

1982

EC82-105 Nebraska Corn Performance Tests 1981

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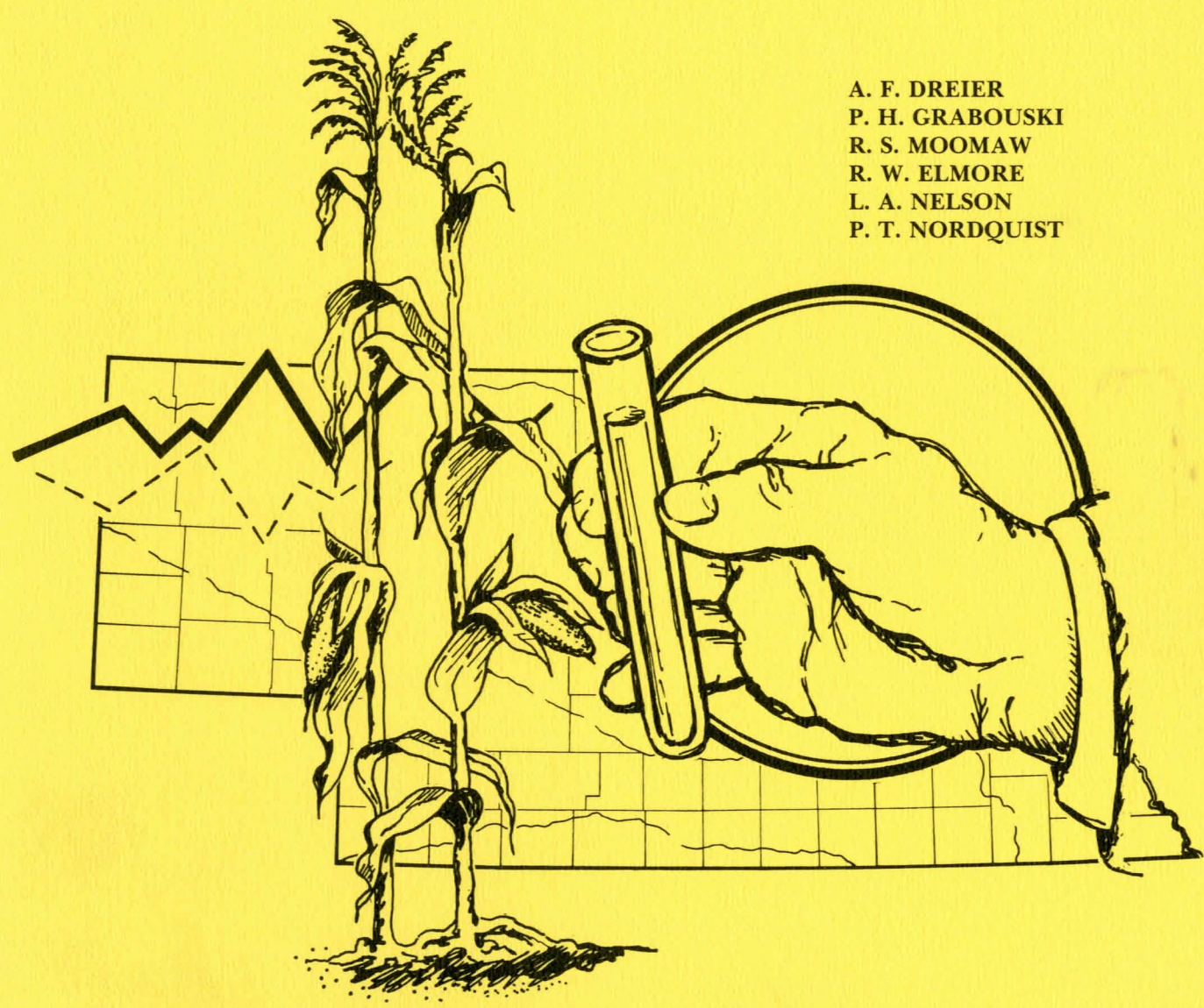
11/10/3 1982

JANUARY 1982

NEBRASKA COOPERATIVE EXTENSION SERVICE—E.C. 82-105

NEBRASKA CORN PERFORMANCE TESTS 1981

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Issued in furtherance of Cooperative Extension work, Acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture. Leo E. Lucas, Director of Cooperative Extension Service, University of Nebraska, Institute of Agriculture and Natural Resources.



EXTENSION CIRCULAR 82-105

January 1982

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ACKNOWLEDGMENT

This circular is a progress report of corn performance tests conducted by the Agricultural Experiment Station. Trials were conducted by the Agronomy Department and the Northeast, South Central, North Platte and Panhandle Stations. These Extension Circulars replace the Outstate Testing Series. Conduct of experiments and publication of results is a joint effort of the Agricultural Experiment Station and the Cooperative Extension Service.

Acknowledgment is made to County Extension Agents and others who assisted in these trials. The Plant Pathology Department cooperated in making stalk rot readings. Special credit is due to farmers who furnished test sites. Yield calculations and statistical analyses were performed by the Biometrics & Information Systems Center.

THE METRIC SYSTEM

The United States is committed to changing to the metric system of weights and measures. This conversion will take time and there will be some confusion until the metric system becomes more familiar. Measurement data in this circular are given in commonly used U.S. units followed by the metric units in parentheses ().

Among the equivalents are:

1 millimeter (mm)	=	0.0394 inches
1 centimeter (cm)	=	0.394 inches
1 hectare (ha)	=	2.471 acres
1 kilogram (kg)	=	2.205 pounds
1 hectoliter (hl)	=	2.838 bushels
1 metric ton (t)	=	2,204.6 pounds

Conversion factors are as follows:

mm	=	inches x 0.254
cm	=	inches x 2.54
ha	=	acres x 0.405
kg	=	pounds x 0.454
kg/ha	=	bu/A x 62.78 (56# bu)
kg/hl	=	lbs/bu x 1.287
metric tons	=	bu x .0254 (56# bu)

Table A. Location, cooperators and dates of planting and harvest. Nebraska Corn Performance Tests, 1981

NEBRASKA CORN PERFORMANCE TESTS 1981

Based on the November 1 yield estimate, Nebraska corn production in 1981 was 772.8 million bushels. Recent yields were as follows (bu/A).

	1976	1977	1978	1979	1980	1981
State	85.0	99.0	112.0	115.0	85.0	112.0
Irrigated	112.0	116.0	125.0	128.0	101.0	125.0
Dryland	40.4	64.2	84.7	87.6	48.2	79.0

The 1981 acreage harvested for grain was 6,900,000 of which 4,950,000 were irrigated and 1,950,000 nonirrigated.

April was generally warmer with less than normal rainfall. Corn planting began earlier than normal. Cool wet weather in May slowed planting to near normal in late May. June was generally dry with temperatures near or slightly warmer than average. July temperatures were slightly below normal. Rainfall was above normal. However, many areas of eastern Nebraska were under moisture stress before late July rains provided relief. Southwest Nebraska had more than adequate moisture all season.

August temperatures were 2.0 to 3.3 degrees below normal in all sections of Nebraska with above normal precipitation in all areas. Corn silked at the normal time. By the end of August, the crop was about one week behind normal. High grain moisture slowed harvest. Cool wet weather during October was unfavorable for drying and harvest. Harvest progress did not reach the normal completion rate until late in October.

Twenty corn performance tests were planted in 1981. Locations are shown on the map (Page 4). Names of cooperators and dates of planting and harvest are shown in Table A.

Tests included two types of entries: Experiment Station open-pedigree released and/or experimental combinations and hybrids entered by seed producers under brand designations. Seed was furnished by producers from lots of their selection.

These trials were conducted to provide yield and other information about some of the corn hybrids offered for sale in Nebraska. A fee was charged to cover a portion of the cost of conducting tests. Entry was on a voluntary basis and hybrids were selected by the seed producer. Each was limited to four hybrids at each location.

The average performance of all hybrids at each test location is shown in Table B. Some experiments were planted thick and later thinned to the desired stand. Equal numbers of seeds were planted for all hybrids. The plant population represents the average harvested plant population. Individual plots were two rows wide and 15 to 35 feet long.

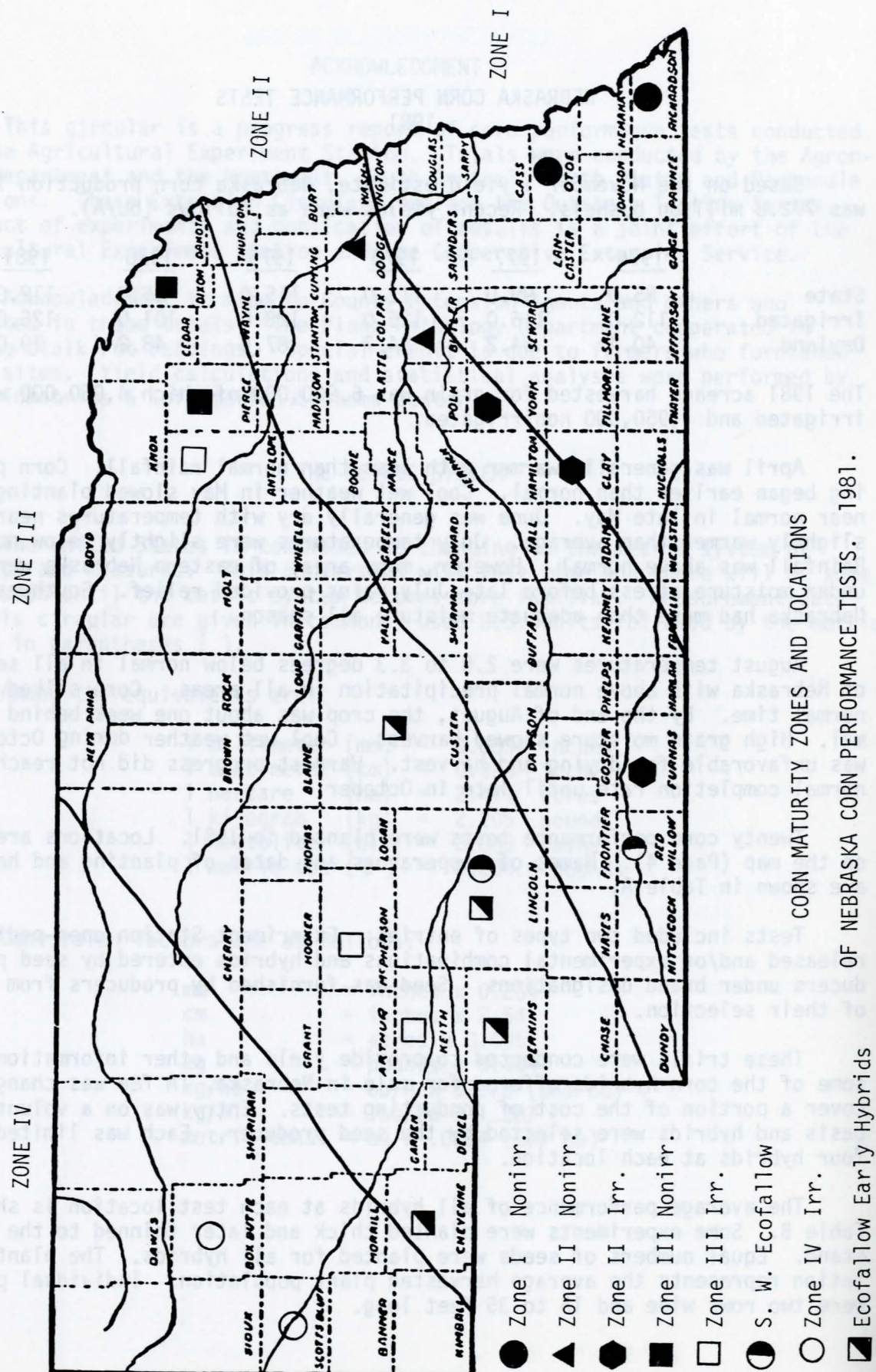


Table A. Location,cooperators and dates of planting and harvest. Nebraska Corn Performance Tests. 1981.

Location	Cooperator	Planted	Harvest
Zone I Nonirrigated			
Richardson	Lyle Fritz, Verdon	May 28	Nov. 11
Otoe	Norman Rohlfing, Talmadge	May 6	Nov. 9
Zone II Nonirrigated			
Dodge	Jerome Emanuel, North Bend	May 2	Oct. 27
Butler	Bill Peters, Surprise	May 14	Oct. 30, Nov. 6
Zone II Irrigated			
York	Gary Stahr, York	April 30	Nov. 9
Clay	South Central Station	May 2	Oct. 20
Furnas	Gene Glanzer, Holbrook	May 12	Oct. 19
Zone III Nonirrigated			
Dixon	Northeast Station	April 30	Oct. 19
Pierce	Vernon Hickelman, Randolph	May 15	Nov. 10
Zone II Irr. Northeast			
Antelope	Coulter Brothers, Neligh	May 5	Oct. 22
Southwest Ecofallow			
Lincoln	North Platte Station	June 4	Nov. 4
Red Willow	Paul Shaffert, Bartley	May 30	Oct. 15
Zone III Irr. W. Central			
McPherson	Sandhills Ag. Lab.	May 22	Nov. 16
Keith	Charles Flaming, Paxton	May 1	Oct. 7
Zone IV Irrigated			
Scotts Bluff	Panhandle Station	May 5	Oct. 29
Box Butte	Northwest Ag. Lab.	April 30	Oct. 28
Early Ecofallow			
Cheyenne	High Plains Ag. Lab.	April 29	Oct. 23
Lincoln	North Platte Station	June 4	Oct. 27
Custer	Ron Schmidt, Merna	May 15	Oct. 6
Perkins	David Softley, Grant	May 27	Oct. 22

Table B. Average performance of hybrids at each test location. 1981.

Location	Row spacing inches	Plants per hill no.	Hill or plant spacing inches	Plants per acre no.	Yield C.V. %	Grain 1/ yield bu/A	Harvest moisture %	Broken plants %	Dropped ears %	Yield 2/ moisture correlation r
Zone I Nonirrigated Richardson Otoe	38 36	1 1	12 12	13,756 14,520	19.5 10.7	79.7 119.8	19.6 17.7	7.4 3.2	0.4 0.9	0.46** 0.44**
Zone II Nonirrigated Dodge Butler	40 38	2.2 2.3	30 30	11,500 12,665	18.9 10.7	69.2 90.9	19.7 20.9	0.6 0.5	1.8 0.4	0.48** 0.61**
Zone II Irrigated Clay York Furnas	30 30 36	1 1 1	8.8 9.1 7.3	23,648 23,088 23,960	12.7 14.6 9.1	166.3 163.2 134.5	24.2 20.4 20.7	0.9 0.1 ----	0.3 0.2 0.1	0.42** 0.42** 0.51**
Zone III Nonirrigated Northeast Dixon Pierce	30 30	1 1	15.2 15.9	13,791 13,156	11.2 13.4	99.1 85.3	19.5 18.0	10.4 2.0	0.8 1.7	-0.10 0.13
Zone III Irrigated Northeast Antelope	30	1	10.5	19,975	8.2	144.8	20.2	8.9	0.7	0.30**
Southwest Ecofallow Lincoln Red Willow	30 38	1 1	15.9 13.2	13,170 12,543	10.0 9.8	119.6 143.4	26.4 25.7	1.0 0.4	1.1 0.3	-0.37* 0.54**
Zone III Irrigated West Central McPherson Keith	30 30	1 1	8.4 8.4	24,970 24,970	13.9 9.7	118.7 168.6	18.9 21.9	1.7 0.4	0.2 0.1	0.06 0.77**
Zone IV Irrigated Scotts Bluff Box Butte	30 30	1 1	8.4 8.6	24,761 24,248	12.8 11.6	163.2 159.5	22.7 25.0	0.0 0.0	0.0 0.0	0.15 -0.15
Early Ecofallow Cheyenne Lincoln Custer Perkins	30 30 36 30	1 1 1 1	26.4 15.8 16.3 18.7	7,914 13,273 10,686 11,208	16.6 10.1 11.8 12.8	50.8 122.0 103.0 99.1	23.0 22.0 25.7 19.4	0.0 1.3 18.1 0.5	0.0 0.8 3.0 0.4	-0.72** -0.38** 0.55** 0.22

1/ Hand harvest, Lincoln, Red Willow, Custer, Perkins. Others machine harvested.

2/ Correlation between moisture at harvest and acre grain yield, * significant (5% level), ** highly significant (1% level). Negative values indicate that lower grain moisture was associated with higher yields.

Yields shown are averages of four or more replicated plots at each location. Plots were either hand or machine harvested and shelled in the field. Grain moisture determinations were made on all replications of each experiment by oven drying or electronic methods. Grain yields are expressed on a 15.5% moisture basis.

Stalk rot readings were taken previous to harvest in Clay and Adams Counties. Plants were squeezed in the first fully elongated internode above the brace roots. If a stalk would crush by squeezing it was listed as having stalk rot. Periodic examinations of crushed stalks were made to insure that stalk rot was present. Counts were made in each of 4 replications. Percentages reflect disease incidence and not disease severity. The variability of this type of data is rather high. Many factors affect the incidence of stalk rot from year to year. Among these are temperature, soil moisture, soil type, fertilizer program, plant population, and row spacing as well as hybrid constitution and maturity.

Variations in soil fertility, moisture conditions and other factors are found in each test area. This makes it impossible to measure yielding ability of hybrids with absolute accuracy. For this reason, small yield differences have little meaning. A statistical measure of differences required for significance is given in each table. These differences are computed at the 5% and 25% levels of significance. At the 5% level, a difference of that magnitude would be expected once in twenty trials through chance alone. At the 25% level, a difference as large or larger would be expected by chance alone in one of four trials.

In these experiments, many hybrids had essentially the same grain production. Performance of hybrids varies with seasonal conditions, and great care should be used in interpreting the results of a single year's tests. Earlier-maturing hybrids are favored in some seasons while later ones perform best in others. Some hybrids are able to withstand unfavorable weather better than others which may do well under optimum growing conditions. Performance over a period of years should give a much better measure of adaptation. Harvest moisture, stalk strength, and resistance to insects and diseases also are factors which must be considered in selecting hybrids.

The brand name, hybrid designation and areas where grown for each 1981 entry are shown in Table C. Names and addresses of entrants are shown in Table D.

The parentage of open-pedigree hybrids included in these experiments is as follows:

Nebr. 611	N7A x Mo17
Nebr. 714	B73 x N132
Nebr. 715	N139 x B73

The inbred line, N139 was released in 1979.

Table C. List of entries, type of cross and tables in which data are reported. 1981.

Brand	Hybrid	Tables	Brand	Hybrid	Tables
-----	Nebr. 611 (SX)	1,2,3,4,5,6,7	EK Premium	EK 7700 (SX)	8,9
-----	Nebr. 714 (SX)	1,2,3, 6	EK Premium	EK 7760 (SX)	6, 8,9
-----	Nebr. 715 (SX)	1,2,3	EK Premium	EK 7770 (SX)	1,2, 4,5,6,7,8,9
Acco Paymaster	UC 2951 (SX)	8	EK Premium	EK 7780 (SX)	4,5,6,7,8,9
Acco Paymaster	UC 2990 (SX)	7,8	EK Premium	EK 7785 (SX)	2, 4,5,6
Acco Paymaster	UC 6990 (SX)	3	EK Premium	EK 8800 (SX)	1,2,3,4,5, 7
Acco Paymaster	UC 7251 (SX)	1,2,3	EK Premium	EK 8860 (SX)	1,2,3, 7
Acco Paymaster	UC 8201 (SX)	1,2,3,4,5 7	EK Premium	EK 9900 (SX)	3
Acco Paymaster	X94790 (SX)	2,3,4,5 7	EK Premium	EK 9910 (SX)	1
Asgrow	RX511 (SX)	6,7,8,9	EK Premium	EK 9920 (SX)	3
Asgrow	RX777 (SX)	1,2, 4,5,6	Federal	FT44 (3X)	4,5
Asgrow	RX858 (SX)	1,2,3, 7	Federal	FX39 (SX)	3
Asgrow	RX90 (SX)	1, 3,4,5, 7	Fontanelle	330 (SX)	8
Bo-Jac	117 (SX)	8	Fontanelle	420 (SX)	4,5, 7,8
Bo-Jac	214 (SX)	8	Fontanelle	435 (SX)	4,5, 7
Bo-Jac	37 (SX)	1,2 8,9	Fontanelle	580 (SX)	1,2,3,4,5, 7
Bo-Jac	432 (SX)	2,3, 7,8	Fontanelle	590 (SX)	1,2,3
Bo-Jac	452 (SX)	2,3, 7	Fontanelle	611 (SX)	1, 6
Bo-Jac	462 (SX)	7	Fruendt	SX45A (SX)	3
Bo-Jac	56A (SX)	1, 3	Fruendt	SX50 (SX)	3
Bo-Jac	562 (SX)	1,2,3, 7	Fruendt	SX60 (SX)	3
Bo-Jac	923 (SX)	1	Fruendt	SX80	1
Cargill	436 (3X)	8	Funk's	G-4256 (3X)	8
Cargill	832 (SX)	8	Funk's	G-4435 (MSX)	7
Cargill	834 (SX)	8	Funk's	G-4450 (MSX)	6
Cargill	862 (SX)	8	Funk's	G-4522 (MSX)	2, 4,5
Cargill	921 (SX)	3,4,5, 7	Funk's	G-4673 (MSX)	3
Cargill	924 (SX)	2,3,4,5, 7	Funk's	G-4733 (MSX)	1
Cargill	949 (SX)	1,2,3,4,5,6	Gold Tag	2006 (SX)	3, 7
Cargill	967 (SX)	1,2,3, 6	Gold Tag	3006 (SX)	3, 7
Cenex	2106 (SX)	8,9	Gold Tag	3008 (SX)	3
Cenex	2108 (SX)	4,5,6, 8	Gold Tag	3020 (SX)	3
Cenex	2114 (SX)	1,2,3,4,5, 7	Gold Tag	4022 (SX)	1
Cenex	2119 (SX)	8	Golden Acres	T-E 6925 (SX)	3
Cenex	2124 (SX)	1,2,3	Golden Acres	T-E 6945 (SX)	2
Cenex	2157 (SX)	6, 8	Golden Acres	T-E 6995 (SX)	1,2,3
Cenex	2371 (SX)	2,3, 7	Golden Acres	T-E 6995-A (SX)	1,2,3
Cenex	2380 (SX)	1	GSA	GSA 2020	2,3,4,5,6,7
Cenex	3094	9	GSA	GSA 2120 (SX)	1,2,3,4,5,6,7
Circle Seed	C-S 203	4,5	GSA	GSA 2246 (SX)	1
Circle Seed	C-S 209	4,5, 7	GSA	2260 (SX)	2,3,4,5, 7
Circle Seed	C-S 210 (SX)	2, 4,5, 7	GSA	2300 (SX)	1,2,3
Circle Seed	C-S 212 (SX)	2,3, 7	GSA	2340 (SX)	1
Circle Seed	C-S 2152	2,3,4,5, 7	Hoegemeyer	SX2630 (SX)	3,4,5
Circle Seed	C-S 218	2,3	Hoegemeyer	SX2634 (SX)	3
Circle Seed	C-S 2182	3	Hoegemeyer	SX2644 (SX)	2,3,4,5
Crows	430 (SX)	2	Hoegemeyer	SX2675 (SX)	1
Crows	444 (SX)	2	Hoegemeyer	SX2700 (SX)	1,2,3
Crows	555 (SX)	2	Hoegemeyer	SX2840 (SX)	1
Crows	688 (SX)	3	Horizon	Exp. 211 (SX)	3, 7
Crows	690 (SX)	3	Horizon	131 (SX)	7,8
Curry	1420 (SX)	2	Horizon	206 (SX)	8
Curry	1422 (SX)	2, 4,5	Horizon	210 (SX)	8
Curry	1424 (SX)	3,4,5	Horizon	212 (SX)	1, 3,4,5, 7,8
Curry	1455 (SX)	3,4,5, 7	Horizon	861 (SX)	1,2, 4,5
Curry	1462 (SX)	2, 7	Horizon	870 (SX)	1,2,3,4,5, 7
Curry	150 (SX)	2,3,4,5, 7	Horizon	890 (SX)	1
DeKalb	EX6969	6	Kaltenberg	KX67	4,5
DeKalb	XL25A (SX)	9	Kaltenberg	KX73 (SX)	4,5
DeKalb	XL28 (SX)	4,5, 7,8,9	Kaltenberg	KX76 (SX)	4,5
DeKalb	XL32A (SX)	8	Lynks	LX 4040 (SX)	8
DeKalb	XL32AA (SX)	9	Lynks	LX 4075 (SX)	8
DeKalb	XL36 (SX)	8	Lynks	LX 4100 (SX)	8
DeKalb	XL55A (SX)	2, 4,5, 7,8	Lynks	LX 4127 (SX)	8
DeKalb	XL67 (SX)	2,3,4,5, 7	Lynks	LX 4210 (SX)	3,4,5, 7
DeKalb	XL71 (SX)	3	Lynks	LX 4305 (SX)	4,5, 7
DeKalb	XL72AA (SX)	1,2,3,4,5, 7	Lynks	LX 4315 (SX)	1, 3,4,5, 7
DeKalb	XL73 (SX)	1,2,3	Lynks	LX 4355 (SX)	3,4,5, 7
DeKalb	XL74A (MSX)	1	Lynks	LX 4364 (SX)	1,2
DeKalb	XL74B (SX)	1	Lynks	LX 4500 (SX)	1

Continued

Table C. Concluded.

Brand	Hybrid	Tables	Brand	Hybrid	Tables
McCurdy	4664 (SX)	8	Prairie Stream	SX50 (SX)	3
McCurdy	4855 (SX)	8	Prairie Stream	SX66 (SX)	3
McCurdy	5225 (SX)	7,8	Prairie Stream	SX68 (SX)	3
McCurdy	5596 (SX)	2, 4,5, 8	Sokota	TS 60 (SX)	8
McCurdy	6262 (SX)	2, 4,5	Sokota	TS 62A (SX)	8
McCurdy	6475 (SX)	7	Sokota	TS 75 (SX)	3,4,5, 7
McCurdy	6555 (SX)	2,3,4,5, 7	Sokota	TS 82 (SX)	3, 7
McCurdy	7440 (SX)	1,2, 4,5	Sokota	660 (SX)	3,4,5, 7,8
McCurdy	7676 (SX)	1, 3	Sokota	840 (SX)	3, 7
McCurdy	8150 (SX)	1	Stauffer Seeds	205 (SX)	9
McCurdy	84 (SX)	3, 7	Stauffer Seeds	3242 (SX)	8
McCurdy	84AA (SX)	1, 3	Stauffer Seeds	3306	9
MFA	5802 (SX)	1, 3	Stauffer Seeds	375 (SX)	6
MFA	6707 (SX)	1, 3	Stauffer Seeds	4402 (SX)	8
MFA	6708 (SX)	1	Stauffer Seeds	5260 (SX)	7
Migro	HP-20 (SX)	8,9	Stauffer Seeds	5602	4,5, 8
Migro	HP-277 (SX)	8,9	Stauffer Seeds	6389 (SX)	4,5,6,7
Migro	HP-360 (SX)	2, 4,5,6,7,8,9	Stauffer Seeds	6595A (SX)	7
Migro	HP-401 (SX)	2, 4,5	Stauffer Seeds	6596	2,3,4,5
Migro	HP-44 (SX)	1,2,3, 6,7	Stauffer Seeds	76S (SX)	1,2,3,4,5
Migro	HP-470 (SX)	1,2,3,4,5,6,7	Stauffer Seeds	7759 (SX)	1,2,3
Migro	M-0707 (SX)	1	Stauffer Seeds	7795 (SX)	1,2,3
Migro	M-2022X (SX)	4,5,6,7,8,9	Stauffer Seeds	818 (SX)	1
Migro	SPX-49 (SX)	3	Stewart	6800 (MSX)	1
Migro	SPX-77 (SX)	1, 3	Stewart	7384 (SX)	1
NC +	1341 (SX)	8	Stewart	77 (SX)	1
NC +	2111 (SX)	8	Super Crost	2790 (SX)	4,5
NC +	3830 (SX)	4,5, 7	Super Crost	4337 (SX)	1,2,3,4,5
NC +	3990 (SX)	7	Super Crost	5440 (SX)	1,2,3
NC +	4155 (SX)	4,5,6,7	Super Crost	7600 (SX)	1,2,3
NC +	4666 (SX)	6	Super Crost	80052 (SX)	1,2,3,4,5
NC +	4710 (SX)	2,3,4,5,6	Super Crost	81061 (SX)	4,5
NC +	59 (SX)	1,2,3	Tall Corn	SX108 (SX)	2
NC +	8331 (SX)	1, 3	Tall Corn	SX1105 (SX)	4,5
Northrup King	PX 39 (SX)	8	Tall Corn	SX113 (SX)	4,5
Northrup King	PX 49 (SX)	8	Tall Corn	SX114 (SX)	2
Northrup King	PX 59 (SX)	7	Tall Corn	SX115 (SX)	3,4,5,6
Northrup King	PX 69A (SX)	2,3,4,5, 7	Tall Corn	SX120 (SX)	3, 6
Northrup King	PX 72 (SX)	1,2,3,4,5	Todd	MX73A (SX)	3,4,5
Northrup King	PX 74 (SX)	1,2,3,4,5	Todd	M5504 (SX)	2
Northrup King	PX 87 (SX)	1	Todd	M5505 (SX)	3,4,5, 7
Northrup King	X 6169 (SX)	4,5, 7	Todd	M95 (SX)	1,2
Northrup King	X 6668 (SX)	8	Trojan	TXS115A (SX)	1,2,3,4,5
Northrup King	X 6710 (MSX)	3	Trojan	T1000 (SX)	7,8,9
O's Gold	Exp. 25701 (SX)	1,2, 7	Trojan	T1058 (SX)	4,5,6,7, 9
O's Gold	1107 (SX)	8	Trojan	T1100 (SX)	2,3,4,5,6,7
O's Gold	1170A (SX)	4,5	Trojan	T1189 (SX)	1,2,3
O's Gold	3344 (SX)	1	Trojan	T1230 (SX)	1
O's Gold	5291 (SX)	1, 3	Trojan	T950 (SX)	8
O's Gold	5500A (SX)	3, 7	USS	1010 (SX)	1
O's Gold	5500AB (SX)	3	USS	2020 (SX)	1
O's Gold	6880 (SX)	4,5, 8	WAC	917 (SX)	1,2,3, 6
O's Gold	6882 (SX)	2, 4,5, 7	WAC	918 (SX)	1,2,3, 6
PAG	SX 157 (SX)	8	WAC	920C (SX)	1,2,3, 6
PAG	SX 177 (SX)	8	Wilson	1040 (SX)	1,2
PAG	SX 181 (SX)	8	Wilson	1100b (SX)	6
PAG	SX 189 (SX)	8	Wilson	1300 (SX)	6
PAG	SX 333 (SX)	1,2,3,4,5, 7	Wilson	1600 (SX)	3,4,5, 7
PAG	SX 351 (SX)	1,2,3,4,5,6,7	Wilson	1600a (SX)	4,5, 7
PAG	SX 397 (SX)	1,2,3,4,5,6,7	Wilson	1800 (SX)	2,3,4,5
Payco	Exp. SX82438 (SX)	4,5, 7	Wilson	1800a (SX)	1,2,3
Payco	Exp. SX90059 (SX)	3	Winterset Hybrid	SX43 (SX)	8
Payco	SX 599 (SX)	8	Winterset Hybrid	SX63	3,4,5, 7,8
Payco	SX 620 (SX)	8	Winterset Hybrid	SX66	2, 4,5
Payco	SX 756 (MSX)	8	Winterset Hybrid	SX68 (SX)	1,2,3,4,5, 7
Payco	SX 788 (SX)	8	Winterset Hybrid	SX89 (SX)	1,2,3
Payco	SX 844 (SX)	4,5, 7			
Payco	SX 860 (SX)	2,3,4,5, 7			
Payco	SX 990 (SX)	1,2,3,4,5, 7			
Payco	SX 1000 (SX)	1, 3			

SX = single cross, 3X = three way cross, DX = double cross, MSX = modified single cross.

Table D. Entrants. Nebraska Corn Performance Tests. 1981.

Brand	Entrant	Address
-----	Agricultural Experiment Station	Lincoln, NE 68583
Acco Paymaster	Acco Paymaster Seed	Belmond, IA 50421
Asgrow	Asgrow Seed Company	Kalamazoo, MI 40001
Bo-Jac	Bo-Jac Hybrid Corn Co.	Mt. Pulaski, IL 62548
Cargill	Cargill Seeds	Minneapolis, MN 55440
Cenex	Cenex	St. Paul, MN 55164
Circle Seed	Circle Seed Hybrids	Bassett, NE 68620
Crows	Crows Hybrid Corn Co.	Milford, IL 60953
Curry	Curry Seed Co.	Elk Point, SD 57025
DeKalb	Dekalb AgResearch, Inc.	DeKalb, IL 60115
EK Premium	EK Premium Hybrid Corn	Berwick, IL 61417
Federal	Federal Hybrids	Marion, IA 52302
Fontanelle	Fontanelle Hybrids	Nickerson, NE 68044
Frund	Frundt Seed Company	Pella, IA 50219
Funks	Funk Seed International	Bloomington, IL 61701
Gold Tag	Ferry-Morse Seed Company	Geneseo, IL 61254
Golden Acres	Taylor-Evans Seed Company	Tulia, TX 79088
GSA	Growers Seed Association	Lubbock, TX 79408
Hoegemeyer	Hoegemeyer Hybrids	Hooper, NE 68031
Horizon	Horizon Seeds	Lincoln, NE 68501
Kaltenberg	Kaltenberg Seed Farms	Waunakee, WI 53597
Lynks	Lynks Seeds	Marshalltown, IA 50158
McCurdy	McCurdy Seed Company	Fremont, IA 52561
MFA	MFA Seed Division	Columbia, MO 65201
Migro	North American Plant Breeders	Mission, KS 66201
NC +	NC + Hybrids	Lincoln, NE 68504
Northrup King	Northrup King Company	Norfolk, NE 68701
O's Gold	O's Gold Seed Company	Parkersburg, IA 50665
PAG	PAG Seeds	Minneapolis, MN 55440
Payco	Payco Seeds	Dassel, MN 55325
Prairie Stream	Prairie Stream Farms, Inc.	Frankfort, IN 46041
Sokota	Sokota Hybrid Producers	Brookings, SD 57006
Stauffer	Stauffer Seeds	Phillips, NE 68865
Stewart	Stewart Hybrids, Inc.	Princeville, IL 61559
Super Crost	Edw. J. Funk & Sons Inc.	Kentland, IN 47951
Tall Corn	Henekee Hybrid Corn Company	Grinnell, IA 50112
Todd	Todd Hybrid Corn Company	Burlington, IN 46915
Trojan	Pfizer Genetics	Doniphan, NE 68832
USS	USS Agr. Chemicals	Atlanta, GA 30301
WAC	Seedtec International Inc.	Hereford, TX 79045
Wilson	Wilson Hybrids, Inc.	Harlan, IA 51357
Winterset	Winterset Hybrid Company	Winterset, IA 50273

Results

Data tables for each zone are shown in sections. The 1981 zone performance is followed by two-, three-, four-, and five-year data (as available).

These trials were conducted on an area basis with two or more experiments in most zones. In many cases, relative hybrid performance varies with location within zones. Variety x location interactions were highly significant in all zones in 1981. In zone analyses, the hybrid x location interaction mean square was used to test the significance of hybrid differences.

The correlation or r value for the relationship between moisture and yield for each 1981 experiment is shown in Table B. Higher grain moisture was significantly related to higher yield at 11 locations. Lower grain moisture was related to higher yield at 3 locations and there was no significant relationship at 6 locations. Even though the correlations were significant, they generally do not indicate that maturity was the major factor in yield. Moisture at harvest is an important consideration in hybrid selection as it does affect time of harvest and drying costs.

Corn growing conditions in Nebraska vary greatly with years. The 1978 and 1979 seasons were especially favorable. Heat stress was severe in 1980. In 1981 conditions varied greatly with location. Period-of-years averages provide a measure of hybrid performance over a wide range of growing conditions. With rapid turnover of hybrids, use of shorter periods becomes necessary in order to include newer hybrids.

Zone I Nonirrigated

Data were obtained from two 1981 trials (Table 1a). The Richardson County trial was planted late under dry conditions. Dry weather following planting caused some stand nonuniformity. This along with heavy weed growth after late July rains resulted in high plot variability. In Otoe County, stands and early growth were good. This plot was under some heat and drought stress in early July but final yields were good. Later maturity was correlated with higher grain yield.

Production of hybrids in trials since 1977 is shown in Tables 1b and 1c. Sixteen hybrids produced a five-year average grain yield of 105 bushels per acre. Seasonal performance was as follows: 1977 76, 1978 132, 1979 157, 1980 61, and 1981 95 bushels per acre. These indicate the wide range of normal conditions.

Zone II Nonirrigated

Two trials were harvested in this area (Table 2a). The Dodge County trial was planted early and was in an area of moisture stress all season. Plot variability was high. In Butler County early season moisture was lacking. Plants grew short with low ear placement. Late July and August moisture resulted in production of good yields. Higher grain moisture was correlated with higher grain yield in both trials.

Period-of-years data for East Central Nebraska are shown in Tables 2b and 2c. Twelve hybrids produced a five-year average of 96 bushels per acre. Yearly performance was as follows: 1977 109, 1978 141, 1979 119, 1980 29 and 1981 82 bushels per acre. With this wide range of conditions, hybrid performance over years was inconsistent and yield differences lacked significance.

Zone II Irrigated

Three trials were located in this area (Table 3a). Yields were high in Clay and York Counties. High winds caused heavy stalk lodging in Furnas County. The plots were harvested in one direction with good recovery of downed plants. Grain moisture was correlated with yield in all three trials.

Performance in tests since 1977 is shown in Tables 3b, 3c, and 3d. Twenty one hybrids included in 1977-1981 trials had average annual yields as follows: 1977 174, 1978 168, 1979 175, 1980 136 and 1981 157 bushels per acre. Stalk rot readings for these hybrids averaged 36% in 1978, 38% in 1979, 9% in 1980 and 11% in 1981.

Zone III Nonirrigated Northeast

Data from two tests are shown in Table 4a. Conditions in Dixon County were generally favorable. Stalk breakage was high. Dry weather in July reduced yields in Pierce County. Moisture and yield were not correlated in either of these experiments.

Period-of-years yield and other data are shown in Tables 4b and 4c. Annual average yearly yields of six hybrids in 1977-1981 trials were as follows: 1977 91, 1978 120, 1979 175, 1980 83 and 1981 88 bushels per acre.

Zone III Irrigated Northeast

Good yields were obtained in Antelope County (Table 5a). Unfavorable conditions at and after planting caused a reduction in plant population below that generally considered optimum. Western bean cutworm damaged this plot and corn borer caused an increase in stalk breakage.

Relative hybrid performance over years was fairly consistent. (Tables 5b and 5c). Six hybrids produced average yields as follows: 1977 172, 1978 148, 1979 193, 1980 173 and 1981 149 bushels per acre.

Southwest Ecofallow

Rainfall was above normal in southwest Nebraska and high yields were produced (Table 6a). Grain moistures were high. Under cooler conditions in Lincoln County, high grain moisture was correlated with lower grain yields. High yields were obtained in Red Willow County and higher grain moisture was correlated with higher grain yield.

Two-, three- and four-year performance data are shown in Table 6b. This is an area with wide fluctuations in conditions within and over years. Two hybrids included in 1978-1981 tests had average yields as follows: 1978 52, 1979 119, 1980 64 and 1981 129 bushels per acre.

Zone III Irrigated West Central

Two trials were conducted (Table 7a). The McPherson County trial lacked heat units needed for proper development. Growth was stopped by a freeze on September 14. High yields were produced in Keith County. Moisture at harvest was highly correlated with grain yield.

Period-of-years data are shown in Table 7b. Higher grain moisture was correlated with higher grain yields in 1975, 1977, 1978 and 1980. Early-maturing hybrids were highest in yield in 1974 and 1976.

Zone IV Irrigated

Excellent yields were produced in 1981 (Table 8a). Grain moisture and grain yield were not correlated.

Hybrids have been relatively consistent in two-, three-, and four-year average yields (Table 8b). Five hybrids included in tests since 1978 had average yields as follows: 1978 132, 1979 144, 1980 152 and 1981 159 bushels per acre.

Ecofallow Early Entries

These trials were designed to test some of the earlier hybrids under ecofallow. They are conducted over a wide range of growing conditions.

Results of experiments at four locations are shown in Table 9a. Moisture was generally above normal at all locations. Significant yield differences were obtained in individual trials and combined data from all. Higher moisture hybrids were highest in yield in Custer County. Lower grain moisture was correlated with higher yields in Cheyenne and Lincoln Counties.

Period-of-years data are included in Table 9b. One hybrid has been included in tests since 1978. Yields were as follows: 1978 27, 1979 67, 1980 50 and 1981 93 bushels per acre.

TABLE 1a. ZONE I NONIRRIGATED. SUMMARY. 1981.

BRAND	HYBRID	YIELD			1981 AVERAGE		
		AVERAGE BU/A	RICHARDSON BU/A	OTOE BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT
-----	NEBR. 611	91	58	114	18.6	7	0
-----	NEBR. 714	97	36	107	18.5	6	1
-----	NEBR. 715	106	87	124	19.4	4	0
ACCO PAYMASTER	UC 7251	105	92	117	18.2	5	1
ACCO PAYMASTER	UC 8201	102	38	115	17.3	6	1
ASGROW	RX777	98	80	115	18.4	10	0
ASGROW	RX858	92	79	105	19.0	2	1
ASGROW	RX90	104	89	118	18.4	2	2
BO-JAC	37	73	54	91	16.6	6	2
BO-JAC	56A	92	67	117	18.1	6	3
BO-JAC	562	114	99	129	19.5	7	1
BO-JAC	923	115	86	143	19.5	6	1
CARGILL	949	102	91	112	19.4	4	1
CARGILL	967	109	96	132	18.1	4	0
CENEX	2114	83	58	108	17.3	3	0
CENEX	2124	114	88	140	19.2	5	0
CENEX	2380	99	74	124	18.3	4	1
DEKALB	XL72AA	94	69	119	18.2	3	3
DEKALB	XL73	100	78	122	19.2	6	1
DEKALB	XL74A	98	77	118	19.3	7	0
DEKALB	XL74B	120	113	127	19.2	5	1
EK PREMIUM	EK 7770	67	43	91	17.6	6	0
EK PREMIUM	EK 8800	92	70	114	17.8	4	2
EK PREMIUM	EK 8860	95	77	112	19.3	8	0
EK PREMIUM	EK 9910	94	62	126	19.6	12	1
FONTANELLE	580	101	74	128	18.3	5	0
FONTANELLE	590	96	85	106	17.9	3	3
FONTANELLE	611	93	65	121	18.2	12	1
FRUNDT	SX80	95	71	118	19.1	9	1
FUNK'S	G-4733	112	89	135	20.1	4	1
GOLD TAG	4022	115	98	131	19.4	6	1
GOLDEN ACRES	T-E 6995	93	68	117	17.9	3	0
GOLDEN ACRES	T-E 6995-A	99	89	108	18.8	5	2
GSA	GSA 2120	74	71	76	17.9	1	1
GSA	GSA 2246	90	69	111	18.0	8	1
GSA	2300	102	78	126	17.7	9	2
GSA	2340	107	85	129	19.6	5	1
HOEGEMEYER	SX2675	90	60	119	18.9	15	0
HOEGEMEYER	SX2700	105	93	117	18.3	3	1
HOEGEMEYER	SX2840	88	62	114	19.3	9	1
HORIZON	212	75	60	90	17.5	2	1
HORIZON	861	100	64	136	18.2	10	0
HORIZON	870	85	69	101	18.1	5	2
HORIZON	890	113	84	141	19.2	5	1
LYNKS	LX 4315	80	79	81	17.5	2	1
LYNKS	LX 4364	96	77	115	18.0	6	0
LYNKS	LX 4500	106	80	131	19.2	6	1
MC CURDY	7440	98	75	120	18.2	7	0
MC CURDY	7676	120	103	136	19.0	3	1
MC CURDY	8150	112	102	122	20.0	2	2

CONTINUED

TABLE 1a. CONCLUDED.

BRAND	HYBRID	YIELD			1981 AVERAGE		
		AVERAGE BU/A	RICHARDSON BU/A	OTOE BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT
MC CURDY	84AA	114	90	138	19.5	6	2
MFA	5802	109	93	125	18.2	4	2
MFA	6707	98	68	128	18.2	5	0
MFA	6708	113	95	131	18.3	4	1
MIGRO	HP-44	100	86	113	18.0	5	4
MIGRO	HP-470	94	82	105	17.7	0	0
MIGRO	M-0707	116	110	121	19.3	3	0
MIGRO	SPX-77	109	82	135	19.3	6	2
NC+	59	88	67	109	18.3	6	2
NC+	8331	90	65	114	19.4	7	0
NORTHROP KING	PX 72	108	85	130	17.9	5	1
NORTHROP KING	PX 74	100	80	120	18.7	6	2
NORTHROP KING	PX 87	119	98	140	19.7	5	0
O'S GOLD	EXP. 25701	118	95	140	19.4	6	1
O'S GOLD	3344	100	69	131	19.6	13	0
O'S GOLD	5291	106	78	133	19.4	11	1
PAG	SX 333	99	76	122	17.9	2	1
PAG	SX 351	99	80	118	18.9	6	0
PAG	SX 397	89	83	94	17.6	10	1
PAYCO	SX 1000	94	58	130	19.2	9	1
PAYCO	SX 990	100	65	134	18.6	3	1
STAUFFER SEEDS	765	92	70	113	18.3	6	1
STAUFFER SEEDS	7759	116	95	137	18.2	2	1
STAUFFER SEEDS	7795	105	86	124	18.8	3	0
STAUFFER SEEDS	818	115	87	143	19.0	5	1
STEWART	6800	101	96	105	19.9	3	2
STEWART	7384	115	101	129	19.3	4	0
STEWART	77	108	93	122	19.5	4	0
SUPER CROST	4337	84	73	95	17.9	2	0
SUPER CROST	5440	97	82	112	18.4	4	1
SUPER CROST	7600	92	69	115	19.7	9	0
SUPER CROST	80052	93	71	114	18.5	12	0
TODD	M95	119	93	144	19.6	4	0
TROJAN	TXS115A	92	81	103	18.2	3	1
TROJAN	T1189	89	69	109	18.5	5	0
TROJAN	T1230	122	101	142	19.7	4	1
USS	1010	95	70	119	17.8	4	1
USS	2020	111	95	127	19.5	5	1
WAC	917	92	75	108	18.1	4	1
WAC	918	98	76	119	19.7	6	1
WAC	920C	104	78	129	18.0	5	1
WILSON	1040	89	61	116	18.2	13	0
WILSON	1800A	105	76	134	20.0	4	1
WINTERSET HYBRIDS	SX68	101	81	120	19.3	7	1
WINTERSET HYBRIDS	SX89	100	78	121	19.5	8	1
AVERAGE ALL ENTRIES		100.0	79.7	119.8	18.6	5.6	0.9
DIF. REQ. FOR SIG.	5%	20.3	21.7	17.9	1.0	1.6	6.2
	25%	11.9	12.8	10.5	0.6	0.9	3.6

TABLE 1b. ZONE I NONIRRIGATED. 1980-1981.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
2 YEAR AVERAGE					
-----	NEBR. 611	79	16.1	5	1
-----	NEBR. 714	78	16.2	3	0
-----	NEBR. 715	82	17.0	2	1
ACCO PAYMASTER	UC 7251	92	15.6	3	2
ACCO PAYMASTER	UC 8201	82	15.5	3	3
ASGROW	RX777	77	16.7	6	2
ASGROW	RX90	89	15.8	2	4
BO-JAC	923	90	17.2	5	1
CARGILL	949	83	15.8	2	3
CARGILL	967	84	16.1	3	1
CENEX	2114	69	15.1	3	0
CENEX	2380	78	16.0	2	2
DEKALB	XL72AA	77	16.0	1	4
DEKALB	XL74A	79	17.2	5	0
EK PREMIUM	EK 7770	63	15.6	3	0
EK PREMIUM	EK 8800	76	15.9	2	3
FONTANELLE	580	83	15.8	3	3
FONTANELLE	590	75	15.6	2	4
FONTANELLE	611	80	15.9	6	1
GOLD TAG	4022	88	17.0	4	2
GOLDEN ACRES	T-E 6995	73	16.1	2	3
GOLDEN ACRES	T-E 6995-A	78	16.0	3	4
GSA	GSA 2246	68	15.5	4	1
GSA	2300	80	15.4	5	3
GSA	2340	83	16.9	4	1
HOEGEMEYER	SX2700	75	15.8	2	4
HOEGEMEYER	SX2840	70	17.2	5	2
HORIZON	861	90	15.9	7	1
HORIZON	870	66	15.8	3	3
LYNKS	LX 4500	82	16.6	5	2
MC CURDY	7440	82	15.8	5	0
MC CURDY	84AA	87	17.1	3	2
MFA	5802	81	15.4	2	1
MFA	6707	88	15.7	3	0
MIGRO	HP-470	77	15.1	1	0
MIGRO	M-0707	90	16.9	2	1
MIGRO	SPX-77	85	17.2	7	1
NC+	59	69	15.8	3	3
NC+	8331	73	17.1	4	1
NORTHROP KING	PX 72	88	15.4	3	1
NORTHROP KING	PX 74	82	16.1	3	4
NORTHROP KING	PX 87	88	17.0	4	1
O'S GOLD	3344	89	15.8	7	1
PAG	SX 333	80	15.5	1	4
PAG	SX 351	75	16.3	3	1
STAUFFER SEEDS	76S	78	15.8	3	5
STAUFFER SEEDS	7795	90	16.7	2	1
STAUFFER SEEDS	818	91	16.9	5	0
SUPER CROST	5440	78	16.0	2	3
SUPER CROST	7600	78	17.0	6	2
SUPER CROST	80052	82	16.2	9	1
TODD	M95	89	16.8	3	0
TROJAN	TXS115A	72	15.9	2	4
TROJAN	T1189	78	16.4	4	1
TROJAN	T1230	90	17.4	4	2
WILSON	1040	79	15.8	8	1
WILSON	1800A	81	17.2	3	2
WINTERSET HYBRIDSX68		81	16.0	4	3
WINTERSET HYBRIDSX89		85	17.2	6	1
AVERAGE ALL ENTRIES		80.6	16.2	3.7	1.8
DIF. REQ. FOR SIG. 5%		N.S.	0.7	3.9	2.6
25%		9.8	0.4	2.3	1.5

TABLE 1c. ZONE I NONIRRIGATED. 1977-1981.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
3 YEAR AVERAGE					
-----	NEBR. 611	105	15.7	3	1
-----	NEBR. 714	106	15.7	3	0
-----	NEBR. 715	105	16.4	2	1
ACCO PAYMASTER	UC 8201	111	15.2	3	2
ASGROW	RX777	104	16.6	4	1
ASGROW	RX90	112	15.5	1	3
CARGILL	949	109	15.5	2	2
CARGILL	967	115	15.6	2	1
CENEX	2380	102	15.8	2	1
DEKALB	XL72AA	105	15.6	2	3
FONTANELLE	580	108	15.6	2	2
FONTANELLE	590	102	15.1	1	3
GOLDEN ACRES	T-E 6995	98	15.8	2	2
GOLDEN ACRES	T-E 6995-A	105	15.5	3	3
GSA	2300	104	15.2	4	2
HOEGEMEYER	SX2840	102	17.2	5	1
HORIZON	861	112	15.6	6	1
HORIZON	870	98	15.8	2	2
LYNKS	LX 4500	111	17.0	4	2
MC CURDY	84AA	114	17.2	2	2
MFA	5802	106	15.4	2	1
MIGRO	M-0707	113	17.1	1	1
MIGRO	SPX-77	112	17.4	5	1
NC+	59	101	15.5	3	3
NORTHROP KING	PX 72	112	15.3	3	1
NORTHROP KING	PX 74	108	15.7	2	3
NORTHROP KING	PX 87	113	16.9	3	1
O'S GOLD	3344	114	15.5	6	0
PAG	SX 333	109	15.4	1	2
PAG	SX 351	108	15.8	2	1
STAUFFER SEEDS	76S	104	15.6	3	3
STAUFFER SEEDS	7795	111	16.5	1	0
STAUFFER SEEDS	818	116	16.8	4	0
SUPER CROST	5440	101	15.6	2	2
TODD	M95	113	16.6	2	0
TROJAN	TXS115A	98	15.6	2	3
TROJAN	T1189	101	16.0	2	1
WILSON	1040	103	15.5	6	1
WILSON	1800A	105	17.2	3	1
WINTERSET HYBRIDSX68		110	15.8	3	2
AVERAGE ALL ENTRIES		107.1	16.0	2.8	1.6
DIF. REQ. FOR SIG. 5%		N.S.	0.7	2.7	2.8
25%		6.9	0.4	1.6	1.6
4 YEAR AVERAGE					
-----	NEBR. 611	112	15.9	5	1
-----	NEBR. 714	112	15.7	4	1
-----	NEBR. 715	113	16.4	2	1
ACCO PAYMASTER	UC 8201	116	15.5	4	2
ASGROW	RX90	119	15.6	3	3
CARGILL	949	115	15.7	3	3
CENEX	2380	109	15.8	3	2
DEKALB	XL72AA	111	15.6	2	3
FONTANELLE	580	113	15.8	3	2
FONTANELLE	590	109	15.3	4	3
GOLDEN ACRES	T-E 6995-A	111	15.5	5	3
GSA	2300	110	15.4	5	2
HORIZON	861	118	15.7	8	1
HORIZON	870	106	15.7	4	2
MFA	5802	112	15.6	4	2
MIGRO	SPX-77	116	17.5	5	1
NC+	59	108	15.6	5	3
NORTHROP KING	PX 74	114	15.7	3	3
O'S GOLD	3344	120	15.8	7	1
PAG	SX 333	113	15.5	3	3
STAUFFER SEEDS	76S	111	15.5	5	4
STAUFFER SEEDS	818	121	17.1	5	0
SUPER CROST	5440	109	15.7	4	2
TROJAN	TXS115A	106	15.7	4	2
WILSON	1040	107	15.6	10	1
WILSON	1800A	112	17.4	4	2
AVERAGE ALL ENTRIES		112.4	15.9	4.4	2.0
DIF. REQ. FOR SIG. 5%		8.0	0.5	3.2	1.9
25%		4.7	0.3	1.9	1.1
5 YEAR AVERAGE					
-----	NEBR. 611	105	16.5	6	1
-----	NEBR. 714	105	16.8	3	1
-----	NEBR. 715	111	16.3	3	2
ASGROW	RX90	111	16.3	4	3
CARGILL	949	108	16.3	4	3
CENEX	2380	101	16.5	4	2
FONTANELLE	580	104	16.4	3	2
FONTANELLE	590	105	16.0	5	4
GSA	2300	102	16.1	5	2
MFA	5802	105	16.3	4	3
MIGRO	SPX-77	111	18.2	5	3
NC+	59	100	16.3	5	3
NORTHROP KING	PX 74	105	16.3	4	3
O'S GOLD	3344	114	16.6	9	1
STAUFFER SEEDS	76S	104	16.3	4	3
SUPER CROST	5440	101	16.2	4	3
TROJAN	TXS115A	98	16.3	4	3
AVERAGE ALL ENTRIES		104.9	16.5	4.5	2.5
DIF. REQ. FOR SIG. 5%		6.7	0.5	3.0	N.S.
25%		3.9	0.3	1.8	1.1

TABLE 2a. ZONE II NONIRRIGATED. SUMMARY. 1981.

BRAND	HYBRID	YIELD			1981 AVERAGE		
		AVERAGE BU/A	DODGE BU/A	BUTLER BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT
-----	NEBR. 611	83	74	91	20.6	1	1
-----	NEBR. 714	89	77	101	20.9	0	1
-----	NEBR. 715	92	85	98	21.8	1	0
ACCO PAYMASTER	UC 7251	93	87	98	20.4	1	2
ACCO PAYMASTER	UC 8201	83	68	97	20.4	1	3
ACCO PAYMASTER	X94790	68	61	75	19.5	1	2
ASGROW	RX777	95	92	97	21.1	2	1
ASGROW	RX858	72	64	80	21.1	1	1
BO-JAC	37	69	57	81	18.6	0	2
BO-JAC	432	74	55	92	19.3	0	2
BO-JAC	452	77	69	84	19.5	0	1
BO-JAC	562	92	77	106	20.9	1	1
CARGILL	924	73	69	77	19.9	1	1
CARGILL	949	85	71	98	20.5	1	4
CARGILL	967	86	72	100	20.7	0	1
CENEX	2114	78	69	86	19.6	0	0
CENEX	2124	96	93	99	22.8	1	2
CENEX	2371	68	55	80	19.9	0	1
CIRCLE SEED	C-S 210	79	70	88	20.0	0	1
CIRCLE SEED	C-S 212	78	69	87	19.3	0	0
CIRCLE SEED	C-S 2152	87	73	100	20.8	0	1
CIRCLE SEED	C-S 218	84	77	90	21.0	0	2
CROWS	430	58	49	66	19.1	0	2
CROWS	444	81	69	93	19.9	1	2
CROWS	555	86	83	88	19.8	0	1
CURRY	1420	74	62	85	18.4	0	2
CURRY	1422	80	73	87	18.9	1	0
CURRY	1462	80	80	79	19.4	0	2
CURRY	150	82	61	103	20.0	1	2
DEKALB	XL55A	76	68	83	19.7	2	0
DEKALB	XL67	74	53	94	20.8	0	0
DEKALB	XL72AA	79	64	93	20.6	1	1
DEKALB	XL73	80	69	91	20.8	0	1
EK PREMIUM	EK 7770	78	68	87	20.0	2	2
EK PREMIUM	EK 7785	72	52	92	20.0	0	1
EK PREMIUM	EK 8800	86	74	98	20.4	2	3
EK PREMIUM	EK 8860	90	84	95	21.5	2	2
FONTANELLE	580	83	65	101	20.1	2	1
FONTANELLE	590	79	65	92	20.9	1	1
FUNK'S	G-4522	86	75	97	20.9	0	0
GOLDEN ACRES	T-E 6945	72	65	79	19.6	0	0
GOLDEN ACRES	T-E 6995	83	66	99	20.4	2	1
GOLDEN ACRES	T-E 6995-A	72	56	87	20.5	0	1
GSA	GSA 2020	64	53	75	18.3	0	1
GSA	GSA 2120	72	64	79	19.7	1	1
GSA	2260	69	55	82	18.8	1	2
GSA	2300	82	72	91	20.2	0	3
HOEGEMEYER	SX2644	88	75	101	21.2	2	2
HOEGEMEYER	SX2700	77	62	91	20.6	1	1
HORIZON	861	89	80	97	20.3	1	2

CONTINUED

TABLE 2a. CONCLUDED.

BRAND	HYBRID	YIELD			1981 AVERAGE		
		AVERAGE BU/A	DODGE BU/A	BUTLER BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT
HORIZON	870	87	76	97	20.2	0	1
LYNKS	LX 4364	81	71	90	20.3	1	0
MC CURDY	5596	68	55	81	19.3	1	1
MC CURDY	6262	72	67	77	20.5	3	1
MC CURDY	6555	82	69	95	20.3	1	1
MC CURDY	7440	84	80	98	19.9	1	2
MIGRO	HP-360	69	65	72	18.3	1	1
MIGRO	HP-401	75	66	83	18.7	0	1
MIGRO	HP-44	81	64	98	20.6	1	3
MIGRO	HP-470	83	70	95	19.8	1	1
NC+	4710	69	62	75	19.8	0	0
NC+	59	79	53	104	20.6	0	1
NORTHRUP KING	PX 69A	82	71	92	19.3	2	1
NORTHRUP KING	PX 72	88	72	104	21.3	0	2
NORTHRUP KING	PX 74	86	65	106	20.3	1	1
O'S GOLD	EXP. 25701	90	70	110	21.6	0	0
O'S GOLD	6882	83	80	85	19.7	1	1
PAG	SX 333	85	69	100	20.7	0	2
PAG	SX 351	84	74	93	21.0	1	1
PAG	SX 397	67	59	74	19.5	1	2
PAYCO	SX 860	73	65	80	19.6	0	0
PAYCO	SX 990	86	75	96	21.0	1	2
STAUFFER SEEDS	6596	83	74	92	19.7	1	1
STAUFFER SEEDS	76S	86	74	97	20.4	0	4
STAUFFER SEEDS	7759	90	75	104	21.4	0	1
STAUFFER SEEDS	7795	80	67	92	20.9	1	1
SUPER CROST	4337	67	53	81	20.1	0	3
SUPER CROST	5440	83	66	100	20.8	1	2
SUPER CROST	7600	88	80	95	21.1	1	1
SUPER CROST	80052	79	68	89	20.4	1	0
TALL CORN	SX108	79	68	89	19.8	0	0
TALL CORN	SX114	88	72	104	20.8	0	2
TODD	M5504	65	60	70	20.5	0	1
TODD	M95	84	81	87	21.3	1	2
TROJAN	TXS115A	78	65	91	20.1	0	3
TROJAN	T1100	86	81	91	19.5	0	0
TROJAN	T1189	77	70	83	21.1	0	1
WAC	917	81	68	93	20.0	0	0
WAC	918	83	78	87	20.8	1	2
WAC	920C	90	76	104	20.5	1	1
WILSON	1040	80	80	79	20.4	1	0
WILSON	1800	77	54	100	20.8	1	1
WILSON	1800A	87	73	100	21.6	1	2
WINTERSET HYBRIDSX66		83	71	94	19.9	2	1
WINTERSET HYBRIDSX68		82	66	98	21.2	2	3
WINTERSET HYBRIDSX89		90	81	99	22.0	2	2
AVERAGE ALL ENTRIES		80.3	69.2	90.9	20.3	0.7	1.3
DIF. REQ. FOR SIG. 5%		14.5	18.3	13.5	1.1	N.S.	2.2
25%		8.5	11.0	8.0	0.7	N.S.	1.3

TABLE 2b. ZONE II NONIRRIGATED. 1980-1981.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
2 YEAR AVERAGE					
-----	NEBR. 611	60	17.2	1	1
-----	NEBR. 714	62	18.4	0	0
-----	NEBR. 715	64	18.1	1	0
ACCO PAYMASTER	UC 7251	60	17.2	0	1
ACCO PAYMASTER	UC 8201	53	16.9	1	4
BO-JAC	432	55	15.8	0	1
BO-JAC	452	54	16.1	0	1
BO-JAC	562	65	18.1	3	4
CARGILL	967	63	17.6	0	1
CENEX	2114	55	15.9	0	0
CENEX	2371	53	16.6	0	2
CURRY	150	55	16.5	1	1
DEKALB	XL72AA	64	17.0	1	2
EK PREMIUM	EK 7770	53	16.9	1	1
EK PREMIUM	EK 8300	56	17.1	1	4
FONTANELLE	580	58	16.7	1	1
FONTANELLE	590	53	16.8	1	5
GOLDEN ACRES	T-E 6945	48	16.5	0	0
GOLDEN ACRES	T-E 6995	55	17.4	1	3
GOLDEN ACRES	T-E 6995-A	45	17.0	0	3
GSA	2260	46	15.6	1	4
GSA	2300	54	16.8	0	2
HOEGEMEYER	SX2700	61	17.3	2	4
HORIZON	861	59	17.1	1	3
HORIZON	870	53	17.0	0	1
MC CURDY	6555	53	16.6	0	1
MC CURDY	7440	56	16.6	0	3
MIGRO	HP-470	53	16.3	0	1
NC+	59	50	16.8	0	1
NORTHROP KING	PX 72	61	17.7	0	1
NORTHROP KING	PX 74	56	17.0	0	2
PAG	SX 333	53	17.3	1	2
PAG	SX 351	63	17.7	1	1
PAYCO	SX 990	51	17.3	0	2
STAUFFER SEEDS	765	58	17.3	0	2
STAUFFER SEEDS	7759	68	17.6	0	1
SUPER CROST	5440	52	17.7	1	3
SUPER CROST	7600	60	18.1	1	2
SUPER CROST	80052	57	17.4	1	3
TODD	M95	59	18.7	1	1
TROJAN	TXS115A	52	17.0	0	2
TROJAN	T1189	63	18.5	0	1
WILSON	1040	63	17.2	1	0
WILSON	1800	49	17.4	1	1
WILSON	1800A	56	18.1	1	3
WINTERSET HYBRIDSX68		58	17.9	1	3
WINTERSET HYBRIDSX89		65	18.8	1	4
AVERAGE ALL ENTRIES		56.5	17.2	0.6	1.9
DIF. REQ. FOR SIG. 5%		N.S.	0.9	N.S.	N.S.
25%		N.S.	0.5	N.S.	N.S.

TABLE 2c. ZONE II NONIRRIGATED. 1977-1981.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
3 YEAR AVERAGE					
-----	NEBR. 611	76	17.1	2	1
-----	NEBR. 714	83	19.4	2	0
-----	NEBR. 715	80	19.3	1	0
ACCO PAYMASTER	UC 8201	79	17.7	1	3
BO-JAC	432	77	15.8	0	1
BO-JAC	562	86	19.2	4	3
CARGILL	967	85	18.0	1	1
CENEX	2371	73	17.2	1	1
CURRY	150	80	17.5	1	1
DEKALB	XL72AA	84	17.7	1	2
FONTANELLE	580	77	17.7	1	1
FONTANELLE	590	72	16.8	1	3
GOLDEN ACRES	T-E 6995	75	18.3	3	2
GOLDEN ACRES	T-E 6995-A	70	17.3	1	2
GSA	2260	68	15.4	1	3
GSA	2300	76	17.5	1	1
HORIZON	870	77	17.9	1	1
NC+	59	75	17.7	1	1
NORTHROP KING	PX 72	84	18.5	1	2
NORTHROP KING	PX 74	79	17.7	1	1
PAG	SX 333	78	17.8	2	2
PAYCO	SX 990	72	17.9	1	2
STAUFFER SEEDS	765	79	18.0	2	2
SUPER CROST	5440	76	18.3	1	3
TROJAN	TXS115A	73	18.0	1	2
TROJAN	T1189	79	19.4	1	0
WILSON	1040	80	17.5	2	0
WILSON	1800	73	18.3	2	1
WILSON	1800A	76	19.1	2	2
AVERAGE ALL ENTRIES		77.2	17.9	1.4	1.5
DIF. REQ. FOR SIG. 5%		N.S.	1.2	N.S.	N.S.
25%		N.S.	0.7	0.9	N.S.
4 YEAR AVERAGE					
-----	NEBR. 611	90	18.2	2	1
-----	NEBR. 714	98	20.1	2	0
-----	NEBR. 715	97	20.1	1	0
ACCO PAYMASTER	UC 8201	97	18.7	1	2
CENEX	2371	88	17.9	1	1
CURRY	150	96	18.5	1	1
DEKALB	XL72AA	98	18.8	2	1
FONTANELLE	580	92	18.9	1	1
FONTANELLE	590	89	18.0	1	2
GOLDEN ACRES	T-E 6995	92	19.3	2	2
GSA	2260	83	15.7	1	2
GSA	2300	94	18.8	1	1
HORIZON	870	93	19.0	1	1
NC+	59	93	18.9	1	1
NORTHROP KING	PX 74	96	18.8	1	1
PAG	SX 333	96	18.8	2	2
STAUFFER SEEDS	765	97	19.0	1	2
SUPER CROST	5440	94	19.3	1	2
TROJAN	TXS115A	89	19.1	1	1
WILSON	1040	92	18.5	3	0
WILSON	1800	89	19.2	2	1
WILSON	1800A	94	20.2	2	2
AVERAGE ALL ENTRIES		93.1	18.8	1.4	1.2
DIF. REQ. FOR SIG. 5%		N.S.	1.0	N.S.	N.S.
25%		5.4	0.6	0.8	1.0
5 YEAR AVERAGE					
-----	NEBR. 611	93	18.8	3	1
-----	NEBR. 714	101	20.4	2	0
FONTANELLE	580	94	19.3	2	1
FONTANELLE	590	94	18.8	3	3
GSA	2300	97	19.1	2	1
NC+	59	97	19.3	2	2
NORTHROP KING	PX 74	99	19.2	3	1
STAUFFER SEEDS	765	101	19.2	3	3
SUPER CROST	5440	97	19.4	2	2
TROJAN	TXS115A	92	19.4	2	2
WILSON	1040	95	19.2	5	0
WILSON	1800	92	19.5	3	2
AVERAGE ALL ENTRIES		96.0	19.3	2.7	1.5
DIF. REQ. FOR SIG. 5%		N.S.	N.S.	N.S.	N.S.
25%		4.2	0.5	1.2	1.0

TABLE 3a. ZONE II IRRIGATED. SUMMARY. 1981.

BRAND	HYBRID	YIELD				1981 AVERAGE			
		AVERAGE BU/A	CLAY BU/A	YORK BU/A	FURNAS BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT	STALK ROT
-----	NEBR. 611	151	175	143	135	20.7	1	0	12
-----	NEBR. 714	146	164	150	124	22.4	1	0	28
-----	NEBR. 715	142	168	127	131	23.4	0	0	9
ACCO PAYMASTER	UC 6990	151	175	148	131	20.9	0	0	5
ACCO PAYMASTER	UC 7251	163	164	178	148	21.0	1	0	12
ACCG PAYMASTER	UC 8201	171	194	182	137	21.6	1	0	15
ACCO PAYMASTER	X94790	144	158	145	130	21.8	1	0	7
ASGROW	RX777	166	185	172	141	21.0	0	0	11
ASGROW	RX858	146	149	160	129	22.7	1	0	4
ASGROW	RX90	163	172	171	146	22.0	1	1	10
BO-JAC	432	142	156	141	128	19.2	1	0	1
BO-JAC	452	160	171	164	145	21.9	1	0	1
BO-JAC	56A	168	191	169	144	22.0	1	0	3
BO-JAC	562	165	156	192	148	24.2	0	0	12
CARGILL	921	143	181	135	113	19.6	0	0	4
CARGILL	924	145	161	147	128	20.5	1	0	7
CARGILL	949	162	174	180	131	22.0	1	0	24
CARGILL	967	164	187	168	136	20.9	1	0	5
CENEX	2114	150	164	155	130	20.7	1	0	7
CENEX	2124	170	171	215	125	25.1	1	0	6
CENEX	2371	152	175	149	132	21.6	1	1	14
CIRCLE SEED	C-S 212	146	152	169	118	21.0	1	0	3
CIRCLE SEED	C-S 2152	173	165	191	162	21.7	0	0	3
CIRCLE SEED	C-S 218	144	156	140	127	23.6	0	0	4
CIRCLE SEED	C-S 2182	168	181	185	139	23.1	1	0	9
CROWS	688	158	165	174	136	22.3	1	0	11
CROWS	690	173	184	197	139	24.3	0	0	8
CURRY	1424	145	156	146	132	18.8	1	0	5
CURRY	1455	156	163	162	142	20.8	1	0	3
CURRY	150	151	158	154	142	21.8	1	0	7
DEKALB	XL67	150	153	171	127	21.6	0	0	19
DEKALB	XL71	159	190	151	135	22.7	1	0	6
DEKALB	XL72AA	149	148	153	146	22.4	1	1	15
DEKALB	XL73	174	192	191	139	23.1	0	0	5
EK PREMIUM	EK 8800	157	168	149	155	22.2	1	0	6
EK PREMIUM	EK 8860	154	156	172	135	23.0	2	0	8
EK PREMIUM	EK 9900	163	180	177	131	22.8	0	1	5
EK PREMIUM	EK 9920	163	189	164	135	25.0	1	0	2
FEDERAL	FX39	149	146	163	137	20.9	0	0	11
FONTANELLE	580	165	166	185	145	22.3	1	1	10
FONTANELLE	590	152	153	177	126	21.2	1	0	7
FRUNDT	SX45A	164	169	176	146	21.7	1	0	8
FRUNDT	SX50	155	172	154	139	20.7	1	0	5
FRUNDT	SX60	168	169	174	160	22.2	1	0	7
FUNK'S	G-4673	176	183	193	152	23.5	2	0	7
GOLD TAG	2006	128	155	104	125	18.6	1	0	6
GOLD TAG	3006	141	151	149	124	20.3	0	0	5
GOLD TAG	3008	151	172	168	114	20.4	0	0	11
GOLD TAG	3020	144	160	144	127	21.9	1	0	16
GOLDEN ACRES	T-E 6925	115	129	116	100	18.6	1	1	6
GOLDEN ACRES	T-E 6995	159	168	162	146	22.7	1	0	3
GOLDEN ACRES	T-E 6995-A	149	165	151	132	20.7	1	0	7
GSA	GSA 2020	116	126	101	122	19.5	1	0	8
GSA	GSA 2120	136	155	128	124	20.5	0	0	10
GSA	2260	130	159	108	122	19.3	0	0	4
GSA	2300	161	172	171	141	21.5	1	0	8
HOEGEMEYER	SX2630	153	172	157	131	20.4	1	0	6
HOEGEMEYER	SX2634	151	169	157	126	22.1	0	0	10
HOEGEMEYER	SX2644	157	170	158	142	22.2	1	0	12
HOEGEMEYER	SX2700	151	169	159	126	22.4	1	0	10
HORIZON	EXP. 211	134	158	142	102	20.4	0	0	6
HORIZON	212	158	182	160	132	20.6	1	0	2
HORIZON	870	135	140	132	134	21.9	1	1	4
LYNKS	LX 4210	129	136	133	119	19.0	0	0	6
LYNKS	LX 4315	146	166	145	126	21.2	0	0	5

CONTINUED

TABLE 3a. CONCLUDED.

BRAND	HYBRID	YIELD				1981 AVERAGE			
		AVERAGE BU/A	CLAY BU/A	YORK BU/A	FURNAS BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT	STALK ROT
LYNKS	LX 4355	159	163	173	140	22.7	0	0	5
MC CURDY	6555	155	164	152	149	20.8	1	0	4
MC CURDY	7676	161	166	172	144	21.2	1	0	3
MC CURDY	84	155	187	168	141	22.2	0	0	23
MC CURDY	84AA	165	158	194	142	23.7	1	0	12
MFA	5802	161	169	167	148	21.6	0	0	7
MFA	6707	146	176	163	99	20.5	1	0	10
MIGRO	HP-44	158	158	178	139	21.5	0	0	17
MIGRO	HP-470	169	196	173	138	20.5	1	0	3
MIGRO	SPX-49	151	170	163	119	21.2	1	0	12
MIGRO	SPX-77	171	183	192	139	23.9	1	0	2
NC+	4710	124	136	120	116	20.8	1	0	8
NC+	59	155	134	189	142	20.8	1	0	4
NC+	8331	163	163	181	146	23.3	0	0	3
NORTHRUP KING	PX 69A	133	151	156	93	20.0	1	0	14
NORTHRUP KING	PX 72	154	158	164	141	21.4	0	0	11
NORTHRUP KING	PX 74	170	180	180	149	21.8	1	0	15
NORTHRUP KING	X 6710	161	169	171	144	21.6	2	1	24
O'S GOLD	5291	163	176	171	143	23.8	1	0	7
O'S GOLD	5500A	161	161	174	148	22.8	1	0	21
O'S GOLD	5500AB	155	173	164	127	21.9	1	0	6
PAG	SX 333	161	161	178	143	21.5	1	0	19
PAG	SX 351	165	189	174	131	23.3	1	0	2
PAG	SX 397	130	143	141	107	19.7	3	0	16
PAYCO	EXP SX90059	176	191	181	155	22.0	1	0	6
PAYCO	SX 1000	160	167	184	128	23.5	1	0	6
PAYCO	SX 860	160	191	171	127	21.6	1	0	3
PAYCO	SX 990	169	170	180	157	22.2	1	0	12
PRAIRIE STREAM	SX50	160	166	171	144	20.9	0	0	3
PRAIRIE STREAM	SX66	149	154	169	125	22.7	0	0	8
PRAIRIE STREAM	SX68	146	173	134	130	22.8	1	0	8
SOKOTA	TS 75	160	170	173	138	20.4	1	0	5
SOKOTA	TS 82	152	159	153	143	22.2	1	0	9
SOKOTA	660	129	151	112	124	19.4	1	0	6
SOKOTA	840	153	174	151	133	24.0	1	0	2
STAUFFER SEEDS	6596	155	156	189	120	21.4	1	0	7
STAUFFER SEEDS	76S	159	148	182	148	22.1	1	0	10
STAUFFER SEEDS	7759	176	191	173	164	22.9	0	0	3
STAUFFER SEEDS	7795	159	176	160	140	21.1	0	0	3
SUPER CROST	4337	158	175	168	131	21.3	1	0	3
SUPER CROST	5440	159	164	171	141	21.6	1	0	6
SUPER CROST	7600	161	172	180	130	23.9	0	1	5
SUPER CROST	80052	150	168	159	124	22.5	1	0	13
TALL CORN	SX115	151	151	175	127	22.0	1	0	11
TALL CORN	SX120	161	162	180	140	24.7	0	0	3
TODD	MX73A	146	146	154	139	21.9	1	0	7
TODD	M5505	157	176	177	117	21.0	1	0	6
TROJAN	TXS115A	162	178	168	139	21.6	1	0	7
TROJAN	T1100	155	173	149	143	22.0	1	1	5
TROJAN	T1189	156	167	177	125	21.8	1	0	6
WAC	917	146	158	155	124	20.9	1	0	19
WAC	918	151	166	170	118	24.1	1	0	3
WAC	920C	171	158	190	165	22.1	0	0	12
WILSON	1600	161	174	165	144	21.2	1	0	5
WILSON	1800	156	159	163	147	22.6	1	0	15
WILSON	1800A	157	184	150	136	23.9	1	0	3
WINTERSET HYBRIDS	SX63	144	156	139	136	20.9	1	0	4
WINTERSET HYBRIDS	SX68	175	170	214	142	22.0	1	0	10
WINTERSET HYBRIDS	SX89	159	159	183	136	23.5	1	0	5

AVERAGE ALL ENTRIES

DIF. REQ. FOR SIG. 5%

25%

154.6	166.3	163.2	134.5	21.7	0.8	0.1	8.1
20.7	29.4	33.3	17.1	1.8	N.S.	N.S.	N.S.
12.2	17.3	19.6	10.1	1.1	N.S.	0.3	7.6

TABLE 3b. ZONE II IRRIGATED. 1980-1981.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT	STALK ROT PCT
2 YEAR AVERAGE						
-----	NEBR. 611	151	18.2	1	0	12
-----	NEBR. 714	141	19.3	1	1	19
-----	NEBR. 715	133	20.3	1	1	9
ACCO PAYMASTER	UC 7251	144	18.2	3	1	13
ACCO PAYMASTER	UC 8201	151	18.6	3	2	11
ASGROW	RX90	148	19.0	1	2	8
BO-JAC	432	139	16.8	2	1	6
BO-JAC	452	156	18.4	1	1	4
BO-JAC	562	159	21.3	2	1	12
CARGILL	924	136	17.8	1	0	7
CARGILL	949	151	19.1	1	1	16
CARGILL	967	150	18.7	1	1	6
CENEX	2114	145	17.8	1	0	7
CENEX	2371	147	18.6	2	1	13
CURRY	1455	149	17.8	2	1	9
CURRY	150	142	18.5	1	1	8
DEKALB	XL67	143	18.5	1	1	16
DEKALB	XL72AA	140	18.7	2	2	13
EK PREMIUM	EK 8800	142	19.1	1	2	5
EK PREMIUM	EK 9900	157	20.3	2	2	13
FEDERAL	FX39	135	18.6	1	2	11
FONTANELLE	580	148	19.0	1	2	9
FONTANELLE	590	139	18.4	2	1	7
GOLDEN ACRES	T-E 6925	109	16.4	2	2	8
GOLDEN ACRES	T-E 6995	145	19.5	1	1	6
GOLDEN ACRES	T-E 6995-A	140	18.3	2	1	9
GSA	2300	146	18.8	1	1	6
HOEGEMEYER	SX2630	148	17.6	2	1	9
HOEGEMEYER	SX2634	138	18.7	1	1	8
HOEGEMEYER	SX2700	140	19.1	2	1	8
HORIZON	870	133	19.0	1	3	7
LYNKS	LX 4315	148	18.2	1	1	5
MC CURDY	6555	149	17.9	1	0	5
MC CURDY	84	149	19.3	1	2	16
MC CURDY	84AA	153	21.0	2	2	12
MFA	5802	148	18.9	2	2	9
MFA	6707	146	18.0	1	1	18
MIGRO	HP-470	156	17.7	2	1	5
MIGRO	SPX-49	150	18.6	2	1	12
MIGRO	SPX-77	164	20.9	2	1	5
NC+	4710	136	17.9	1	0	9
NC+	59	143	18.6	1	1	7
NORTHROP KING	PX 69A	137	17.2	2	1	12
NORTHROP KING	PX 72	144	18.1	2	1	13
NORTHROP KING	PX 74	153	18.8	1	2	11
O'S GOLD	5500A	153	19.1	2	1	14
O'S GOLD	5500AB	153	18.9	2	1	13
PAG	SX 333	150	19.0	2	1	13
PAG	SX 351	156	19.7	1	1	8
PAYCO	SX 990	146	18.8	2	2	9
PRAIRIE STREAM	SX66	140	19.4	1	2	9
SOKOTA	TS 75	152	17.7	1	0	9
SOKOTA	TS 82	144	19.2	2	1	8
STAUFFER SEEDS	76S	149	19.3	1	2	9
STAUFFER SEEDS	7795	153	18.8	1	1	6
SUPER CROST	5440	139	18.9	2	2	5
SUPER CROST	7600	155	21.0	1	1	7
SUPER CROST	80052	146	19.1	2	1	14
TALL CORN	SX120	149	21.3	2	1	6
TODD	M5505	150	17.7	1	1	7
TROJAN	TXS115A	148	18.9	1	1	6
TROJAN	T1189	152	19.6	2	1	8
WILSON	1600	153	17.7	1	1	8
WILSON	1800	145	19.4	2	2	12
WILSON	1800A	152	21.2	1	1	4
WINTERSET HYBRIDSX68		157	19.2	1	1	11
WINTERSET HYBRIDSX89		154	21.1	1	2	10
AVERAGE ALL ENTRIES		146.5	18.9	1.5	1.2	9.4
DIF. REQ. FOR SIG. 5%		17.3	1.0	N.S.	N.S.	N.S.
25%		10.0	0.6	N.S.	N.S.	N.S.

TABLE 3c. ZONE II IRRIGATED. 1979-1981.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT	STALK ROT PCT
3 YEAR AVERAGE						
-----	NEBR. 611	154	17.7	8	1	21
-----	NEBR. 714	150	18.9	9	2	25
-----	NEBR. 715	149	19.5	8	2	19
ACCO PAYMASTER	UC 8201	159	18.4	10	2	21
ASGROW	RX90	157	18.4	10	3	22
BO-JAC	432	151	16.0	5	2	15
BO-JAC	562	167	20.5	8	2	25
CARGILL	924	143	17.2	11	2	19
CARGILL	949	163	18.5	7	2	24
CARGILL	967	161	18.3	9	2	15
CENEX	2371	155	17.9	10	2	19
CURRY	150	158	18.1	7	1	19
DEKALB	XL72AA	155	18.4	8	2	23
FEDERAL	FX39	147	18.2	7	2	20
FONTANELLE	580	156	18.5	5	2	12
FONTANELLE	590	152	18.0	7	2	15
GOLDEN ACRES	T-E 6995	152	18.9	9	2	14
GOLDEN ACRES	T-E 6995-A	149	18.0	6	2	17
GSA	2300	151	18.1	7	2	17
HOEGEMEYER	SX2634	149	17.9	6	1	20
HORIZON	870	149	18.5	9	3	17
MC CURDY	84	162	18.6	7	3	23
MC CURDY	84AA	155	20.4	7	2	18
MFA	5802	153	18.5	7	2	18
MIGRO	SPX-77	171	20.2	7	2	13
NC+	59	156	18.2	8	2	15
NORTHROP KING	PX 69A	144	16.5	7	1	17
NORTHROP KING	PX 72	156	17.8	10	2	21
NORTHROP KING	PX 74	159	18.5	8	3	22
O'S GOLD	5500A	161	18.5	8	1	21
O'S GOLD	5500AB	160	18.4	7	2	24
PAG	SX 333	157	18.4	10	2	22
PAG	SX 351	163	18.9	8	2	13
PAYCO	SX 990	150	18.2	9	3	18
PRAIRIE STREAM	SX66	149	18.4	6	2	18
SOKOTA	TS 82	153	18.8	8	2	20
STAUFFER SEEDS	76S	155	18.7	7	2	21
SUPER CROST	5440	151	18.4	6	2	14
TROJAN	TXS115A	153	18.4	9	2	21
TROJAN	T1189	158	19.5	6	1	15
WILSON	1800	157	18.7	7	3	21
WILSON	1800A	160	20.4	8	2	18
WINTERSET HYBRIDSX68		159	18.7	8	2	21
WINTERSET HYBRIDSX89		169	20.4	6	3	17
AVERAGE ALL ENTRIES		155.7	18.5	7.7	2.0	18.9
DIF. REQ. FOR SIG. 5%		13.5	0.8	N.S.	N.S.	N.S.
25%		7.9	0.6	N.S.	0.7	N.S.

TABLE 3d. ZONE II IRRIGATED. 1978-1981.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT	STALK ROT PCT
4 YEAR AVERAGE						
-----	NEBR. 611	153	17.7	10	1	25
-----	NEBR. 714	155	18.5	10	2	25
-----	NEBR. 715	155	19.2	9	1	21
ACCO PAYMASTER	UC 8201	164	18.2	9	3	26
ASGROW	RX90	164	19.3	9	3	28
CARGILL	924	142	17.1	9	1	19
CARGILL	949	167	18.5	7	2	27
CENEX	2371	160	17.3	15	2	25
CURRY	150	162	18.1	8	1	25
DEKALB	XL72AA	158	18.3	8	2	25
FONTANELLE	580	159	18.5	7	2	15
FONTANELLE	590	152	17.8	9	2	25
GOLDEN ACRES	T-E 6995	159	18.9	9	2	20
GSA	2300	151	18.1	8	2	21
HORIZON	870	154	18.5	9	3	24
MC CURDY	84	163	18.6	7	2	22
MFA	5802	155	18.4	6	2	20
MIGRO	SPX-77	166	20.1	7	2	22
NC+	59	160	18.1	9	2	18
NORTHRUP KING	PX 74	163	18.4	8	3	25
O'S GOLD	5500A	163	18.5	8	1	26
O'S GOLD	5500AB	163	18.0	8	2	28
PAG	SX 333	159	18.2	10	2	26
PRAIRIE STREAM	SX66	154	18.4	6	3	21
STAUFFER SEEDS	76S	159	18.6	8	2	26
SUPER CROST	5440	155	18.2	7	2	20
TROJAN	TXS115A	159	18.5	9	2	23
WILSON	1800	157	18.7	8	2	22
WILSON	1800A	164	20.6	8	2	22
AVERAGE ALL ENTRIES		158.4	18.4	8.4	2.0	23.2
DIF. REQ. FOR SIG. 5%		N.S.	0.6	N.S.	N.S.	N.S.
25%		0.7	0.4	2.4	N.S.	N.S.

TABLE 3e. ZONE II IRRIGATED. 1977-1981.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT	STALK ROT PCT
5 YEAR AVERAGE						
-----	NEBR. 611	154	18.5	8	3	25
-----	NEBR. 714	159	19.3	9	2	25
ASGROW	RX90	164	18.7	7	3	28
CARGILL	949	170	19.0	8	3	27
CENEX	2371	165	18.2	13	2	25
CURRY	150	165	18.9	7	3	25
FONTANELLE	580	161	19.1	5	4	15
FONTANELLE	590	156	18.5	8	3	25
GSA	2300	154	18.9	7	3	21
HORIZON	870	160	19.2	8	4	24
MC CURDY	84	166	19.2	7	3	22
MIGRO	SPX-77	170	21.0	7	3	22
NC+	59	163	18.6	7	3	18
NORTHRUP KING	PX 74	167	19.1	7	3	25
O'S GOLD	5500A	165	19.1	7	2	26
O'S GOLD	5500AB	165	18.7	8	3	28
PRAIRIE STREAM	SX66	156	19.2	7	3	21
STAUFFER SEEDS	76S	162	19.2	9	3	26
SUPER CROST	5440	158	19.0	7	3	20
TROJAN	TXS115A	161	19.1	7	2	23
WILSON	1800	161	19.4	8	3	22
AVERAGE ALL ENTRIES		162.0	19.1	7.7	2.9	--
DIF. REQ. FOR SIG. 5%		N.S.	0.6	N.S.	N.S.	--
25%		5.9	0.3	N.S.	N.S.	--

TABEL 4a. ZONE III NORTHEAST NONIRRIGATED. SUMMARY. 1981.

BRAND	HYBRID	YIELD					
		AVERAGE BU/A	DIXON BU/A	PIERCE BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT
-----	NEBR. 611	90	95	85	19.4	12	0
ACCO PAYMASTER	UC 8201	104	102	105	19.4	5	3
ACCO PAYMASTER	X94790	89	106	72	17.5	8	2
ASGROW	RX777	95	102	87	18.6	6	1
ASGROW	RX90	92	103	80	20.7	5	1
CARGILL	921	106	104	108	19.1	5	2
CARGILL	924	87	76	98	19.2	6	1
CARGILL	949	85	95	75	19.6	6	2
CENEX	2108	98	100	95	17.0	4	1
CENEX	2114	107	124	90	18.5	6	3
CIRCLE SEED	C-S 203	91	97	84	17.0	7	1
CIRCLE SEED	C-S 209	99	99	99	18.8	8	1
CIRCLE SEED	C-S 210	101	111	91	18.7	7	1
CIRCLE SEED	C-S 2152	100	106	93	20.8	5	1
CURRY	1422	92	102	82	17.5	17	1
CURRY	1424	104	111	96	16.8	8	1
CURRY	1455	106	124	97	18.2	8	0
CURRY	150	83	96	70	20.3	3	3
DEKALB	XL28	76	74	77	18.0	6	1
DEKALB	XL55A	94	93	94	18.5	18	1
DEKALB	XL67	97	102	92	19.8	6	1
DEKALB	XL72AA	93	96	90	20.4	6	3
EK PREMIUM	EK 7770	88	87	88	18.8	9	1
EK PREMIUM	EK 7780	103	111	95	18.8	4	0
EK PREMIUM	EK 7785	82	89	75	18.3	5	2
EK PREMIUM	EK 8800	90	99	80	20.3	8	4
FEDERAL	FT44	78	83	73	19.2	5	3
FONTANELLE	420	78	77	78	17.1	8	2
FONTANELLE	435	97	97	97	18.1	10	1
FONTANELLE	580	83	88	77	21.1	9	2
FUNK'S	G-4522	98	105	90	20.3	6	1
GSA	GSA 2020	83	91	75	16.8	7	1
GSA	GSA 2120	99	124	73	18.3	7	3
GSA	2260	88	89	86	16.9	10	1
HOEGEMEYER	SX2630	102	119	85	18.2	7	2
HOEGEMEYER	SX2644	94	96	91	20.3	4	2
HORIZON	212	102	112	92	18.7	7	2
HORIZON	861	89	94	83	19.3	5	1
HORIZON	870	80	79	81	21.3	5	2
KALTENBERG	KX67	99	100	98	16.4	6	1
KALTENBERG	KX73	92	107	76	17.8	6	1
KALTENBERG	KX76	88	90	86	21.7	5	2
LYNKS	LX 4210	90	91	89	17.0	6	0
LYNKS	LX 4305	79	81	77	18.2	2	3
LYNKS	LX 4315	93	102	83	18.3	6	3
LYNKS	LX 4355	106	110	101	21.0	2	2
MC CURDY	5596	99	115	82	17.2	15	1
MC CURDY	6262	84	85	82	19.5	4	1
MC CURDY	6555	108	120	96	18.1	8	1
MC CURDY	7440	91	92	90	19.7	5	1

CONTINUED

TABLE 4a. CONCLUDED.

BRAND	HYBRID	YIELD					
		AVERAGE BU/A	DIXON BU/A	PIERCE BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT
MIGRO	HP-360	91	102	80	16.9	5	1
MIGRO	HP-401	96	95	97	17.5	3	1
MIGRO	HP-470	104	117	91	18.3	7	1
MIGRO	M-2022X	91	102	80	24.1	5	2
NC+	3830	72	73	70	17.6	7	2
NC+	4155	92	95	89	17.5	8	1
NC+	4710	92	100	84	18.5	6	3
NORTHROP KING	PX 69A	106	109	103	17.2	6	1
NORTHROP KING	PX 72	85	74	96	20.8	6	1
NORTHROP KING	PX 74	101	106	95	20.8	5	2
NORTHROP KING	X 6169	89	91	87	16.7	5	2
O'S GOLD	1170A	81	86	76	16.7	6	3
O'S GOLD	6880	98	106	89	17.1	5	1
O'S GOLD	6882	97	113	80	18.3	6	4
PAG	SX 333	92	98	86	20.6	7	2
PAG	SX 351	105	119	91	21.4	7	1
PAG	SX 397	92	109	74	17.1	13	2
PAYCO	EXP SX82438	89	88	90	19.0	7	0
PAYCO	SX 844	80	88	71	16.8	7	2
PAYCO	SX 860	102	114	90	18.5	8	0
PAYCO	SX 990	94	105	83	21.2	4	2
SOKOTA	TS 75	103	116	90	17.8	6	0
SOKOTA	660	104	108	99	16.7	6	1
STAUFFER SEEDS	5602	94	103	84	16.7	4	1
STAUFFER SEEDS	6389	80	102	58	16.8	6	1
STAUFFER SEEDS	6596	101	108	93	18.5	4	2
STAUFFER SEEDS	765	91	91	90	20.7	5	2
SUPER CROST	2790	81	86	75	16.8	5	1
SUPER CROST	4337	97	112	81	17.8	6	2
SUPER CROST	80052	91	107	75	19.8	7	2
SUPER CROST	81061	91	99	83	18.6	8	0
TALL CORN	SX1105	73	70	76	16.0	8	1
TALL CORN	SX113	97	112	82	18.0	3	1
TALL CORN	SX115	87	93	80	20.9	4	2
TODD	MX73A	82	84	79	20.6	6	2
TODD	M5505	86	99	73	18.0	6	1
TROJAN	TXS115A	83	82	83	20.9	3	2
TROJAN	T1058	82	83	81	17.5	10	1
TROJAN	T1100	96	106	85	18.2	7	2
WILSON	1600	98	114	82	17.9	5	1
WILSON	1600A	89	96	82	18.7	7	1
WILSON	1800	80	84	75	20.7	4	2
WINTERSET HYBRIDSX63		106	114	98	18.4	4	1
WINTERSET HYBRIDSX66		91	98	83	19.6	9	2
WINTERSET HYBRIDSX68		96	104	87	21.3	7	2
AVERAGE ALL ENTRIES		92.4	99.1	85.3	18.7	6.5	1.5
DIF. REQ. FOR SIG. 5%		18.4	15.5	15.9	1.3	6.8	N.S.
25%		10.8	9.1	9.4	0.8	3.9	N.S.

TABLE 4b. ZONE III NORTHEAST NONIRRIGATED. 1980-1981.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
2 YEAR AVERAGE					
-----	NEBR. 611	95	17.7	6	0
ACCO PAYMASTER	UC 8201	90	17.4	2	2
ACCO PAYMASTER	X94790	76	15.7	4	3
ASGROW	RX777	100	17.3	3	1
CARGILL	921	96	16.9	2	3
CARGILL	924	94	17.3	4	1
CENEX	2108	93	15.1	2	1
CENEX	2114	98	16.4	4	2
CURRY	1424	96	15.1	4	1
CURRY	1455	92	16.1	4	1
CURRY	150	77	19.2	1	2
DEKALB	XL67	92	19.0	3	1
DEKALB	XL72AA	86	17.8	3	2
EK PREMIUM	EK 7770	92	17.1	4	1
FEDERAL	FT44	78	17.0	3	2
FONTANELLE	420	75	15.2	4	4
FONTANELLE	580	81	19.4	5	1
GSA	2260	78	15.1	6	3
HOEGEMEYER	SX2644	89	18.1	2	2
HORIZON	861	97	17.5	3	1
HORIZON	870	78	19.8	2	2
KALTENBERG	KX73	89	15.8	3	1
KALTENBERG	KX76	85	19.2	2	2
LYNKS	LX 4315	87	16.6	3	1
MC CURDY	6555	97	15.9	4	1
MC CURDY	7440	94	18.3	3	1
MIGRO	HP-470	95	16.3	4	1
MIGRO	M-2022X	83	19.0	3	1
NC+	4710	86	16.5	3	1
NORTHROP KING	PX 72	89	18.3	3	1
NORTHROP KING	PX 74	87	18.3	3	2
O'S GOLD	6880	89	15.1	3	1
PAG	SX 333	89	17.9	4	2
PAG	SX 351	94	19.0	3	0
PAG	SX 397	88	15.7	8	1
PAYCO	SX 844	82	14.9	3	5
PAYCO	SX 990	83	18.4	2	4
SOKOTA	TS 75	95	16.1	3	0
SOKOTA	660	99	15.0	3	1
STAUFFER SEEDS	6389	87	14.9	3	0
STAUFFER SEEDS	76S	84	19.4	3	2
SUPER CROST	80052	90	18.1	4	2
TALL CORN	SX113	89	16.0	2	1
TALL CORN	SX115	83	18.5	2	1
TODD	MX73A	81	18.1	3	1
TODD	M5505	83	16.2	3	1
TROJAN	TXS115A	80	18.6	1	2
WILSON	1600	88	16.2	3	1
WILSON	1800	83	18.8	2	2
WINTERSET HYBRIDSX68		89	18.6	3	2
AVERAGE ALL ENTRIES		87.9	17.1	3.2	1.5
DIF. REQ. FOR SIG. 5%		N.S.	1.6	N.S.	N.S.
25%		9.6	0.9	1.6	N.S.

TABLE 4c. ZONE III NORTHWEST NONIRRIGATED. 1977-1981.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
3 YEAR AVERAGE					
-----	NEBR. 611	123	19.2	5	0
ACCO PAYMASTER	UC 8201	120	18.9	2	1
ASGROW	RX777	123	18.5	2	1
CARGILL	924	119	18.8	4	0
CURRY	1455	113	16.9	3	0
CURRY	150	111	19.7	4	1
FONTANELLE	420	101	16.3	3	3
FONTANELLE	580	110	19.7	5	1
HOEGEMEYER	SX2644	121	19.3	1	1
HORIZON	861	126	19.4	3	1
HORIZON	870	110	20.2	2	1
KALTENBERG	KX76	120	20.0	2	1
PAG	SX 333	122	19.5	2	1
PAG	SX 397	111	16.9	6	1
PAYCO	SX 844	105	16.0	3	3
STAUFFER SEEDS	6389	112	16.5	3	0
STAUFFER SEEDS	76S	116	19.7	2	1
TODD	MX73A	112	19.7	2	1
TROJAN	TXS115A	110	19.7	2	2
WILSON	1800	111	20.2	2	1
WINTERSET HYBRIDSX68		120	19.7	3	1
AVERAGE ALL ENTRIES		115.1	18.8	2.9	1.0
DIF. REQ. FOR SIG. 5%		N.S.	1.1	N.S.	N.S.
25%		8.5	0.6	N.S.	N.S.
4 YEAR AVERAGE					
-----	NEBR. 611	120	18.4	4	0
CARGILL	924	117	17.8	5	0
FONTANELLE	580	113	19.0	4	1
KALTENBERG	KX76	119	19.1	2	2
PAG	SX 333	122	18.7	2	1
PAG	SX 397	112	16.0	11	1
STAUFFER SEEDS	76S	122	18.8	2	1
TROJAN	TXS115A	111	18.9	2	1
AVERAGE ALL ENTRIES		117.1	18.3	4.0	0.9
DIF. REQ. FOR SIG. 5%		N.S.	0.8	N.S.	N.S.
25%		N.S.	0.5	3.5	0.6
5 YEAR AVERAGE					
-----	NEBR. 611	115	19.2	4	0
FONTANELLE	580	106	19.7	3	2
KALTENBERG	KX76	114	20.0	1	2
PAG	SX 397	110	16.1	13	1
STAUFFER SEEDS	76S	117	19.7	2	2
TROJAN	TXS115A	105	19.6	2	1
AVERAGE OF ALL ENTRIES		111.2	19.1	4.2	1.3
DIF. REQ. FOR SIG. 5%		11.1	1.0	6.3	N.S.
25%		6.3	0.6	3.6	0.7

Location of tests (Counties): 1977 Dixon, Knox; 1978-1980 Dixon; 1981 Dixon, Pierce.

TABLE 5a. ZONE III NORTHEAST IRRIGATED. ANTELOPE COUNTY. 1981.

BRAND	HYBRID	YIELD		1981 AVERAGE	
		AVERAGE BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT
-----	NEBR. 611	133	21.2	8	0
ACCO PAYMASTER	UC 8201	162	20.8	8	2
ACCO PAYMASTER	X94790	138	19.3	5	0
ASGROW	RX777	167	20.7	7	0
ASGROW	RX90	152	21.3	4	0
CARGILL	921	159	20.2	19	2
CARGILL	924	152	20.2	15	0
CARGILL	949	136	23.1	7	0
CENEX	2108	134	17.0	10	1
CENEX	2114	151	20.1	8	0
CIRCLE SEED	C-S 203	132	17.5	10	0
CIRCLE SEED	C-S 209	169	20.6	7	0
CIRCLE SEED	C-S 210	145	21.0	9	0
CIRCLE SEED	C-S 2152	172	21.4	9	0
CURRY	1422	122	19.2	12	0
CURRY	1424	136	18.0	6	0
CURRY	1455	129	20.3	5	0
CURRY	150	145	21.6	12	2
DEKALB	XL28	128	18.3	12	0
DEKALB	XL55A	135	18.8	18	1
DEKALB	XL67	146	21.3	7	1
DEKALB	XL72AA	134	20.9	8	0
EK PREMIUM	EK 7770	150	20.9	9	2
EK PREMIUM	EK 7780	154	20.1	4	1
EK PREMIUM	EK 7785	150	19.2	8	1
EK PREMIUM	EK 8900	148	21.3	3	0
FEDERAL	FT44	141	20.9	13	1
FONTANELLE	420	132	19.0	22	2
FONTANELLE	435	158	21.1	8	0
FONTANELLE	580	154	20.7	8	0
FUNK'S	G-4522	148	22.2	5	1
GSA	GSA 2020	144	17.7	4	0
GSA	GSA 2120	137	20.8	8	1
GSA	2260	137	18.2	17	1
HOEGEMEYER	SX2630	142	20.6	8	3
HOEGEMEYER	SX2644	155	21.2	7	1
HORIZON	212	143	19.9	6	0
HORIZON	861	149	21.5	12	1
HORIZON	870	157	21.2	3	2
KALTENBERG	KX67	139	18.4	3	1
KALTENBERG	KX73	142	20.0	9	1
KALTENBERG	KX76	157	20.8	8	2
LYNKS	LX 4210	147	18.4	4	0
LYNKS	LX 4305	137	19.2	12	1
LYNKS	LX 4315	145	20.4	4	0
LYNKS	LX 4355	170	22.3	6	1
MC CURDY	5596	131	19.2	24	0
MC CURDY	6262	133	21.8	11	1
MC CURDY	6555	141	21.2	5	0

CONTINUED

TABLE 5a. CONCLUDED.

BRAND	HYBRID	YIELD		1981 AVERAGE	
		AVERAGE BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT
MC CURDY	7440	135	21.2	6	0
MIGRO	HP-360	158	18.4	5	0
MIGRO	HP-401	137	20.3	10	1
MIGRO	HP-470	133	20.9	8	0
MIGRO	M-2022X	135	25.3	5	2
NC+	3830	139	18.6	3	0
NC+	4155	131	19.0	18	0
NC+	4710	139	20.1	3	0
NORTHRUP KING	PX 69A	140	19.0	12	1
NORTHRUP KING	PX 72	140	22.3	8	1
NORTHRUP KING	PX 74	178	20.3	8	0
NORTHRUP KING	X 6169	157	18.2	14	0
O'S GOLD	1170A	125	18.5	6	0
O'S GOLD	6880	131	17.6	13	1
O'S GOLD	6882	141	20.7	7	1
PAG	SX 333	150	21.2	6	1
PAG	SX 351	159	21.8	10	0
PAG	SX 397	138	19.5	26	2
PAYCO	EXP SX82438	145	20.5	6	0
PAYCO	SX 844	148	18.6	18	1
PAYCO	SX 860	136	20.0	7	0
PAYCO	SX 990	159	21.3	10	1
SOKOTA	TS 75	141	20.8	5	1
SOKOTA	660	146	17.9	4	0
STAUFFER SEEDS	5602	130	17.8	12	2
STAUFFER SEEDS	6389	146	18.2	13	0
STAUFFER SEEDS	6596	143	20.9	10	1
STAUFFER SEEDS	765	151	20.9	9	2
SUPER CROST	2790	125	18.7	9	2
SUPER CROST	4337	138	20.6	5	0
SUPER CROST	80052	160	21.9	11	2
SUPER CROST	81061	153	20.6	17	0
TALL CORN	SX1105	150	17.6	13	0
TALL CORN	SX113	146	20.8	5	0
TALL CORN	SX115	161	21.1	7	1
TODD	MX73A	136	21.1	9	0
TODD	M5505	138	19.6	3	2
TROJAN	TXS115A	158	21.1	4	2
TROJAN	T1058	126	18.6	12	0
TROJAN	T1100	143	20.0	6	1
WILSON	1600	139	19.6	5	1
WILSON	1600A	155	20.9	12	0
WILSON	1800	147	21.7	5	2
WINTERSET HYBRIDSX63		144	20.8	2	1
WINTERSET HYBRIDSX66		166	20.4	17	1
WINTERSET HYBRIDSX68		163	20.7	7	1
AVERAGE ALL ENTRIES		144.8	20.2	8.9	0.7
DIF. REQ. FOR SIG. 5%		16.5	1.0	7.6	1.7
25%		9.7	0.6	4.5	1.0

TABLE 5b. ZONE III. NORTHEAST IRRIGATED. 1980-1981.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
2 YEAR AVERAGE					
-----	NEBR. 611	149	18.1	6	1
ACCO PAYMASTER	UC 8201	171	18.0	6	3
ACCO PAYMASTER	X94790	146	16.5	3	2
ASGROW	RX777	177	18.4	6	1
CARGILL	921	168	16.9	11	2
CARGILL	924	165	17.2	12	1
CENEX	2108	145	14.6	8	1
CENEX	2114	165	17.2	5	1
CURRY	1424	149	15.5	5	1
CURRY	1455	156	17.2	4	0
CURRY	150	160	18.7	8	2
DEKALB	XL67	162	18.5	6	1
DEKALB	XL72AA	159	18.1	5	1
EK PREMIUM	EK 7770	160	18.0	5	1
FEDERAL	FT44	149	17.7	8	1
FONTANELLE	420	139	15.8	13	4
FONTANELLE	580	160	17.9	5	1
GSA	2260	139	15.8	11	3
HOEGEMEYER	SX2644	162	18.2	5	3
HORIZON	861	170	18.4	9	1
HORIZON	870	161	18.4	2	3
KALTENBERG	KX73	157	16.8	5	1
KALTENBERG	KX76	167	18.3	5	4
LYNKS	LX 4315	161	17.7	3	0
MC CURDY	6555	150	17.5	3	1
MC CURDY	7440	152	18.6	8	2
MIGRO	HP-470	158	17.3	5	1
MIGRO	M-2022X	142	18.9	5	3
NC+	4710	160	16.9	3	0
NORTHROP KING	PX 72	160	19.1	5	2
NORTHROP KING	PX 74	176	18.0	6	3
O'S GOLD	6880	149	15.4	9	1
PAG	SX 333	161	18.3	4	2
PAG	SX 351	175	18.8	6	1
PAG	SX 397	155	16.6	17	3
PAYCO	SX 844	144	15.9	10	3
PAYCO	SX 990	161	18.4	6	2
SOKOTA	TS 75	152	17.5	3	1
SOKOTA	660	154	15.5	3	0
STAUFFER SEEDS	6389	151	15.7	9	1
STAUFFER SEEDS	76S	162	18.0	6	4
SUPER CROST	80052	172	18.7	8	2
TALL CORN	SX113	161	17.7	4	1
TALL CORN	SX115	167	18.6	5	3
TODD	MX73A	155	18.1	7	1
TODD	M5505	160	17.1	3	2
TROJAN	TXS115A	170	18.2	3	2
WILSON	1600	159	16.9	3	1
WILSON	1800	159	18.6	4	3
WINTERSET HYBRIDSX68		160	18.0	5	4
AVERAGE ALL ENTRIES		170.1	18.6	5.2	1.5
DIF. REQ. FOR SIG. 5%		18.3	1.3	5.4	1.7
25%		10.6	0.7	3.1	1.0

TABLE 5c. ZONE III NORTHEAST IRRIGATED. 1977-1981.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
3 YEAR AVERAGE					
-----	NEBR. 611	159	19.2	5	1
ACCO PAYMASTER	UC 8201	179	19.2	4	2
ASGROW	RX777	185	19.2	4	0
CARGILL	924	173	17.8	8	0
CURRY	1455	156	16.9	3	0
CURRY	150	175	19.5	6	2
FONTANELLE	420	153	16.2	8	3
FONTANELLE	580	176	19.1	4	1
HOEGEMEYER	SX2644	171	18.9	4	2
HORIZON	861	180	19.5	8	1
HORIZON	870	175	19.3	2	2
KALTENBERG	KX76	178	19.5	4	2
PAG	SX 333	176	19.1	4	1
PAG	SX 397	160	17.2	14	2
PAYCO	SX 844	147	16.5	7	2
STAUFFER SEEDS	6389	155	16.1	6	1
STAUFFER SEEDS	76S	176	19.0	5	2
TODD	MX73A	166	19.3	5	1
TROJAN	TXS115A	179	20.0	2	1
WILSON	1800	174	19.7	3	2
WINTERSET HYBRIDSX68		179	19.0	4	3
AVERAGE ALL ENTRIES		170.1	18.6	5.2	1.5
DIF. REQ. FOR SIG. 5%		18.3	1.3	5.4	1.7
25%		10.6	0.7	3.1	1.0
4 YEAR AVERAGE					
-----	NEBR. 611	152	18.8	4	1
CARGILL	924	164	17.7	8	0
FONTANELLE	580	171	19.0	3	1
KALTENBERG	KX76	173	19.1	3	2
PAG	SX 333	170	18.9	3	1
PAG	SX 397	153	16.7	12	1
STAUFFER SEEDS	76S	170	19.1	4	2
TROJAN	TXS115A	172	19.7	2	1
AVERAGE ALL ENTRIES		165.8	18.6	4.9	1.1
DIF. REQ. FOR SIG. 5%		9.8	1.0	4.2	N.S.
25%		5.6	0.6	2.4	0.7
5 YEAR AVERAGE					
-----	NEBR. 611	156	19.5	5	1
FONTANELLE	580	169	19.5	3	2
KALTENBERG	KX76	174	19.4	3	3
PAG	SX 397	156	16.7	10	2
STAUFFER SEEDS	76S	171	19.2	4	2
TROJAN	TXS115A	173	19.8	2	2
AVERAGE ALL ENTRIES		166.6	19.0	4.5	2.0
DIF. REQ. FOR SIG. 5%		9.7	1.1	7.3	N.S.
25%		5.5	0.6	4.1	0.8
Location of tests (Counties): 1977 Cedar; 1978 Antelope;					
1979-1980 Madison; 1981 Antelope.					

TABLE 6a. SOUTHWEST ECOFALLOW. SUMMARY. 1981.

BRAND	HYBRID	YIELD			1981 AVERAGE			
		AVERAGE BU/A	LINCOLN BU/A	REDWILLOW BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT	EARS/100 PLANTS
-----	NEBR. 611	136	122	150	29.2	1	1	111
-----	NEBR. 714	133	116	149	29.6	1	0	117
ASGROW	RX511	131	121	140	18.7	1	0	122
ASGROW	RX777	137	132	142	26.0	1	0	119
CARGILL	949	135	109	160	29.6	0	1	118
CARGILL	967	151	139	163	28.1	1	0	135
CENEX	2108	122	131	112	21.3	0	2	133
CENEX	2157	122	117	127	24.2	1	2	120
DEKALB	EX6969	135	121	148	29.1	0	1	118
EK PREMIUM	EK 7760	136	124	147	19.6	1	1	142
EK PREMIUM	EK 7770	130	116	144	23.0	0	0	121
EK PREMIUM	EK 7780	126	123	129	26.9	2	1	138
EK PREMIUM	EK 7785	135	127	142	25.1	1	1	128
FONTANELLE	611	136	120	152	29.2	1	0	123
FUNK'S	G-4450	132	115	148	25.8	2	1	107
GSA	GSA 2020	124	126	122	20.8	1	1	125
GSA	GSA 2120	131	109	153	25.8	1	2	140
MIGRO	HP-360	127	123	130	23.8	2	1	157
MIGRO	HP-44	135	110	159	29.8	0	1	115
MIGRO	HP-470	131	121	141	26.7	1	1	127
MIGRO	M-2022X	117	95	139	32.2	1	0	141
NC+	4155	122	116	128	24.3	1	1	116
NC+	4666	139	124	153	23.7	1	3	120
NC+	4710	126	117	135	27.4	1	0	128
PAG	SX 351	146	131	161	28.5	1	1	116
PAG	SX 397	107	98	115	21.4	2	1	117
STAUFFER SEEDS	375	141	123	159	29.8	1	1	130
STAUFFER SEEDS	6389	127	120	133	24.4	0	1	130
TALL CORN	SX115	132	109	154	30.3	0	0	119
TALL CORN	SX120	135	119	151	29.6	0	1	125
TROJAN	T1058	127	117	137	25.1	2	3	115
TROJAN	T1100	136	129	142	26.6	2	2	138
WAC	917	134	111	156	26.3	2	1	145
WAC	918	146	125	166	28.7	1	1	141
WAC	920C	127	113	140	29.7	1	1	115
WILSON	1100B	131	130	131	22.1	2	1	152
WILSON	1300	137	127	146	20.0	1	1	113
AVERAGE ALL ENTRIES		131.8	119.6	143.4	26.1	1.0	1.0	126.4
DIF. REQ. FOR SIG. 5%		N.S.	16.6	19.5	1.4	N.S.	N.S.	23.9
25%		N.S.	9.8	11.5	0.8	N.S.	0.9	13.8

TABLE 6b. SOUTHWEST ECOFALLOW. 1977-1980.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT

2 YEAR AVERAGE					
-----	NEBR. 611	100	22.5	2	3
-----	NEBR. 714	91	23.4	0	2
ASGROW	RX511	95	13.7	1	7
CENEX	2108	90	15.3	0	3
CENEX	2157	94	17.4	1	7
EK PREMIUM	EK 7760	95	14.3	1	3
EK PREMIUM	EK 7770	97	17.6	0	1
FUNK'S	G-4450	95	18.8	2	5
MIGRO	HP-360	93	16.3	1	2
MIGRO	HP-470	94	18.7	0	2
MIGRO	M-2022X	86	22.5	1	4
STAUFFER SEEDS	375	101	23.0	1	4
STAUFFER SEEDS	6389	95	17.7	1	4
TROJAN	T1058	95	17.6	1	4
AVERAGE ALL ENTRIES		94.3	18.5	0.9	3.6
DIF. REQ. FOR SIG. 5%		N.S.	3.1	N.S.	N.S.
25%		N.S.	2.1	N.S.	N.S.

3 YEAR AVERAGE					
-----	NEBR. 611	106	21.9	2	4
-----	NEBR. 714	98	23.2	1	2
CENEX	2157	102	15.2	3	8
FUNK'S	G-4450	98	18.5	1	4
TROJAN	T1058	94	16.9	1	5
AVERAGE ALL ENTRIES		99.7	19.1	1.6	4.6
DIF. REQ. FOR SIG. 5%		N.S.	2.9	N.S.	N.S.
25%		N.S.	1.5	N.S.	2.7

4 YEAR AVERAGE					
-----	NEBR. 611	92	21.3	1	3
CENEX	2157	91	14.1	2	7
AVERAGE ALL ENTRIES		91.2	17.7	1.5	5.0
DIF. REQ. FOR SIG. 5%		N.S.	3.9	N.S.	3.9
25%		N.S.	1.8	N.S.	1.8

5 YEAR AVERAGE					
-----	NEBR. 611	91	22.8	1	3

Location of tests (Counties): 1977 Gosper, Lincoln; 1978 Lincoln, Red Willow; 1979 Lincoln, Frontier; 1980 Lincoln, Gosper.

TABLE 7a. ZONE III WEST CENTRAL IRRIGATED. SUMMARY. 1981.

BRAND	HYBRID	YIELD			1981 AVERAGE		
		AVERAGE BU/A	MCPHERSON BU/A	KEITH BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT
-----	NEBR. 611	146	123	169	23.0	1	0
ACCO PAYMASTER	UC 2990	126	110	141	18.8	4	1
ACCO PAYMASTER	UC 8201	153	120	185	20.5	1	1
ACCO PAYMASTER	X94790	144	126	162	18.9	1	1
ASGROW	RX511	140	109	170	19.3	2	1
ASGROW	RX858	147	121	173	21.8	0	0
BO-JAC	432	128	114	142	18.2	3	1
BO-JAC	452	148	118	178	19.4	3	0
BO-JAC	462	160	124	195	21.1	1	0
BO-JAC	562	162	122	202	21.9	1	0
CARGILL	921	149	126	172	20.5	1	0
CARGILL	924	137	116	158	18.4	4	0
CENEX	2114	139	114	164	19.8	1	0
CENEX	2371	153	128	178	20.6	2	0
CIRCLE SEED	C-S 209	142	118	165	21.3	1	0
CIRCLE SEED	C-S 210	159	133	185	21.3	1	1
CIRCLE SEED	C-S 212	139	113	164	20.6	1	0
CIRCLE SEED	C-S 2152	156	112	200	22.6	1	1
CURRY	1455	137	104	170	21.3	1	0
CURRY	1462	135	121	148	20.3	1	0
CURRY	150	151	117	185	22.8	1	0
DEKALB	XL28	127	124	129	18.1	2	1
DEKALB	XL55A	143	114	172	20.1	3	0
DEKALB	XL67	137	112	162	20.8	1	0
DEKALB	XL72AA	148	105	190	22.2	0	1
EK PREMIUM	EK 7770	147	131	163	19.7	1	0
EK PREMIUM	EK 7780	142	113	171	20.5	2	0
EK PREMIUM	EK 8800	154	117	190	22.3	2	0
EK PREMIUM	EK 8860	149	143	154	23.7	2	0
FONTANELLE	420	139	116	162	20.1	1	1
FONTANELLE	435	139	114	163	19.1	1	0
FONTANELLE	580	148	121	174	21.3	1	0
FUNK'S	G-4435	137	121	153	18.9	1	1
GOLD TAG	2006	135	126	144	19.7	1	1
GOLD TAG	3006	146	113	179	20.7	2	0
GSA	GSA 2020	126	115	137	18.9	2	1
GSA	GSA 2120	129	109	148	19.7	1	1
GSA	2260	128	105	150	18.8	1	1
HORIZON	EXP. 211	144	128	159	19.7	1	0
HORIZON	131	152	127	176	18.7	1	0
HORIZON	212	136	112	160	20.9	1	0
HORIZON	870	143	120	166	22.2	1	0
LYNKS	LX 4210	125	110	140	18.1	2	1
LYNKS	LX 4305	138	123	152	19.0	3	1
LYNKS	LX 4315	142	119	165	21.0	1	0

CONTINUED

TABLE 7a. CONCLUDED.

BRAND	HYBRID	YIELD			1981 AVERAGE		
		AVERAGE BU/A	MCPHERSON BU/A	KEITH BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT
LYNKS	LX 4355	150	112	197	23.0	1	1
MC CURDY	5225	135	127	142	19.3	2	0
MC CURDY	6475	137	114	160	20.1	2	0
MC CURDY	6555	158	125	190	21.4	1	0
MC CURDY	84	158	118	197	22.1	1	0
MIGRO	HP-360	130	110	149	19.4	1	1
MIGRO	HP-44	166	129	203	21.4	2	1
MIGRO	HP-470	146	118	173	21.3	1	0
MIGRO	M-2022X	177	144	209	23.9	0	0
NC+	3830	134	116	152	19.4	1	0
NC+	3990	121	101	141	19.8	1	1
NC+	4155	131	117	145	18.5	1	0
NORTHROP KING	PX 59	136	117	154	18.6	1	0
NORTHROP KING	PX 69A	131	115	146	18.8	1	0
NORTHROP KING	X 6169	133	102	163	18.6	1	1
O'S GOLD	EXP. 25701	157	132	182	21.6	1	0
O'S GOLD	5500A	163	117	208	22.1	1	0
O'S GOLD	6882	160	125	194	20.8	1	0
PAG	SX 333	154	115	193	22.6	1	0
PAG	SX 351	158	133	183	19.8	1	0
PAG	SX 397	138	124	152	17.8	1	0
PAYCO	EXP SX82438	135	112	157	20.8	1	0
PAYCO	SX 844	142	122	161	19.7	3	1
PAYCO	SX 860	156	128	184	20.6	1	0
PAYCO	SX 990	162	125	198	22.2	1	0
SOKOTA	TS 75	148	118	178	21.7	1	0
SOKOTA	TS 82	161	123	199	22.6	2	0
SOKOTA	660	133	113	153	19.5	1	0
SOKOTA	840	154	122	185	22.5	1	0
STAUFFER SEEDS	5260	137	129	144	18.3	1	0
STAUFFER SEEDS	6389	138	109	167	19.1	1	1
STAUFFER SEEDS	6595A	139	120	158	19.8	2	0
TODD	M5505	145	123	166	21.1	1	0
TROJAN	T1000	137	123	151	19.3	2	0
TROJAN	T1058	132	115	149	18.6	1	0
TROJAN	T1100	144	118	169	20.1	2	1
WILSON	1600	150	119	180	20.1	1	1
WILSON	1600A	138	108	167	18.7	2	0
WINTERSET HYBRIDSX63		138	108	168	19.6	1	0
WINTERSET HYBRIDSX68		163	116	209	21.8	2	0
AVERAGE ALL ENTRIES		143.9	118.7	168.6	20.4	1.4	0.3
DIF. REQ. FOR SIG. 5%		N.S.	N.S.	22.9	N.S.	N.S.	N.S.
25%		15.5	N.S.	13.5	2.2	N.S.	N.S.

TABLE 7b. ZONE III WEST CENTRAL IRRIGATED. 1976-1981. NO 1979 DATA.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
2 YEAR AVERAGE					
-----	NEBR. 611	157	20.0	1	0
ACCO PAYMASTER	UC 8201	176	18.7	1	1
ASGROW	RX858	133	17.5	0	0
BO-JAC	432	148	15.8	2	1
BO-JAC	452	153	17.0	2	0
CENEX	2114	150	17.5	0	0
CENEX	2371	151	18.8	1	0
CIRCLE SEED	C-S 210	163	17.8	1	1
CIRCLE SEED	C-S 212	163	18.0	1	0
CURRY	1455	145	18.3	1	0
CURRY	1462	142	17.2	1	0
CURRY	150	169	19.7	0	0
DEKALB	XL55A	150	17.6	3	0
EK PREMIUM	EK 7770	151	17.0	0	0
FONTANELLE	420	144	16.8	1	0
FONTANELLE	580	156	19.0	0	0
FUNK'S	G-4435	156	17.7	0	1
HORIZON	870	153	19.4	0	0
LYNKS	LX 4315	157	18.4	1	0
MC CURDY	5225	136	16.1	1	0
MC CURDY	6475	136	16.8	2	0
MIGRO	M-2022X	159	18.9	0	0
NC+	3990	133	16.8	1	0
NORTHROP KING	PX 69A	147	16.7	1	0
PAG	SX 333	161	19.3	1	0
PAG	SX 351	164	18.5	1	0
PAG	SX 397	138	15.5	1	0
PAYCO	SX 844	143	16.3	1	0
PAYCO	SX 990	155	20.0	1	0
STAUFFER SEEDS	5260	145	16.3	1	0
STAUFFER SEEDS	6595A	157	17.1	1	0
TODD	M5505	161	17.9	0	0
WILSON	1600	172	18.1	1	0
WINTERSET HYBRIDSX68		187	19.7	1	0
AVERAGE ALL ENTRIES		153.3	17.8	0.9	0.1
DIF. REQ. FOR SIG. 5%		N.S.	2.3	N.S.	N.S.
25%		16.8	1.3	0.7	0.3
3 YEAR AVERAGE					
-----	NEBR. 611	153	19.8	1	0
DEKALB	XL55A	149	17.4	8	0
HORIZON	870	154	19.3	1	0
NC+	3990	132	17.0	1	0
PAG	SX 333	161	19.3	2	0
PAG	SX 397	139	15.5	9	0
AVERAGE ALL ENTRIES		147.9	18.1	3.7	0.0
DIF. REQ. FOR SIG. 5%		9.5	0.9	N.S.	N.S.
25%		5.2	0.5	N.S.	N.S.
4 YEAR AVERAGE*					
-----	NEBR. 611	153	20.8	4	1
PAG	SX 397	148	16.4	10	0
AVERAGE ALL ENTRIES		150.6	18.6	7.0	0.5
DIF. REQ. FOR SIG. 5%		N.S.	0.9	N.S.	N.S.
25%		N.S.	0.4	N.S.	N.S.
5 YEAR AVERAGE					
-----	NEBR. 611	145	22.0	3	1
PAG	SX 397	139	17.4	9	0
AVERAGE ALL ENTRIES		142.2	19.7	6.0	0.5
DIF. REQ. FOR SIG. 5%		N.S.	0.7	N.S.	N.S.
25%		N.S.	0.4	8.2	N.S.

Location of tests (Counties): 1976 McPherson, Keith; 1977 Custer;
1978 Logan, Chase; 1980-1981 McPherson, Keith.

TABLE 8a. ZONE IV IRRIGATED. SUMMARY. 1981.

BRAND	HYBRID	YIELD				1981 AVERAGE				TASSEL JULY 1 + DAYS	PLANT HEIGHT
		AVERAGE BU/A	S. BLUFF BU/A	B. BUTTE BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT	BUSHEL WEIGHT			
ACCO PAYMASTER	UC 2951	155	152	157	21.1	0	0	53.6	27	93	
ACCO PAYMASTER	UC 2990	168	165	171	24.3	0	0	51.9	27	92	
ASGROW	RX511	193	200	186	22.2	0	0	53.9	35	105	
BO-JAC	117	158	155	160	20.9	0	0	53.9	28	99	
BO-JAC	214	166	171	160	25.6	0	0	51.1	30	97	
BO-JAC	37	164	159	169	28.8	0	0	48.0	30	106	
BO-JAC	432	169	181	157	25.0	0	0	50.1	34	99	
CARGILL	436	144	146	141	25.7	0	0	50.8	30	103	
CARGILL	832	136	142	129	21.6	0	0	53.1	24	101	
CARGILL	834	160	169	151	19.8	0	0	55.7	27	102	
CARGILL	862	127	123	130	24.1	0	0	51.3	25	98	
CENEX	2106	159	151	166	22.0	0	0	53.0	28	97	
CENEX	2108	167	160	173	23.2	0	0	51.9	26	90	
CENEX	2119	177	182	172	19.3	0	0	54.6	29	105	
CENEX	2157	172	166	177	26.2	0	0	50.0	32	99	
DEKALB	XL28	154	149	158	25.5	0	0	50.9	27	98	
DEKALB	XL32A	182	181	182	26.5	0	0	50.8	31	107	
DEKALB	XL36	164	159	168	26.4	0	0	50.8	29	98	
DEKALB	XL55A	170	168	171	28.5	0	0	50.3	34	108	
EK PREMIUM	EK 7700	154	158	150	27.0	0	0	48.3	34	105	
EK PREMIUM	EK 7760	193	219	167	26.1	0	0	51.0	34	111	
EK PREMIUM	EK 7770	176	175	177	28.4	0	0	51.1	35	105	
EK PREMIUM	EK 7780	157	155	159	28.5	0	0	48.8	33	102	
FONTANELLE	330	134	152	115	20.8	0	0	53.9	27	93	
FONTANELLE	420	156	169	142	26.7	0	0	49.3	34	109	
FUNK'S	G-4256	154	156	151	22.0	0	0	54.5	27	102	
HORIZON	131	152	155	149	26.7	0	0	48.7	33	102	
HORIZON	206	184	194	174	23.3	0	0	52.5	33	104	
HORIZON	210	158	161	154	24.2	0	0	51.9	33	103	
HORIZON	212	160	166	153	30.1	0	0	47.9	35	103	
LYNKS	LX 4040	184	185	183	19.2	0	0	55.8	25	96	
LYNKS	LX 4075	147	151	142	20.6	0	0	53.3	27	97	
LYNKS	LX 4100	140	134	146	24.3	0	0	51.9	28	92	
LYNKS	LX 4127	159	143	175	25.5	0	0	49.9	29	100	
MC CURDY	4664	159	173	145	20.7	0	0	53.4	25	94	
MC CURDY	4855	161	159	162	22.9	0	0	51.8	29	94	
MC CURDY	5225	153	153	153	25.6	0	0	49.8	32	102	
MC CURDY	5596	175	189	160	26.6	0	0	49.5	34	101	
MIGRO	HP-20	140	145	135	22.3	0	0	53.9	26	93	
MIGRO	HP-277	162	155	168	21.1	0	0	52.8	28	101	
MIGRO	HP-360	153	153	153	25.2	0	0	51.1	30	100	
MIGRO	M-2022X	142	160	123	37.3	0	0	46.0	38	113	
NC+	1341	175	161	189	17.8	0	0	56.5	25	96	
NC+	2111	161	167	154	22.0	0	0	53.1	27	98	
NORTHRUP KING	PX 39	168	166	170	26.6	0	0	49.1	34	106	
NORTHRUP KING	PX 49	164	168	160	21.9	0	0	53.5	33	110	
NORTHRUP KING	X 6668	145	130	160	18.4	0	0	56.6	24	93	
O'S GOLD	1107	170	175	164	26.4	0	0	48.4	32	104	
O'S GOLD	6880	171	180	162	24.4	0	0	51.5	27	94	
PAG	SX 157	151	143	158	16.8	0	0	58.0	22	92	
PAG	SX 177	156	151	161	20.7	0	0	55.8	27	98	
PAG	SX 181	171	168	173	21.7	0	0	54.9	27	97	
PAG	SX 189	149	149	149	22.7	0	0	54.1	28	96	
PAYCO	SX 599	157	158	155	17.8	0	0	56.3	25	94	
PAYCO	SX 620	169	180	157	21.1	0	0	53.8	28	99	
PAYCO	SX 756	156	156	156	27.7	0	0	48.6	34	102	
PAYCO	SX 788	159	157	160	24.5	0	0	52.1	27	93	
SOKOTA	TS 60	162	164	159	21.6	0	0	53.3	29	99	
SOKOTA	TS 62A	179	182	176	23.1	0	0	52.6	33	108	
SOKOTA	660	166	187	145	24.8	0	0	50.5	31	96	
STAUFFER SEEDS	3242	166	158	173	19.0	0	0	55.9	26	94	
STAUFFER SEEDS	4402	175	173	177	20.6	0	0	54.1	27	97	
STAUFFER SEEDS	5602	162	168	155	25.1	0	0	51.1	28	98	
TROJAN	T1000	156	158	153	24.0	0	0	51.6	27	93	
TROJAN	T950	169	162	175	21.9	0	0	53.6	28	101	
WINTERSET HYBRIDSX43		178	168	188	24.5	0	0	51.9	26	94	
WINTERSET HYBRIDSX63		154	165	143	28.2	0	0	49.0	34	103	
AVERAGE ALL ENTRIES		161.6	163.2	159.5	23.8	0.0	0.0	52.1	29.4	99.6	
DIF. REQ. FOR SIG. 5%		23.3	29.0	25.8	2.8			1.7	2.9	5.6	
25%		13.6	17.1	15.2	1.6			1.0	1.7	3.2	

TABLE 8b. ZONE IV IRRIGATED. 1978-1981.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT	BUSHEL WEIGHT LBS
2 YEAR AVERAGE						
ACCO PAYMASTER	UC 2951	153	22.1	0	0	54.1
ACCO PAYMASTER	UC 2990	159	25.6	0	0	52.1
ASGROW	RX511	176	24.3	0	0	53.4
BO-JAC	117	152	22.8	0	0	53.5
BO-JAC	214	163	25.7	0	0	51.7
BO-JAC	432	162	28.2	0	0	50.5
CARGILL	436	150	25.7	0	0	51.5
CARGILL	832	137	22.3	0	0	53.1
CENEX	2106	159	23.2	0	0	53.4
CENEX	2108	158	24.9	0	0	52.1
CENEX	2157	162	26.9	0	0	50.6
DEKALB	XL32A	160	27.9	0	0	50.6
EK PREMIUM	EK 7700	151	28.3	0	0	50.3
EK PREMIUM	EK 7770	167	29.3	0	0	51.8
FONTANELLE	330	134	21.8	0	0	54.5
FUNK'S	G-4256	144	23.1	0	0	54.2
LYNKS	LX 4075	147	22.8	0	0	53.6
LYNKS	LX 4100	150	25.7	0	0	51.9
MC CURDY	4664	154	22.0	0	0	53.3
MC CURDY	4855	153	24.5	0	0	52.2
MC CURDY	5225	148	25.2	0	0	51.0
MC CURDY	5596	157	28.4	0	0	50.1
MIGRO	HP-20	147	22.0	0	0	55.3
MIGRO	HP-360	146	26.1	0	0	51.5
MIGRO	M-2022X	140	31.7	0	0	49.4
NORTHROP KING	PX 39	160	26.8	0	0	49.7
NORTHROP KING	PX 49	158	23.0	0	0	53.6
O'S GOLD	1107	168	27.1	0	0	49.8
O'S GOLD	6880	164	25.1	0	0	52.1
PAG	SX 181	158	22.0	0	0	55.5
PAYCO	SX 620	159	22.4	0	0	53.6
STAUFFER SEEDS	3242	155	20.3	0	0	55.9
STAUFFER SEEDS	4402	159	23.0	0	0	53.5
STAUFFER SEEDS	5602	159	25.6	0	0	51.7
WINTERSET HYBRIDS	X43	168	25.9	0	0	52.1
AVERAGE ALL ENTRIES		155.3	24.9	0.0	0.0	52.4
DIF. REQ. FOR SIG. 5%		14.1	2.8	---	---	2.2
25%		8.1	1.6	---	---	1.2
3 YEAR AVERAGE						
ACCO PAYMASTER	UC 2951	153	21.8	0	0	54.7
BO-JAC	432	158	27.0	0	0	51.7
CARGILL	832	129	21.5	0	0	54.2
CENEX	2157	158	25.3	0	0	52.0
DEKALB	XL32A	156	26.8	0	0	51.6
FONTANELLE	330	130	21.9	0	0	55.3
MC CURDY	5596	162	26.8	0	0	51.7
NORTHROP KING	PX 49	156	22.2	0	0	54.9
O'S GOLD	1107	163	26.1	0	0	51.4
AVERAGE ALL ENTRIES		151.6	24.4	0.0	0.0	53.1
DIF. REQ. FOR SIG. 5%		17.7	2.2	---	---	1.3
25%		9.9	1.2	---	---	0.7
4 YEAR AVERAGE						
ACCO PAYMASTER	UC 2951	146	23.0	0	0	54.4
CARGILL	832	126	22.5	0	0	54.1
CENEX	2157	156	25.7	0	0	52.1
NORTHROP KING	PX 49	150	23.1	0	0	54.8
O'S GOLD	1107	156	27.3	0	0	50.9
AVERAGE ALL ENTRIES		146.9	24.3	0.0	0.0	53.3
DIF. REQ. FOR SIG. 5%		11.1	1.5	---	---	1.8
25%		6.2	0.8	---	---	1.0

TABLE 9a. ECOFALLOW. EARLY HYBRIDS. SUMMARY. 1981.

BRAND	HYBRID	YIELD				1981 AVERAGE				
		AVERAGE BU/A	CHEYENNE BU/A	LINCOLN BU/A	CUSTER BU/A	PERKINS BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT	EARS/100 PLANTS
ASGROW	RX511	107	62	126	122	118	20.9	7	0	133
	37	92	45	125	106	93	25.6	5	1	120
	2106	101	59	138	107	98	18.2	3	2	159
	3094	79	52	107	74	82	15.2	3	2	132
	XL25A	96	51	119	115	99	20.5	2	1	130
DEKALB	XL28	96	53	133	109	89	22.6	1	0	127
	XL32AA	94	50	115	103	109	26.1	11	1	124
	EK PREMIUM	98	55	122	114	102	25.2	8	0	117
	EK PREMIUM	96	54	126	108	97	21.8	2	0	139
	EK PREMIUM	102	53	130	121	102	25.3	1	0	125
MIGRO	EK PREMIUM	93	33	117	117	106	26.8	1	0	138
	HP-20	88	50	114	82	97	19.2	5	1	121
	HP-277	93	53	132	90	95	20.4	7	4	165
	HP-360	91	45	122	94	101	23.3	9	2	146
	M-2022X	78	21	93	107	90	32.1	1	0	141
STAUFFER SEEDS	205	88	50	118	94	91	18.5	6	2	123
	3306	93	59	129	79	106	19.4	14	3	113
	T1000	104	62	129	114	109	22.2	2	1	146
	T1058	93	48	123	101	99	24.1	9	1	133
AVERAGE ALL ENTRIES		93.8	50.8	122.0	103.0	99.1	22.5	5.1	1.1	133.3
DIF. REQ. FOR SIG. 5%		13.3	11.9	17.4	17.1	17.8	1.9	N.S.	N.S.	2.3
25%		7.7	6.9	10.1	10.0	10.4	1.1	N.S.	N.S.	1.3

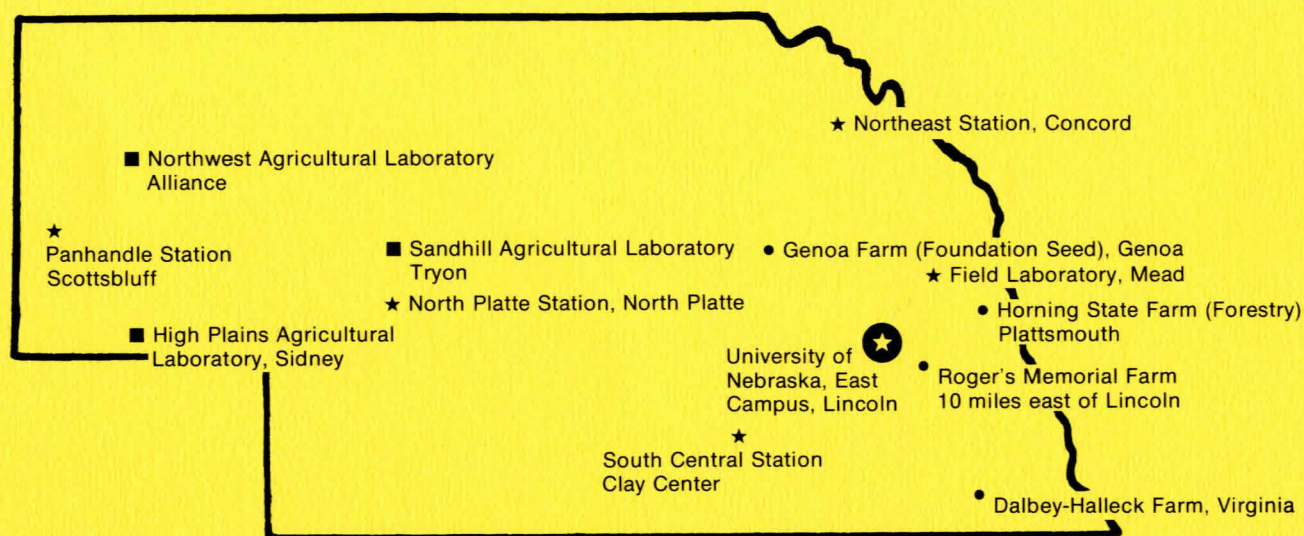
TABLE 9b. ECOFALLOW EARLY HYBRIDS. 1978-1981.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
2 YEAR AVERAGE					
CENEX	2106	71	17.0	2	1
EK PREMIUM	EK 7700	69	24.1	4	0
EK PREMIUM	EK 7770	72	25.1	0	0
MIGRO	HP-20	63	16.8	3	2
MIGRO	HP-360	66	21.2	4	1
MIGRO	M-2022X	59	27.3	1	0
STAUFFER SEEDS	205	65	17.4	4	2
TROJAN	T1058	71	22.3	5	1
AVERAGE ALL ENTRIES		66.9	21.4	2.9	0.9
DIF. REQ. FOR SIG. 5%		N.S.	4.5	N.S.	N.S.
25%		N.S.	2.4	N.S.	0.6
3 YEAR AVERAGE					
TROJAN	T1058	70	23.3	4	1
4 YEAR AVERAGE					
TROJAN	T1058	59	21.0	3	1

None of the hybrids in the 1981 trial were included in 1977.

Location of tests (Counties): 1978 Cheyenne, Lincoln, Dundy;
1979 Cheyenne, Lincoln, Custer; 1980 Cheyenne, Chase, Lincoln,
Custer; 1981 Cheyenne, Lincoln Custer, Perkins.

Agricultural Research for All of Nebraska



The agricultural research division of the Institute of Agriculture and Natural Resources is the Nebraska Agricultural Experiment Station. The Experiment Station relies on its research centers and field laboratories to provide applied knowledge for development of Nebraska's largest industry—agriculture. In addition, many Nebraska farmers cooperate by furnishing land and other facilities for research projects. This provides information from areas not well represented by stations.

The Cooperative Extension Service transmits data to users through District and County Ex-

tension Offices. Area and County Extension Agents are available to provide additional interpretation and more specific recommendations.

Nebraska is a large state and has great variation due to topography and the continental type of climate. The elevation ranges from 1,000 feet to near a mile high in the northwest portion of the state, rainfall varies from 14 to 40 inches per year, and the soil types vary from sands to heavy clays. The research program thus is broad in subject matter and geography, resulting in the need for various stations and satellite locations.

The Cooperative Extension Service provides information and educational programs to all people without regard to race, color or national origin.