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EC83-105 Nebraska Corn Performance Tests 1982

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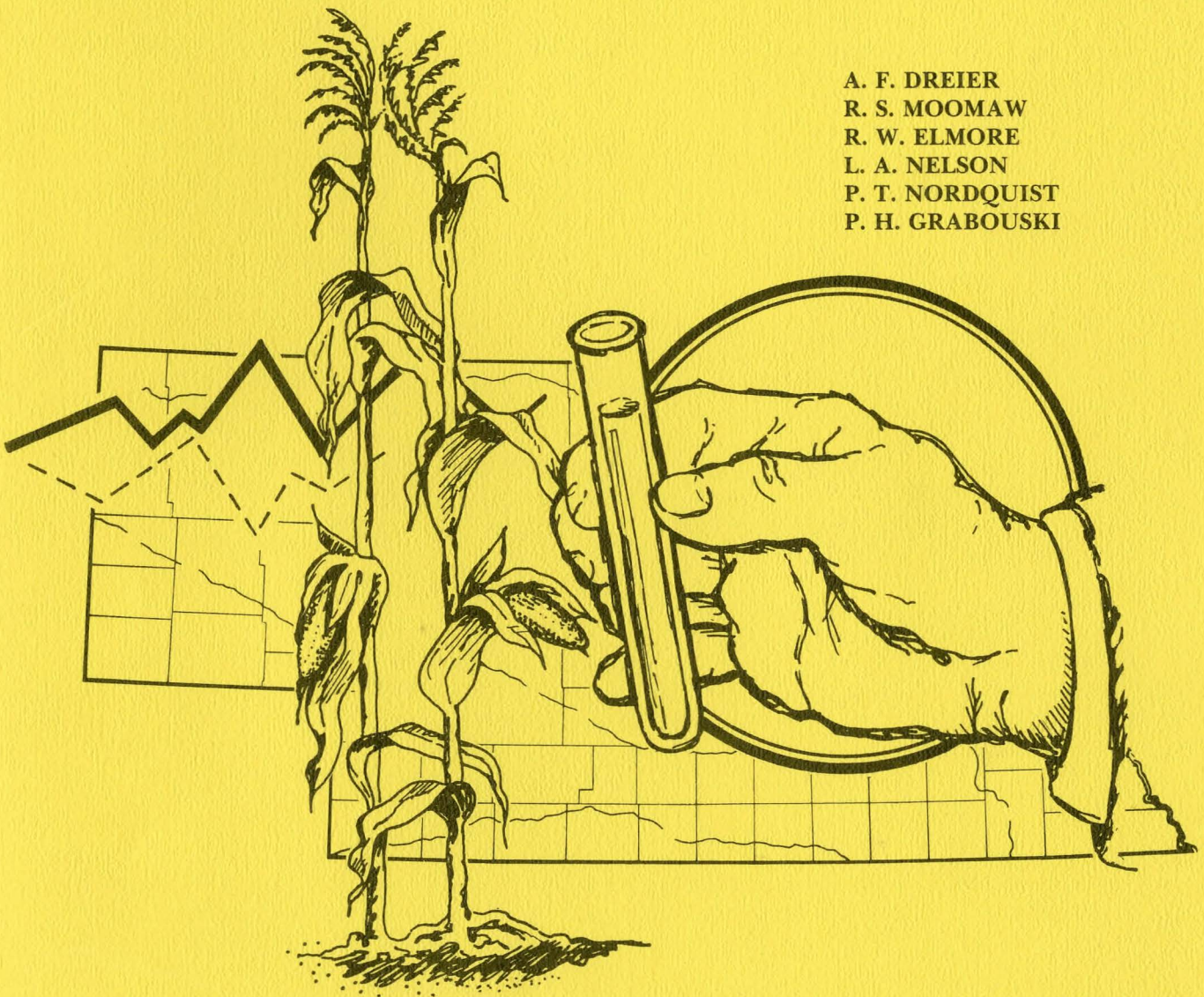
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NEBRASKA COOPERATIVE EXTENSION SERVICE—E.C. 83-105

NEBRASKA CORN PERFORMANCE TESTS 1982

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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

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)

EXTENSION CIRCULAR 83-105

January 1983

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NEBRASKA CORN PERFORMANCE TESTS 1982

Based on the November 1 yield estimate, Nebraska corn production in 1982 was 786.6 million bushels. Recent yields were as follows (bu/A).

	1977	1978	1979	1980	1981	1982
State	99.0	112.0	115.0	85.0	115.0	114.0
Irrigated	116.0	125.0	128.0	101.0	129.0	124.0
Dryland	64.2	84.7	87.6	48.2	78.4	87.7

The 1982 acreage harvested for grain was 6.9 million of which 5 million acres were irrigated.

The 1982 season was much cooler and wetter than normal. Wet weather in May delayed planting. Crop development was ten days to two weeks behind all summer. Harvest was delayed by high grain moisture and unfavorable weather. Stalk rots, corn borer damage and storms contributed to high field losses.

Fourteen corn performance tests were planted in 1982. A trial planned for Richardson County was not planted because wet weather made the probable planting date later than June 10. Test locations are shown on the map (Page 3), and cooperators and dates of planting and harvest are included in Table A.

These trials are conducted to provide yield and other information about some of the corn hybrids which may be offered for sale in Nebraska. A fee was charged to cover a portion of the cost of establishing tests. Entry was on a voluntary basis and hybrids were selected by the seed producer. Each was limited to four hybrids at each location. Seed was furnished by producers from lots of their selection.

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 density. Individual plots were two rows wide and 15 to 35 feet long.

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.

Table A. Location and dates of planting and harvest.
Nebraska Corn Performance Tests. 1982.

Location	Cooperator	Planted	Harvest
Zone I Nonirrigated			
Richardson	Not planted-wet weather	----	----
Otoe	Donald Hopp, Talmage	June 4	Nov. 15, 16
Zone II Nonirrigated			
Washington	Wes Anderson, Kennard	June 1	Nov. 4, 5
Polk	Eugene Gable, Shelby	June 10	Nov. 8, 10
Zone II Irrigated			
Clay	South Central Station	May 4	Oct. 28, 29
Kearney	Bill Nielsen, Minden	June 8	Nov. 10, 15, 16
Zone III Nonirrigated			
Dixon	Northeast Station	May 4	Nov. 2, 5, 16, 18
Cedar	Gerald Hochstein, Hartington	May 18	Nov. 8
Zone III Irr. Northeast			
Pierce	Ganzebom Farms, Osmond	May 10	---- ^{1/}
Southwest Ecofallow			
Lincoln	North Platte Station	June 3, 4	Nov. 4, 5
Zone III Irr. West Central			
Lincoln	North Platte Station	May 19, 27	Oct. 26, 27, 29
Zone IV Irrigated			
Scotts Bluff	Panhandle Station	May 6	Nov. 17
Box Butte	Northwest Ag. Lab.	May 4	Nov. 4
Early Ecofallow			
Lincoln	North Platte Station	June 3, 4	Nov. 1, 2
Cheyenne	High Plains Ag. Lab.	May 7	Oct. 25

^{1/} Abandoned, stand loss from herbicide injury.

Table B. Average Performance of hybrids at each test location. 1982.

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 Otoe	38	2.5	30	13,760	10.0	95.6	21.5	16.2	1.2	0.25*
Zone II Nonirrigated Washington	38	2.6	38	14,310	11.5	99.1	22.6	7.7	0.7	0.43**
Polk	36	2.6	36	15,100	9.6	108.5	28.1	4.6	0.1	0.14
Zone II Irrigated Clay	30	1	8.4	24,800	11.5	154.5	17.1	3.1	0.4	0.25**
Kearney	36	1	7.8	26,800	12.0	133.8	26.8	0.1	1.9	0.00
Zone III Nonirrigated Dixon	30	1	15.1	13,870	9.9	130.4	18.8	6.6	0.3	0.44**
Cedar	30	1	13.2	15,860	8.3	122.6	20.4	5.1	1.4	0.37**
Southwest Ecofallow Lincoln	30	1	16.0	13,100	15.7	74.8	29.1	2.5	2.3	-0.80**
Zone III Irrigated West Central Lincoln	30	1	9.1	22,880	9.9	153.3	23.6	9.1	2.8	0.60**
Zone IV Irrigated Scotts Bluff	30	1	15.0	13,900	14.6	132.7	23.5	6.8	0.0	-0.28*
Box Butte	30	1	10.5	19,980	13.4	109.4	34.9	0.4	0.0	-0.56**
Early Ecofallow Lincoln	30	1	15.8	13,270	10.2	81.9	18.7	3.9	2.7	-0.48*
Cheyenne	30	1	21.9	9,560	13.5	57.5	23.0	0.4	0.0	-0.34

^{1/} Hand harvest--Lincoln, 3 tests. Others machine harvest.

^{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 high yields.

Stalk rot readings were taken previous to harvest in Clay and Kearney 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.

Names and addresses of entrants are shown in Table C. The brand name, hybrid designation and area where grown for each 1982 entry are shown in Table D.

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

Nebr. 611	N7A x Mo17
Nebr. 714	B73 x N132
Nebr. 715	N139 x B73
Nebr. Exp. 9059	N152 x B73
Nebr. Exp. 9060	N181 (B73 x CM105)
Nebr. Exp. 9061	N186 x B73
Nebr. Exp. 9062	N187 x B73

Several of the lines in experimental combinations have not been released.

Table C. Entrants. Nebraska Corn Performance Tests. 1982.

Brand	Entrant	Address
---	NE Agricultural Experiment Station	Lincoln, NE 68583
AgriGold	AgriGold Seed Company	Boone, IA 50036
Asgrow	Asgrow Seed Company	Kalamazoo, MI 49001
Bo-Jac	Bo-Jac Hybrid Corn Company	Mt. Pulaski, IL 62548
Cargill	Cargill Seeds	Minneapolis, MN 55440
Cenex	Cenex	St. Paul, MN 55164
Crows	Crows Hybrid Corn Company	Milford, IL 60953
Curry	Curry Seed Company	Elk Point, SD 57025
Curtis	Curtis Seeds	Vermillion, SD 57069
DeKalb	DeKalb Ag Research, Inc.	DeKalb, IL 60115
Federal	Federal Hybrids	Marion, IA 52302
Fontanelle	Fontanelle Hybrids	Nickerson, NE 68044
Funk's	Funk Seeds International	Bloomington, IL 61701
Gold Tag	Ferry-Morse Seed Company	Geneseo, IL 61254
Golden Acres	Taylor-Evans Seed Company	Tulia, TX 79088
Green Acres	Green Acres	Hartington, NE 68739
Hawkeye (Fruendt)	Hawkeye Hybrids	Pella, IA 50219
Hoegemeyer	Hoegemeyer Hybrids	Hooper, NE 68031
Horizon	Horizon Seeds, Inc.	Lincoln, NE 68501
Jacques	Jacques Seed Company	Prescott, WI 54021
Kaltenberg	Kaltenberg Seed Farms	Waunakee, WI 53597
Keltgen	Keltgen Seed Company	Doniphan, NE 68832
Land O'Lakes	Land O'Lakes	Minneapolis, MN 55440
Lynks	Lynks Seeds	Marshalltown, IA 50158
McCurdy	McCurdy Seed Company	Fremont, IA 52561
MFA	MFA Inc., Seed Division	Columbia, MO 65201
Migro	Migro	Mission, KS 66201
Northrup King	Northrup King Company	Minneapolis, MN 55440
O's Gold	O's Gold Seed Company	Parkersburg, IA 50665
PAG	PAG Seeds	Minneapolis, MN 55440
Payco	Payco Seeds, Inc.	Dassel, MN 55325
Paymaster	Paymaster Seeds	Belmond, IA 50421
Prairie Stream	Prairie Stream Hybrids, Inc.	Frankfort, IN 46041
S Brand	Schechinger Seed Company	Harlan, IA 51537
Sokota	Sokota Hybrid Producers	Brookings, SD 57006
Stauffer Seeds	Stauffer Seeds	Phillips, NE 68865
Stewart	Stewart Hybrids	Princeville, IL 61559
Super Crost	Edw. J. Funk & Sons	Kentland, IN 47951
Tall Corn	Heneke Hybrid Corn Company	Grinnell, IA 50112
Trojan	Pfizer Genetics	Doniphan, NE 68832
Wilson	Wilson Hybrids, Inc.	Harlan, IA 51537

Table D. List of entries, type of cross and tables in which data are reported. 1982.

Brand	Hybrid	Tables	Brand	Hybrid	Tables
-----	Nebr. Exp. 9060	8,9	DeKalb	XL-74B	1
-----	Nebr. Exp. 9061	3,	Federal	FT41A	4
-----	Nebr. Exp. 9062	3,	Fontanelle	370	8
-----	Nebr. 611	1,2,3,4,5,6,7	Fontanelle	428	4, 7
-----	Nebr. 714	1,2,3	Fontanelle	435	3,4, 7
-----	Nebr. 715	1,2,3	Fontanelle	580	1,2,3,4,5 7
AgriGold	AG-6656	3,4	Fontanelle	590	3
AgriGold	AG-6659	4	Fontanelle	611	1, 6
AgriGold	AG-6699	2,3,4	Fontanelle	680	1,2,3
AgriGold	AG-8820	2,3	Fontanelle	690	1,2
Asgrow	RX511	7,8,9	Funk's	G-4143	8
Asgrow	RX610	2,3,4, 6,7,8,9	Funk's	G-4256	9
Asgrow	RX622	2,3,4, 6,7, 9	Funk's	G-4438	4, 6,7
Asgrow	RX777	1,2,3,4,5,6,7	Funk's	G-4522	3
Asgrow	RX90	1,2,3,4, 6	Funk's	G-4589	2
Bo-Jac	214	8	Funk's	G-4673A	3
Bo-Jac	432	3	Funk's	G-4733	1
Bo-Jac	452	3	Gold Tag	GT 2006	7
Bo-Jac	56A	3	Gold Tag	GT 3006	7
Bo-Jac	5601	3, 7	Gold Tag	GT 3008	3, 7
Bo-Jac	562	2, 7	Gold Tag	GT 3020	1, 3
Bo-Jac	923	1	Gold Tag	GT 4022	1, 3
Cargill	834	8	Gold Tag	GT 4430	1, 3
Cargill	838	8	Golden Acres	T-E-6995	1, 3, 7
Cargill	861	8	Golden Acres	T-E-6995-A	1, 3, 7
Cargill	862	8	Golden Acres	T-E-6998	1, 3, 7
Cargill	921	4,5, 7	Green Acres	1116	4
Cargill	924	2,3,4,5, 7	Green Acres	4528	4
Cargill	949	1,2,3,4, 6,7	Green Acres	793	4
Cargill	967	1,2,3,4, 6,7	Hawkeye (Fruendt)	SX45A	3
Cargill	980	3	Hawkeye (Fruendt)	SX50A	3
Cenex	2093	9	Hawkeye (Fruendt)	SC60	3
Cenex	2098	8,9	Hoegemeyer	Exp 82-2	1
Cenex	2106	8,9	Hoegemeyer	Exp 82-5	3,4
Cenex	2108	8	Hoegemeyer	SX2630	3,4
Cenex	2110A	4	Hoegemeyer	SX2672	1,2,3
Cenex	2114	1, 3,4,5	Hoegemeyer	SX2684	1,2,3
Cenex	2124	1, 3	Horizon	202	8
Crows	444	2, 4	Horizon	206	4, 8
Crows	555	2, 4	Horizon	211	1,2, 8
Crows	666	2, 4	Horizon	212	3,4 7,8
Crows	688	3	Horizon	816	1,2, 4,5
Crows	690	3	Horizon	870	2, 7
Curry	1424	4,5	Horizon	871	3, 7
Curry	1452	4, 7	Horizon	880	3, 7
Curry	1455	3,4,5, 7	Horizon	882	1
Curry	1490	3,4, 7	Horizon	890	1,2,3
Curry	150	3	Jacques	JX147	9
Curry	1520	2,3, 7	Jacques	JX151	8
Curtis	SX602	4	Jacques	JX177	9
DeKalb	EX-2929	9	Jacques	JX179	1,2,3,4,, 7
DeKalb	EX-4040	4, 7,8	Jacques	JX180	2,3 6
DeKalb	EX-5657	6	Jacques	JX247	1 3
DeKalb	EX-6261	2,3,4, 6,7,8	Jacques	JX77	8
DeKalb	EX-7778	1	Jacques	JX97	8
DeKalb	EX-7979	1	Jacques	7780	3,4, 7
DeKalb	XL-18	9	Jacques	7790	2, 4, 6
DeKalb	XL-25A	9	Jacques	8220	1
DeKalb	XL-32A	8,9	Kaltenberg	KX67	4
DeKalb	XL-55A	4, 6,7,8	Kaltenberg	KX73	4,5
DeKalb	XL-63	6	Kaltenberg	KX77	4
DeKalb	XL-67	2,3,4,5, 7	Keltgen	KS116	1,2,3
DeKalb	XL-71	3	Land O'Lakes	M-1051DR	1, 3,4, 7
DeKalb	XL-72AA	2	Land O'Lakes	M-1061	1, 3,4 7
DeKalb	XL-73	1,2,3	Land O'Lakes	M-1071	1, 3,4 7

CONTINUED

Table D. Concluded.

Brand	Hybrid	Tables	Brand	Hybrid	Tables
Land O'Lakes	M-1131	1, 3, 4, 7	Payco	SX 860	2, 3, 4, 6, 7
Lynks	LX 4075	8	Payco	SX 900	1, 2, 3, 4, 7
Lynks	LX 4100	8	Paymaster	2990	7, 8
Lynks	LX 4210	6, 8	Paymaster	4790	3, 4, 5, 7
Lynks	LX 4225	3, 4, 6, 7, 8, 9	Paymaster	6990	2, 3, 4
Lynks	LX 4232	6	Paymaster	7251	1, 2, 3
Lynks	LX 4315	1, 3, 4, 5, 7	Paymaster	8201	1, 2, 3, 4, 5, 7
Lynks	LX 4315A	1, 3, 4, 7	Paymaster	92989	7, 8
Lynks	LX 4355	1, 3, 4, 7	Prairie Stream	SX50	3
Lynks	LX 4364	1, 2	Prairie Stream	SX710	3
McCurdy	4664	8	Prairie Stream	SX720	3
McCurdy	4956	8	S Brand	SS555	1, 2, 3, 4
McCurdy	5225	7, 8	Sokota	TS-60	8
McCurdy	5596	4, 8	Sokota	TS-62A	8
McCurdy	6252	2	Sokota	TS-75	3, 4, 5, 7
McCurdy	6475	4, 7	Sokota	X81-71	4, 7, 8
McCurdy	6555	2, 3, 4, 5, 7	Sokota	660	4, 5, 7, 8
McCurdy	7384	2, 3, 4, 7	Sokota	820	3
McCurdy	7676	1, 2, 3	Sokota	840	3
McCurdy	7787	1	Stauffer Seeds	B406	8, 9
McCurdy	8150	1	Stauffer Seeds	RBA114+	1, 3
McCurdy	84AA	1, 3	Stauffer Seeds	Super 80	6, 7
MFA	5802	3	Stauffer Seeds	S3242	8
MFA	6707	1, 3	Stauffer Seeds	S3306	8, 9
MFA	6708	1, 3	Stauffer Seeds	S4402	8, 9
Migro	EXP 5129	1	Stauffer Seeds	S6389	2, 4, 5, 6
Migro	HP 201	8	Stauffer Seeds	S6595	4, 7
Migro	HP 266	8, 9	Stauffer Seeds	S6596	2, 3
Migro	HP 277	8, 9	Stauffer Seeds	S7759	1, 2, 3, 4, 6, 7
Migro	HP 360	2, 4, 6, 8, 9	Stauffer Seeds	S7767	1, 2, 4, 6, 7
Migro	HP 401	2, 4, 6, 7	Stauffer Seeds	S7795	1, 3
Migro	HP 44	1, 3	Stewart	7384	1, 3
Migro	HP 470	1, 2, 3, 4, 5, 6, 7	Stewart	77	1
Migro	HP 555	2, 3, 4, 6, 7	Super Crost	3030	7
Migro	SPX 77	1, 3	Super Crost	4337	3, 4, 7
Northrup King	PX39	8, 9	Super Crost	4661	1, 2, 3, 4, 7
Northrup King	PX59	7	Super Crost	5438	1, 2, 3, 4, 7
Northrup King	PX69A	2, 4, 6, 7	Super Crost	5452	1, 2, 4, 5
Northrup King	PX72	2, 3	Super Crost	7600	1, 2, 3
Northrup King	PX74	1, 2, 3, 4, 5	Tall Corn	SX108	3, 4, 7
Northrup King	PX83	1	Tall Corn	SX109	2, 4
Northrup King	PX9288	8, 9	Tall Corn	SX113	7
Northrup King	PX9454	3, 4, 6, 7, 8	Tall Corn	SX114	1, 2, 4, 7
Northrup King	PX95	1	Tall Corn	SX115	3
Northrup King	PX9573	3	Tall Corn	SX116	1
O's Gold	1107	8	Trojan	TXS115A	1, 2, 3, 4, 5
O's Gold	2570	1, 2, 3, 4, 7	Trojan	T1000	7, 8, 9
O's Gold	3344	2	Trojan	T1058	4, 7, 9
O's Gold	5291	1, 3	Trojan	T1100	2, 3, 4, 6, 7
O's Gold	5500A	7	Trojan	T1189	1, 2, 6
O's Gold	6880	4, 5, 8	Trojan	T1230	1, 3
O's Gold	6882	1, 3, 4, 7	Trojan	T950	8
PAG	EXP 101515	3	Wilson	EXP 239	1
PAG	EXP 131161	4, 7	Wilson	1100B	4, 6
PAG	EXP 204155	1, 2, 3	Wilson	1400B	4, 7
PAG	SX181	8	Wilson	1600	3, 4, 5, 7
PAG	SX333	1, 2, 3, 4, 5, 7	Wilson	1600A	4, 7
PAG	SX351	1, 2, 3, 4, 5, 7	Wilson	1700	3, 7
PAG	SX397	4, 5, 8	Wilson	1800A	1, 2
Payco	SX 1000	1	Wilson	1800B	1, 3
Payco	SX 599	8			
Payco	SX 611	8, 9			
Payco	SX 620	8			
Payco	SX 722	8			
Payco	SX 824	4, 6, 7			

Results

Data tables for each zone are shown in sections. The 1982 zone performance is followed by two-, three-, four-, and five-year data (if available).

Two experiments were conducted in many zones. Relative hybrid performance varies with location within zones. Variety x location interactions were highly significant (1% level) in Zone II nonirrigated, Northeast nonirrigated and Ecofallow early hybrid trials. Interactions in the Zone II irrigated and West irrigated trials were significant at the 5% level. 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 is shown in Table B. Higher grain moisture was significantly correlated with higher yield at 6 locations. Lower grain moisture was accompanied by higher grain yield at 4 locations, and there was little or no relationship at 3 locations. Even though these relationships may be significant, they generally do not indicate that maturity was the main factor in hybrid yield differences. 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. The 1982 season was cooler and wetter than normal. Period-of-years averages provide a measure of performance over a wide range of growing conditions.

Zone I Nonirrigated

Data were obtained from Otoe County (Table 1a). Wet weather delayed planting. Harvest was delayed until mid-November. A heavy corn borer infestation along with stalk rot and pre-harvest storms contributed to high broken plant counts. Period-of-years data for southeast Nebraska are shown in Tables 1b and 1c.

Zone II Nonirrigated

Trials in Washington and Polk Counties were planted in early June (Table 2a). Early growth was good. A severe windstorm in early August snapped stalks in Washington County and reduced plant populations and final yields. In Polk County, grain moisture was high. Period-of-years data are shown in Tables 2b and 2c.

Zone II Irrigated

Data from trials in Clay and Kearney Counties are shown in Table 3a. The Clay County test was planted in early May. Planting was delayed in Kearney County. High winds in late July caused some stalk breakage. Harvest moisture was relatively low at Clay Center and high in Kearney County. Period-of-years data for this area are shown in Tables 3b and 3c.

Zone III Nonirrigated Northeast

Data from tests in Dixon and Cedar Counties are shown in Table 4a. Emergence problems reduced stands in Dixon County. Storms during the harvest period caused high field losses. First broad corn borer caused considerable damage in Cedar County. Period-of-years data for Northeast nonirrigated trials are shown in Tables 4b and 4c.

Zone III Irrigated Northeast

The trial in Pierce County was abandoned because herbicide injury reduced stands. Two-, three-, four-, and five-year data for the 1977-1981 period are shown in Tables 5a and 5b. Hybrids not entered in 1982 were not included.

Southwest Ecofallow

The trial in Lincoln County was planted in early June (Table 6a). Cold wet soil and continued cool weather until mid-July showed development. The killing freeze stopped growth on October 11. Later hybrids had high grain moisture. There was a close correlation between low grain moisture and higher yield. Period-of-years data for Southwest ecofallow experiments are included in Table 6b.

Zone III Irrigated West Central

This trial was planted in cold wet soil (Table 7a). Lower grain moisture was correlated with higher grain yield. High winds during harvest increased stalk breakage. Period-of-years data for this area are included in Tables 7b and 7c.

Zone IV West Irrigated

Two trials were conducted in this area (Table 8a). The Scotts Bluff trial was planted into dry soil. Emergence was poor and the final population was about 50% of desired. In Box Butte County, plant population was near normal. Harvest moisture was high. Low grain moisture was correlated with higher grain yields in both trials. Period-of-years data for West irrigated tests are included in Table 8b.

Ecofallow early entries

These trials were designed to test some of the earlier hybrids under the ecofallow system. North Platte (Lincoln County) and Sidney (Cheyenne County) represent a wide range of environmental conditions. Data for 1982 are shown in Table 9a and period-of-years results in Table 9b.

TABLE 1a. ZONE I NONIRRIGATED. OTOE COUNTY. 1982.

BRAND	HYBRID	YIELD			
		AVERAGE BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT
-----	NEBR. 611	91	21.7	21	1
-----	NEBR. 714	99	20.9	26	0
-----	NEBR. 715	98	21.6	9	0
ASGROW	RX777	109	21.3	15	0
ASGROW	RX90	86	20.9	14	8
BC-JAC	923	87	22.9	22	0
CARGILL	949	96	20.3	8	6
CARGILL	967	103	21.7	23	0
CENEX	2114	91	20.2	11	0
CENEX	2124	113	21.5	22	1
DEKALB	EX-7778	102	21.8	15	1
DEKALB	EX-7979	96	22.3	22	0
DEKALB	XL-73	93	21.4	24	0
DEKALB	XL-748	93	23.7	30	1
FONTANELLE	580	93	20.3	11	4
FONTANELLE	611	96	21.3	27	0
FONTANELLE	680	105	24.4	13	0
FONTANELLE	690	96	22.4	18	1
FUNK'S	G-4733	96	23.8	44	0
GOLD TAG	GT 3020	85	19.9	8	5
GOLD TAG	GT 4022	92	22.3	21	0
GOLD TAG	GT 4430	88	22.6	21	1
GOLDEN ACRES	T-E-6995	88	20.5	7	4
GOLDEN ACRES	T-E-6995-A	88	23.3	11	0
GOLDEN ACRES	T-E-6998	88	23.2	20	1
HOEGEMEYER	EXP 82-2	89	26.0	12	0
HOEGEMEYER	SX2672	90	23.2	13	0
HOEGEMEYER	SX2684	102	20.4	9	3
HORIZON	211	90	20.8	17	2
HORIZON	861	106	20.9	24	0
HORIZON	882	86	21.8	11	1
HORIZON	890	103	21.9	21	1
JACQUES	JX179	96	21.7	32	1
JACQUES	JX247	104	22.5	14	0
JACQUES	8220	97	22.8	28	1
KELTGEN	KS116	95	24.1	11	0
LAND O'LAKES	M-1051DR	64	18.2	5	0
LAND O'LAKES	M-1061	81	18.3	11	1
LAND O'LAKES	M-1071	82	18.3	7	1
LAND O'LAKES	M-1131	100	19.0	8	1
LYNKS	LX 4315	92	19.1	11	0
LYNKS	LX 4315A	91	21.2	11	0
LYNKS	LX 4355	97	20.3	6	2
LYNKS	LX 4364	89	21.2	20	0
MC CURDY	7676	109	20.9	30	1

TABLE 1a. CONCLUDED.

BRAND	HYBRID	YIELD		1982 A		
		AVERAGE BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT	
MC CURDY	7787	104	22.8	20	3	
MC CURDY	8150	105	25.0	20	0	
MC CURDY	84AA	102	23.4	18	1	
MFA	6707	102	20.5	19	1	
MFA	6708	103	21.1	20	1	
MIGRO	EXP, 5129	108	22.0	4	0	
MIGRO	HP 44	86	20.5	16	4	
MIGRO	HP 470	95	20.6	7	0	
MIGRO	SPX 77	106	23.1	14	1	
NORTHRUP KING	PX74	93	20.4	10	4	
NORTHRUP KING	PX83	97	20.8	17	1	
NORTHRUP KING	PX95	93	25.4	40	0	
O'S GOLD	2570	107	21.4	29	1	
O'S GOLD	5291	95	22.1	21	0	
O'S GOLD	6882	102	19.9	8	1	
PAG	EXP 204155	103	20.8	32	0	
PAG	SX333	96	20.2	15	4	
PAG	SX351	95	21.3	13	1	
PAYCO	SX 1000	110	23.4	15	2	
PAYCO	SX 900	99	20.3	9	2	
PAYMASTER	7251	104	21.1	23	2	
PAYMASTER	8201	85	21.0	13	4	
S BRAND	SS555	95	20.6	14	1	
STAUFFER SEEDS	RBA114+	101	22.8	15	2	
STAUFFER SEEDS	S7759	93	20.4	9	2	
STAUFFER SEEDS	S7767	95	20.2	8	5	
STAUFFER SEEDS	S7795	109	20.9	7	0	
STEWART	7384	73	20.2	11	0	
STEWART	77	93	23.0	25	4	
SUPER CROST	4661	96	21.0	7	1	
SUPER CROST	5438	100	20.4	6	1	
SUPER CROST	5452	86	20.9	22	0	
SUPER CROST	7600	106	22.3	15	0	
TALL CORN	SX114	90	20.0	4	4	
TALL CORN	SX116	101	22.0	27	0	
TROJAN	TXS115A	92	20.5	4	6	
TROJAN	T1189	89	21.1	27	0	
TROJAN	T1230	94	21.4	17	1	
WILSON	EXP 239	82	22.0	7	0	
WILSON	1800A	99	21.0	17	0	
WILSON	1800B	111	21.6	3	0	
AVERAGE ALL ENTRIES		95.6	21.5	16.2	1.3	
DIF. REQ. FOR SIG. 5%		13.3	1.7	11.2	2.8	
25%		7.8	1.0	6.6	1.7	

TABLE 1b. ZONE I SOUTHEAST NONIRRIGATED. 1981-1982.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
2 YEAR AVERAGE					
-----	NEBR. 611	91	20.1	14	1
-----	NEBR. 714	98	19.7	16	0
-----	NEBR. 715	102	20.5	6	0
ASGROW	RX777	103	19.9	12	0
ASGROW	RX90	95	19.7	8	5
BO-JAC	923	101	21.2	14	0
CARGILL	949	99	19.4	6	4
CARGILL	967	106	19.9	13	0
CENEX	2114	87	18.7	7	0
CENEX	2124	114	20.4	13	1
DEKALB	XL-73	97	20.3	15	0
DEKALB	XL-74B	107	21.5	18	1
FONTANELLE	580	97	19.3	8	2
FONTANELLE	611	95	19.8	19	0
FUNK'S	G-4733	104	22.0	24	1
GOLD TAG	GT 4022	103	20.8	13	1
GOLDEN ACRES	T-E-6995	90	19.2	5	2
GOLDEN ACRES	T-E-6995-A	93	21.1	8	1
HORIZON	861	103	19.5	17	0
HORIZON	890	108	20.5	13	1
LYNKS	LX 4315	86	18.3	6	0
LYNKS	LX 4364	93	19.6	13	0
MC CURDY	7676	114	19.9	17	1
MC CURDY	8150	109	22.5	11	1
MC CURDY	84AA	108	21.4	12	1
MFA	6707	100	19.3	12	1
MFA	6708	108	19.7	12	1
MIGRO	HP 44	93	19.3	10	4
MIGRO	HP 470	94	19.2	4	0
MIGRO	SPX 77	107	21.2	10	1
NORTHRUP KING	PX74	97	19.5	8	3
O'S GOLD	2570	112	19.9	17	1
O'S GOLD	5291	100	20.7	16	0
PAG	SX333	98	19.0	9	3
PAG	SX351	97	20.1	10	1
PAYCO	SX 1000	102	21.3	12	2
PAYMASTER	7251	104	19.7	14	1
PAYMASTER	8201	93	19.4	9	3
STAUFFER SEEDS	S7759	105	19.3	5	1
STAUFFER SEEDS	S7795	107	19.8	5	0
STEWART	7384	94	19.7	8	0
STEWART	77	95	21.3	14	2
SUPER CROST	5452	89	19.7	17	0
SUPER CROST	7600	99	21.2	12	0
TROJAN	TXS115A	92	19.3	3	4
TROJAN	T1189	89	19.8	16	0
TROJAN	T1230	108	20.6	10	1
WILSON	1800A	102	20.5	10	0
AVERAGE ALL ENTRIES		99.7	20.1	11.5	1.1
DIF. REQ. FOR SIG. 5%		N.S.	1.2	N.S.	2.6
25%		9.8	0.7	6.1	1.2

TABLE 1c. ZONE I SOUTHEAST NONIRRIGATED. 1978-1982.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
3 YEAR AVERAGE					
-----	NEBR. 611	83	17.9	10	1
-----	NEBR. 714	85	17.7	11	0
-----	NEBR. 715	87	18.5	5	1
ASGROW	RX777	88	18.2	9	1
ASGROW	RX90	88	17.5	6	5
BO-JAC	923	89	19.1	10	1
CARGILL	949	88	17.3	4	4
CARGILL	967	91	18.0	10	1
CENEX	2114	76	16.8	5	0
FONTANELLE	580	86	17.3	6	3
FONTANELLE	611	86	17.7	13	1
GOLD TAG	GT 4022	89	18.8	10	1
GOLDEN ACRES	T-E-6995	78	17.6	4	3
GOLDEN ACRES	T-E-6995-A	81	18.4	6	3
HORIZON	861	95	17.6	13	1
MC CURDY	84AA	92	19.2	8	2
MFA	6707	93	17.3	8	0
MIGRO	HP 470	83	16.9	3	0
MIGRO	SPX 77	92	19.2	9	1
NORTHROP KING	PX74	86	17.6	6	4
PAG	SX333	86	17.1	6	4
PAG	SX351	82	18.0	6	1
PAYMASTER	7251	96	17.5	10	2
PAYMASTER	8201	83	17.3	7	3
STAUFFER SEEDS	S7795	96	18.1	3	0
SUPER CROST	5452	83	17.8	13	1
SUPER CROST	7600	87	18.9	9	2
TROJAN	TXS115A	78	17.4	3	4
TROJAN	T1189	82	17.9	11	1
TROJAN	T1230	91	18.7	8	2
WILSON	1800A	87	18.5	8	1
AVERAGE ALL ENTRIES		86.7	17.9	7.7	1.7
DIF. REQ. FOR SIG.	5%	N.S.	0.8	5.8	2.1
	25%	6.9	0.5	3.4	1.2
4 YEAR AVERAGE					
-----	NEBR. 611	102	17.2	8	1
-----	NEBR. 714	104	17.0	9	0
-----	NEBR. 715	103	17.7	4	0
ASGROW	RX777	105	17.8	7	1
ASGROW	RX90	106	16.9	4	4
CARGILL	949	106	16.7	3	3
CARGILL	967	112	17.1	8	1
FONTANELLE	580	104	16.8	4	3
GOLDEN ACRES	T-E-6995	96	17.0	3	2
GOLDEN ACRES	T-E-6995-A	101	17.5	5	2
HORIZON	861	110	16.9	10	1
MC CURDY	84AA	111	18.8	6	2
MIGRO	SPX 77	110	18.8	7	1
NORTHROP KING	PX74	104	16.9	4	3
PAG	SX333	106	16.6	4	3
PAG	SX351	105	17.2	5	1
PAYMASTER	8201	104	16.6	5	2
STAUFFER SEEDS	S7795	111	17.6	3	0
TROJAN	TXS115A	96	16.8	3	3
TROJAN	T1189	98	17.3	9	0
WILSON	1800A	103	18.1	6	1
AVERAGE ALL ENTRIES		104.6	17.3	5.6	1.6
DIF. REQ. FOR SIG.	5%	9.3	0.8	4.7	1.9
	25%	5.4	0.5	2.7	1.1
5 YEAR AVERAGE					
-----	NEBR. 611	108	17.0	8	1
-----	NEBR. 714	110	16.8	8	1
-----	NEBR. 715	110	17.5	4	1
ASGROW	RX90	112	16.6	5	4
CARGILL	949	111	16.6	4	4
FONTANELLE	580	109	16.7	5	3
GOLDEN ACRES	T-E-6995-A	106	17.0	6	2
HORIZON	861	116	16.8	11	1
MIGRO	SPX 77	114	18.6	6	1
NORTHROP KING	PX74	110	16.7	5	4
PAG	SX333	110	16.4	6	3
PAYMASTER	8201	110	16.6	5	2
TROJAN	TXS115A	103	16.7	4	3
WILSON	1800A	109	18.1	7	1
AVERAGE ALL ENTRIES		109.8	17.0	6.0	2.2
DIF. REQ. FOR SIG.	5%	N.S.	0.7	3.7	1.9
	25%	4.0	0.4	2.2	1.1

TABLE 2a. ZONE II NONIRRIGATED. SUMMARY. 1982.

BRAND	HYBRID	YIELD				1982 A	
		AVERAGE BU/A	WASHINGTON BU/A	POLK BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT
-----	NEBR. 611	102	100	103	26.5	8	0
-----	NEBR. 714	115	106	125	26.0	5	0
-----	NEBR. 715	95	94	95	29.2	4	0
AGRIGOLD	AG-6699	96	97	95	27.1	3	1
AGRIGOLD	AG-8820	105	105	105	29.3	5	1
ASGROW	RX610	95	87	103	21.1	4	1
ASGROW	RX622	87	88	86	22.1	9	1
ASGROW	RX777	104	101	107	23.9	10	0
ASGROW	RX90	105	99	110	25.7	5	1
BO-JAC	562	116	120	112	29.4	10	0
CARGILL	924	118	115	120	26.1	7	0
CARGILL	949	109	104	114	25.3	5	1
CARGILL	967	108	100	116	26.1	7	0
CROWS	444	96	89	103	22.7	2	1
CROWS	555	107	104	109	22.9	6	0
CROWS	666	116	106	126	25.4	9	1
CURRY	1520	90	79	100	26.6	4	0
DEKALB	EX-6261	99	94	104	24.3	2	1
DEKALB	XL-67	104	104	104	25.4	14	1
DEKALB	XL-72AA	97	84	109	24.2	7	1
DEKALB	XL-73	108	108	108	28.0	3	0
FONTANELLE	580	105	93	117	25.7	9	2
FONTANELLE	680	112	109	115	27.9	4	1
FONTANELLE	690	97	91	102	27.8	8	0
FUNK'S	G-4589	110	112	108	26.4	6	1
HOEGEMEYER	SX2672	95	91	99	27.6	2	0
HOEGEMEYER	SX2684	109	104	114	26.1	7	1
HORIZON	211	103	98	108	23.4	6	0
HORIZON	861	108	101	114	25.6	11	0
HORIZON	870	106	97	115	25.6	8	1
HORIZON	890	98	88	107	28.0	9	1
JACQUES	JX179	105	106	103	24.7	12	1
JACQUES	JX180	101	100	101	25.2	7	2
JACQUES	7790	111	111	110	23.9	12	0
KELTGEN	KS116	114	113	115	26.2	5	1
LYNKS	LX 4364	85	73	97	25.6	12	1
MC CURDY	6262	94	94	93	25.7	11	1
MC CURDY	6555	90	82	97	21.8	6	1
MC CURDY	7384	104	101	107	26.2	5	1
MC CURDY	7676	115	112	118	25.8	6	0

CONTINUED

TABLE 2a. CONCLUDED.

BRAND	HYBRID	YIELD				1982 A	
		AVERAGE BU/A	WASHINGTON BU/A	POLK BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT
MIGRO	HP 360	90	84	95	21.0	5	0
MIGRO	HP 401	96	91	101	22.0	6	1
MIGRO	HP 470	100	100	100	24.2	3	1
MIGRO	HP 555	108	103	113	25.1	10	1
NORTHROP KING	PX69A	91	86	95	23.9	8	C
NORTHROP KING	PX72	101	91	111	26.1	8	1
NORTHROP KING	PX74	110	101	118	25.5	6	1
O'S GOLD	2570	120	111	123	25.4	3	1
O'S GOLD	3344	99	92	106	26.5	10	0
PAG	EXP 204155	103	110	106	26.8	6	1
PAG	SX333	107	95	119	25.6	7	0
PAG	SX351	118	106	130	24.8	6	0
PAYCO	SX 860	103	93	113	22.5	3	0
PAYCO	SX 900	118	120	115	26.0	4	0
PAYMASTER	6990	103	102	114	22.9	4	1
PAYMASTER	7251	102	84	119	25.8	16	C
PAYMASTER	8201	106	86	125	25.4	4	1
S BRAND	SS555	100	106	94	23.9	3	0
STAUFFER SEEDS	S6389	99	87	111	21.0	5	1
STAUFFER SEEDS	S6596	102	103	100	24.5	4	0
STAUFFER SEEDS	S7759	110	104	115	28.0	5	2
STAUFFER SEEDS	S7767	107	93	121	25.6	5	1
SUPER CROST	4661	107	112	102	22.9	8	C
SUPER CROST	5438	112	104	120	25.4	2	1
SUPER CROST	5452	103	106	99	24.6	8	0
SUPER CROST	7600	104	107	101	28.5	5	1
TALL CORN	SX109	89	80	98	22.3	9	1
TALL CORN	SX114	106	92	120	26.1	5	1
TROJAN	TXS115A	108	117	98	26.8	6	1
TROJAN	T1100	102	99	105	23.6	4	0
TROJAN	T1189	105	97	113	26.7	1	1
WILSON	1800A	115	116	114	29.5	6	1
AVERAGE ALL ENTRIES		104.0	99.1	108.5	25.4	6.4	0.6
DIF. REQ. FOR SIG. 5%		15.9	15.9	14.5	2.2	5.1	N.S.
25%		9.4	9.4	8.5	1.3	3.0	N.S.

TABLE 2b. ZONE II EAST CENTRAL NONIRRIGATED. 1981-1982.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
2 YEAR AVERAGE					
-----	NEBR. 611	92	23.6	4	1
-----	NEBR. 714	102	23.5	3	0
-----	NEBR. 715	93	25.5	2	0
ASGROW	RX777	99	22.5	6	0
BO-JAC	562	104	25.1	5	0
CARGILL	924	95	23.0	4	0
CARGILL	949	97	22.9	3	2
CARGILL	967	97	23.4	3	0
CROWS	444	89	21.3	1	1
CROWS	555	96	21.3	3	1
DEKALB	XL-67	89	23.1	7	0
DEKALB	XL-72AA	88	22.4	4	1
DEKALB	XL-73	94	24.4	2	0
FONTANELLE	580	94	22.9	5	1
HORIZON	861	98	23.0	6	1
HORIZON	870	96	22.9	4	1
LYNKS	LX 4364	83	23.0	6	0
MC CURDY	6252	83	23.1	7	1
MC CURDY	6555	86	21.1	3	1
MIGRO	HP 360	79	19.9	3	0
MIGRO	HP 401	85	20.4	3	1
MIGRO	HP 470	91	22.0	2	1
NORTHROP KING	PX69A	86	21.6	5	0
NORTHROP KING	PX72	95	23.7	4	1
NORTHROP KING	PX74	98	22.9	3	1
O'S GOLD	2570	105	23.5	1	0
PAG	SX333	96	23.2	3	1
PAG	SX351	101	22.9	4	1
PAYCO	SX 860	88	21.0	2	0
PAYMASTER	7251	97	23.1	8	1
PAYMASTER	8201	94	22.9	2	2
STAUFFER SEEDS	S6596	92	22.1	2	0
STAUFFER SEEDS	S7759	100	24.7	3	1
SUPER CROST	5452	91	22.5	4	0
SUPER CROST	7600	96	24.8	3	1
TALL CORN	SX114	97	23.5	2	2
TROJAN	TXS115A	93	23.4	3	2
TROJAN	T1100	94	21.6	2	0
TROJAN	T1189	91	23.9	1	1
WILSON	1800A	101	25.5	3	1
AVERAGE ALL ENTRIES		93.5	22.9	3.5	0.7
DIF. REQ. FOR SIG. 5%		12.1	2.2	N.S.	N.S.
25%		7.0	1.4	2.5	0.7

TABLE 2c. ZONE II EAST CENTRAL NONIRRIGATED. 1978-1982.

BRAND	HYBRID	GRAIN YIELD BU/A.	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
3 YEAR AVERAGE					
-----	NEBR. 611	74	20.3	3	1
-----	NEBR. 714	80	20.9	2	0
-----	NEBR. 715	74	21.8	2	0
BO-JAC	562	82	21.9	5	3
CARGILL	967	78	20.4	2	1
DEKALB	XL-72AA	75	19.4	3	1
FONTANELLE	580	74	19.7	4	1
HORIZON	861	75	19.9	4	2
HORIZON	870	71	19.8	3	1
MC CURDY	6555	65	18.3	2	1
MIGRO	HP 470	68	18.9	1	1
NORTHROP KING	PX72	74	20.5	3	1
NORTHROP KING	PX74	74	19.8	2	2
PAG	SX333	71	20.0	3	2
PAG	SX351	81	20.1	2	0
PAYMASTER	7251	74	20.0	6	1
PAYMASTER	8201	71	19.7	2	3
STAUFFER SEEDS	S7759	82	21.0	2	1
SUPER CROST	5452	72	19.8	3	2
SUPER CROST	7600	75	21.6	2	2
TROJAN	TXS115A	70	20.3	2	1
TROJAN	T1189	77	21.3	1	1
WILSON	1800A	76	21.9	2	2
AVERAGE ALL ENTRIES		74.5	20.3	2.7	1.3
DIF. REQ. FOR SIG. 5%		N.S.	1.5	N.S.	N.S.
25%		N.S.	0.9	1.7	N.S.
4 YEAR AVERAGE					
-----	NEBR. 611	83	19.5	4	1
-----	NEBR. 714	91	21.0	3	0
-----	NEBR. 715	84	21.8	2	0
BO-JAC	562	93	21.8	5	2
CARGILL	967	91	20.0	2	1
DEKALB	XL-72AA	87	19.3	3	1
FONTANELLE	580	84	19.7	3	1
HORIZON	870	84	19.8	3	1
NORTHROP KING	PX72	88	20.4	3	2
NORTHROP KING	PX74	87	19.6	2	1
PAG	SX333	85	19.7	3	1
PAYMASTER	8201	86	19.6	2	2
TROJAN	TXS115A	82	20.2	2	1
TROJAN	T1189	86	21.2	1	0
WILSON	1800A	85	21.7	3	2
AVERAGE ALL ENTRIES		86.3	20.4	2.7	1.1
DIF. REQ. FOR SIG. 5%		N.S.	1.2	1.8	N.S.
25%		N.S.	0.7	1.0	0.9
5 YEAR AVERAGE					
-----	NEBR. 611	92	19.9	3	0
-----	NEBR. 714	102	21.3	3	0
-----	NEBR. 715	96	21.9	2	0
DEKALB	XL-72AA	98	19.9	3	1
FONTANELLE	580	95	20.3	3	1
HORIZON	870	96	20.3	2	1
NORTHROP KING	PX74	99	20.1	2	1
PAG	SX333	98	20.2	3	1
PAYMASTER	8201	99	20.1	1	2
TROJAN	TXS115A	93	20.6	2	1
WILSON	1800A	98	22.1	3	2
AVERAGE ALL ENTRIES		96.8	20.6	2.5	0.9
DIF. REQ. FOR SIG. 5%		N.S.	0.9	N.S.	1.0
25%		N.S.	0.6	0.7	0.6

TABLE 3a. ZONE II IRRIGATED. SUMMARY. 1982.

BRAND	HYBRID	YIELD				1982 A		
		AVERAGE BU/A	CLAY BU/A	KEARNEY BU/A	MOISTURE PCT	BRCKEN PCT	DROPPED PCT	STALK ROT
-----	NEBR. EXP. 9061	139	155	122	22.9	1	1	27
-----	NEBR. EXP. 9062	144	151	136	24.8	3	2	41
-----	NEBR. 611	142	146	138	20.5	1	1	25
-----	NEBR. 714	137	151	123	23.0	4	2	29
-----	NEBR. 715	138	159	116	26.1	2	1	37
AGRIGOLD	AG-6656	137	143	131	19.5	2	0	30
AGRIGOLD	AG-6699	136	148	123	23.2	2	2	27
AGRIGOLD	AG-8820	139	150	127	27.2	4	1	27
ASGROW	RX610	122	129	115	18.4	1	1	45
ASGROW	RX622	132	137	126	18.8	3	1	47
ASGROW	RX777	154	162	146	20.8	1	3	24
ASGROW	RX90	158	159	156	22.9	2	1	38
BO-JAC	432	142	144	139	19.5	1	1	21
BO-JAC	452	134	132	135	18.9	2	1	40
BO-JAC	56A	141	150	132	22.1	3	1	34
BO-JAC	5601	153	153	152	23.3	2	1	36
CARGILL	924	142	152	132	21.1	3	2	24
CARGILL	949	159	177	141	21.8	2	1	31
CARGILL	967	145	167	123	21.4	2	2	20
CARGILL	980	152	166	137	25.2	3	1	29
CENEX	2114	141	154	128	18.1	0	0	27
CENEX	2124	161	183	138	24.0	2	2	19
CROWS	688	144	157	131	23.4	2	2	42
CROWS	690	140	154	126	23.4	3	1	26
CURRY	1455	138	144	131	19.0	2	1	39
CURRY	1490	167	169	164	22.2	1	1	22
CURRY	150	143	154	132	22.5	1	1	28
CURRY	1520	149	159	138	23.2	1	1	28
DEKALB	EX-6261	138	137	139	19.9	1	1	29
DEKALB	XL-67	149	151	146	22.0	3	1	34
DEKALB	XL-71	140	151	128	24.6	2	1	47
DEKALB	XL-73	155	180	129	22.7	2	1	36
FONTANELLE	435	147	157	136	20.0	2	1	42
FONTANELLE	580	152	151	153	23.3	3	2	28
FONTANELLE	590	129	144	113	21.7	2	1	28
FONTANELLE	680	157	167	146	25.0	1	0	32
FUNK'S	G-4522	146	163	129	21.8	1	1	28
FUNK'S	G-4673A	133	147	118	24.5	3	3	39
GOLD TAG	GT 3008	148	168	123	20.7	2	3	30
GOLD TAG	GT 3020	141	156	126	22.5	2	1	27
GOLD TAG	GT 4022	137	149	125	24.9	2	3	27
GOLD TAG	GT 4430	141	152	130	26.4	2	2	28
GOLDEN ACRES	T-E-6995	140	155	125	22.0	1	1	24
GOLDEN ACRES	T-E-6995-A	128	122	134	20.0	1	1	19
GOLDEN ACRES	T-E-6998	145	163	127	25.3	2	3	29
HAWKEYE (FRUNDT)	SX45A	147	155	138	19.8	2	2	30
HAWKEYE (FRUNDT)	SX50A	158	166	150	19.9	0	1	39
HAWKEYE (FRUNDT)	SX60	164	174	153	22.1	2	2	16
HOEGEMEYER	EXP 82-5	133	130	135	23.8	1	1	27
HOEGEMEYER	SX2630	143	154	132	21.6	1	2	36
HOEGEMEYER	SX2672	155	158	152	23.0	1	1	41
HOEGEMEYER	SX2684	158	170	145	23.4	1	2	26
HORIZON	212	146	153	139	21.1	2	2	25
HORIZON	871	155	174	135	22.3	2	2	24
HORIZON	880	158	168	147	25.5	2	1	24
HORIZON	890	149	159	138	23.6	2	4	33
JACQUES	JX179	139	148	130	22.3	2	2	51
JACQUES	JX180	142	160	123	21.9	2	2	30
JACQUES	JX247	135	158	112	25.1	3	2	26
JACQUES	7780	137	140	133	19.4	2	0	32
KELTGEN	KS116	149	167	130	24.5	3	2	29
LAND O'LAKES	M-1051DR	111	110	111	18.7	2	1	35
LAND O'LAKES	M-1061	122	129	114	18.1	2	1	37
LAND O'LAKES	M-1071	133	143	122	17.7	1	1	22
LAND O'LAKES	M-1131	139	150	128	20.4	0	0	21

TABLE 3a. CONCLUDED.

BRAND	HYBRID	YIELD				1982 A		
		AVERAGE BU/A	CLAY BU/A	KEARNEY BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT	STALK ROT
LYNKS	LX 4225	140	163	117	18.0	2	1	56
LYNKS	LX 4315	135	141	128	21.6	2	1	40
LYNKS	LX 4315A	139	158	119	19.8	2	1	29
LYNKS	LX 4355	150	162	138	22.6	1	0	17
MC CURDY	6555	143	148	137	17.8	2	0	30
MC CURDY	7384	142	149	134	22.5	2	2	35
MC CURDY	7676	149	152	145	21.3	1	2	23
MC CURDY	84AA	150	160	140	24.1	2	1	41
MFA	5802	154	152	155	21.7	1	0	32
MFA	6707	151	165	136	20.2	4	0	40
MFA	6708	112	136	87	21.9	4	5	40
MIGRO	HP 44	139	162	115	21.8	4	0	38
MIGRO	HP 470	152	159	144	20.5	2	1	31
MIGRO	HP 555	142	146	138	21.6	3	1	42
MIGRO	SPX 77	148	164	131	24.9	1	1	34
NORTHROP KING	PX72	130	142	118	22.6	3	2	30
NORTHROP KING	PX74	162	180	143	21.8	1	2	23
NORTHROP KING	PX9454	137	146	127	19.5	2	0	49
NORTHROP KING	PX9573	149	168	129	20.9	2	3	34
O'S GOLD	2570	153	163	143	21.2	1	1	23
O'S GOLD	5291	145	157	132	26.9	2	2	28
O'S GOLD	6882	148	145	150	20.5	1	1	35
PAG	EXP 101515	127	136	118	23.3	2	2	16
PAG	EXP 204155	139	151	127	21.4	2	0	23
PAG	SX333	157	175	138	22.4	2	0	23
PAG	SX351	159	160	157	22.0	3	0	21
PAYCO	SX 860	153	161	144	19.2	1	1	26
PAYCO	SX 900	157	168	146	22.6	2	0	27
PAYMASTER	4790	142	153	131	19.6	2	1	30
PAYMASTER	6990	135	142	128	19.0	2	1	37
PAYMASTER	7251	144	152	135	22.8	1	3	30
PAYMASTER	8201	154	159	149	22.2	2	2	38
PRAIRIE STREAM	SX50	167	178	156	20.6	1	2	27
PRAIRIE STREAM	SX710	144	152	136	22.7	2	2	40
PRAIRIE STREAM	SX720	131	142	120	24.6	1	1	38
S BRAND	SS555	146	167	124	20.2	1	1	30
SOKOTA	TS-75	138	144	131	20.3	2	2	21
SOKOTA	820	149	170	128	22.3	2	2	23
SOKOTA	840	140	152	129	23.7	3	1	27
STAUFFER SEEDS	RBA114+	147	145	148	23.7	1	2	25
STAUFFER SEEDS	S6596	144	162	126	20.0	2	2	51
STAUFFER SEEDS	S7759	154	162	145	22.8	1	1	32
STAUFFER SEEDS	S7795	156	160	151	21.6	3	1	32
STEWART	7384	106	108	104	21.8	2	3	35
SUPER CRUST	4337	139	140	137	19.2	1	0	34
SUPER CRUST	4661	142	147	136	19.8	3	1	47
SUPER CRUST	5438	157	161	153	23.4	2	1	20
SUPER CRUST	7600	144	154	133	26.1	2	1	40
TALL CORN	SX108	159	176	141	20.3	2	1	39
TALL CORN	SX115	142	147	137	21.5	1	1	43
TROJAN	TXS115A	148	165	131	22.4	1	2	25
TROJAN	T1100	143	142	143	20.0	1	1	38
TROJAN	T1230	149	166	132	24.8	2	1	28
WILSON	1600	154	157	151	18.9	1	1	36
WILSON	1700	154	165	142	22.2	1	1	30
WILSON	1800B	155	170	139	22.6	2	3	38
AVERAGE ALL ENTRIES		144.4	154.5	133.8	21.9	1.9	1.3	31.5
DIF. REQ. FOR SIG. 5%		18.9	24.8	22.4	3.0	N.S.	N.S.	N.S.
25%		11.2	14.6	13.2	1.8	N.S.	1.2	12.4

TABLE 3b. ZONE II SOUTH IRRIGATED. 1981-1982.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
2 YEAR AVERAGE					
-----	NEBR. 611	147	20.6	1	1
-----	NEBR. 714	142	22.7	2	1
-----	NEBR. 715	140	24.8	1	0
ASGROW	RX777	160	20.9	0	2
ASGROW	RX90	160	22.5	1	1
BO-JAC	432	142	19.4	1	1
BO-JAC	452	147	20.4	1	1
BO-JAC	56A	155	22.1	2	0
CARGILL	924	144	20.8	2	1
CARGILL	949	160	21.9	1	0
CARGILL	967	154	21.2	1	1
CENEX	2114	145	19.4	1	0
CENEX	2124	165	24.5	1	1
CROWS	688	151	22.8	1	1
CROWS	690	157	23.9	2	1
CURRY	1455	147	19.9	2	1
CURRY	150	147	22.2	1	1
DEKALB	XL-67	149	21.8	1	0
DEKALB	XL-71	149	23.7	1	1
DEKALB	XL-73	164	22.9	1	1
FONTANELLE	580	159	22.8	2	1
FONTANELLE	590	140	21.5	1	0
GOLD TAG	GT 3008	150	20.5	1	1
GOLD TAG	GT 3020	142	22.2	1	0
GOLDEN ACRES	T-E-6995	149	22.3	1	0
GOLDEN ACRES	T-E-6995-A	139	20.4	1	1
HAWKEYE (FRUNDT)	SX45A	155	20.7	1	1
HAWKEYE (FRUNDT)	SX60	166	22.1	2	1
HOGEMEYER	SX2630	148	21.0	1	1
HORIZON	212	152	20.9	1	1
LYNKS	LX 4315	140	21.4	1	0
LYNKS	LX 4355	154	22.7	1	0
MC CURDY	6555	149	19.3	1	0
MC CURDY	7676	155	21.3	1	1
MC CURDY	84AA	157	23.9	1	1
MFA	5802	157	21.7	1	0
MFA	6707	148	20.4	2	0
MIGRO	HP 44	148	21.6	2	0
MIGRO	HP 470	160	20.5	1	1
MIGRO	SPX 77	159	24.4	1	0
NORTHROP KING	PX72	142	22.0	1	1
NORTHROP KING	PX74	166	21.8	1	1
O'S GOLD	5291	154	25.4	1	1
PAG	SX333	159	22.0	1	0
PAG	SX351	162	22.6	2	0
PAYCO	SX 860	156	20.4	1	1
PAYMASTER	4790	143	20.7	1	0
PAYMASTER	6990	143	19.9	1	0
PAYMASTER	7251	153	21.9	1	2
PAYMASTER	8201	163	21.9	2	1
PRAIRIE STREAM	SX50	164	20.8	0	1
SOKOTA	TS-75	149	20.3	1	1
SOKOTA	840	146	23.9	2	1
STAUFFER SEEDS	S6596	150	20.7	1	1
STAUFFER SEEDS	S7759	165	22.9	1	0
STAUFFER SEEDS	S7795	157	21.4	1	1
SUPER CROST	4337	148	20.2	1	0
SUPER CROST	7600	152	25.0	1	1
TALL CORN	SX115	147	21.8	1	1
TROJAN	TXS115A	155	22.0	1	1
TROJAN	T1100	149	21.0	1	1
WILSON	1600	158	20.1	1	0
AVERAGE ALL ENTRIES		152.1	21.8	1.2	0.7
DIF. REQ. FOR SIG. 5%		11.4	1.9	N.S.	N.S.
25%		6.6	1.1	N.S.	N.S.

TABLE 3c. ZONE II SOUTH IRRIGATED. 1978-1982.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
3 YEAR AVERAGE					
-----	NEBR. 611	148	19.0	1	1
-----	NEBR. 714	139	20.5	2	1
-----	NEBR. 715	135	22.3	1	1
ASGROW	RX90	151	20.3	2	2
BO-JAC	432	140	17.7	2	1
BO-JAC	452	149	18.6	1	1
CARGILL	924	138	18.9	2	1
CARGILL	949	154	20.0	1	1
CARGILL	967	149	19.6	1	2
GENEX	2114	144	17.9	1	0
CURRY	1455	145	18.2	2	1
CURRY	150	142	19.9	1	1
DEKALB	XL-67	145	19.7	2	1
FONTANELLE	580	149	20.4	2	2
FONTANELLE	590	136	19.5	2	1
GOLDEN ACRES	T-E-6995	143	20.3	1	1
GOLDEN ACRES	T-E-6995-A	136	18.9	1	1
HOEGEMEYER	SX2630	147	18.9	1	1
LYNKS	LX 4315	143	19.3	1	1
MC CURDY	6555	147	17.9	1	0
MC CURDY	84AA	152	22.1	2	1
MFA	5802	150	19.9	1	1
MFA	6707	147	18.8	2	1
MIGRO	HP 470	155	18.6	2	1
MIGRO	SPX 77	158	22.2	1	1
NORTHROP KING	PX72	139	19.6	2	2
NORTHROP KING	PX74	156	19.8	1	2
PAG	SX333	152	20.1	2	1
PAG	SX351	157	20.5	1	0
PAYMASTER	7251	144	19.7	2	2
PAYMASTER	8201	152	19.8	2	2
SOKOTA	TS-75	147	18.6	1	1
STAUFFER SEEDS	S7795	154	19.7	2	1
SUPER CROST	7600	151	22.7	2	1
TROJAN	TXS115A	148	20.1	1	1
WILSON	1600	153	18.1	1	1
AVERAGE ALL ENTRIES		147.0	19.7	1.5	1.1
DIF. REQ. FOR SIG.	5%	11.5	1.3	N.S.	N.S.
	25%	6.7	0.8	N.S.	0.6
4 YEAR AVERAGE					
-----	NEBR. 611	151	18.4	6	1
-----	NEBR. 714	147	19.9	8	2
-----	NEBR. 715	146	21.1	6	1
ASGROW	RX90	157	19.6	8	3
BO-JAC	432	149	16.9	4	2
CARGILL	924	143	18.2	9	2
CARGILL	949	162	19.4	6	2
CARGILL	967	157	19.1	7	2
CURRY	150	154	19.2	6	1
FONTANELLE	580	155	19.7	5	2
FONTANELLE	590	146	18.9	6	2
GOLDEN ACRES	T-E-6995	149	19.7	7	2
GOLDEN ACRES	T-E-6995-A	144	18.5	5	1
MC CURDY	84AA	162	21.3	6	2
MFA	5802	153	19.3	5	2
MIGRO	SPX 77	165	21.4	5	2
NORTHROP KING	PX72	150	19.0	8	2
NORTHROP KING	PX74	160	19.3	6	3
PAG	SX333	157	19.4	8	2
PAG	SX351	162	19.7	6	1
PAYMASTER	8201	158	19.3	8	2
TROJAN	TXS115A	152	19.4	7	2
AVERAGE ALL ENTRIES		153.6	19.4	6.5	1.9
DIF. REQ. FOR SIG.	5%	10.7	0.8	N.S.	N.S.
	25%	6.2	0.5	N.S.	0.5
5 YEAR AVERAGE					
-----	NEBR. 611	150	18.3	8	1
-----	NEBR. 714	152	19.4	9	2
-----	NEBR. 715	151	20.6	7	1
ASGROW	RX90	163	19.2	7	2
CARGILL	924	142	17.9	8	2
CARGILL	949	165	19.1	6	2
CURRY	150	158	19.0	6	1
FONTANELLE	580	157	19.5	6	2
FONTANELLE	590	148	18.6	7	2
GOLDEN ACRES	T-E-6995	155	19.5	7	2
MFA	5802	154	19.1	5	2
MIGRO	SPX 77	162	21.1	6	2
NORTHROP KING	PX74	163	19.1	6	2
PAG	SX333	159	19.1	8	1
PAYMASTER	8201	162	19.0	8	2
TROJAN	TXS115A	157	19.2	7	2
AVERAGE ALL ENTRIES		156.2	19.2	6.9	1.8
DIF. REQ. FOR SIG.	5%	11.2	0.7	N.S.	N.S.
	25%	6.5	0.4	N.S.	0.5

TABLE 4a. ZONE III NORTHEAST NONIRRIGATED SUMMARY. 1982.

BRAND	HYBRID	YIELD				1982 A	
		AVERAGE BU/A	DIXON BU/A	CEDAR BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT
-----	NEBR. 611	135	142	127	21.5	3	1
AGRIGOLD	AG-6656	132	137	126	19.0	4	2
AGRIGOLD	AG-6659	128	125	131	21.4	10	1
AGRIGOLD	AG-6699	123	128	117	24.9	4	1
ASGROW	RX610	120	123	117	17.6	2	0
ASGROW	RX622	119	118	120	19.3	10	2
ASGROW	RX777	134	138	129	20.2	16	0
ASGROW	RX90	133	143	122	21.0	3	4
CARGILL	921	144	138	150	20.0	3	1
CARGILL	924	131	135	127	20.7	9	1
CARGILL	949	145	156	134	20.3	3	2
CARGILL	967	152	155	148	21.0	7	0
CENEX	2110A	99	101	97	17.1	8	1
CENEX	2114	125	130	120	19.7	5	1
CROWS	444	117	119	115	18.2	8	1
CROWS	555	121	120	121	19.0	3	1
CROWS	666	132	145	118	22.3	5	3
CURRY	1424	123	130	126	18.0	2	0
CURRY	1452	126	134	118	19.4	4	1
CURRY	1455	134	140	128	19.0	7	1
CURRY	1490	135	141	129	20.4	10	1
CURTIS	SX602	144	139	148	21.1	3	2
DEKALB	EX-4040	124	129	113	18.1	2	1
DEKALB	EX-6261	123	125	120	20.5	4	2
DEKALB	XL-55A	113	118	103	19.1	13	1
DEKALB	XL-67	123	132	124	20.9	7	1
FEDERAL	FT41A	99	99	99	18.9	14	1
FONTANELLE	428	108	112	104	18.4	12	1
FONTANELLE	435	130	131	128	19.4	4	1
FONTANELLE	580	127	139	114	20.7	6	2
FUNK'S	G-4438	130	124	135	18.9	18	1
GREEN ACRES	1116	108	107	109	20.0	33	0
GREEN ACRES	4528	113	126	100	22.3	12	1
GREEN ACRES	793	117	115	119	22.3	11	1
HOEGEMEYER	EXP 82-5	119	117	120	21.0	1	0
HOEGEMEYER	SX2630	127	132	122	19.2	6	1
HORIZON	206	112	117	106	16.9	6	1
HORIZON	212	126	128	124	19.9	9	1
HORIZON	861	132	143	120	20.1	5	2
JACQUES	JX179	125	124	126	21.0	10	1
JACQUES	7780	124	131	117	19.8	9	1
JACQUES	7790	126	132	120	19.1	3	1
KALTENBERG	KX67	133	142	123	18.3	3	1
KALTENBERG	KX73	130	129	131	18.8	4	1
KALTENBERG	KX77	139	138	140	21.3	3	1
LAND O'LAKES	M-1051DR	118	126	110	18.1	6	1
LAND O'LAKES	M-1061	123	125	120	17.7	5	2
LAND O'LAKES	M-1071	123	127	119	19.6	3	1
LAND O'LAKES	M-1131	132	135	129	19.4	4	1
LYNKS	LX 4225	137	134	139	18.3	7	1
LYNKS	LX 4315	127	134	120	19.2	5	1
LYNKS	LX 4315A	124	129	118	19.4	3	0
LYNKS	LX 4355	136	139	132	21.0	5	1
MC CURDY	5596	134	136	131	18.5	3	1
MC CURDY	6475	118	121	115	18.8	5	0

TABLE 4a. CONCLUDED.

BRAND	HYBRID	YIELD				1982 A	
		AVERAGE BU/A	DIXON BU/A	CEDAR BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT
MC CURDY	6555	127	131	123	18.5	11	2
MC CURDY	7384	131	134	127	21.6	5	1
MIGRO	HP 360	114	118	110	17.8	5	1
MIGRO	HP 401	125	125	124	17.7	4	1
MIGRO	HP 470	130	132	127	19.8	8	2
MIGRO	HP 555	142	145	138	22.5	5	1
NORTHRUP KING	PX69A	124	131	116	19.3	3	0
NORTHRUP KING	PX74	128	131	124	20.2	6	2
NORTHRUP KING	PX9454	113	108	117	18.3	5	1
O'S GOLD	2570	140	133	147	21.6	11	1
O'S GOLD	6880	126	129	122	17.5	5	0
O'S GOLD	6882	135	145	125	19.0	5	1
PAG	EXP 131161	118	130	106	18.3	8	1
PAG	SX333	138	150	125	21.0	5	2
PAG	SX351	139	134	144	21.3	7	0
PAG	SX397	127	130	124	18.6	9	1
PAYCO	SX 824	126	132	120	19.4	4	1
PAYCO	SX 860	134	144	124	19.3	6	1
PAYCO	SX 900	142	145	139	20.9	4	1
PAYMASTER	4790	124	134	114	18.5	7	1
PAYMASTER	6990	113	117	108	18.7	5	2
PAYMASTER	8201	132	149	114	20.0	5	2
S BRAND	SS555	119	125	112	19.6	6	0
SOKOTA	TS-75	130	127	132	18.9	5	1
SOKOTA	X81-71	117	120	114	18.5	5	2
SOKOTA	660	123	115	130	18.1	3	1
STAUFFER SEEDS	S6389	122	125	118	17.9	1	0
STAUFFER SEEDS	S6595	126	124	128	18.0	5	1
STAUFFER SEEDS	S7759	141	144	137	21.3	5	1
STAUFFER SEEDS	S7767	133	141	124	20.9	4	2
SUPER CROST	4337	116	115	117	18.8	4	1
SUPER CROST	4661	127	132	122	19.3	2	1
SUPER CROST	5438	145	145	145	21.5	4	1
SUPER CROST	5452	140	141	138	21.1	15	2
TALL CORN	SX108	127	133	121	19.3	4	0
TALL CORN	SX109	122	123	120	17.5	2	1
TALL CORN	SX114	129	135	123	20.5	6	2
TROJAN	TXS115A	126	144	107	21.0	4	2
TROJAN	T1058	106	109	103	18.2	5	1
TROJAN	T1100	127	132	122	19.1	6	0
WILSON	1100B	127	130	124	17.9	3	2
WILSON	1400B	120	123	117	17.8	2	1
WILSON	1600	125	132	117	19.0	8	1
WILSON	1600A	126	132	120	19.2	4	0
AVERAGE ALL ENTRIES		126.7	130.4	122.6	19.6	6.1	1.1
DIF. REQ. FOR SIG. 5%		13.7	18.0	14.1	1.4	9.4	N.S.
25%		8.1	10.6	8.3	0.8	5.6	N.S.

TABLE 4b. ZONE III NORTHEAST NONIRRIGATED. 1981-1982.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
2 YEAR AVERAGE					
-----	NEBR. 611	112	20.4	7	0
ASGROW	RX777	114	19.4	11	1
ASGROW	RX90	112	20.9	4	2
CARGILL	921	125	19.6	4	1
CARGILL	924	109	20.0	7	1
CARGILL	949	115	19.9	5	2
CENEX	2114	116	19.1	6	2
CURRY	1424	116	17.4	5	0
CURRY	1455	120	18.6	7	0
DEKALB	XL-55A	103	18.8	15	1
DEKALB	XL-67	113	20.3	6	1
FONTANELLE	435	113	18.8	7	1
FONTANELLE	580	105	20.9	8	2
HOEGEMEYER	SX2630	115	18.7	6	1
HORIZON	212	114	19.3	8	1
HORIZON	861	110	19.7	5	1
KALTENBERG	KX67	116	17.4	4	1
KALTENBERG	KX73	111	18.3	5	1
LYNKS	LX 4315	110	18.8	5	2
LYNKS	LX 4355	121	21.0	3	1
MC CURDY	5596	116	17.9	9	1
MC CURDY	6555	118	18.3	9	2
MIGRO	HP 360	103	17.4	5	1
MIGRO	HP 401	110	17.6	3	1
MIGRO	HP 470	117	19.0	8	1
NORTHRUP KING	PX69A	115	18.3	4	1
NORTHRUP KING	PX74	114	20.5	6	2
O'S GOLD	6880	112	17.3	5	1
O'S GOLD	6882	116	18.6	5	2
PAG	SX333	115	20.8	6	2
PAG	SX351	122	21.4	7	0
PAG	SX397	109	17.9	11	2
PAYCO	SX 860	118	18.9	7	0
PAYMASTER	4790	107	18.0	7	1
PAYMASTER	8201	118	19.7	5	3
SOKOTA	TS-75	116	18.4	5	0
SOKOTA	660	113	17.4	4	1
STAUFFER SEEDS	S6389	101	17.4	3	0
SUPER CROST	4337	106	18.3	5	1
SUPER CROST	4661	109	19.0	5	0
SUPER CROST	5452	115	20.5	11	2
TROJAN	TXS115A	104	20.9	3	2
TROJAN	T1058	94	17.9	7	1
TROJAN	T1100	111	18.7	6	1
WILSON	1600	111	18.4	6	1
WILSON	1600A	108	18.9	5	0
AVERAGE ALL ENTRIES		112.2	19.0	6.2	1.1
DIF. REQ. FOR SIG. 5%		N.S.	0.8	1.6	N.S.
25%		7.7	0.5	0.9	0.8

TABLE 4c. ZONE III NORTHEAST NONIRRIGATED. 1978-1982.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
3 YEAR AVERAGE					
-----	NEBR. 611	108	19.0	5	0
ASGROW	RX777	111	18.2	7	1
CARGILL	921	112	17.9	3	2
CARGILL	924	106	18.4	5	1
CENEX	2114	107	17.5	4	2
CURRY	1424	106	16.1	3	0
CURRY	1455	106	17.1	5	1
DEKALB	XL-67	104	19.0	4	1
FONTANELLE	580	96	19.2	5	2
HORIZON	861	108	18.4	4	1
KALTENBERG	KX73	103	16.8	3	1
LYNKS	LX 4315	100	17.5	4	1
MC CURDY	6555	107	16.8	6	1
MIGRO	HP 470	106	17.5	5	1
NORTHROP KING	PX74	101	18.9	4	2
O'S GOLD	6880	101	15.9	4	1
PAG	SX333	105	18.9	4	2
PAG	SX351	109	19.8	4	0
PAG	SX397	101	16.7	8	1
PAYMASTER	4790	92	16.6	5	2
PAYMASTER	8201	104	18.3	3	2
SOKOTA	TS-75	106	17.0	4	0
SOKOTA	660	107	16.0	3	1
STAUFFER SEEDS	S6389	98	15.9	2	0
SUPER CROST	5452	107	19.1	7	2
TROJAN	TXS115A	95	19.4	2	2
WILSON	1600	100	17.1	4	1
AVERAGE ALL ENTRIES		103.9	17.7	4.3	1.1
DIF. REQ. FOR SIG. 5%		N.S.	0.7	N.S.	1.4
25%		N.S.	0.4	2.1	0.8
4 YEAR AVERAGE					
-----	NEBR. 611	126	19.8	4	0
ASGROW	RX777	126	18.9	6	1
CARGILL	924	122	19.3	5	1
CURRY	1455	119	17.4	4	0
FONTANELLE	580	114	19.9	5	1
HORIZON	861	127	19.6	3	1
PAG	SX333	126	19.9	3	1
PAG	SX397	115	17.3	6	1
PAYMASTER	8201	123	19.2	2	1
STAUFFER SEEDS	S6389	114	16.9	2	0
TROJAN	TXS115A	114	20.0	2	2
AVERAGE ALL ENTRIES		120.5	18.9	3.8	0.8
DIF. REQ. FOR SIG. 5%		N.S.	0.9	N.S.	N.S.
25%		6.8	0.5	N.S.	0.3
5 YEAR AVERAGE					
-----	NEBR. 611	123	19.0	4	0
CARGILL	924	120	18.4	6	0
FONTANELLE	580	116	19.3	4	1
PAG	SX333	125	19.2	3	1
PAG	SX397	115	16.5	10	1
TROJAN	TXS115A	114	19.3	2	1
AVERAGE ALL ENTRIES		118.8	18.6	4.8	0.7
DIF. REQ. FOR SIG. 5%		N.S.	0.7	N.S.	N.S.
25%		4.8	0.4	3.2	0.5

TABLE 5a. ZONE III NORTHEAST NONIRRIGATED. 1980-1981. NO 1982 DATA.

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
ASGROW	RX777	177	18.4	6	1
CARGILL	921	168	16.9	11	2
CARGILL	924	165	17.2	12	1
CENEX	2114	165	17.2	5	1
CURRY	1424	149	15.5	5	1
CURRY	1455	156	17.2	4	0
DEKALB	XL-67	162	18.5	6	1
FONTANELLE	580	160	17.9	5	1
HORIZON	861	170	18.4	9	1
KALTENBERG	KX73	157	16.8	5	1
LYNKS	LX 4315	161	17.7	3	0
MC CURDY	6555	150	17.5	3	1
MIGRO	HP 470	158	17.3	5	1
NORTHROP KING	PX74	176	18.0	6	3
O'S GOLD	6880	149	15.4	9	1
PAG	SX333	161	18.3	4	2
PAG	SX351	175	18.8	6	1
PAG	SX397	155	16.6	17	3
PAYMASTER	4790	146	16.5	3	2
PAYMASTER	8201	171	18.0	6	3
SOKOTA	TS-75	152	17.5	3	1
SOKOTA	660	154	15.5	3	0
STAUFFER SEEDS	S6389	151	15.7	9	1
SUPER CROST	5452	172	18.7	8	2
TROJAN	TXS115A	170	18.2	3	2
WILSON	1600	159	16.9	3	1
AVERAGE ALL ENTRIES		160.6	17.4	6.1	1.3
DIF. REQ. FOR SIG. 5%		14.5	0.9	4.9	N.S.
25%		8.2	0.5	2.8	N.S.

TABLE 5b. ZONE III NORTHEAST IRRIGATED. 1977-1981. NO 1982 DATA.

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
ASGROW	RX777	185	19.2	4	0
CARGILL	924	173	17.8	8	0
CURRY	1455	156	16.9	3	0
FONTANELLE	580	176	19.1	4	1
HORIZON	861	180	19.5	8	1
PAG	SX333	176	19.1	4	1
PAG	SX397	160	17.2	14	2
PAYMASTER	8201	179	19.2	4	2
STAUFFER SEEDS	S6389	155	16.1	6	1
TROJAN	TXS115A	179	20.0	2	1
AVERAGE ALL ENTRIES		170.7	18.5	5.6	0.9
DIF. REQ. FOR SIG. 5%		17.8	1.2	5.0	1.2
25%		10.0	0.7	2.8	0.7
4 YEAR AVERAGE					
-----	NEBR. 611	152	18.8	4	1
CARGILL	924	164	17.7	8	0
FONTANELLE	580	171	19.0	3	1
PAG	SX333	170	18.9	3	1
PAG	SX397	153	16.7	12	1
TROJAN	TXS115A	172	19.7	2	1
AVERAGE ALL ENTRIES		164.0	18.5	5.3	0.8
DIF. REQ. FOR SIG. 5%		11.1	1.1	5.0	N.S.
25%		6.3	1.2	2.8	0.5
5 YEAR AVERAGE					
-----	NEBR. 611	156	19.5	5	1
FONTANELLE	580	169	19.5	3	2
PAG	SX397	156	16.7	10	2
TROJAN	TXS115A	173	19.8	2	2
AVERAGE ALL ENTRIES		163.6	18.9	5.0	1.8
DIF. REQ. FOR SIG. 5%		12.4	1.3	N.S.	N.S.
25%		6.9	0.7	3.4	0.7

Location of tests (Counties): 1977 Cedar; 1978 Antelope; 1979 Madison;
1980 Madison; 1981 Antelope.

TABLE 6a. SOUTHWEST ECOFALLOW. LINCOLN COUNTY. 1982.

BRAND	HYBRID	YIELD		1982		EARS/100 PLANTS
		AVERAGE BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT	
-----	NEBR. 611	78	30.4	4	2	113
ASGROW	RX610	75	21.2	0	0	107
ASGROW	RX622	85	25.8	2	1	130
ASGROW	RX777	81	27.2	1	3	129
ASGROW	RX90	74	36.3	3	3	110
CARGILL	949	64	36.2	4	2	114
CARGILL	967	74	37.1	3	3	126
DEKALB	EX-5657	79	25.7	4	4	116
DEKALB	EX-6261	62	37.5	2	2	120
DEKALB	XL-55A	87	26.3	3	2	137
DEKALB	XL-63	70	31.4	4	2	102
FONTANELLE	611	71	30.4	2	2	108
FUNK'S	G-4438	84	27.8	2	2	105
JACQUES	JX180	59	37.9	1	4	110
JACQUES	7790	88	26.1	2	0	119
LYNKS	LX 4210	86	21.5	1	3	149
LYNKS	LX 4225	77	25.6	5	2	162
LYNKS	LX 4232	82	24.9	4	4	124
MIGRO	HP 360	82	19.3	2	0	124
MIGRO	HP 401	82	20.7	3	2	130
MIGRO	HP 470	72	30.7	3	2	117
MIGRO	HP 555	38	40.3	3	2	112
NORTHRUP KING	PX69A	76	23.3	4	0	124
NORTHRUP KING	PX9454	65	29.7	2	4	115
PAYCO	SX 824	91	25.7	1	1	108
PAYCO	SX 860	74	29.5	2	3	121
STAUFFER SEEDS	SUPER 80	81	24.0	3	3	124
STAUFFER SEEDS	S6389	80	23.5	1	5	123
STAUFFER SEEDS	S7759	61	37.7	3	5	117
STAUFFER SEEDS	S7767	56	41.6	3	3	113
TROJAN	T1100	68	29.7	1	1	123
TROJAN	T1189	77	33.6	1	2	135
WILSON	1100B	89	21.4	3	1	153
AVERAGE ALL ENTRIES		74.8	29.1	2.5	2.3	121.8
DIF. REQ. FOR SIG. 5%		13.4	3.7	N.S.	N.S.	18.5
25%		7.8	2.1	N.S.	N.S.	10.9

TABLE 6b. SOUTHWEST ECOFALLOW. 1978-1982.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
2 YEAR AVERAGE					
-----	NEBR. 611	107	29.8	2	1
ASGROW	RX777	109	26.6	1	2
CARGILL	949	99	32.9	2	2
CARGILL	967	113	32.6	2	2
FONTANELLE	611	104	29.8	1	1
MIGRO	HP 360	104	21.5	2	0
MIGRO	HP 470	102	28.7	2	1
STAUFFER SEEDS	S6389	103	24.0	1	3
TROJAN	T1100	102	28.2	1	2
WILSON	1100B	110	21.7	3	1
AVERAGE ALL ENTRIES		105.2	27.6	1.7	1.5
DIF. REQ. FOR SIG. 5%		N.S.	6.2	N.S.	N.S.
25%		N.S.	3.4	N.S.	N.S.
3 YEAR AVERAGE					
-----	NEBR. 611	93	25.2	3	2
MIGRO	HP 360	89	17.3	1	1
MIGRO	HP 470	86	22.7	1	2
STAUFFER SEEDS	S6389	90	19.6	1	5
AVERAGE ALL ENTRIES		89.6	21.2	1.5	2.5
DIF. REQ. FOR SIG. 5%		N.S.	4.5	N.S.	N.S.
25%		N.S.	2.3	N.S.	1.5
4 YEAR AVERAGE					
-----	NEBR. 611	99	24.0	2	4
5 YEAR AVERAGE					
-----	NEBR. 611	89	23.1	2	3

Location of tests (Counties): 1978 Lincoln, Red Willow; 1979 Lincoln, Frontier; 1980 Lincoln, Gosper; 1981 Lincoln, Red Willow; 1982 Lincoln.

TABLE 7a. ZONE III WEST CENTRAL IRRIGATED. LINCOLN COUNTY. 1982.

BRAND	HYBRID	YIELD		1982 A	
		AVERAGE BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT
-----	NEBR. 611	146	26.5	15	3
ASGROW	RX511	141	17.2	22	6
ASGROW	RX610	150	21.6	5	1
ASGROW	RX622	138	22.5	19	8
ASGROW	RX777	160	22.3	13	2
BO-JAC	5601	179	25.5	13	4
BO-JAC	562	169	28.6	10	2
CARGILL	921	166	24.6	25	3
CARGILL	924	156	25.1	7	1
CARGILL	949	176	26.0	11	4
CARGILL	967	145	25.4	11	4
CURRY	1452	156	23.7	12	1
CURRY	1455	158	22.7	4	2
CURRY	1490	182	24.4	12	3
CURRY	1520	144	28.8	7	2
DEKALB	EX-4040	147	23.2	8	1
DEKALB	EX-6261	154	25.1	5	2
DEKALB	XL-55A	139	23.3	13	1
DEKALB	XL-67	149	23.8	11	3
FONTANELLE	428	136	21.3	14	3
FONTANELLE	435	159	24.6	7	2
FONTANELLE	580	171	26.4	11	4
FUNK'S	G-4438	160	25.8	10	5
GOLD TAG	GT 2006	133	19.8	5	2
GOLD TAG	GT 3006	129	23.6	8	6
GOLD TAG	GT 3008	170	23.3	9	1
GOLDEN ACRES	T-E-6995	156	26.2	6	4
GOLDEN ACRES	T-E-6995-A	163	26.8	9	4
GOLDEN ACRES	T-E-6998	154	31.5	7	8
HORIZON	212	148	24.4	10	3
HORIZON	870	178	26.3	5	3
HORIZON	871	185	25.8	5	2
HORIZON	880	161	29.3	11	4
JACQUES	JX179	145	25.2	13	3
JACQUES	7780	147	24.1	6	3
LAND O'LAKES	M-1051DR	118	20.2	9	3
LAND O'LAKES	M-1061	121	20.7	10	3
LAND O'LAKES	M-1071	132	19.8	5	1
LAND O'LAKES	M-1131	151	23.8	10	3
LYNKS	LX 4225	144	20.8	7	3
LYNKS	LX 4315	148	24.2	5	3
LYNKS	LX 4315A	147	24.1	10	1
LYNKS	LX 4355	165	26.2	7	1
MC CURDY	5225	131	19.7	8	1
MC CURDY	6475	126	22.0	9	1

TABLE 7a. CONCLUDED.

BRAND	HYBRID	YIELD		1982		
		AVERAGE BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT	
MC CURDY	6555	155	21.7	9	2	
MC CURDY	7384	160	26.0	9	2	
MIGRO	HP 401	142	20.2	4	1	
MIGRO	HP 470	161	24.8	7	3	
MIGRO	HP 555	171	24.9	17	1	
NORTHROP KING	PX59	129	19.1	11	3	
NORTHROP KING	PX69A	146	21.3	13	3	
NORTHROP KING	PX9454	149	22.4	9	4	
O'S GOLD	2570	178	24.6	6	3	
O'S GOLD	5500A	184	26.7	6	1	
O'S GOLD	6882	156	23.7	6	5	
PAG	EXP 131161	152	21.4	4	3	
PAG	SX333	182	26.4	11	5	
PAG	SX351	157	26.4	9	4	
PAYCO	SX 824	161	23.9	9	3	
PAYCO	SX 860	137	23.0	8	2	
PAYCO	SX 900	171	24.6	13	2	
PAYMASTER	2990	130	19.5	10	3	
PAYMASTER	4790	145	22.7	5	8	
PAYMASTER	8201	166	25.4	12	4	
PAYMASTER	92989	146	17.8	6	2	
SOKOTA	TS-75	147	23.9	9	2	
SOKOTA	X81-71	160	20.8	10	2	
SOKOTA	660	150	20.8	8	1	
STAUFFER SEEDS	SUPER 30	139	22.6	10	2	
STAUFFER SEEDS	S6595	154	22.8	4	2	
STAUFFER SEEDS	S7759	176	24.3	4	2	
STAUFFER SEEDS	S7767	170	25.7	6	3	
SUPER CROST	3030	122	19.3	9	5	
SUPER CROST	4337	132	22.5	10	6	
SUPER CROST	4661	165	23.9	14	2	
SUPER CROST	5438	182	24.6	7	2	
TALL CORN	SX108	161	24.3	10	1	
TALL CORN	SX113	152	22.8	5	1	
TALL CORN	SX114	166	25.1	8	1	
TROJAN	T1000	126	20.2	4	4	
TROJAN	T1058	144	22.2	8	1	
TROJAN	T1100	139	23.8	7	3	
WILSON	1400B	156	19.9	12	3	
WILSON	1600	147	23.4	5	1	
WILSON	1600A	163	23.7	9	2	
WILSON	1700	178	24.1	7	2	
AVERAGE ALL ENTRIES		153.3	23.6	9.1	2.8	
DIF. REQ. FOR SIG. 5%		21.1	1.6	8.8	N.S.	
25%		12.4	0.9	5.2	2.4	

TABLE 7b. ZONE III WEST CENTRAL IRRIGATED. 1981-1982.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
2 YEAR AVERAGE					
-----	NEBR. 611	146	24.8	8	2
ASGROW	RX511	140	17.8	12	3
BO-JAC	562	166	25.3	5	1
CARGILL	921	158	22.5	13	2
CARGILL	924	147	21.8	5	1
CURRY	1455	148	22.0	2	1
DEKALB	XL-55A	141	21.7	8	1
DEKALB	XL-67	143	22.3	6	2
FONTANELLE	435	149	21.8	4	1
FONTANELLE	580	159	23.9	6	2
GOLD TAG	GT 2006	134	19.8	3	1
GOLD TAG	GT 3006	138	22.2	5	3
HORIZON	212	142	22.7	5	2
HORIZON	870	161	24.2	3	2
LYNKS	LX 4315	145	22.6	3	2
LYNKS	LX 4355	157	24.6	4	1
MC CURDY	5225	133	19.5	5	1
MC CURDY	6475	132	21.1	6	1
MC CURDY	6555	156	21.5	5	1
MIGRO	HP 470	153	23.1	4	2
NORTHRUP KING	PX59	132	18.9	6	2
NORTHRUP KING	PX69A	138	20.0	7	2
O'S GOLD	2570	168	23.1	3	2
O'S GOLD	5500A	173	24.4	3	1
O'S GOLD	6882	158	22.2	3	3
PAG	SX333	168	24.5	6	3
PAG	SX351	158	23.1	5	2
PAYCO	SX 860.	147	21.8	5	1
PAYMASTER	2990	128	19.2	7	2
PAYMASTER	4790	145	20.8	3	4
PAYMASTER	8201	159	23.0	7	2
SOKOTA	TS-75	148	22.8	5	1
SOKOTA	660	142	20.1	5	1
STAUFFER SEEDS	S6595	147	21.3	3	1
TROJAN	T1000	132	19.7	3	2
TROJAN	T1058	138	20.4	5	1
TROJAN	T1100	141	22.0	4	2
WILSON	1600	148	21.7	3	1
WILSON	1600A	150	21.2	5	1
AVERAGE ALL ENTRIES		147.8	21.9	5.1	1.7
DIF. REQ. FOR SIG. 5%		18.7	2.6	N.S.	N.S.
25%		10.8	1.5	N.S.	N.S.

TABLE 7c. ZONE III WEST CENTRAL IRRIGATED. 1977-1982. NO 1979 DATA.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
3 YEAR AVERAGE					
-----	NEBR. 611	153	22.2	6	1
CURRY	1455	149	19.8	2	1
DEKALB	XL-55A	146	19.5	6	0
FONTANELLE	580	161	21.5	4	1
HORIZON	870	161	21.7	2	1
LYNKS	LX 4315	154	20.3	2	1
MC CURDY	5225	135	17.3	3	0
MC CURDY	6475	132	18.5	4	1
NORTHROP KING	PX69A	146	18.2	5	1
PAG	SX333	168	21.6	4	2
PAG	SX351	161	21.1	3	1
PAYMASTER	8201	172	21.0	4	2
STAUFFER SEEDS	S6595	156	19.0	2	1
WILSON	1600	164	19.9	2	1
AVERAGE ALL ENTRIES		154.4	20.1	3.5	1.0
DIF. REQ. FOR SIG. 5%		18.5	1.6	N.S.	N.S.
25%		10.5	0.9	2.0	N.S.
4 YEAR AVERAGE					
-----	NEBR. 611	152	21.5	5	1
DEKALB	XL-55A	146	18.9	9	0
HORIZON	870	160	21.0	2	1
PAG	SX333	166	21.1	4	1
AVERAGE ALL ENTRIES		155.9	20.6	5.0	0.8
DIF. REQ. FOR SIG. 5%		N.S.	0.7	N.S.	N.S.
25%		8.3	0.4	3.3	N.S.
5 YEAR AVERAGE					
-----	NEBR. 611	152	22.0	6	1

Location of tests (Counties): 1977 Custer; 1978 Logan, Chase;

1980-1981 McPherson, Keith; 1982 Lincoln.

TABLE 8a. ZONE IV WEST IRRIGATED. SUMMARY. 1982.

BRAND	HYBRID	YIELD					TASSEL JUNE 30 + DAYS	PLANT HEIGHT
		AVERAGE BU/A	S. BLUFF BU/A	B. BUTTE BU/A	MOISTURE PCT	BROKEN PCT		
-----	NEBR. EXP. 9060	147	155	138	24.1	15	34	101
ASGROW	RX511	114	143	84	27.4	7	41	101
ASGROW	RX610	99	122	76	31.6	3	40	99
BO-JAC	214	125	144	106	29.7	1	39	92
CARGILL	834	128	141	115	22.1	3	34	100
CARGILL	838	109	113	105	26.3	6	34	89
CARGILL	861	139	150	127	27.9	4	37	94
CARGILL	862	114	127	100	30.5	3	40	102
CENEX	2098	121	132	110	24.9	4	33	84
CENEX	2106	132	131	132	24.3	2	34	94
CENEX	2108	120	134	105	31.1	2	36	90
DEKALB	EX-4040	122	138	105	37.5	2	44	103
DEKALB	EX-6261	102	114	89	45.7	1	42	103
DEKALB	XL-32A	122	150	93	30.9	5	40	99
DEKALB	XL-55A	98	107	89	37.4	11	39	104
FONTANELLE	370	132	147	116	30.9	3	36	90
FUNK'S	G-4143	117	119	114	24.3	5	35	96
HORIZON	202	136	142	129	23.4	1	37	90
HORIZON	206	101	113	88	29.5	4	40	99
HORIZON	211	145	155	134	37.1	7	43	99
HORIZON	212	131	149	112	40.0	7	40	98
JACQUES	JX151	116	127	104	31.1	2	35	91
JACQUES	JX77	126	135	117	24.0	2	32	82
JACQUES	JX97	124	126	122	25.4	3	36	97
LYNKS	LX 4075	121	129	113	24.3	1	37	95
LYNKS	LX 4100	120	130	110	30.4	2	35	89
LYNKS	LX 4210	100	122	78	30.5	2	38	92
LYNKS	LX 4225	116	118	113	31.5	6	41	96
MC CURDY	4664	120	128	112	26.7	3	35	90
MC CURDY	4956	95	111	79	34.3	2	35	85
MC CURDY	5225	132	152	112	27.3	6	39	97
MC CURDY	5596	142	162	121	30.8	5	40	96
MIGRO	HP 201	113	113	113	23.3	3	32	87
MIGRO	HP 266	130	125	134	25.3	1	33	96
MIGRO	HP 277	130	142	117	24.1	2	37	95
MIGRO	HP 360	112	120	104	30.7	3	34	89
NORTHRUP KING	PX39	123	147	109	31.9	6	39	103
NORTHRUP KING	PX9288	133	147	129	24.4	7	33	90
NORTHRUP KING	PX9454	105	122	88	40.9	4	40	95
O'S GULD	1107	117	132	105	31.5	4	39	101
O'S GOLD	6880	115	113	117	30.8	1	35	89
PAG	SX181	139	155	123	25.2	4	34	98
PAG	SX397	104	114	94	44.4	17	44	91
PAYCO	SX 599	126	137	114	21.9	3	33	93
PAYCO	SX 611	105	114	96	25.4	1	37	97
PAYCO	SX 620	123	134	111	25.2	3	39	95
PAYCO	SX 722	102	116	88	31.7	0	40	93
PAYMASTER	2990	127	137	116	28.7	1	35	92
PAYMASTER	92989	137	148	126	28.1	5	37	92
SOKOTA	TS-60	130	140	119	25.4	3	35	97
SOKOTA	TS-62A	137	155	119	27.2	8	40	104
SOKOTA	X81-71	126	140	111	32.8	3	43	98
SOKOTA	660	97	102	92	33.6	1	41	92
STAUFFER SEEDS	B406	122	149	94	29.8	6	39	97
STAUFFER SEEDS	S3242	144	141	147	19.9	3	34	94
STAUFFER SEEDS	S3306	115	134	96	25.4	5	39	93
STAUFFER SEEDS	S4402	127	137	117	24.4	2	37	96
TRCJAN	T1000	129	136	121	31.5	3	35	92
TROJAN	T950	110	114	105	25.2	2	36	96
AVERAGE ALL ENTRIES		121.3	132.7	109.4	29.2	3.9	37.3	94.8
DIF. REQ. FOR SIG. 5%		20.3	26.9	20.4	5.1	7.9	3.5	5.5
25%		11.9	15.9	12.0	3.0	4.7	2.0	3.2

TABLE 8b. ZONE IV WEST IRRIGATED. 1981-1982.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	PLANT HEIGHT IN
2 YEAR AVERAGE					
ASGROW	RX511	153	24.8	4	103
BO-JAC	214	145	27.7	0	94
CARGILL	834	144	21.0	2	101
CARGILL	862	120	27.3	2	100
CENEX	2106	145	23.1	1	95
CENEX	2108	143	27.1	1	90
DEKALB	XL-32A	152	28.7	2	103
DEKALB	XL-55A	134	33.0	6	106
HORIZON	206	142	26.4	2	102
HORIZON	212	145	35.1	4	101
LYNKS	LX 4075	134	22.4	0	96
LYNKS	LX 4100	130	27.3	1	90
MC CURDY	4664	140	23.7	2	92
MC CURDY	5225	143	26.5	3	100
MC CURDY	5596	158	28.7	3	98
MIGRO	HP 277	146	22.6	1	98
MIGRO	HP 360	133	28.0	1	94
NORTHROP KING	PX39	148	29.3	3	104
O'S GOLD	1107	144	29.0	2	102
O'S GOLD	6880	143	27.6	0	92
PAG	SX181	155	23.5	2	97
PAYCO	SX 599	141	19.9	1	93
PAYCO	SX 620	146	23.2	2	97
PAYMASTER	2990	147	26.5	1	92
SOKOTA	TS-60	146	23.5	1	98
SOKOTA	TS-62A	158	25.2	4	106
SOKOTA	660	132	29.2	1	94
STAUFFER SEEDS	S3242	155	19.5	1	94
STAUFFER SEEDS	S4402	151	22.5	1	96
TROJAN	T1000	142	27.8	1	93
TROJAN	T950	139	23.6	1	98
AVERAGE ALL ENTRIES		143.5	25.9	1.8	97.4
DIF. REQ. FOR SIG.	5%	N.S.	3.1	N.S.	4.0
	25%	N.S.	1.8	N.S.	2.3

TABLE 8c. ZONE IV WEST IRRIGATED. 1978-1982.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	PLANT HEIGHT IN
3 YEAR AVERAGE					
ASGROW	RX511	155	25.4	4	102
BO-JAC	214	150	27.1	0	94
CENEX	2106	150	23.5	1	96
CENEX	2108	145	27.0	1	91
DEKALB	XL-32A	147	28.9	2	102
LYNKS	LX 4075	139	23.3	0	97
LYNKS	LX 4100	140	27.3	1	91
MC CURDY	4664	143	23.6	2	92
MC CURDY	5225	143	25.9	3	99
MC CURDY	5596	152	29.2	3	97
MIGRO	HP 360	135	27.6	1	94
NORTHROP KING	PX39	149	28.5	3	103
O'S GOLD	1107	151	28.6	2	101
O'S GOLD	6880	148	27.0	0	92
PAG	SX181	152	23.1	2	97
PAYCO	SX 620	147	23.3	2	95
PAYMASTER	2990	148	26.6	1	90
STAUFFER SEEDS	S3242	151	20.2	1	94
STAUFFER SEEDS	S4402	149	23.5	1	95
AVERAGE ALL ENTRIES		146.9	25.8	1.6	95.9
DIF. REQ. FOR SIG. 5%		N.S.	2.1	N.S.	3.3
25%		N.S.	1.2	N.S.	1.9
4 YEAR AVERAGE					
DEKALB	XL-32A	147	27.8	2	103
MC CURDY	5596	157	27.8	2	98
O'S GOLD	1107	152	27.4	1	102
AVERAGE ALL ENTRIES		151.9	27.7	1.7	101.0
DIF. REQ. FOR SIG. 5%		N.S.	N.S.	N.S.	2.3
25%		N.S.	N.S.	N.S.	1.2
5 YEAR AVERAGE					
O'S GOLD	1107	148	28.2	1	102

TABLE 9a. ECOFALLOW. EARLY HYBRIDS. SUMMARY. 1982.

BRAND	HYBRID	YIELD				1982 AVERAGE				
		AVERAGE BU/A	LINCOLN BU/A	CHEYENNE BU/A	MOISTURE PCT	BROKEN PCT	DROPPED PCT	BUSHEL WEIGHT	EARS/100 PLANTS	PLANT HEIGHT
ASGROW	RX511	65	68	62	21.0	4	3	52.0	112	95
ASGROW	RX610	59	63	54	23.7	2	1	49.2	98	95
ASGROW	RX622	73	86	59	26.3	1	2	52.8	128	94
CENEX	2093	69	82	55	15.7	5	2	53.4	134	85
CENEX	2098	71	85	56	17.9	1	2	54.1	120	81
CENEX	2106	79	94	63	17.0	1	2	52.1	144	86
DEKALB	EX-2929	75	86	64	21.9	1	1	52.0	102	94
DEKALB	XL-18	74	88	60	21.8	1	2	54.1	114	92
DEKALB	XL-25A	70	88	52	18.9	1	1	54.4	122	89
DEKALB	XL-32A	64	75	52	24.1	1	1	49.1	108	92
FUNK'S	G-4256	72	85	58	17.0	5	2	55.5	106	86
JACQUES	JX147	66	74	58	22.6	3	1	50.4	106	94
JACQUES	JX177	63	70	56	26.4	1	2	48.5	109	95
LYNKS	LX 4225	67	82	52	28.0	2	2	50.1	155	89
MIGRO	HP 266	72	84	60	17.7	1	2	51.6	160	88
MIGRO	HP 277	75	93	56	16.5	2	2	52.0	173	90
MIGRO	HP 360	69	82	55	21.2	3	1	52.3	133	83
NORTHROP KING	PX39	64	72	55	25.9	1	2	48.7	106	93
NORTHROP KING	PX9288	70	84	56	17.0	5	2	56.8	126	86
PAYCO	SX 611	71	79	63	17.4	1	1	53.0	133	90
STAUFFER SEEDS	B406	64	73	54	20.4	2	2	51.3	110	90
STAUFFER SEEDS	S3306	77	88	65	18.8	5	1	53.5	102	90
STAUFFER SEEDS	S4402	77	92	62	17.9	1	1	51.4	153	88
TROJAN	T1000	73	87	58	20.9	4	1	52.0	130	86
TROJAN	T1058	70	88	52	23.8	7	3	49.3	113	89
AVERAGE ALL ENTRIES		70.0	81.9	57.5	20.7	2.4	1.7	52.0	123.9	89.6
DIF. REQ. FOR SIG. 5%		N.S.	9.6	8.9	1.8	N.S.	N.S.	1.1	16.5	3.5
25%		6.4	5.6	5.2	1.1	N.S.	N.S.	0.6	9.7	2.1

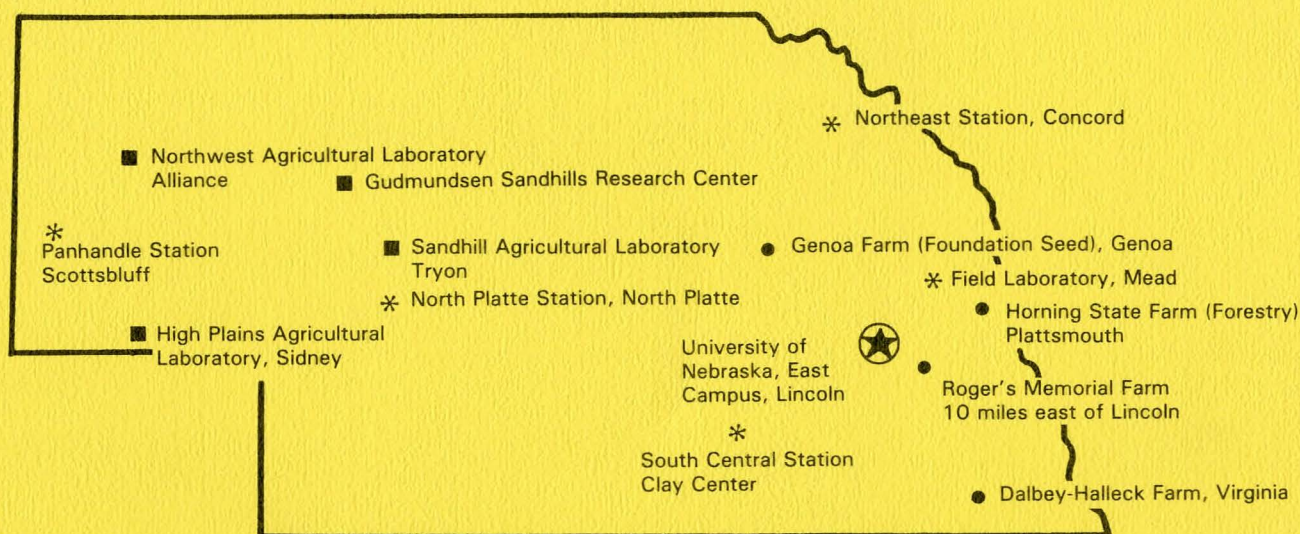
Bushel weight for Cheyenne County only.
Ears/100 plants for Lincoln County only.
Plant height for Cheyenne County only.

TABLE 9b. ECOFALLOW EARLY HYBRIDS. 1978-1982.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
2 YEAR AVERAGE					
ASGROW	RX511	86	20.9	5	1
CENEX	2106	90	17.6	2	2
DEKALB	XL-25A	83	19.7	1	1
MIGRO	HP 277	84	18.5	4	3
MIGRO	HP 360	80	22.3	6	1
STAUFFER SEEDS	S3306	85	19.1	9	2
TROJAN	T1000	88	21.6	3	1
TROJAN	T1058	81	24.0	8	2
AVERAGE ALL ENTRIES		84.5	20.5	4.8	1.6
DIF. REQ. FOR SIG. 5%		N.S.	2.1	N.S.	N.S.
25%		N.S.	1.1	3.0	N.S.
3 YEAR AVERAGE					
CENEX	2106	74	17.0	1	2
MIGRO	HP 360	67	21.2	4	1
TROJAN	T1058	71	22.8	6	1
AVERAGE ALL ENTRIES		70.3	20.3	3.7	1.3
DIF. REQ. FOR SIG. 5%		N.S.	0.8	N.S.	N.S.
25%		N.S.	0.4	2.4	N.S.
4 YEAR AVERAGE					
TROJAN	T1058	70	23.4	4	1
5 YEAR AVERAGE					
TROJAN	T1058	61	21.6	4	1

Location of tests (Counties): 1978 Cheyenne, Lincoln, Dundy; 1979 Cheyenne, Lincoln, Custer; 1980 Cheyenne, Chase, Lincoln, Custer; 1981 Cheyenne, Lincoln, Custer, Perkins; 1982 Cheyenne, Lincoln.

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, national origin, sex or handicap.