0.0	18.0	64
AGRIGOLD AG-6656	M 2X	101.7	0.0	62.5	0.0	21.1	84
AGRIGOLD AG-6699	L 2X	101.2	0.0	45.7	2.2	27.0	80
KELTGEN KS112	L 2X	100.2	0.0	26.5	2.4	22.0	60
NORTHRUP KING PX9454	M 2X	97.9	0.0	31.4	0.0	20.0	68
ASGROW RX777	L 2X	97.3	0.0	46.1	2.2	24.0	81
INTERSTATE 932	M 2X	96.0	0.0	47.4	0.0	17.5	78
PIONEER 3377	L 2X	95.3	0.0	45.5	0.0	22.6	82
TALL CORN SX109	M 2X	94.2	0.0	35.8	2.5	19.7	73
PRIDE 6611	L 2X	92.6	0.0	30.4	0.0	19.4	72
INTERSTATE 784	E 4X	88.0	0.0	42.4	1.2	16.5	79
Means		122.3		49.0		21.6	
LSD (.05)		25.7			C.V. - % =	10.4	

Table 7. Area E 2-year yield, moisture and stalk lodging averages, 1981-1982

BRAND AND VARIETY	ACRE YIELD, B/A			STK LODGING, PCT			GRAIN MOIST, PCT		
	4-YR	3-YR	2-YR	4-YR	3-YR	2-YR	4-YR	3-YR	2-YR
ASGROW RX777			118			27			22
CARGILL 872			119			35			19
CARGILL 921			146			45			21
CARGILL 924			118			30			20
CENEX 2114			127			17			20
CURRY SC-1424			130			15			18
CURRY SC-1455			127			18			20
CURTIS 530			123			29			20
CURTIS 601			138			37			23
DE KALB XL-55A			142			44			20
FUNKS G-4435			125			14			21
FUNKS G-4522			129			28			24
KALTENBURG KX61			128			24			18
KALTENBURG KX67			125			18			18
KALTENBURG KX73			128			16			21
KELTGEN KS112			119			15			20
KELTGEN KS114			131			28			21
KELTGEN KS115			131			31			23
LYNKS LX4210			122			26			19
MC CURDY 6262			125			22			22
MC CURDY 6475			127			21			21
MC CURDY 6555			125			15			20
MIGRO HP-360			114			23			18
MIGRO HP-401			134			28			19
MIGRO HP-470			132			12			20
NORTHRUP KING PX74			128			45			23
O'S GOLD 5500A			149			44			23
O'S GOLD 6882			131			18			21
P-A-G SX333			135			29			22
P-A-G SX397			118			51			18
PAYMASTER 2990			122			25			18
PAYMASTER 4790			131			17			20
SDAES CHECK 1			128			23			22
SDAES CHECK 2			103			37			17
SDAES CHECK 9			116			33			18
TALL CORN SX110			109			38			19
TALL CORN SX113			137			12			20
TROJAN T1100			138			13			21
WESTERN KX-66			118			18			21
WESTERN KX-70			139			31			23
WILSON 1500			116			48			18
WILSON 1600			135			19			19
WILSON 1600A			132			29			21

Table 8. 1982 Corn Performance Trial, Area D1, John Heaton Farm, Deuel Co.(Gary)

BRAND AND VARIETY	TYPE AND CROSS	YIELD 8/A	PCT ROOT LODGED	PCT STALK LODGED	PCT EARS DROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
SIGCO 1104	M 2X	119.0	0.0	0.8	0.0	29.6	2
O'S GOLD 6880	M 2X	118.5	0.0	1.5	0.0	29.4	3
PIONEER 3707	M 2X	118.4	0.0	0.0	0.0	27.4	1
KALTENBURG KX61	M 2X	116.3	0.0	4.6	0.0	29.3	5
PAYMASTER 4660	M 2X	114.8	0.0	1.6	0.0	35.9	24
LYNKS LX4225	M 2X	113.2	0.0	3.6	0.0	33.6	23
PAYMASTER 2990	M 2X	113.1	0.0	0.0	0.0	30.4	9
KELTGEN KS1020	M 2X	110.7	0.0	1.6	0.0	30.2	18
CARGILL 861	E 2X	110.4	0.0	1.5	0.0	27.7	11
PIONEER 3901	E 2X	110.2	0.0	1.5	0.0	23.9	4
ASGROW RX40	E 2X	109.8	0.0	3.1	0.0	24.1	6
STAUFFER S5650	M 2X	109.2	0.0	1.6	0.0	35.7	40
PIONEER 3732	M 2X	109.0	0.0	0.8	0.0	24.7	7
STAUFFER S4402	M 2X	108.5	0.0	0.8	0.0	25.4	10
ASGROW RX511	M 2X	108.5	0.0	2.4	0.0	31.3	30
FUNK'S G-4315	M M2X	108.4	0.0	0.0	0.0	27.8	17
KELTGEN KS95	E 2X	108.3	0.0	0.0	0.0	27.2	14
PRIDE 5523	M 2X	108.1	0.0	1.5	0.0	29.2	26
CENEX 2106	M 2X	108.0	0.0	1.6	0.0	24.4	8
DE KALB XL-28	M 2X	107.6	0.0	0.8	0.0	28.3	22
KALTENBURG KX55	E 2X	107.4	0.0	1.5	0.0	25.8	15
SEEDTEC 7971	E 2X	107.0	0.0	3.1	0.0	25.1	16
TOP FARM SX1105	M 2X	107.0	0.0	1.6	0.0	27.0	20
TROJAN T950	E 2X	107.0	0.0	0.8	0.0	24.4	12
STAUFFER S 5602	M 2X	105.9	0.0	3.7	0.0	28.8	33
STAUFFER 606WX	M 2X	105.4	0.0	2.3	0.0	34.1	49
TOP FARM SX104	M 2X	105.3	0.0	0.7	0.0	26.5	25
STAUFFER S5260	M 2X	105.2	0.0	0.0	0.0	34.2	47
LYNKS LX4075	E 2X	104.8	0.0	0.0	0.0	25.6	21
TROJAN T1000	M 2X	104.4	0.0	1.5	0.0	28.2	35
TOP FARM SX99	M 2X	104.2	0.0	6.0	0.0	23.9	27
KELTGEN KS93	E 2X	103.8	0.0	0.8	0.0	22.3	13
PRIDE 3322	E 2X	103.4	0.0	5.4	0.0	23.7	28
KELTGEN KS101	E 2X	103.4	0.0	2.3	0.0	27.5	37
STAUFFER S3306	M 2X	103.2	0.0	1.6	0.0	23.0	19
CARGILL 872	M 2X	102.5	0.0	5.3	0.0	32.6	54
DE KALB XL-25A	M 2X	102.0	0.0	3.7	0.0	29.9	48
SEEDTEC CX8152	E 2X	101.7	0.0	0.8	0.0	25.3	32
SDAES CHECK 10	M 2X	101.4	0.0	11.6	0.0	21.8	36
KELTGEN KS104	M 2X	100.8	0.0	2.2	0.0	28.1	45
CENEX 2098	E 2X	100.3	0.0	4.0	0.0	22.5	31
LYNKS LX4100	E 2X	100.3	0.0	0.8	0.0	27.8	43
FUNK'S G-4342	M 2X	100.2	0.0	6.1	0.0	25.7	42
PAG SX181	E 2X	99.7	0.0	2.3	0.0	24.5	38
SDAES CHECK 2	L 2X	99.2	0.0	5.9	0.0	28.9	53
WESTERN KX-420	E 3X	99.2	0.0	1.5	0.0	22.7	34
PRIDE 4422	M 2X	98.9	0.0	0.8	0.0	25.5	41
O'S GOLD 1170A	M 2X	98.8	0.0	1.6	0.0	33.3	63
TOP FARM SX 98	E 2X	98.2	0.0	0.8	0.0	20.2	29
DE KALB XL-18	E 2X	97.8	0.0	0.8	0.0	28.2	52
SEEDTEC CX8154	L M2X	97.2	0.0	1.6	0.0	29.6	59
SIGCO 2105	M 2X	96.8	0.0	3.1	0.0	33.8	65
DE KALB EX1112	E 2X	96.7	0.0	4.9	0.0	24.5	50
LYNKS LX4210	M 2X	96.6	0.0	0.0	0.0	38.0	68
CARGILL 862	E 2X	96.4	0.0	4.7	0.0	32.2	64
TOP FARM SX1098	M 2X	96.3	0.0	0.0	0.0	22.0	39
LYNKS LX4040	E 2X	95.1	0.0	0.8	0.0	22.7	46
PIONEER 3906	E 2X	94.1	0.0	0.8	0.0	21.4	44
SEEDTEC 7007	M 2X	93.6	0.0	4.8	0.0	24.3	56
FARM BUREAU FB94	M 2X	92.7	0.0	3.3	0.0	24.2	58
TOP FARM SX94	E 2X	92.4	0.0	1.6	0.0	23.7	55

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
PAG EXP 291511	E 2X	92.2	0.0	3.1	0.0	25.0	61
SDAES CHECK 11	E 2X	91.7	0.0	1.6	0.0	20.8	51
DE KALB XL-8	E 2X	88.8	0.0	0.0	0.0	21.1	57
ASGROW RX355	E 3X	88.7	0.0	5.1	0.0	21.6	62
SIGCO 0902	E 2X	87.0	0.0	2.3	0.0	19.8	60
WESTERN KX-49	M 2X	85.4	0.0	1.9	0.0	24.0	66
KELTGEN KS96	E 2X	83.8	0.0	1.6	0.0	22.8	67
SEEDTEC 7006	E 2X	80.3	0.0	9.5	0.0	19.7	69
DE KALB XL-13	E 2X	79.3	0.0	14.3	0.0	22.2	72
INTERSTATE 844	E 4X	77.8	0.0	7.8	0.0	19.6	70
INTERSTATE 853	M 3X	76.8	0.0	4.1	0.0	20.0	71
Means		101.2		2.6		26.5	
LSD		14.5			C.V. - % = 10.3		

Table 9. Area D1 2-, 3-, and 4-year yield, moisture and stalk lodging averages of corn hybrids, 1979-1982.

	ACRE YIELD, B/A			STK LODGING, PCT			GRAIN MOIST, PCT		
BRAND AND VARIETY	4-YR	3-YR	2-YR	4-YR	3-YR	2-YR	4-YR	3-YR	2-YR
ASGROW RX 355			91			7			19
ASGROW RX 40	102	100	110	3	3	3	20	18	20
ASGROW RX 511		101	118		3	3		22	25
CARGILL 862			99			5			25
CARGILL 872			114			8			26
DE KALB XL-13		80	91		10	12		18	19
DE KALB XL-18			93			1			23
DE KALB XL-25A		101	108		2	3		21	24
DE KALB XL-28			101			2			24
KELTGEN KS1020			119			2			25
KELTGEN KS104			110			2			23
KELTGEN KS95			113			0			22
KELTGEN KS96			93			1			20
LYNKS LX4040			95			3			19
LYNKS LX4075		94	114		1	1		19	21
LYNKS LX4100		93	104		4	0		21	23
LYNKS LX4210			108			1			29
O'S GOLD 6880			115			2			24
P-A-G SX181		96	105		4	2		19	22
PAYMASTER 2990			116			1			25
PRIDE 3322			111			5			21
SDAES CHECK 10		94	104		12	9		18	19
SDAES CHECK 11		87	91		4	2		17	18
SDAES CHECK 2		90	100		4	4		22	24
SEEDTEC CX8152			108			1			21
SEEDTEC CX8154			105			1			24
TOP FARM SX104			107			1			22
TOP FARM SX98		90	95		3	0		16	18
TOP FARM SX99		103	109		6	5		18	21
TROJAN T950			110			1			21

Table 10. 1982 Corn Performance Trial, Jack Biddle 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
DE KALB XL-32A	M 2X	84.7	0.0	17.5	4.1	21.0	1
MIGRO HP-401	M 2X	84.7	0.0	40.2	2.8	21.1	10
TOP FARM SX104	M 2X	84.4	0.0	18.3	5.4	21.0	3
SDAES CHECK 9	L 2X	84.1	0.0	10.1	0.0	24.3	2
MIGRO HP 555	L 2X	83.6	0.0	13.2	7.7	28.8	5
ASGROW RX610	M 2X	83.6	0.0	18.2	5.1	23.8	4
PIONEER 3377	L 2X	83.3	0.0	38.3	2.1	22.1	13
ASGROW RX511	M 2X	82.4	0.0	33.7	7.0	20.4	8
TOP FARM SX1105	M 2X	82.2	0.0	27.0	1.0	21.0	6
TALL CORN SX108	M 2X	82.0	0.0	28.6	1.1	27.9	14
DE KALB XL-36	M 2X	81.8	0.0	32.0	0.0	27.0	18
CARGILL 921	M 2X	81.6	0.0	82.5	0.0	28.4	60
KELTGEN KS95	E 2X	80.8	0.0	44.1	0.0	19.1	16
PIONEER 3707	M 2X	80.6	0.0	28.7	5.7	20.7	11
FONTANELLE 420	M 2X	79.8	0.0	26.0	9.4	26.1	15
SEEDTEC 7971	E 2X	79.7	0.0	31.2	0.0	17.3	7
KELTGEN KS107	M 2X	79.6	0.0	54.3	3.2	20.5	26
KELTGEN KS104	M 2X	79.3	0.0	19.3	0.0	24.1	12
PAYMASTER 2990	M 2X	79.2	0.0	34.0	3.0	23.2	20
TROJAN T1100	L 2X	77.2	0.0	21.3	1.1	25.1	19
KELTGEN KS1020	M 2X	77.1	0.0	9.7	14.0	23.7	9
DE KALB EX4345	M 2X	76.2	0.0	14.3	1.1	26.4	17
DE KALB XL-28	M 2X	75.4	0.0	33.0	0.0	26.4	30
CURTIS 530	M L2X	75.1	0.0	17.2	3.2	27.0	21
CARGILL 924	M 2X	74.5	0.0	77.1	2.1	26.6	66
WESTERN KX-52	M 2X	74.5	0.0	28.9	15.8	24.3	25
GREEN ACRES 3000	M 4X	73.7	0.0	23.4	4.3	29.3	32
SDAES CHECK 10	M 2X	73.3	0.0	32.2	1.1	19.2	22
NORTHRUP KING PX69A	L 2X	73.3	0.0	34.0	0.0	26.5	39
KALTENBURG KX61	M 2X	73.0	0.0	24.8	0.0	23.0	23
PAG SX397	M 2X	73.0	0.0	80.7	6.8	22.9	67
CENEX 2108	M 2X	72.5	0.0	26.5	0.0	22.2	24
WESTERN KX-57	M 2X	72.0	0.0	19.3	2.3	26.6	28
CURTIS 602	M L2X	70.8	0.0	18.0	2.2	28.5	33
LYNKS LX4225	M 2X	70.7	0.0	19.6	0.0	25.6	31
FONTANELLE 435	M 2X	69.6	0.0	23.7	0.0	25.6	37
WILSON 1600	M 2X	69.4	0.0	23.0	0.0	24.1	34
WILSON 1600A	M 2X	69.3	0.0	26.4	1.1	29.9	50
PAYMASTER 4660	M 2X	68.7	0.0	24.4	3.3	18.7	27
NORTHRUP KING PX9353	M 2X	68.5	0.0	25.8	3.2	19.2	29
PAG EXP291511	E 2X	68.5	0.0	34.1	0.0	19.2	40
DE KALB EX4040	M 2X	68.2	0.0	16.2	3.0	27.1	38
SEEDTEC 7006	M 3X	68.0	0.0	40.0	0.0	16.7	43
SEEDTEC CX8154	L 2X	67.7	0.0	24.1	0.0	25.0	46
SDAES CHECK 4	M 2X	67.5	0.0	48.4	2.2	23.3	61
TROJAN T1000	M 2X	67.4	0.0	49.5	1.0	23.0	62
MIGRO HP-470	M 2X	67.1	0.0	24.4	1.2	27.2	49
WILSON 1100B	E 2X	67.1	0.0	15.6	3.3	24.6	35
TOP FARM SX104A	M 2X	67.0	0.0	40.0	2.1	24.1	56
SEEDTEC CX8152	E 2X	66.9	0.0	27.9	0.0	20.0	41
PRIDE 6692	L 2X	66.8	0.0	18.9	0.0	26.6	47
DE KALB EX2324	M 2X	66.5	0.0	39.3	0.0	19.8	51
KALTENBURG KX67	M 2X	65.8	0.0	18.6	0.0	24.6	45
INTERSTATE 932	M 2X	65.8	0.0	32.2	0.0	16.9	42
MIGRO HP-360	M 2X	64.9	0.0	31.4	0.0	24.7	54
NORTHRUP KING PX9415	M 2X	64.9	0.0	17.8	1.0	22.6	44
WILSON 1500	M 2X	64.7	0.0	41.1	3.2	21.1	59
PIONEER 3732	M 2X	63.8	0.0	25.0	1.2	21.8	48
ASGROW RX40	E 2X	63.8	0.0	40.4	3.4	19.4	58
KELTGEN KS101	E 2X	63.4	0.0	34.6	0.0	19.9	53
SDAES CHECK 11	E 2X	63.1	0.0	51.1	0.0	17.3	63

Table 10. (continued)

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LODGED	PCT STALK LODGED	PCT EARS DROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
LYNKS LX4100	E 2X	62.7	0.0	22.9	0.0	23.2	52
CARGILL 949	L 2X	62.7	0.0	14.0	8.1	29.8	55
ASGROW RX622	M 2X	62.4	0.0	40.0	10.0	24.2	65
LYNKS LX4210	M 2X	62.2	0.0	7.1	1.2	22.0	36
CENEX 2114	L 2X	61.2	0.0	17.2	0.0	26.3	57
PRIDE 5523	M 2X	60.3	0.0	27.9	2.3	25.1	64
SEEDTEC 7007	E 2X	59.7	0.0	51.5	4.1	21.8	72
PAYMASTER 4790	M 2X	59.0	0.0	42.7	0.0	24.8	71
FONTANELLE 428	M 2X	58.8	0.0	34.2	3.9	25.7	69
INTERSTATE 923	M 3X	58.3	0.0	43.7	0.0	18.4	68
GREEN ACRES 1116	L 2X	56.2	0.0	66.0	0.0	34.3	73
PRIDE 6611	L 2X	55.8	0.0	29.1	3.5	24.4	70
GREEN ACRES 793	L 3X	45.2	0.0	49.4	4.7	30.9	74
Means		70.8		31.3		23.7	
LSD (.05)		15.0			C.V. - % =	13.2	

Table 11. Area C2 2-, 3-, and 4-year yield, moisture and stalk lodging averages of corn hybrids, 1979-1982.

	ACRE YIELD, B/A			STK LODGING, PCT			GRAIN MOIST, PCT		
BRAND AND VARIETY	4-YR	3-YR	2-YR	4-YR	3-YR	2-YR	4-YR	3-YR	2-YR
ASGROW RX 40	54	51	68	13	16	23	15	16	13
ASGROW RX 511		56	73		9	13		15	11
CARGILL 921			82			43			22
CARGILL 924	57	56	76	22	28	41	25	25	21
CENEX 2108		53	72		23	29		19	17
CURTIS 530			70			13			22
DE KALB XL-32A	60	56	75	5	6	10	20	20	17
DE KALB XL-36			71			32			26
FONTANELLE 420		53	69		10	15		22	19
FONTANELLE 435			66			12			21
GREEN ACRES 3000		58	72		12	17		23	22
KALTENBURG KX61		59	80		11	15		20	18
KALTENBURG KX67			70			10			18
KELTGEN KS101			63			25			13
KELTGEN KS1020			74			5			17
KELTGEN KS104			83			12			19
KELTGEN KS95			70			28			14
LYNKS LX4100		57	79		5	6		19	15
LYNKS LX4210			63			5			17
MIGRO HP-360			63			19			18
MIGRO HP-470			70			14			22
NORTHRUP-KING PX69A	59	58	71	12	15	22	24	25	22
P-A-G SX397			68			50			18
PAYMASTER 2990			80			19			17
PAYMASTER 4660		50	65		10	15		19	15
PRIDE 6611			61			16			17
SDAES CHECK 10		53	73		13	20		15	12
SDAES CHECK 11		49	58		18	26		13	11
SDAES CHECK 4		45	59		17	25		18	16
SDAES CHECK 9		56	72		6	8		19	18
TOP FARM SX 104		61	76		10	14		16	13
TROJAN T1100			70			12			21
WESTERN KX-52		66	71		11	16		20	19
WILSON 1500			65			38			15
WILSON 1600			69			14			21
WILSON 1600A			66			13			25

Table 12. 1982 Corn Performance Trial, Area C1(dryland), James Valley Research 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
PIONEER 3732	M 2X	102.8	0.0	3.6	0.0	24.2	2
PIONEER 3747	M 2X	101.5	0.0	1.5	0.0	22.8	1
NORTHRUP KING PX9353	M 2X	100.1	0.0	0.8	0.0	22.8	3
TROJAN T1000	M 2X	97.1	0.0	1.4	0.0	26.4	5
ASGROW RX40	E 2X	95.4	0.0	6.3	0.0	21.5	4
PAYMASTER 2990	M 2X	94.2	0.0	2.1	0.0	28.4	9
PAYMASTER 4660	M 2X	93.9	0.0	2.3	0.0	30.7	15
TOP FARM SX104	M 2X	92.7	0.0	4.9	0.0	23.0	6
CURRY SC-1424	M 2X	91.9	0.0	1.6	0.0	31.5	23
PIONEER 3901	E 2X	91.4	0.0	2.9	0.0	22.7	7
FUNK'S G-4342	M 2X	90.7	0.0	8.0	0.0	26.8	19
STAUFFER S3306	M 2X	90.7	0.0	3.8	0.0	21.9	8
KELTGEN KS101	E 2X	89.9	0.0	1.5	0.0	23.5	11
PRIDE 5523	M 2X	89.8	0.0	3.8	0.0	27.0	20
ASGROW RX511	M 2X	89.6	0.0	7.6	0.0	26.9	25
SIGCO 3106	M 3X	89.0	0.0	17.1	0.0	22.8	24
TOP FARM SX1105	M 2X	88.8	0.0	3.7	0.0	22.4	12
DE KALB XL-32A	M 2X	88.5	0.0	6.1	0.0	30.0	34
KELTGEN KS104	M 2X	88.4	0.0	0.8	0.0	26.7	21
WESTERN KX-55	M 2X	88.4	0.0	1.6	0.0	27.8	26
SDAES CHECK 4	M 2X	88.3	0.0	2.9	0.0	23.5	16
PIONEER 3906	E 2X	87.8	0.0	0.7	0.0	21.0	10
CURTIS 439	M 2X	87.5	0.0	6.3	0.0	25.7	27
SDAES CHECK 10	M 2X	87.5	0.0	3.8	0.0	21.2	14
DE KALB EX2324	M 2X	87.2	0.0	2.2	0.0	24.1	18
PRIDE 4422	M 2X	87.1	0.0	0.8	0.0	23.4	17
FUNK'S G-4315	M M2X	85.9	0.0	3.0	0.0	24.9	28
FARM BUREAU FB94	M 2X	85.8	0.0	9.0	0.0	17.1	13
SEEDTEC 7007	M 2X	84.9	0.0	7.8	0.0	22.1	30
KELTGEN KS 1020	M 2X	84.8	0.0	3.1	0.0	28.8	40
SEEDTEC CXB154	L 2X	84.7	0.0	1.6	0.0	26.0	31
PAG SX1B1	E 2X	84.5	0.0	4.5	0.0	22.6	29
STAUFFER S3242	M 2X	84.1	0.0	1.4	0.0	21.4	22
KELTGEN KS95	E 2X	82.6	0.0	5.0	0.0	22.3	32
CARGILL 426	E 2X	82.1	0.0	9.6	0.0	22.7	39
CENEX 2106	M 2X	81.8	0.0	2.2	0.0	23.1	36
CENEX 2108	M 2X	81.8	0.0	2.4	0.0	27.9	43
DE KALB XL-36	M 2X	81.8	0.0	3.0	0.0	30.4	47
CARGILL 834	E 2X	81.5	0.0	2.1	0.0	22.1	33
DISCO DS5605	E 2X	80.3	0.0	6.7	0.0	23.8	42
PRIDE 3322	E 2X	80.2	0.0	2.2	0.0	21.5	37
NORTHRUP KING PX9288	E 2X	80.2	0.0	8.1	0.0	21.8	41
SEEDTEC 7971	E 2X	80.0	0.0	5.4	0.0	21.1	38
DE KALB XL-28	M 2X	79.6	0.0	0.0	0.0	28.2	46
INTERSTATE 784	E 2X	79.1	0.0	0.8	0.0	19.8	35
TALL CORN SX109	M 2X	78.6	0.0	3.1	0.0	37.0	61
TROJAN T1056	M 2X	78.1	0.0	8.1	0.0	32.9	59
TOP FARM SX104A	M 2X	77.7	0.0	2.1	0.0	28.0	51
PAG EXP291511	E 2X	77.5	0.0	6.9	0.0	23.1	45
DE KALB XL-314	E 3X	77.2	0.0	17.0	0.0	22.5	52
CURRY SC-1455	M 2X	76.1	0.0	3.5	0.0	38.9	62
DE KALB XL-18	E 2X	75.5	0.0	1.5	0.0	26.9	53
CARGILL 862	E 2X	75.4	0.0	3.5	0.0	27.6	55
TALL CORN SX110	M 2X	75.2	0.0	0.8	0.0	31.9	60
KELTGEN KS102	M 2X	75.1	0.0	0.0	0.0	28.1	54
CENEX 2098	E 2X	74.3	0.0	1.5	0.0	22.6	49
INTERSTATE 842	E 2X	73.9	0.0	9.7	0.0	19.9	50
SDAES CHECK 11	E 2X	73.8	0.0	0.8	0.0	18.9	44
SIGCO 0902	E 2X	73.3	0.0	2.4	0.0	19.8	48
SEEDTEC CX8152	E 2X	71.2	0.0	4.3	0.0	22.1	56
WESTERN KX-49	M 2X	70.6	0.0	5.7	0.0	23.1	57

Table 12. (continued)

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LODGED	PCT STALK LODGED	PCT EARS DROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
SEEDTEC 7006	E 3X	67.1	0.0	3.6	0.0	20.4	58
SIGCO 2107	M 2X	64.9	0.0	10.2	0.0	31.8	63
Means		83.8		4.1		24.9	
LSD (.05)		13.6			C.V. - % =	11.6	

Table 13. Area C1(dryland) 2-, 3-, and 4-year yield, moisture and stalk lodging averages of corn hybrids, 1979-1982.

	ACRE YIELD, B/A			STK LODGING, PCT			GRAIN MOIST, PCT		
BRAND AND VARIETY	4-YR	3-YR	2-YR	4-YR	3-YR	2-YR	4-YR	3-YR	2-YR
ASGROW RX 40		82	81		7	9		18	18
CARGILL 426			77			7			20
CARGILL 834		71	69		3	2		19	19
CARGILL 862		73	69		4	4		22	23
CURRY SC-1424	87	86	84	4	3	2	22	24	24
CURRY SC-1455		79	72		3	3		28	30
DE KALB XL-18		69	68		2	2		22	23
DE KALB XL-28			75			2			23
DE KALB XL-36			74			3			25
FUNKS G-4315			75			2			20
KELTGEN KS101			77			2			19
KELTGEN KS102		78	74		4	4		23	24
KELTGEN KS1020			75			3			24
KELTGEN KS104			82			2			22
P-A-G SX181		75	77		4	5		19	19
PAYMASTER 2990			80			4			23
PRIDE 3322			68			5			19
SDAES CHECK 10		73	73		3	4		18	18
SDAES CHECK 11		61	65		3	4		16	17
SDAES CHECK 4	76	72	74	4	3	3	20	20	20
TOP FARM SX104		76	79		4	5		19	19
TOP FARM SX104A			71			6			23
WESTERN KX-55	84	77	76	5	5	5	23	24	24

Table 14. 1982 Corn Performance Trial, Area C1(irrigated), James Valley Research 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
CIRCLE SEED CS-4988	M 2X	175.6	0.0	0.4	0.0	34.3	9
TALL CORN SX108	M 2X	171.3	0.0	0.9	0.0	36.4	27
MC CURDY 81-54	M 2X	170.1	0.0	0.4	0.0	29.4	7
CURRY SC-1455	M 2X	169.1	0.0	0.4	0.0	37.6	41
PAYMASTER 2990	M 2X	167.7	0.0	0.0	0.0	26.7	5
PIONEER 3732	M 2X	167.6	0.0	1.7	0.0	25.4	3
CARGILL 861	E 2X	165.8	0.0	0.8	0.0	25.6	6
CURRY SC-1425	M 2X	165.0	0.0	0.9	0.0	28.8	19
CURRY SC-1420	M 2X	164.8	0.0	0.4	0.0	28.6	17
ASGROW RX514	M 2X	164.5	0.0	2.7	0.0	23.0	4
CIRCLE SEED CS-207	M 2X	164.5	0.0	0.0	0.0	32.2	30
STAUFFER S5602	L 2X	163.6	0.0	2.0	0.0	27.2	16
NORTHRUP KING PX39	M 2X	163.3	0.0	3.3	0.0	29.9	26
PIONEER 3901	E 2X	163.3	0.0	0.8	0.0	22.0	1
KELTGEN KS107	M 2X	162.9	0.0	0.8	0.0	27.3	18
O'S GOLD 2321	E 2X	161.3	0.0	0.4	0.0	21.3	2
PAYMASTER 4660	M 2X	161.0	0.0	0.0	0.0	27.7	22
TOP FARM SX1105	M 2X	160.1	0.0	0.8	0.0	23.5	10
TOP FARM SX104	M 2X	160.0	0.0	0.4	0.0	24.9	14
FUNK'S G-4342	M 2X	159.9	0.0	0.4	0.0	29.0	31
O'S GOLD 2330	M 2X	159.6	0.0	0.4	0.0	23.1	8
NORTHRUP KING PX9353	M 2X	159.6	0.0	1.3	0.0	23.6	12
KELTGEN KS95	E 2X	159.5	0.0	1.7	0.0	24.3	15
SEEDTEC CX8154	L M2X	159.5	0.0	0.4	0.0	28.2	25
DE KALB XL-36	M 2X	159.3	0.0	0.0	0.0	28.4	28
ASGROW RX40	E 2X	159.2	0.0	0.4	0.0	23.4	11
KELTGEN KS101	E 2X	157.3	0.0	1.3	0.0	23.8	20
KELTGEN KS1020	M 2X	157.0	0.0	0.4	0.0	27.6	33
CENEX 2106	M 2X	156.9	0.0	0.0	0.0	22.8	13
KELTGEN KS104	M 2X	156.0	0.0	2.1	0.0	27.3	39
O'S GOLD 6880	M 2X	155.6	0.0	0.4	0.0	27.0	34
TALL CORN SX113	L 2X	155.1	0.0	1.3	0.0	35.8	65
WESTERN KX-59	M 2X	154.9	0.0	0.4	0.0	26.6	36
PRIDE 5523	M 2X	154.7	0.0	0.4	0.0	27.7	42
CIRCLE SEED CS-201	E 2X	154.6	0.0	1.3	0.0	22.5	21
SIGCO 1104	M 2X	154.0	0.0	0.0	0.0	27.9	43
CURRY SC-1424	M 2X	153.7	0.0	0.0	0.0	30.9	55
DISCO DS5519	M 2X	153.6	0.0	0.8	0.0	25.6	35
DE KALB EX1212	E 2X	153.1	0.0	3.8	0.0	21.9	24
SIGCO 2105	M 2X	152.8	0.0	18.2	0.0	25.5	59
TROJAN T950	E 2X	152.8	0.0	1.3	0.0	21.8	23
PIONEER 3747	M 2X	152.4	0.0	0.0	0.0	23.8	29
MC CURDY 4855	M 2X	152.2	0.0	0.4	0.0	28.0	50
CENEX 2108	M 2X	151.9	0.0	1.3	0.0	26.6	46
MC CURDY 81-3	M 2X	151.4	0.0	3.7	0.0	26.4	51
PAG EXP291511	E 2X	150.0	0.0	1.3	0.0	23.4	38
SDAES CHECK 10	M 2X	149.7	0.0	1.8	0.0	21.7	32
TROJAN T1000	M 2X	149.5	0.0	0.5	0.0	27.2	53
DE KALB XL-28	M 2X	148.1	0.0	0.4	0.0	29.8	63
PAG SX397	M 2X	148.1	0.0	2.2	0.0	33.3	69
TALL CORN SX109	M 2X	147.8	0.0	0.0	0.0	31.2	66
PRIDE 6611	L 2X	147.3	0.0	5.7	0.0	33.7	73
CARGILL 426	E 3X	146.7	0.0	1.6	0.0	23.8	49
SEEDTEC CX8152	E 2X	146.4	0.0	1.5	0.0	22.7	45
CIRCLE SEED CS-2155	E 2X	146.3	0.0	1.3	0.0	20.8	37
KELTGEN KS102	M 2X	146.1	0.0	1.3	0.0	31.0	68
STAUFFER S3306	M 2X	146.0	0.0	1.0	0.0	21.2	40
FUNK'S G-4315	M M2X	145.9	0.0	0.4	0.0	26.4	58
DE KALB EX1615	E 2X	145.7	0.0	2.3	0.0	22.7	48
CARGILL 834	E 2X	145.3	0.0	0.9	0.0	21.8	44
PRIDE 4422	M 2X	145.3	0.0	0.0	0.0	24.5	54

Table 14. (continued)

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LODGED	PCT STALK LODGED	PCT EARS DROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
CARGILL 862	E 2X	144.2	0.0	0.0	0.0	29.1	67
CARGILL 872	M 2X	143.2	0.0	0.0	0.0	32.1	72
MC CURDY 4664	E 2X	142.9	0.0	1.6	0.0	23.6	57
DE KALB XL-8	E 2X	142.1	0.0	0.4	0.0	20.3	47
PIONEER 3906	E 2X	142.0	0.0	0.0	0.0	22.0	52
MC CURDY 80-71	E 2X	140.9	0.0	0.0	0.0	23.3	60
WESTERN KX-420	E 3X	140.3	0.0	1.3	0.0	21.7	56
CIRCLE SEED CS-210	M 2X	140.2	0.0	0.5	0.0	37.9	80
TOP FARM SX104A	M 2X	140.1	0.0	0.9	0.0	30.4	74
DE KALB XL-25A	M 2X	139.9	0.0	1.7	0.0	27.8	70
DISCO DS5605	E 2X	138.6	0.0	1.3	0.0	24.0	64
SEEDTEC 7971	E 2X	138.1	0.0	0.5	0.0	22.2	62
MC CURDY 4956	M 2X	137.4	0.0	1.3	0.0	29.7	78
STAUFFER S3242	M 2X	136.6	0.0	1.3	0.0	20.4	61
NORTHRUP KING PX9288	E 2X	132.8	0.0	3.5	0.0	22.7	71
SEEDTEC 7007	M 2X	132.0	0.0	6.3	0.0	23.8	76
CIRCLE SEED CS-2355	M 2X	130.6	0.0	0.8	0.0	24.4	75
CENEX 2110A	M 2X	129.8	0.0	13.5	0.0	28.0	81
ASGROW RX355	E 3X	126.8	0.0	0.0	0.0	22.3	77
SEEDTEC 7006	E 3X	119.2	0.0	1.5	0.0	21.1	79
Means		151.6		1.4		26.3	
LSD (.05)		16.9			C.V. - % =	8.0	

Table 15. Area C1(irrigated) 2-, 3-, and 4-year yield, moisture and stalk lodging averages of corn hybrids, 1979-1982.

	ACRE YIELD, B/A			STK LODGING, PCT			GRAIN MOIST, PCT		
BRAND AND VARIETY	4-YR	3-YR	2-YR	4-YR	3-YR	2-YR	4-YR	3-YR	2-YR
ASGROW RX 40	117	123	137	2	2	1	19	20	21
ASGROW RX 511		134	149		7	7		23	22
CARGILL 426			132			2			22
CARGILL 834		113	130		4	4		20	20
CARGILL 862		117	127		2	1		25	25
CENEX 2106		121	135		1	1		21	20
CENEX 2108		133	140		2	1		24	24
CURRY SC-1420			149			2			25
CURRY SC-1424	129	137	144	1	1	0	25	27	27
CURRY SC-1455		141	152		2	1		32	34
DE KALB XL-25A	118	124	130	2	2	1	23	24	24
DE KALB XL-36			138			0			26
DE KLAB XL-28			132			1			27
FUNKS G-4315			127			1			23
KELTGEN KS102		130	135		1	1		27	28
KELTGEN KS1020			143			0			27
KELTGEN KS104			148			2			25
KELTGEN KS107			148			2			24
KELTGEN KS95			147			1			22
MC CURDY 4664		126	132		2	2		20	21
MC CURDY 4855		129	141		3	2		25	25
MC CURDY 4956			130			1			27
NORTHRUP KING PX9288			118			2			21
NORTHRUP-KING PX 39		126	139		4	4		28	27
O'S GOLD 2330			140			1			21
O'S GOLD 6880			144			1			25
P-A-G SX 397	125	133	139	4	4	3	27	29	29
PAYMASTER 2990			151			1			24
PAYMASTER 4660			136			1			26
SDAES CHECK 10		120	134		5	4		20	20
TOP FARM SX 104		126	144		3	1		21	21
TROJAN T1000			144			2			25

Table 16. 1982 Corn Performance Trial, Area D3, Plant Science 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
ASGROW RX511	M 2X	127.5	0.0	0.0	0.0	27.8	1
NORTHRUP KING PX39	M 2X	124.0	0.0	2.2	0.0	31.9	6
KELTGEN KS101	E 2X	121.9	0.0	0.7	0.0	27.5	3
PIONEER 3901	E 2X	120.8	0.0	0.7	0.0	26.1	2
CIRCLE SEEDS CS-201	E 2X	120.6	0.0	4.4	0.0	26.7	4
PIONEER 3732	M 2X	120.6	0.0	1.5	0.0	28.1	5
LYNKS LX4232	M 2X	119.6	0.0	0.0	0.0	33.9	19
WESTERN KX-57	M 2X	119.5	0.0	0.7	0.0	29.7	7
KELTGEN KS1020	M 2X	119.4	0.0	0.0	0.0	32.6	14
G'S GOLD 6880	M 2X	118.6	0.0	0.7	0.0	29.8	9
KELTGEN KS95	E 2X	118.1	0.0	0.0	0.0	29.1	8
LYNKS LX4225	M 2X	117.9	0.0	1.4	0.0	32.8	22
PAYMASTER 2990	M 2X	117.8	0.0	2.9	0.0	29.8	11
PRIDE 5523	M 2X	117.0	0.0	3.0	0.0	30.7	20
CARGILL 861	E 2X	117.0	0.0	2.1	0.0	29.0	10
WESTERN KX-59	M 2X	116.5	0.0	0.7	0.0	29.9	15
CURRY SC-1425	M 2X	115.7	0.0	0.0	0.0	32.5	27
SIGCO 1104	M 2X	115.4	0.0	0.7	0.0	29.6	17
SDAES CHECK 9	M 2X	114.6	0.0	2.9	0.0	32.2	34
PIONEER 3707	M 2X	114.0	0.0	0.0	0.0	28.3	16
PRIDE 4422	M 2X	113.5	0.0	0.7	0.0	26.6	12
PAYMASTER 4660	M 2X	113.4	0.0	1.4	0.0	34.4	45
MC CURDY 5596	M 2X	112.8	0.0	1.4	0.0	37.3	54
TROJAN T950	E 2X	112.7	0.0	2.8	0.0	26.5	18
MIGRO HP-360	M 2X	112.7	0.0	1.5	0.0	29.6	30
CIRCLE SEEDS CS-207	M 2X	112.4	0.0	0.7	0.0	33.3	43
TOP FARM SX1105	M 2X	111.6	0.0	1.4	0.0	27.6	23
NORTHRUP KING PX9353	M 2X	111.5	0.0	0.0	0.0	27.1	21
DE KALB XL-28	M 2X	111.4	0.0	1.4	0.0	30.6	39
MIGRO HP-277	E 2X	111.2	0.0	0.7	0.0	28.0	26
FUNK'S G-4342	M 2X	111.1	0.0	0.0	0.0	30.1	36
MIGRO HP 266	E 2X	110.9	0.0	6.5	0.0	26.2	28
CURRY SC-1420	M 2X	110.7	0.0	0.0	0.0	30.1	37
SEEDTEC 7971	E 2X	110.7	0.0	0.0	0.0	24.4	13
TOP FARM TX399	E 3X	110.5	0.0	5.1	0.0	27.3	33
FONTANELLE 370	E 2X	110.4	0.0	0.0	0.0	30.8	41
CENEX 2106	M 2X	110.2	0.0	2.9	0.0	26.9	31
NORTHRUP KING PX9527	L 2X	109.2	0.0	2.9	0.0	38.2	75
SEEDTEC CX8152	E 2X	109.1	0.0	5.4	0.0	24.9	29
MC CURDY 81-3	M 2X	108.8	0.0	0.7	0.0	30.0	44
SIGCO 2107	M 2X	108.8	0.0	1.5	0.0	33.4	53
LYNKS LX4210	M 2X	108.4	0.0	0.0	0.0	35.6	62
SIGCO 3106	M 3X	108.3	0.0	1.4	0.0	27.0	35
TOP FARM SX1098	M 2X	108.1	0.0	2.9	0.0	25.6	32
MIGRO HP-201	E 2X	108.1	0.0	2.9	0.0	23.9	24
TROJAN T1000	M 2X	107.8	0.0	0.0	0.0	31.2	48
CIRCLE SEEDS CS-4988	M 2X	107.8	0.0	0.7	0.0	35.0	64
PIONEER 3906	E 2X	107.7	0.0	2.1	0.0	24.0	25
CENEX 2110	M 2X	107.5	0.0	0.7	0.0	35.3	65
TOP FARM SX104	M 2X	107.5	0.0	4.9	0.0	25.7	38
LYNKS LX4315A	L 2X	107.3	0.0	0.7	0.0	36.3	72
NORTHRUP KING PX9415	M 2X	106.8	0.0	0.0	0.0	31.4	50
SDAES CHECK 2	L 2X	106.5	0.0	6.0	0.0	30.1	55
PAG EXP 291511	E 2X	106.4	0.0	0.7	0.0	27.5	42
CIRCLE SEEDS CS-2355	M 2X	106.3	0.0	0.7	0.0	28.2	46
MC CURDY 80-71	E 2X	106.0	0.0	0.7	0.0	25.9	40
MC CURDY 5225	M 2X	105.9	0.0	1.4	0.0	27.9	47
CURRY SC-1424	M 2X	105.6	0.0	0.7	0.0	35.4	74
KELTGEN KS104	M 2X	105.5	0.0	2.2	0.0	29.8	51
LYNKS LX4100	E 2X	104.8	0.0	0.7	0.0	29.7	52
TOP FARM SX104A	M 2X	103.9	0.0	2.1	0.0	32.6	71

Table 16. (continued)

BRAND AND VARIETY	TYPE AND CROSS	YIELD B/A	PCT ROOT LODGED	PCT STALK LODGED	PCT EARS DROPPED	PERCENT MOISTURE	PERFORMANCE SCORE RATING
CENEX 2108	M 2X	103.4	0.0	0.7	0.0	30.9	63
NORTHRUP KING PX9454	M 2X	103.4	0.0	1.4	0.0	38.2	82
TOP FARM SX99	M 2X	103.4	0.0	0.7	0.0	27.2	49
MC CURDY 81-54	M 2X	103.2	0.0	1.5	0.0	31.6	69
CARGILL 862	E 2X	103.1	0.0	3.5	0.0	31.4	70
DE KALB XL-25A	M 2X	102.5	0.0	0.7	0.0	29.7	60
SIGCO 2105	M 2X	102.4	0.0	2.1	0.0	31.6	73
PAG SX 181	E 2X	100.4	0.0	3.7	0.0	26.2	58
FUNK'S G-4256	M 3X	100.0	0.0	5.8	0.0	25.8	59
KELTGEN KS96	E 2X	100.0	0.0	0.7	0.0	27.5	61
WESTERN KX-420	E 3X	100.0	0.0	3.1	0.0	25.2	56
FUNK'S G-4315	M M2X	100.0	0.0	0.0	0.0	28.8	68
LYNKS LX4315	L 2X	98.7	0.0	0.7	0.0	42.3	89
MC CURDY 4664	E 2X	98.3	0.0	0.8	0.0	26.8	66
CIRCLE SEEDS CS-2155	E 2X	97.9	0.0	3.7	0.0	25.6	67
CARGILL 872	M 2X	97.7	0.0	4.4	0.0	33.8	87
DE KALB XL-36	M 2X	96.8	0.0	0.7	0.0	34.0	86
CURRY SC-1410	M 2X	96.6	0.0	1.5	0.0	28.7	78
KELTGEN KS93	E 2X	96.5	0.0	1.4	0.0	23.0	57
DE KALB XL-314	E 3X	95.8	0.0	2.1	0.0	27.8	77
CIRCLE SEEDS CS-210	M 2X	95.4	0.0	1.4	0.0	40.5	90
DE KALB XL-18	E 2X	95.4	0.0	0.7	0.0	30.0	81
FUNK'S G-4224	E M2X	94.7	0.0	3.6	0.0	26.2	76
DE KALB EX1615	E 2X	94.6	0.0	1.5	0.0	27.2	79
SEEDTEC CX8154	L M2X	94.2	0.0	3.7	0.0	29.6	83
SEEDTEC 7007	M 2X	91.6	0.0	0.7	0.0	26.4	80
INTERSTATE 872	M 2X	86.0	0.0	4.5	0.0	22.4	85
INTERSTATE 784	E 4X	85.2	0.0	3.5	0.0	21.9	84
INTERSTATE 863	M 3X	79.8	0.0	8.5	0.0	20.1	88
Means		107.4		1.8		29.6	
LSD (.05)		12.4			C.V. - % =	8.3	

Table 17. Area D3 2-, 3-, and 4-year yield, moisture and stalk lodging averages of corn hybrids, 1979-1982.

BRAND AND VARIETY	ACRE YIELD, B/A			STK LODGING, PCT			GRAIN MOIST, PCT		
	4-YR	3-YR	2-YR	4-YR	3-YR	2-YR	4-YR	3-YR	2-YR
ASGROW RX 511		106	119		2	2		23	25
CARGILL 862		88	101		3	4		24	27
CENEX 2108		100	109		3	4		25	27
CURRY SC-1424		107	119		1	1		27	30
DE KALB XL-18		90	99		1	0		24	27
DE KALB XL-25A	104	94	103	3	3	2	23	24	26
DE KALB XL-28			108			2			27
DE KALB XL-36			106			2			29
FUNKS G-4224	98	91	98	3	3	4	21	22	24
FUNKS G-4256		91	100		3	4		21	23
FUNKS G-4315			103			2			25
KELTGEN KS1020			108			0			30
KELTGEN KS95			111			1			25
LYNKS LX4100		97	105		2	2		25	27
LYNKS LX4210			113			0			30
MC CURDY 4664		94	103		4	5		22	24
MC CURDY 5225		95	105		1	1		24	26
MC CURDY 5596	108	97	109	4	5	4	28	29	33
MIGRO HP-201			106			2			22
MIGRO HP-277			105			0			24
MIGRO HP-360			113			2			27
NORTHRUP KING PX39		99	116		2	1		25	28
O'S GOLD SX6880		105	117		0	1		24	27
P-A-G SX181		94	104		4	5		22	24
PAYMASTER 2990			117			3			27
SDAES CHECK 2		99	106		4	4		25	27
SDAES CHECK 9		95	106		2	3		26	30
SEEDTEC CX8152			110			3			22
TOP FARM SX104		106	109		2	2		21	23
TOP FARM SX104A			115			2			28
TOP FARM SX99		94	107		3	3		22	24
KELTGEN KS104			112			1			27
SEEDTEC CX8154			107			3			27

Table 18. Listing of Hybrid Corn Entries Harvested and the Tables where the Results Appear.

Company and Brand	Variety	Tables
AgriGold Seed Co.	AG-6656	6
RR #5, Box 55	AG-6659	6
Boone, IA 50036	AG-6688	6
"AgriGold"	AG-6699	6
Asgrow Seed Co.	RX 40	8,9,10,11,12,13,14,15
700 Portage Road	RX 355	8,9,14
Kalamazoo, MI 49001	RX 511	8,9,10,11,12,14,15,16,17
"Asgrow"	RX 610	6,10
	RX 622	10
	RX 777	6,7
Cargill Seeds	426	12,13,14,15
P.O. Box 328	834	12,13,14,15
St. Peter, MN	861	8,14
"Cargill"	862	6,8,9,12,13,14,15,16,17
	872	6,7,8,9,14,16
	921	6,7,10,11
	924	6,7,10,11
	949	10,16
Cenex Seeds	2098	8,12
P.O. Box 43089	2106	8,12,14,15,16
St. Paul, MN 55164	2108	10,11,12,14,15,16,17
"Cenex"	2110	16
	2110A	14
	2114	6,7,10
	2115	6
Circle Seed Hybrids	CS-201	14,16
P.O. Box 45	CS-207	14,16
Albion, NE 68620	CS-210	14,16
"Pivot Power"	CS-2155	14,16
	CS-2355	14,16
	CS-4988	14,16
Crows Hybrids	444	6
RR 2, Box 7		
Centerville, SD 57014		
"Crows"		
Curry Seed Co.	SC-1410	16
P.O. Box 517	SC-1420	14,15,16
Elk Point, SD 57025	SC-1424	6,7,12,13,14,15,16,17
"Curry"	SC-1425	14,16
	SC-1452	6
	SC-1455	6,7,12,13,14,15
	SC-1490	6
Curtis Seed Co.	439	12
P.O. Box 301	530	6,7,10,11
Vermillion, SD 57069	601	6,7
"Curtis"	602	6,10
Disco Seeds, Div Williams Corp.	DS5433	6
P.O. Box 640	DS5519	6,14
Mitchell, SD 57301 "Disco"	DS5605	12,14
Wilson Hybrids, Inc.	11008	6,10
P.O. Box 391	1500	6,7,10,11
Harlan, Iowa 51537	1600	6,7,10,11
"Wilson"	1600A	6,7,10,11
DeKalb AgResearch, Inc.	XL-8	8,14
Sycamore Road	XL-13	8,9
DeKalb, IL 60115	XL-18	8,9,12,13,16,17
"DeKalb"	XL-25A	8,9,14,15,16,17
	XL-28	8,9,10,12,13,14,15,16,17
	XL-32A	10,11,12
	XL-36	10,11,12,13,14,15,16,17
	XL-55A	6,7
	XL72AA	6
	XL-314	12,16
	EX1112	8
	EX1212	14
	EX1615	14,16
	EX2324	10,12
	EX4040	10
	EX4345	6,10
	EX6261	6
Farm Bureau Seed	FB94	8,12
108 So. 8th St., Box 147		
Olivia, MN 56277		
"Farm Bureau"		
Fontanelle Hybrids	370	16
Rt 1, Box 18	420	10,11
Nickerson, NE 68044	428	10
"Fontanelle"	435	6,10,11
	580	6
Funk Seeds International, Inc.	G-4224	16,17
P.O. Box 2911	G-4256	16,17
Bloomington, IL 61701	G-4315	8,12,13,14,15,16,17
"Funk's"	G-4342	6,8,12,14,16
	G-4435	6,7
	G-4438	6
	G-4522	6,7
Green Acres	793	10
RR #2	1116	10
Hartington, NE 68739	3000	10,11
"Green Acres"		
Heneke Hybrid Corn, Inc.	SX108	6,10,14
Box 306	SX109	6,12,14
Grinnell, IA 50112	SX110	6,7,12
"Tall Corn"	SX113	6,7,14
Interstate Seed Co.	784	6,12
P.O. Box 470	842	12
Fargo, ND 58107	844	8
"Interstate"	853	8
	863	16
	872	16
	923	10
	932	6,10
Stauffer Seeds	606wx	8
1323 23rd St. So. #1	S3242	12,14
Fargo, ND 58103	S3306	8,12,14
"Stauffer"	S4402	8
	S5260	8
	S5602	8,14
	S5650	8

Table 18 (cont). Listing of Hybrid Corn Entries Harvested and the Tables where the Results Appear.

Company and Brand	Variety	Tables
Kaltenburg Seeds	KX55	8
5506 Hwy 19, RR 2	KX61	6,7,8,10,11
Waunakee, WI 53597	KX67	6,7,10,11
"Kaltenburg"	KX73	6,7
	KX77	6
Keltgen Seed Company	KS93	8,16
Box A	KS95	8,9,10,11,12,14,15,16,17
Olivia, MN 56277	KS96	8,9,16
"Keltgen"	KS101	8,10,11,12,13,14,16
	KS102	12,13,14,15
	KS1020	8,9,10,11,12,13,14,15,16,17
	KS104	8,9,10,11,12,13,14,15,16,17
	KS107	10,14,15
	KS112	6,7
	KS114	6,7
	KS115	6,7
	KS116	6
King's Western Seeds, Inc.	KX-49	8,12
P.O. Box 947	KX-52	10,11
Huron, SD 57350	KX-55	12,13
"Western"	KX-57	10,16
	KX-59	6,14,16
	KX-66	6,7
	KX-70	6,7
	KX-420	8,14,16
Lynks Seeds	LX4040	8,9
P.O. Box 637	LX4075	8,9
Marshalltown, IA 50158	LX4100	8,9,10,11,16,17
"Lynks"	LX4210	6,7,8,9,10,11,16,17
	LX4225	6,8,10,16
	LX4232	6,16
	LX4315	16
	LX4315A	6,16
Migro	HP 201	16,17
P.O. Box 2955	HP 266	16
Mission, KS 66201	HP 277	16,17
"Migro"	HP 360	6,7,10,11,16,17
	HP 401	6,7,10
	HP 470	6,7,10,11
	HP 555	6,10
McCurdy Seed Co.	4664	14,15,16
P.O. Box 66	4855	14,15
Fremont, IA 52561	4956	14,15
"McCurdy"	5225	16
	5596	16
	6262	6,7
	6475	6,7
	6555	6,7
	80-71	14,16
	81-3	14,16
	81-42	6
South Dakota	Check #1	6,7
Agricultural Experiment	Check #2	6,7,8,9,16,17
Station	Check #4	10,11,12,13
"SDAES"	Check #9	6,7,10,11,16,17
	Check #10	8,9,10,11,12,13,14,15
	Check #11	8,9,10,11,12,13
Northrup King Co.	PX39	14,15,16,17
4124 Quebec Ave. N. #205	PX69A	10,11
New Hope, MN 55427	PX74	6,7
"Northrup King"	PX9288	12,14,15
	PX9353	10,12,14,16
	PX9415	6,10,16
	PX9454	6,16
	PX9527	6,16
O's Gold Seed Co.	1170A	8
P.O. Box 460	2321	14
Parkersburg, IA 50665	2330	14,15
"O's Gold"	5500A	6,7
	6880	8,9,14,15,16,17
	6882	6,7
PAG Seeds	SX181	8,9,12,13,16,17
Box 1207	SX333	6,7
Fremont, NE 68025	SX397	6,7,10,11,14,15
"PAG"	EXP291511	8,10,12,14,16
Paymaster Seeds	2990	6,7,8,9,10,11,12,13,14,15,16,17
P.O. Box 307	4660	8,10,11,12,14,15,16
Belmond, IA 50421	4790	6,7,10
"Paymaster"	8201	6
DeKalb/Pfizer Genetics	T950	8,9,14,16
P.O. Box 166	T1000	6,8,10,12,14,15,16
Olivia, MN 56277	T1058	12
"Trojan"	T1100	6,7,10,11
Pioneer Hi-Bred Intn'l, Inc.	3377	6,10
7000 Pioneer Parkway	3707	6,8,10,16
Johnston, IA 50131	3732	6,8,10,12,14,16
"Pioneer Brand"	3747	12,14
	3901	8,12,14,16
	3906	8,12,14,16
Pride Company Inc.	3322	8,9,12,13
RFD Box 58	4422	8,12,14,16
Glen Haven, WI 53810	5523	6,8,10,12,14,16
"Pride"	6611	6,10,11,14
	6692	6,10
SeedTec International, Inc.	7006	8,10,12,14
P.O. Box 5522	7007	8,10,12,14,16
Fargo, ND 58105	7971	8,10,12,14,16
"SeedTec"	CX8152	8,9,10,12,14,16,17
	CX8154	8,9,10,12,14,16,17
Sigco Research, Inc.	0902	8,12
Box 289	1103	8,14,16
Breckenridge, MN 56520	2105	8,14,16
"Sigco"	2107	12,16
	3106	12,16
Top Farm Hybrids, Inc.	399	16
Box 850	SX94	8
Cokato, MN 55321	SX98	8,9
"Top Farm"	SX99	8,9,16,17
	SX104	8,9,10,11,12,13,14,15,16,17
	SX104A	10,12,13,14,16,17
	SX1098	8,16
	SX1105	8,10,12,14,16