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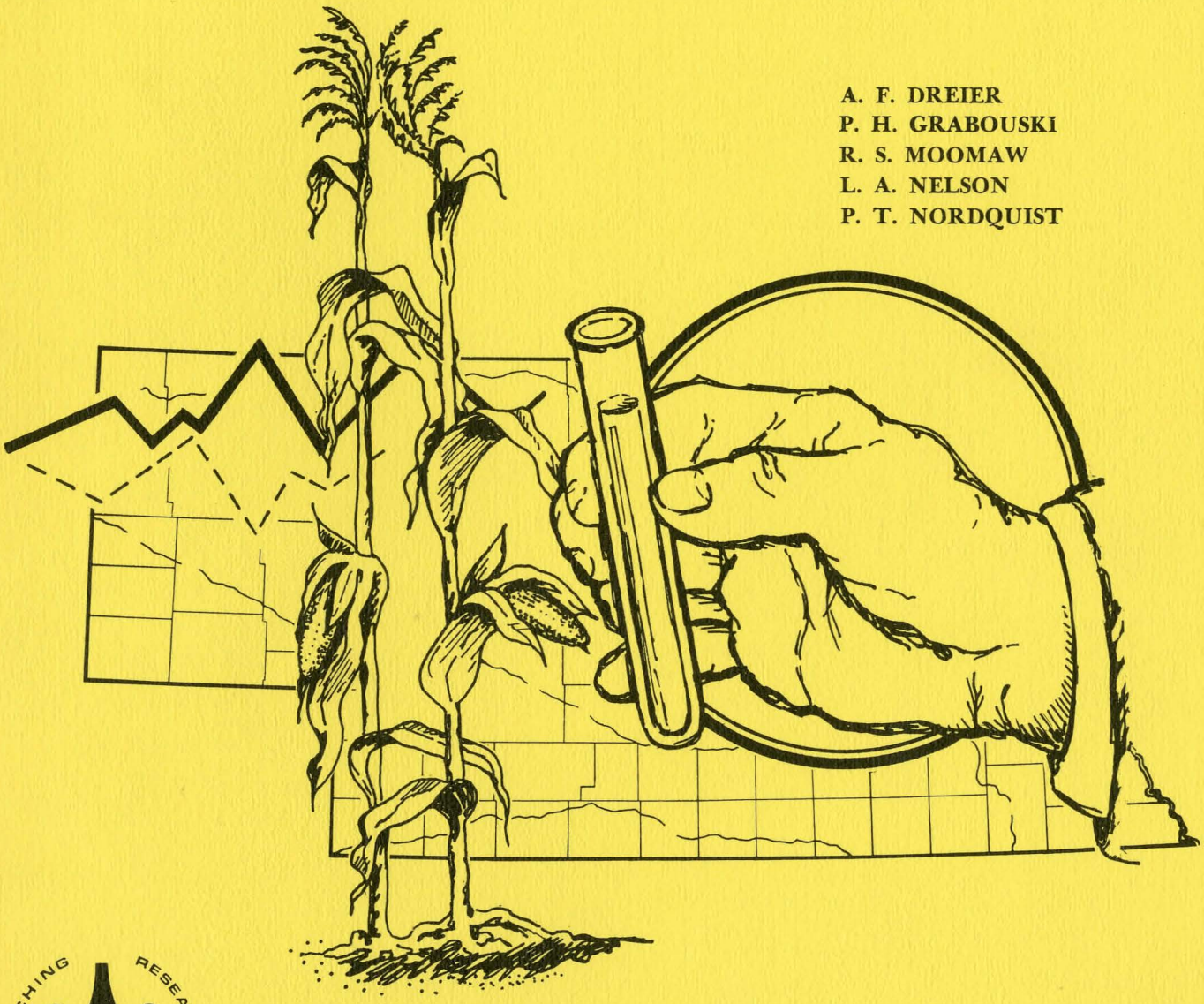
JANUARY 1981

NEBRASKA COOPERATIVE EXTENSION SERVICE—E.C. 81-105

NEBRASKA CORN PERFORMANCE TESTS 1980

A. F. DREIER
P. H. GRABOUSKI
R. S. MOOMAW
L. A. NELSON
P. T. NORDQUIST



TEACHING RESEARCH EXTENSION
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Extension work in "Agriculture, Home Economics and subjects relating thereto," The Cooperative Extension Service, Institute of Agriculture and Natural Resources, University of Nebraska–Lincoln, Cooperating with the Counties and the U.S. Department of Agriculture
Leo E. Lucas, Director

EXTENSION CIRCULAR 81-105

January 1981

CONTENTS

Acknowledgment 2
The metric system 2
Introduction 3
Location of tests 4
Average performance by location 6
Index of entries 8
Entrants 10
Discussion of results 11

Performance data
Zone I Nonirrigated
1980-Otoe County 14
1979-1980 16
1976-1980 17
Zone II Nonirrigated
1980-Dodge County 18
1979-1980 20
1976-1980 21
Zone II Irrigated
1980-three tests 22
1979-1980 24
1978-1980 26
1976-1980 27
Zone III Nonirrigated Northeast
1980-Dixon County 28
1979-1980 30
1975-1980 31
Zone III Irrigated Northeast
1980-Madison County 32
1979-1980 34
1977-1980 35
Southwest Ecofallow
1980-two tests 36
1978-1980 37
Zone III Irrigated Central
1980-two tests 38
1975-1980 40
Zone IV Irrigated
1980-two tests 41
1976-1980 42
Ecofallow Early Hybrids
1980-four tests 43
1978-1980 44

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.

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 used in this circular were 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)

NEBRASKA CORN PERFORMANCE TESTS
1980

The 1980 corn crop was the poorest since 1976. Average yields for 1976-1980 were as follows:

	Yield, bu/A (kg/ha)				
	1976	1977	1978	1979	1980
State	85.0 (5336)	99.0 (6215)	113.0 (7094)	115.0 (7220)	86.0 (5399)
Irrigated	112.0 (7031)	116.0 (7282)	125.0 (7848)	128.0 (8036)	100.0 (6278)
Dryland	40.4 (2536)	64.2 (4030)	84.7 (5317)	86.3 (5418)	48.5 (3045)

In 1980, harvested acreages (hectares) for grain were as follows: total 6,800,000 (2,754,000), irrigated 4,950,000 (2,004,750), and nonirrigated 1,850,000 (749,250).

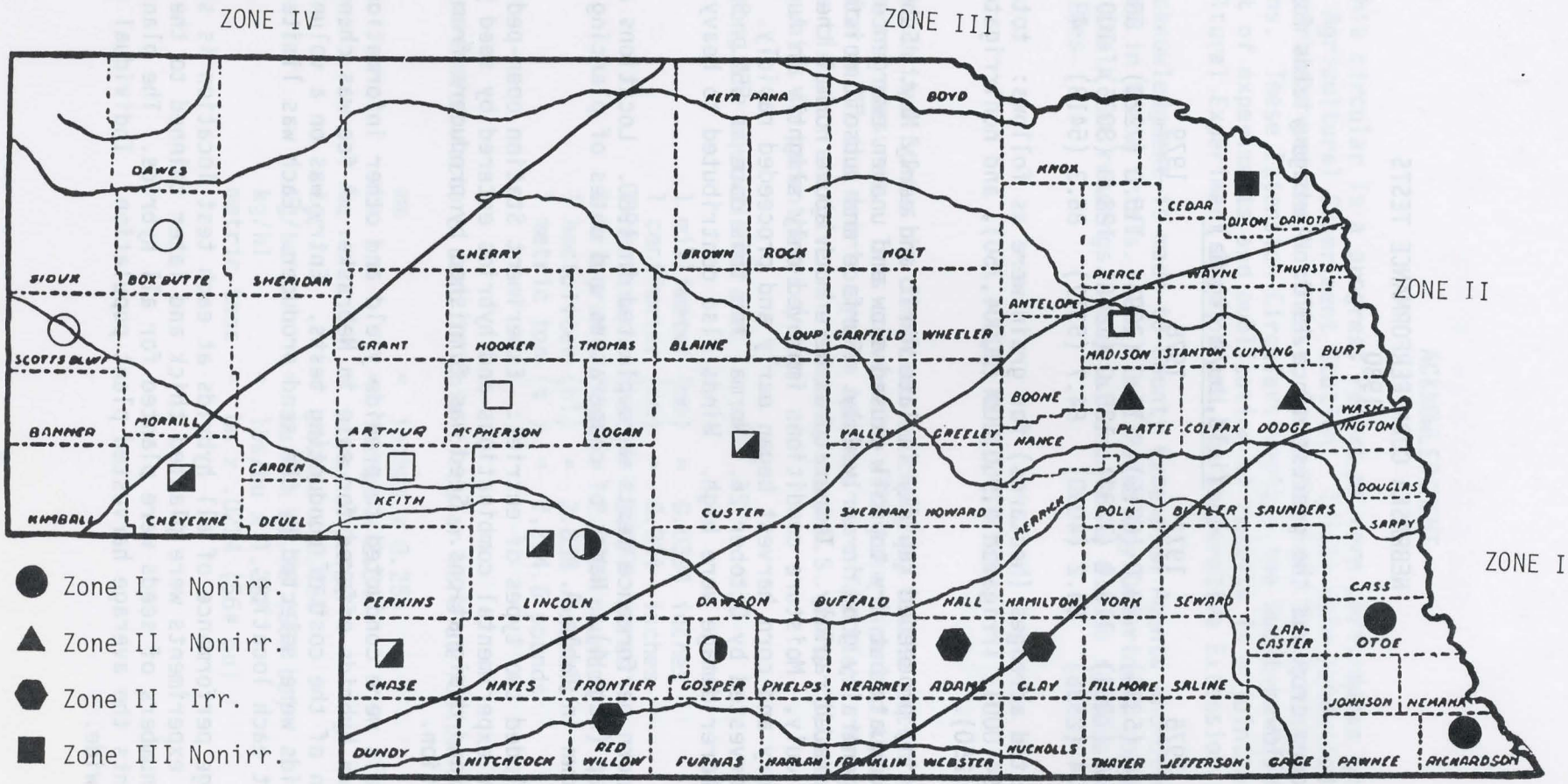
Corn planting proceeded rapidly in late April and early May. Subsoil moisture was adequate but dry topsoil caused slow and uneven emergence. Corn condition was generally good in early July. Surface and subsoil moisture conditions deteriorated rapidly. Temperatures were much above normal the first three weeks of July, Moisture conditions improved only slightly in August. September was dry and corn harvest began early and proceeded rapidly. The crop was 90% harvested by October 26. Normal for this date is 55%. Spider mite and corn borer damage were high. Winds also contributed to heavy harvest losses.

Nineteen corn performance tests were planted in 1980. 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 changed to cover a protion 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.



CORN MATURITY ZONES AND LOCATIONS

OF NEBRASKA CORN PERFORMANCE TESTS. 1980.

Table A. Location, cooperators and dates of planting and harvest. Nebraska Corn Performance Tests. 1980.

Location	Cooperator	Planted	Harvested
Zone I Nonirrigated			
Richardson	Roland & Gerald Owens, Verdon	May 1	1/
Otoe	Norman Rohlfing, Talmadge	May 6	Oct. 14,17
Zone II Nonirrigated			
Dodge	Robert Abraham, North Bend	April 30	Oct. 9,10
Platte	Glen Goering, Platte Center	April 28	2/
Zone II Irrigated			
Clay	South Central Station	May 2	Oct. 9,10
Adams	Melvin Ramsey, Kenesaw	May 25	Sept. 24,29
Red Willow	Claude Cappel, McCook	April 29	Oct. 15-17
Zone III Nonirrigated			
Dixon	Northeast Station	April 29	Oct. 10,13
Zone III Irr. Northeast			
Madison	Klein Farms, Meadow Grove	May 8	Oct. 14,17
Southwest Ecofallow			
Lincoln	North Platte Station	May 8	Oct. 21,22
Gosper	Roger Schroeder, Holbrook	May 8	Oct. 13
Zone III Irr. Central			
McPherson	Sandhills Ag. Laboratory	May 3	Oct. 27-29
Keith	Sadle Cattle Company, Paxton	May 5	Oct. 9,13-14
Zone IV Irrigated			
Scotts Bluff	Panhandle Station	May 5	Oct. 17
Box Butte	Northwest Ag. Laboratory	May 8	Oct. 28
Early Ecofallow			
Cheyenne	High Plains Ag. Laboratory	May 8	Oct. 20
Lincoln	North Platte Station	May 8	Oct. 13
Chase	Jeff Pribeno, Imperial	May 21	Oct. 8
Custer	Lynn Bartak, Merna	May 15	Oct. 2

1/ Drouth

2/ Uneven emergence

Table B. Average performance of hybrids at each test location. 1980.

Location	Row spacing	Plants per hill	Hill or plant spacing	Plants	Yield C.V.	Grain yield 1/	Harvest moisture	Broken plants	Dropped ears	Yield 2/ moisture correlation
Otoe	36	2.6	30	14,090	16.5	59.3	13.8	2.1	3.5	0.02
	(91)		(76)	(34 820)		(3722)				
Dodge	38	2.5	30	12,840	37.8	30.0	13.7	0.7	2.2	0.34**
	(97)		(76)	(31 730)		(1883)				
Clay	30	drill	7.7	27,280	24.2	97.6	14.3	3.6	1.8	0.22**
	(76)		(20)	(67 410)		(6127)				
Adams	36	drill	7.5	23,120	14.0	146.0	21.3	2.0	1.8	-0.03
	(91)		(19)	(57 130)		(9166)				
Red Willow	36	drill	8.6	20,330	8.5	159.2	13.0	2.1	3.4	0. 50**
	(91)		(22)	(50 240)		(9994)				
Dixon	30	drill	13.4	15,590	17.0	77.6	14.7	0.5	1.9	0.17
	(76)		(34)	(38 520)		(4872)				
Madison	30	drill	8.8	23,660	8.3	161.2	14.3	3.3	2.9	0.70**
	(76)		(22)	(58 460)		(10120)				
Lincoln	30	drill	18.6	11,270	41.9	28.6	16.4	0.9	4.0	-0.33*
	(76)		(47)	(27 850)		(1796)				
Gosper	36	drill	13.5	12,950	9.2	83.9	7.6	1.9	11.0	0.32*
	(91)		(34)	(32 000)		(5267)				
McPherson	30	drill	8.9	23,500	14.4	151.3	16.4	0.3	0.5	0.39**
	(76)		(23)	(58 070)		(9499)				
Keith	30	drill	8.9	23,520	21.8	156.0	13.4	0.9	0.3	0.65**
	(76)		(23)	(58 120)		(9794)				
Scotts Bluff	30	drill	7.9	26,390	14.0	156.1	27.8	---	---	0.39**
	(76)		(20)	(65 210)		(9800)				
Box Butte	30	drill	8.4	24,820	13.7	136.1	23.7	---	---	-0.02
	(76)		(21)	(61 330)		(8544)				
Cheyenne	30	drill	24.8	8,440	39.8	28.0	24.4	---	---	-0.03
	(76)		(63)	(20 860)		(1758)				
Lincoln	30	drill	19.5	10,720	27.8	36.3	13.2	0.4	2.3	0.41*
	(76)		(50)	(26 490)		(2279)				
Chase	30	drill	18.7	11,190	12.2	67.2	13.5	1.3	1.1	0.63**
	(76)		(47)	(27 650)		(4219)				
Custer	36	drill	14.5	12,040	49.4	21.3	20.1	0.4	0.9	-0.49**
	(91)		(37)	(29 750)		(1337)				

1/ Hand harvest: Lincoln, Gosper, Chase, Custer, 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. Hilled plots were adjusted to perfect stands. 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. Bushel weight determinations, where shown, were made on entries at reported moisture contents.

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 weremade 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 yiedling 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. Eearlier-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 areas where grown for each 1980 entry are shown in Table D.

The parentage of open-pedigree hybrids included in these tests was as follows:

Minhybrid 4203	A239 x A670
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. Nebraska corn performance tests. List of entries, type of cross and tables in which data are reported. 1980.

Brand	Hybrid	Tables	Brand	Hybird	Tables
-----	Minhbrid 4203	7	EK Premium	EK 7770 (SX)	1,2,3,4,5,6,7,8,9
-----	Nebr. 611 (SX)	1,2,3,4,5,6,7	EK Premium	EK 7790 (SX)	4,5
-----	Nebr. 714 (SX)	1,2,3, 6	EK Premium	EK 8800 (SX)	1,2,3
-----	Nebr. 715 (SX)	1,2,3	EK Premium	EK 8850 (MSX)	1,2
ACCO	UC1905 (SX)	8	EK Premium	EK 8870 (SX)	2,3
ACCO	UC2951 (SX)	7,8	EK Premium	EK 9900 (SX)	3
ACCO	UC2990 (SX)	8	EK Premium	EK 9920 (SX)	1
ACCO	UC3751 (SX)	8	Federal	FT44 (3X)	4,5
ACCO	UC5990 (SX)	2,3,4,5, 7	Federal	FX39 (SX)	3
ACCO	UC7251 (SX)	1,2,3	Fontanelle	330	8
ACCO	UC7660 (SX)	1	Fontanelle	400	7,8
ACCO	UC8201 (SX)	1,2,3,4,5, 7	Fontanelle	420 (SX)	4,5, 7
ACCO	X94790 (SX)	4,5	Fontanelle	450 (SX)	4,5, 7
Asgrow	RX511 (SX)	6, 8	Fontanelle	520	4,5
Asgrow	RX544 (MSX)	4,5, 7	Fontanelle	580 (SX)	1,2,3,4,5,6,7
Asgrow	RX777 (SX)	1, 4,5, 7	Fontanelle	590 (SX)	1,2,3
Asgrow	RX90 (SX)	1,2,3	Fontanelle	611	1
Asgrow	RX909 (SX)	1, 3	Frundt	SX33A (SX)	3
Bo-Jac	117 (SX)	8,9	Frundt	SX55 (SX)	3
Bo-Jac	14 (SX)	7, 9	Frundt	SX95A (SX)	1
Bo-Jac	214 (SX)	7,8	Funk's	G-4143 (MSX)	8
Bo-Jac	432 (SX)	2,3, 7,8	Funk's	G-4256 (3X)	8
Bo-Jac	452 (SX)	2,3, 7,8	Funk's	G-4323 (MSX)	6
Bo-Jac	56 (SX)	1	Funk's	G-4435 (MSX)	4,5, 7
Bo-Jac	562 (SX)	2,3	Funk's	G-4450 (MSX)	4,5,6,7
Bo-Jac	69 (SX)	1,2,3	Funk's	G-4507 (SX)	1,2,3
Bo-Jac	923 (SX)	1	Funk's	G-4519 (MSX)	3
Bo-Jac	950 (SX)	1	Funk's	G-4520 (SX)	3
Cargill	436 (3X)	8	Funk's	G-4583 (3X)	2
Cargill	832 (SX)	8	Funk's	G-4689 (MSX)	1
Cargill	838 (SX)	8	Gold Tag	1090 (MSX)	4,5
Cargill	921 (SX)	2, 4,5	Gold Tag	2006 (SX)	2, 4,5
Cargill	922 (SX)	2, 4,5	Gold Tag	2060 (MSX)	2
Cargill	924 (SX)	3,4,5	Gold Tag	2062 (3X)	2
Cargill	934 (SX)	3, 7	Gold Tag	3006 (SX)	2
Cargill	949 (SX)	1, 3, 7	Gold Tag	3020 (SX)	1
Cargill	967 (SX)	1,2,3,4,5, 7	Gold Tag	4022 (SX)	1
Cenex	2010A	9	Golden Acres	T-E 6925 (SX)	3
Cenex	2106	4,5,6, 8,9	Golden Acres	T-E 6945 (SX)	2
Cenex	2108	4,5,6,7,8	Golden Acres	T-E 6995 (SX)	1,2,3
Cenex	2111 (SX)	9	Golden Acres	T-E 6995-A (SX)	1,2,3
Cenex	2114	1,2,3,4,5,6,7	Growers	GSA 2030 (MSX)	4,5,6,7
Cenex	2119 (SX)	9	Growers	GSA 2240 (SX)	3
Cenex	2157 (SX)	4,5,6, 8	Growers	NS 212 (SX)	1,2,3,4,5,6,7
Cenex	2371 (SX)	1,2,3, 7	Growers	246 Exp. (SX)	1,2,3 6,7
Cenex	2380 (SX)	1,2,3	Growers	249 Exp. (SX)	4,5, 7
Circle Seed	C-S 206 (SX)	7	Gutwein	2210 (SX)	7
Circle Seed	C-S 208 (SX)	7	Gutwein	2610 (SX)	7
Circle Seed	C-S 210 (SX)	7	Gutwein	2910 (SX)	1,2, 4,5
Circle Seed	C-S 212 (SX)	7	Gutwein	62	1,2, 4,5
Coop	2165 (SX)	4,5, 7,8	Hoegemeyer	SX2590 (SX)	4,5
Coop	2260 (SX)	2, 4,5	Hoegemeyer	SX2630 (SX)	3
Coop	2300 (SX)	1,2,3	Hoegemeyer	SX2634 (SX)	3
Coop	2300A (SX)	2,3,4,5	Hoegemeyer	SX2644 (SX)	4,5
Coop	2340 (SX)	1	Hoegemeyer	SX2700 (SX)	1,2,3
Curry	SC-1424 (SX)	4,5, 7	Hoegemeyer	SX2768 (SX)	1,2
Curry	SC-1430 (SX)	3,4,5	Hoegemeyer	SX2840 (SX)	1
Curry	SC-1455 (SX)	3,4,5, 7	Horizon	109 (SX)	4,5, 8
Curry	SC-1462 (SX)	7	Horizon	129 (SX)	8
Curry	SC-150 (SX)	2,3,4,5, 7	Horizon	801	7
Curry	SC-1505 (SX)	2	Horizon	802 (SX)	2, 7
Curry	SC-1520 (SX)	2,3	Horizon	841 (SX)	3
Curry	SC-1580 (SX)	2	Horizon	845 (SX)	2
DeKalb	XL-14AA (SX)	8	Horizon	861 (SX)	1,2, 4,5,6
DeKalb	XL-18 (SX)	8	Horizon	870 (SX)	1,2,3,4,5, 7
DeKalb	XL-25A (SX)	7,8	Horizon	890 (SX)	3, 7
DeKalb	XL-32A (SX)	7,8	Jacques	JX52 (SX)	8
DeKalb	XL-362AA (3X)	2	Jacques	JX107 (SX)	8
DeKalb	XL-54 (SX)	4,5	Jacques	JX147 (SX)	4,5,6,7,8
DeKalb	XL-55A (SX)	7	Jacques	JX177 (SX)	6,7,8,9
DeKalb	XL-57 (SX)	4,5, 7	Jacques	JX179 (SX)	2,3,4,5, 7
DeKalb	XL-63 (SX)	2	Jacques	JX180 (SX)	1,2,3,4,5,6,7
DeKalb	XL-67 (SX)	3,4,5	Jacques	JX187A (SX)	2, 4,5
DeKalb	XL-72AA (SX)	1,2,3,4,5	Jacques	JX202A (SX)	1
DeKalb	XL-72C (SX)	1,2,3	Jacques	JX227 (SX)	1,2,3
DeKalb	XL-74A (SX)	1, 3	Jacques	JX247 (SX)	1, 3
DeKalb	XL-75 (SX)	1	Kaltenberg	KX61 (SX)	4,5
EK Premium	EK 7700 (SX)	4,5, 7,8,9	Kaltenberg	KX68 (SX)	4,5
EK Premium	EK 7710	6,7,8,9	Kaltenberg	KX73 (SX)	4,5
EK Premium	EK 7720 (SX)	4,5,6,7,8,9	Kaltenberg	KX76 (SX)	2, 4,5
EK Premium	EK 7760 (SX)	6	Keltgen	KS100 (SX)	7,8

Continued

Table C. Concluded.

Brand	Hybrid	Tables	Brand	Hybrid	Tables
Keltgen	KS102 (SX)	8	Payco	SX 844 (SX)	2,3,4,5, 7
Keltgen	KS106 (SX)	4,5, 7	Payco	SX 960 (SX)	4,5, 7
Keltgen	KS109 (MSX)	4,5, 7	Payco	SX 990 (SX)	2,3,4,5, 7
Keltgen	KS115 (SX)	1,2,3,4,5, 7	POI	FF (SX)	2, 4,5, 7,8
Keltgen	KS119 (3X)	1,2,3	POI	3F (SX)	4,5, 7,8
Keltgen	KS94 (SX)	8	POI	4-14 (SX)	1,2,3,4,5, 7,8
Keltgen	KS99 (SX)	8	POI	88 (SX)	1, 3
Keltgen	KT119 (SX)	1	POI	89 (SX)	1,2,3
Lynks	LX 4070 (SX)	8	Prairie Stream	SX5B (SX)	3
Lynks	LX 4075 (SX)	8	Prairie Stream	SX66 (SX)	3
Lynks	LX 4100 (SX)	8	Prairie Stream	SX67 (SX)	2,3
Lynks	LX4120 (SX)	4,5, 8	Prairie Valley	181 (MSX)	9
Lynks	LX 4220A (SX)	4,5, 7	Prairie Valley	205 (SX)	9
Lynks	LX 4315 (SX)	3,4,5, 7	Prairie Valley	242 (SX)	8,9
Lynks	LX 4330 (SX)	1, 3,4,5, 7	Prairie Valley	252 (SX)	8
Lynks	LX 4360 (SX)	1,2	Prairie Valley	260 (SX)	7,8,9
Lynks	LX 4370 (SX)	3	Prairie Valley	262 (SX)	7,8
Lynks	LX 4500 (SX)	1	Prairie Valley	37S (SX)	6
McCurdy	37 (SX)	7	Prairie Valley	389 (SX)	4,5,6
McCurdy	4664 (SX)	7,8	Prairie Valley	595A (SX)	2, 4,5, 7
McCurdy	4855 (SX)	8	Prairie Valley	600 (SX)	4,5, 7
McCurdy	5225 (SX)	7,8	Prairie Valley	757 (SX)	2,3
McCurdy	5596 (SX)	8	Prairie Valley	759 (SX)	2
McCurdy	6475 (SX)	7	Prairie Valley	76S (SX)	1,2,3,4,5,6
McCurdy	65 (SX)	2	Prairie Valley	767 (SX)	1
McCurdy	6555 (SX)	2,3,4,5	Prairie Valley	795 (SX)	1, 3, 6
McCurdy	7440 (SX)	1,2,3,4,5	Prairie Valley	818 (SX)	1, 3
McCurdy	77 (SX)	4,5	RVI	3261 (SX)	2,3
McCurdy	7787 (SX)	1	Sokota	SK79 (3X)	2, 8
McCurdy	84 (SX)	1,2,3,4,5	Sokota	TS75 (SX)	2,3,4,5
McCurdy	84aa (SX)	1, 3	Sokota	TS82 (SX)	3
MFA	5104 (SX)	1	Sokota	660 (SX)	4,5
MFA	5802 (SX)	1, 3	Stewart	349 (3X)	2
MFA	5903 (MSX)	1, 3	Stewart	6573 (SX)	1, 3
MFA	6707 (SX)	1, 3	Stewart	6586 (3X)	1,2
Migro Seeds	HP 16 (SX)	8	Super Crost	5440 (SX)	1,2,3
Migro Seeds	HP 20 (SX)	7,8,9	Super Crost	7600 (SX)	1,2,3
Migro Seeds	HP 23 (SX)	2, 4,5, 7	Super Crost	79047 (SX)	1,2,3,4,5
Migro Seeds	HP 27 (SX)	2, 4,5,6,7	Super Crost	80052 (SX)	1,2,3,4,5
Migro Seeds	HP 360 (SX)	6, 8,9	Tall Corn	S8113 (SX)	4,5
Migro Seeds	HP 470 (SX)	1,2,3,4,5,6	Tall Corn	S8124 (SX)	1, 3
Migro Seeds	M0707 (SX)	1	Tall Corn	SX110 (SX)	4,5
Migro Seeds	M2022X (SX)	4,5,6,7,8,9	Tall Corn	SX115 (SX)	2, 4,5
Migro Seeds	SPX 301 (3X)	9	Tall Corn	SX120 (SX)	1,2,3
Migro Seeds	SPX 34 (SX)	1,2,3	Tall Corn	TX118 (3X)	2
Migro Seeds	SPX 49 (SX)	3	Todd	MX73 (SX)	1,2,3
Migro Seeds	SPX 77 (SX)	1, 3	Todd	MX73A (SX)	1,2, 4,5
NC +	1830 (SX)	8	Todd	M15 (SX)	9
NC +	2225 (SX)	8	Todd	M53 (SX)	2, 4,5,6
NC +	3990 (SX)	7	Todd	M5505 (SX)	3,4,5, 7
NC +	4222 (3X)	6	Todd	M83 (SX)	3
NC +	4710 (SX)	3,4,5	Todd	M95 (SX)	1,2,3
NC +	59 (SX)	1,2,3,4,5	Trojan	TXS102 (SX)	8,9
NC +	8331 (SX)	1	Trojan	TX115A (SX)	1,2,3,4,5,6,7
Northrup King	PX 37 (SX)	8	Trojan	TXS94	8,9
Northrup King	PX 39 (SX)	4,5, 7,8	Trojan	T1058 (SX)	6, 9
Northrup King	PX 49 (SX)	8	Trojan	T1069 (SX)	4,5, 7
Northrup King	PX 69A (SX)	3, 7	Trojan	T1110 (SX)	4,5,6,7
Northrup King	PX 72 (SX)	1,2,3,4,5	Trojan	T1170 (SX)	2,3
Northrup King	PX 74 (SX)	1,2,3,4,5, 7	Trojan	T1189 (SX)	1,2,3
Northrup King	PX 75 (SX)	1,2	Trojan	T1230 (SX)	1
Northrup King	PX 87 (SX)	1	Trojan	T929 (SX)	8
O's Gold	Exp. 6880 (SX)	4,5, 8	Weather Master	EPX 5P (SX)	4,5
O's Gold	SX1107 (SX)	8	Weather Master	EPX 677 (SX)	4,5
O's Gold	SX1170 (SX)	2, 4,5, 7	Weather Master	EPX 777 (SX)	4,5
O's Gold	SX3344 (SX)	1 7	Weather Master	EPX 788A (SX)	1, 3, 7
O's Gold	SX5255 (SX)	3	Weather Master	EPX 888 (SX)	1, 3, 7
O's Gold	SX5500A (SX)	1,2,3,4,5	Wilson	1016 (SX)	6
O's Gold	SX5500AB (SX)	3	Wilson	1040 (SX)	1,2
P-A-G	SX 181 (SX)	8	Wilson	1300 (SX)	7
P-A-G	SX 277 (SX)	4,5	Wilson	1600 (SX)	2,3,4,5, 7
P-A-G	SX 333 (SX)	1,2,3,4,5, 7	Wilson	1800 (SX)	1,2,3,4,5
P-A-G	SX 351 (SX)	1,2,3,4,5, 7	Wilson	1800A (SX)	1,2,3
P-A-G	SX 373 (SX)	1, 3	Wilson	2317 (MSX)	4,5,6,7
P-A-G	SX 397 (SX)	4,5, 7	Winterset Hybrid	CB43 (SX)	8
Payco	SX 555 (SX)	8	Winterset Hybrid	CB62 (SX)	4,5, 7,8
Payco	SX 620 (SX)	8	Winterset Hybrid	CB68 (SX)	1,2,3,4,5, 7
Payco	SX 680 (SX)	8	Winterset Hybrid	CB89 (SX)	1,2,3
Payco	SX 808 (SX)	8	YW Hybrids	YW 3737 (SX)	2
Payco	SX 830 (SX)	4,5, 7	YW Hybrids	YW 6060 (SX)	2

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

Table D. Entrants. Nebraska corn performance tests. 1980.

Brand	Entrant	Address
-----	Agricultural Experiment Station	Lincoln, NE 68583
ACCO	ACCO Seed Company	Belmond, IA 50421
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 Seed Department	St. Paul, MN 55164
Circle Seed	Circle Seed Hybrids, Inc.	Grand Island, NE 68801
Coop	Farmland Industries, Inc.	Kansas City, MO 64116
Curry	Curry Seed Company	Elk Point, SD 57025
DeKalb	DeKalb AgResearch, Inc.	Fremont, NE 68025
EK Premium	EK Premium Hybrid Corn	Berwick, IL 61417
Federal	Federal Hybrids	Marion, IA 52302
Fontanelle	Fontanelle Hybrids	Nickerson, NE 68044
Frundt	Frundt Hybrids Inc.	Pella, IA 50219
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
Growers	Growers Seed Association	Lubbock, TX 79408
Gutwein	Fred Gutwein & Sons, Inc.	Francesville, IN 47946
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	Olivia, MN 56277
Lynks	Lynks	Marshalltown, IA 50158
McCurdy	McCurdy Seed Company	Fremont, IA 52561
MFA	MFA Seed Operations	Columbia, MO 65201
Migro Seeds	Migro Seeds	Tekamah, NE 68061
NC +	NC + Hybrids	Lincoln, NE 68504
Northrup King	Northrup King Company	Minneapolis, MN 55440
O's Gold	O's Gold Seed Company	Parkersburg, IA 50665
P-A-G	P-A-G Seeds	Minneapolis, MN 55440
Payco	Payco Seeds, Inc.	Dassel, MN 55325
POI	Pacific Oilseeds, Inc.	Woodland, CA 95695
Prairie Stream	Prairie Stream Hybrids, Inc.	Frankfort, IN 46041
Prairie Valley	Prairie Valley, Inc.	Phillips, NE 68865
RVI	Research Ventures, Inc.	Ames, IA 50010
Sokota	Sokota Hybrid Producers	Brookings, SD 57006
Stewart	Stewart Hybrids, Inc.	Princeville, IL 61559
Super Crost	Edw. J. Funk & Sons, Inc.	Kentland, IN 47951
Tall Corn	Tall Corn Hybrids, Inc.	Grinnell, IA 50112
Todd	Todd Hybrid Corn Co., Inc.	Burlington, IN 46915
Trojan	Pfizer Genetics, Inc.	Doniphan, NE 68832
Weather Master	Weather Master Seeds, Inc.	Dassel, MN 55325
Wilson	Wilson Hybrids, Inc.	Harlan, IA 51537
Winterset Hybrid	Winterset Hybrid Company	Winterset, IA 50273
YW	YW Hybrids, Inc.	Grand Junction, IA 50107

Results

Data tables for each zone are shown in sections. The 1980 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 the Zone II Irrigated, Southwest Ecofallow, Zone III Irrigated Central, Zone IV Irrigated and Early Ecofallow trials. 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 1980 experiment is shown in Table B. Higher grain moisture was significnatly related to higher yield at 10 locations. Lower grain moisture was related to higher yield at 2 locations and there was no significant relationship at 5 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. 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

The trial in Richardson County was abandoned because of severe drouth stress. Moisture was short in Otoe County (Table 1a). Yields were good considering conditions. Corn borer damage contributed to high dropped ear counts. Bushel weights were high.

Production of hybrids in trials since 1976 is shown in Tables 1b and 1c. This generally was a period of favorable years for corn production. Fourteen hybrids tested produced a five year average yield of 106 bushels per acre (6650 kg/ha). Yearly average yields for these hybrids were as follows: 1976 105 (6590), 1977 76 (4770), 1978 132 (8290), 1979 155 (9730) and 1980 60 (3770) bushels per acre (kg/ha). In spite of the high year to year differences, relative hybrid performance has been fairly consistent.

Zone II Nonirrigated

A trial in Platte County was abandoned because dry soil at planting resulted in uneven emergence. The trial in Dodge County was under severe drouth stress. Yields were low and plot variability was high (Table 2a). Higher yields were correlated with higher grain moisture.

Period-of-years data for this zone are given in Tables 2b and 3c. The five-year average yield for 13 hybrids was 90 bushels per acre (5650 kg/ha). Seasonal performance was as follows: 1976 50 (3140); 1977 108 (6780), 1978 141 (8850), 1979 119 (7470), and 1980 30 (1880) bushels per acre (kg/ha). Under this wide range of conditions, hybrid performance over years was not consistent.

Zone II Irrigated

Three trials were harvested in this area (Table 3a). Heat stress, high populations and spider mites contributed to low yields in Clay County. In Adams County, emergence was uneven but final yields were more nearly normal. Excellent yields were produced in Red Willow County.

Performance in Zone II Irrigated trials since 1976 is shown in Tables 3b, 3c, and 3d. Twenty five hybrids had a five-year average yield of 163 bushels per acre (10 230 kg/ha). Average yields of these hybrids by years was as follows: 1976 171 (10 740), 1977 173 (10 860), 1978 174 (10 920), 1979 174 (10 920) and 1980 133 (8350) bushels per acre (kg/ha). This is indicative of the reduced yields produced under 1980 growing conditions. Relative hybrid performance over years was more consistent under irrigated than nonirrigated conditions in Zone II.

Zone III Nonirrigated Northeast

The Dixon County trial was planted early on ecofallow. Early soil moisture was more than adequate. Heat stress reduced final yields (Table 4a).

Period-of-years yield and other data are shown in Tables 4b and 4c. Three hybrids had average yields over years as follows: 1975 98 (6150), 1977 98 (6150), 1978 121 (7600), 1979 172 (10 800) and 1980 87 (5460) bushels per acre (kg/ha). Even though the five-year average yield was 115 bushels per acre (7220 kg/ha), relative hybrid performance over years was not consistent.

Zone III Irrigated Northeast

The 1980 Madison County plot was on the same farm as the 1979 test. Excellent yields were produced (Table 5a). Corn borer infestation was heavy. Higher moisture hybrids were highest in yield.

Period-of-years data from this area are shown in Tables 5b and 5c. Average annual yields of six hybrids tested over a 5-year period were as follows: 1976 135 (8480), 1977 170 (10 670), 1978 144 (8040), 1979 189 (11 870), and 1980 168 (10 550) bushels per acre (kg/ha). Relative hybrid performance was consistent under these conditions. Higher grain moisture was accompanied by higher grain yield.

Southwest Ecofallow

Soil moisture in Lincoln and Gosper Counties was adequate at planting. Summer drouth was severe in Lincoln County. Excellent yields were produced in Gosper County (Table 6b). Higher grain moisture was correlated with lower yields in Lincoln County and higher yields in Gosper County.

Two- , three- and four-year average performance data are shown in Table 6b. This is an area of wide variations in conditions within and over years.

Zone III Irrigated Central

Good yields were obtained from tests in McPherson and Keith Counties (Table 7a). Soil variability increased plot error, especially in Keith County. Higher grain moisture was correlated with higher grain yield at both locations.

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

Zone IV Irrigated

Two irrigated trials were conducted in the Nebraska Panhandle (Table 8a). Higher moisture hybrids were highest in yield in Scotts Bluff County. In Box Butte County, there was no relationship between grain moisture and yield.

Even though hybrids did not differ significantly in yield in the average of 1980 tests, they did differ in two-and three-year average yields (Table 8b). Three hybrids included for four years produced average yields as follows: 1977 151 (9480), 1978 119 (7470), 1979 150 (9420), and 1980 153 (9610), bushels per acre (kilograms per hectare).

Ecofallow Early Entries

This trial was designed to test some of the earlier hybrids under ecofallow. They represent an attempt to evaluate hybrids over the wide range of conditions found in some of the marginal corn production areas of Nebraska.

Results of experiments at four locations are shown in Table 9a. Significant hybrid differences were obtained in the average of all locations. The Cheyenne, Lincoln and Custer Counties were under summer moisture stress. This was most severe in Custer County. Moisture in Chase County generally was good all season.

Period of years data are shown in Table 9b. Conditions over locations within years and over years varied greatly. The one hybrid included over 4 years yielded as follows: 1977 95 (5960), 1978 28 (1760), 1979 72 (4520), and 1980 39 (2450) bushels per acre (kg/ha).

TABLE 1a. ZONE I NONIRRIGATED. OTOE COUNTY. 1980.

BRAND	HYBRID	GRAIN YIELD BU/A (KG/HA)	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT	BUSHEL WEIGHT LBS
-----	NEBR. 611	67 (4210)	13.6	3	3	57.8
-----	NEBR. 714	60 (3770)	13.9	1	0	60.0
-----	NEBR. 715	58 (3640)	14.5	1	2	59.6
ACCO	UC7251	80 (5020)	13.1	2	3	59.5
ACCO	UC7660	59 (3700)	13.8	6	2	60.1
ACCO	UC8201	62 (3890)	13.1	1	5	59.1
ASGROW	RX777	56 (3520)	15.0	3	4	61.4
ASGROW	RX90	74 (4650)	13.1	2	6	59.2
ASGROW	RX909	41 (2570)	14.4	2	2	61.2
BO-JAC	56	58 (3640)	13.4	1	6	59.7
BO-JAC	69	61 (3830)	13.2	1	9	60.6
BO-JAC	923	66 (4140)	15.0	4	2	61.4
BO-JAC	950	41 (2570)	14.0	2	1	59.3
CARGILL	949	65 (4080)	13.2	0	6	59.5
CARGILL	967	60 (3770)	14.1	3	2	59.7
CENEX	2114	54 (3390)	12.8	2	0	60.5
CENEX	2371	43 (2700)	13.6	2	1	60.5
CENEX	2380	57 (3580)	13.6	1	4	59.2
COOP	2300	58 (3640)	13.2	1	4	59.9
COOP	2340	59 (3700)	14.1	3	2	58.9
DEKALB	XL-72AA	59 (3700)	13.7	0	6	59.3
DEKALB	XL-72C	63 (3960)	12.8	0	3	61.5
DEKALB	XL-74A	61 (3830)	15.1	4	1	59.6
DEKALB	XL-75	52 (3260)	14.1	6	1	60.0
EK PREMIUM	EK 7770	59 (3700)	13.5	1	1	61.0
EK PREMIUM	EK 8800	61 (3830)	14.0	1	4	59.6
EK PREMIUM	EK 8850	54 (3390)	13.6	1	4	60.1
EK PREMIUM	EK 9920	59 (3700)	15.2	1	3	60.8
FONTANELLE	580	65 (4080)	13.4	2	5	59.3
FONTANELLE	590	55 (3450)	13.3	1	6	60.3
FONTANELLE	611	68 (4270)	13.5	1	2	59.2
FRUNDT	SX95A	63 (3960)	15.2	7	5	61.4
FUNK'S	G-4507	63 (3960)	13.0	1	9	59.6
FUNK'S	G-4689	67 (4210)	13.7	11	1	60.5
GOLD TAG	3020	39 (2450)	13.5	1	3	59.9
GOLD TAG	4022	61 (3830)	14.6	3	3	61.2
GOLDEN ACRES	T-E 6995	54 (3390)	14.3	2	6	60.9
GOLDEN ACRES	T-E 6995-A	58 (3640)	13.2	1	7	60.3
GROWERS	NS 212	62 (3890)	13.6	2	2	59.8
GROWERS	246 EXP.	46 (2890)	12.9	1	1	60.8
GUTWEIN	2910	58 (3640)	15.5	2	4	61.1
GUTWEIN	62	52 (3260)	13.5	3	3	59.3
HOEGEMEYER	SX2700	45 (2830)	13.4	2	7	59.7
HOEGEMEYER	SX2768	70 (4390)	12.6	1	1	59.4
HOEGEMEYER	SX2840	52 (3260)	15.2	2	3	60.8
HORIZON	861	80 (5020)	13.7	4	3	59.8
HORIZON	870	48 (3010)	13.5	2	3	59.2
JACQUES	JX180	63 (3960)	13.4	2	6	60.8
JACQUES	JX202A	69 (4330)	14.1	1	3	60.5
JACQUES	JX227	63 (3960)	13.7	2	13	60.7
JACQUES	JX247	53 (3330)	15.0	6	6	60.8
KELTGEN	KS115	42 (2640)	13.0	1	5	59.4
KELTGEN	KS119	55 (3450)	13.5	1	8	60.3
KELTGEN	KT119	43 (2700)	13.2	0	9	59.7
LYNKS	LX 4330	51 (3200)	13.5	1	9	60.0
LYNKS	LX 4360	78 (4900)	12.8	2	6	59.4
LYNKS	LX 4500	59 (3700)	14.1	4	3	59.6
MCCURDY	7440	67 (4210)	13.5	3	1	59.5
MCCURDY	7787	67 (4210)	15.1	1	2	60.5
MCCURDY	84	56 (3520)	13.7	1	6	59.5
MCCURDY	84AA	60 (3770)	14.7	1	3	60.9
MFA	5104	56 (3520)	13.3	4	3	60.5
MFA	5802	52 (3260)	12.7	1	1	60.8
MFA	5905	61 (3830)	13.3	1	6	59.9
MFA	6707	79 (4960)	13.2	1	0	59.8

CONTINUED

TABLE 1a. CONCLUDED.

BRAND	HYBRID	GRAIN YIELD BU/A (KG/HA)	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT	BUSHEL WEIGHT LBS
MIGRO SEEDS	HP 470	61 (3830)	12.5	1	1	60.1
MIGRO SEEDS	M0707	64 (4020)	14.5	1	2	59.5
MIGRO SEEDS	SPX 34	58 (3640)	14.0	1	6	60.4
MIGRO SEEDS	SPX 77	61 (3830)	15.1	8	1	61.4
NC+	59	50 (3140)	13.2	1	5	59.4
NC+	8331	57 (3580)	14.8	1	2	60.3
NORTHRUP KING	PX 72	68 (4270)	12.8	2	2	59.5
NORTHRUP KING	PX 74	64 (4020)	13.6	1	6	60.3
NORTHRUP KING	PX 75	55 (3450)	15.0	4	2	61.3
NORTHRUP KING	PX 87	56 (3520)	14.3	2	2	59.9
O'S GOLD	SX3344	78 (4900)	13.0	2	1	58.9
O'S GOLD	SX5500A	39 (2450)	13.2	1	0	61.3
P-A-G	SX 333	62 (3890)	13.2	0	6	59.9
P-A-G	SX 351	52 (3260)	13.7	0	2	59.5
P-A-G	SX 373	42 (2640)	13.5	1	1	60.2
POI	4-14	57 (3580)	13.2	2	6	59.4
POI	88	73 (4580)	14.1	1	3	60.6
POI	89	62 (3890)	15.4	5	3	60.6
PRAIRIE VALLEY	76S	65 (4080)	13.3	0	8	59.2
PRAIRIE VALLEY	767	63 (3960)	12.8	2	3	59.0
PRAIRIE VALLEY	795	75 (4710)	14.6	1	1	59.6
PRAIRIE VALLEY	818	68 (4270)	14.9	5	0	60.9
STEWART	6573	51 (3200)	15.4	2	4	60.8
STEWART	6586	55 (3450)	12.3	1	2	58.8
SUPER CROST	5440	60 (3770)	13.5	1	6	60.3
SUPER CROST	7600	64 (4020)	14.3	2	5	60.4
SUPER CROST	79047	65 (4080)	12.7	1	0	59.2
SUPER CROST	80052	72 (4520)	13.9	6	2	61.4
TALL CORN	SX120	69 (4330)	14.2	6	1	60.8
TALL CORN	S8124	60 (3770)	14.8	5	1	60.9
TODD	MX73	44 (2760)	13.1	2	3	60.4
TODD	MX73A	52 (3260)	14.2	1	7	59.8
TODD	M95	60 (3770)	13.9	2	1	62.2
TROJAN	TXS115A	51 (3200)	13.5	2	6	59.6
TROJAN	T1189	67 (4210)	14.2	2	2	60.4
TROJAN	T123J	58 (3640)	15.0	4	4	61.0
WEATHER MASTER	EPX 788A	58 (3640)	12.9	1	3	59.9
WEATHER MASTER	EPX 888	51 (3200)	12.5	1	3	60.0
WILSON	1040	69 (4330)	13.4	4	2	58.1
WILSON	1800	51 (3200)	13.4	1	4	59.0
WILSON	1800A	57 (3580)	14.5	3	3	60.4
WINTERSET HYBRI	CB68	61 (3830)	13.8	2	4	58.8
WINTERSET HYBRI	CB89	70 (4390)	14.8	4	1	61.5
AVERAGE ALL ENTRIES		59.3 (3723)	13.8	2.1	3.5	60.1
DIF. REQ. FOR SIG.	5%	13.6 (854)	0.9	4.0	4.4	1.3
	25%	8.0 (502)	0.5	2.4	2.6	0.8

Severe corn borer damage.

TABLE 1b. ZONE I NONIRRIGATED. 1979-1980.

BRAND	HYBRID	GRAIN YIELD BU/A (KG/HA)	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
		2 YEAR AVERAGE			
-----	NEBR. 611	112 (7030)	14.3	1	1
-----	NEBR. 714	110 (6910)	14.2	1	0
-----	NEBR. 715	105 (6590)	14.8	1	1
ACCO	UC8201	115 (7220)	13.9	1	2
ASGROW	RX777	107 (6720)	15.7	2	2
ASGROW	RX90	117 (7350)	14.0	1	3
ASGROW	RX909	98 (6150)	15.8	1	1
BO-JAC	56	116 (7280)	14.3	1	3
BO-JAC	69	112 (7030)	13.8	2	5
CARGILL	949	112 (7030)	14.0	1	3
CARGILL	967	118 (7410)	14.4	2	1
CENEX	2371	102 (6400)	14.0	2	0
CENEX	2380	104 (6530)	14.5	1	2
COOP	2300	105 (6590)	14.0	1	2
DEKALB	XL-72AA	110 (6910)	14.2	1	3
DEKALB	XL-75	104 (6530)	14.5	4	1
FONTANELLE	580	112 (7030)	14.2	1	4
FONTANELLE	590	105 (6590)	13.7	1	3
GOLD TAG	3020	97 (6090)	14.4	1	2
GOLDEN ACRES	T-E 6995	101 (6340)	14.8	1	3
GOLDEN ACRES	T-E 6995-A	108 (6780)	13.9	2	3
GUTWEIN	2910	113 (7090)	16.1	2	2
GUTWEIN	62	102 (6400)	14.0	3	2
HOEGEMEYER	SX2840	109 (6840)	16.1	3	2
HORIZON	861	117 (7350)	14.2	4	1
HORIZON	870	105 (6590)	14.6	1	2
JACQUES	JX180	105 (6590)	14.2	2	3
JACQUES	JX247	110 (6910)	15.9	4	3
KELTGEN	KS115	103 (6470)	14.0	2	3
KELTGEN	KS119	105 (6590)	14.1	2	4
KELTGEN	KT119	99 (6220)	13.9	0	5
LYNKS	LX 4330	105 (6590)	14.2	1	4
LYNKS	LX 4500	114 (7160)	16.0	3	2
MCCURDY	84	107 (6720)	14.3	2	3
MCCURDY	84AA	114 (7160)	16.1	1	2
MFA	5104	101 (6340)	13.8	3	1
MFA	5802	104 (6530)	14.0	2	1
MFA	5903	104 (6530)	14.1	1	3
MIGRO SEEDS	M0707	111 (6970)	15.9	1	1
MIGRO SEEDS	SPX 77	114 (7160)	16.4	4	1
NC+	59	108 (6780)	14.1	1	3
NORTHRUP KING	PX 72	114 (7160)	14.0	3	1
NORTHRUP KING	PX 74	112 (7030)	14.2	0	3
NORTHRUP KING	PX 87	111 (6970)	15.5	1	1
O'S GOLD	SX3344	121 (7600)	13.9	2	1
O'S GOLD	SX5500A	103 (6470)	13.9	1	0
P-A-G	SX 333	115 (7220)	14.1	0	3
P-A-G	SX 351	112 (7030)	14.2	0	1
P-A-G	SX 373	96 (6030)	14.9	2	1
POI	88	121 (7600)	16.2	1	2
POI	89	120 (7530)	15.9	3	2
PRAIRIE VALLEY	76S	110 (6910)	14.0	1	4
PRAIRIE VALLEY	795	114 (7160)	15.3	1	1
PRAIRIE VALLEY	818	116 (7280)	15.7	4	0
STEWART	6573	105 (6590)	17.4	3	2
SUPER CROST	5440	103 (6470)	14.2	1	3
TODD	MX73	99 (6220)	14.4	1	2
TODD	MX73A	103 (6470)	14.7	1	4
TODD	M95	111 (6970)	15.1	2	0
TROJAN	TXS115A	101 (6340)	14.3	2	3
TROJAN	T1189	107 (6720)	14.8	1	1
WEATHER MASTER	EPX 888	96 (6030)	13.6	1	2
WILSON	1040	111 (6970)	14.2	2	1
WILSON	1800	103 (6470)	14.3	1	2
WILSON	1800A	105 (6590)	15.7	3	1
WINTERSET HYBRID	CB68	115 (7220)	14.5	1	3
AVERAGE ALL ENTRIES		108.2 (6793)	14.6	1.7	2.1
DIF. REQ. FOR SIG.	5%	N.S.	1.1	N.S.	N.S.
	25%	9.4 (590)	0.6	1.4	1.8

TABLE 1c. ZONE I NONIRRIGATED. 1976-1980.

BRAND	HYBRID	GRAIN YIELD BU/A (KG/HA)	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
		3 YEAR AVERAGE			
-----	NEBR. 611	119 (7470)	15.0	4	1
-----	NEBR. 714	118 (7410)	14.8	3	1
-----	NEBR. 715	116 (7280)	15.5	2	1
ACCO	UC8201	121 (7600)	14.7	3	2
ASGROW	RX90	124 (7780)	14.6	4	3
BO-JAC	56	121 (7600)	14.9	3	3
BO-JAC	69	121 (7600)	14.3	4	4
CARGILL	949	119 (7470)	14.7	3	4
CENEX	2371	111 (6970)	14.5	5	0
CENEX	2380	112 (7030)	15.0	3	2
COOP	2300	113 (7090)	14.6	4	3
DEKALB	XL-72AA	116 (7280)	14.8	2	3
DEKALB	XL-75	112 (7030)	15.1	4	1
FONTANELLE	580	117 (7350)	14.9	3	3
FONTANELLE	590	114 (7160)	14.4	5	3
GOLDEN ACRES	T-E 6995-A	115 (7220)	14.4	5	3
GUTWEIN	62	112 (7030)	14.7	5	2
HORIZON	861	124 (7780)	14.9	8	1
HORIZON	870	113 (7090)	14.9	4	1
KELTGEN	KS115	113 (7090)	14.8	4	3
KELTGEN	KS119	114 (7160)	14.5	4	4
LYNKS	LX 4330	114 (7160)	14.8	3	4
MCCURDY	84	117 (7350)	15.0	5	4
MFA	5802	113 (7090)	14.8	5	2
MFA	5903	112 (7030)	14.7	4	4
MIGRO SEEDS	SPX 77	118 (7410)	16.8	4	1
NC+	59	115 (7220)	14.7	5	3
NORTHRUP KING	PX 74	119 (7470)	14.7	2	4
O'S GOLD	SX3344	126 (7910)	14.8	5	1
P-A-G	SX 333	118 (7410)	14.7	4	4
PRAIRIE VALLEY	76S	117 (7350)	14.6	4	5
PRAIRIE VALLEY	818	123 (7720)	16.4	5	0
SUPER CROST	5440	113 (7090)	14.8	4	3
TODD	MX73	107 (6720)	15.3	4	3
TODD	MX73A	111 (6970)	15.0	4	3
TROJAN	TXS115A	110 (6910)	14.9	4	3
WEATHER MASTER	EPX 888	106 (6650)	14.6	5	1
WILSON	1040	113 (7090)	14.7	9	1
WILSON	1800	109 (6840)	14.9	2	3
WILSON	1800A	114 (7160)	16.5	4	2
AVERAGE ALL ENTRIES		115.6 (7257)	14.9	4.1	2.5
DIF. REQ. FOR SIG.	5%	9.9 (622)	0.6	N.S.	2.5
	25%	5.8 (364)	0.4	N.S.	1.5
		4 YEAR AVERAGE			
-----	NEBR. 611	108 (6780)	16.0	6	2
-----	NEBR. 714	107 (6720)	16.3	3	1
ASGROW	RX90	113 (7090)	15.8	4	4
BO-JAC	56	111 (6970)	16.1	4	3
CARGILL	949	110 (6910)	15.8	4	4
CENEX	2380	102 (6400)	16.0	4	3
COOP	2300	102 (6400)	15.7	4	2
FONTANELLE	580	105 (6590)	15.9	2	3
FONTANELLE	590	107 (6720)	15.5	5	4
GUTWEIN	62	102 (6400)	15.8	4	2
LYNKS	LX 4330	105 (6590)	15.8	3	3
MCCURDY	84	107 (6720)	16.0	5	3
MFA	5802	104 (6530)	15.8	5	3
MFA	5903	101 (6340)	15.9	4	4
MIGRO SEEDS	SPX 77	112 (7030)	17.9	5	3
NC+	59	103 (6470)	15.8	5	3
NORTHRUP KING	PX 74	106 (6650)	15.8	3	4
O'S GOLD	SX3344	117 (7350)	16.1	8	2
PRAIRIE VALLEY	76S	107 (6720)	15.8	4	4
SUPER CROST	5440	102 (6400)	15.6	3	3
TROJAN	TXS115A	99 (6220)	15.9	4	4
WEATHER MASTER	EPX 888	98 (6150)	15.7	5	1
AVERAGE ALL ENTRIES		105.8 (6642)	16.0	4.3	3.0
DIF. REQ. FOR SIG.	5%	7.6 (477)	0.5	N.S.	2.4
	25%	4.4 (276)	0.3	N.S.	1.4
		5 YEAR AVERAGE			
-----	NEBR. 611	108 (6780)	16.7	5	1
-----	NEBR. 714	107 (6720)	17.0	3	1
ASGROW	RX90	112 (7030)	16.6	3	3
CARGILL	949	109 (6840)	16.7	3	3
CENEX	2380	104 (6530)	16.6	3	2
COOP	2300	102 (6400)	16.5	3	2
FONTANELLE	590	105 (6590)	16.0	4	3
MCCURDY	84	106 (6650)	16.9	4	3
NC+	59	105 (6590)	16.6	4	3
O'S GOLD	SX3344	115 (7220)	16.8	7	1
PRAIRIE VALLEY	76S	105 (6590)	16.5	3	3
SUPER CROST	5440	104 (6530)	16.5	3	3
TROJAN	TXS115A	100 (6280)	16.7	3	3
WEATHER MASTER	EPX 888	99 (6220)	16.6	4	1
AVERAGE ALL ENTRIES		105.8 (6642)	16.6	3.7	2.3
DIF REQ. FOR SIG.	5%	6.8 (427)	N.S.	N.S.	1.8
	25%	3.9 (245)	N.S.	1.0	1.0

TABLE 2a. ZONE II NONIRRIGATED. DODGE COUNTY. 1980.

BRAND	HYBRID	GRAIN YIELD BU/A (KG/HA)	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
-----	NEBR. 611	38 (2390)	13.7	2	1
-----	NEBR. 714	36 (2260)	15.8	0	0
-----	NEBR. 715	36 (2260)	14.4	1	0
ACCO	UC5990	31 (1950)	12.6	0	0
ACCO	UC7251	27 (1700)	13.9	0	1
ACCO	UC8201	24 (1510)	13.4	1	5
ASGROW	RX90	27 (1700)	13.1	1	5
BO-JAC	432	37 (2320)	12.2	0	1
BO-JAC	452	31 (1950)	12.6	0	0
BO-JAC	562	39 (2450)	15.3	5	7
BO-JAC	69	23 (1440)	13.1	1	7
CARGILL	921	36 (2260)	12.5	1	1
CARGILL	922	22 (1380)	12.6	6	2
CARGILL	967	40 (2510)	14.4	1	2
CENEX	2114	33 (2070)	12.3	0	1
CENEX	2371	39 (2450)	13.3	0	2
CENEX	2380	31 (1950)	13.4	2	3
COOP	2260	24 (1510)	12.5	0	6
COOP	2300	26 (1630)	13.5	0	1
COOP	2300A	18 (1130)	13.6	1	0
CURRY	SC-150	28 (1760)	13.0	0	1
CURRY	SC-1505	34 (2130)	14.1	2	2
CURRY	SC-1520	22 (1380)	13.2	1	5
CURRY	SC-1580	45 (2830)	15.7	1	2
DEKALB	XL-362AA	37 (2320)	13.0	1	2
DEKALB	XL-63	24 (1510)	13.4	1	2
DEKALB	XL-72AA	49 (3080)	13.5	1	3
DEKALB	XL-72C	19 (1190)	14.2	0	0
EK PREMIUM	EK 7770	29 (1820)	13.7	0	0
EK PREMIUM	EK 8800	25 (1570)	13.8	0	6
EK PREMIUM	EK 8850	24 (1510)	13.4	0	2
EK PREMIUM	EK 8870	26 (1630)	14.2	2	1
FONTANELLE	580	33 (2070)	13.2	0	1
FONTANELLE	590	27 (1700)	12.8	1	8
FUNK'S	G-4507	26 (1630)	13.8	1	2
FUNK'S	G-4583	20 (1260)	14.7	1	4
GOLD TAG	2006	31 (1950)	12.8	0	0
GOLD TAG	2060	32 (2010)	12.4	1	1
GOLD TAG	2062	20 (1260)	12.4	1	1
GOLD TAG	3006	33 (2070)	12.6	0	0
GOLDEN ACRES	T-E 6945	23 (1440)	13.4	0	1
GOLDEN ACRES	T-E 6995	27 (1700)	14.4	0	5
GOLDEN ACRES	T-E 6995-A	18 (1130)	13.4	1	6
GROWERS	NS 212	21 (1320)	13.9	0	0
GROWERS	246 EXP.	24 (1510)	13.8	1	3
GUTWEIN	2910	41 (2570)	15.7	0	0
GUTWEIN	62	37 (2320)	13.4	0	3
HOEGEMEYER	SX2700	46 (2890)	14.1	4	7
HOEGEMEYER	SX2768	34 (2130)	13.6	1	3
HORIZON	802	34 (2130)	14.2	0	2
HORIZON	845	24 (1510)	14.3	1	5
HORIZON	861	30 (1880)	13.9	1	5
HORIZON	870	20 (1260)	13.7	0	1
JACQUES	JX179	40 (2510)	13.6	1	5
JACQUES	JX180	36 (2260)	14.6	1	3
JACQUES	JX187A	52 (3260)	14.2	5	5
JACQUES	JX227	26 (1630)	14.0	1	6
KALTENBERG	KX76	23 (1440)	14.3	0	6
KELTGEN	KS115	19 (1190)	13.4	0	1
KELTGEN	KS119	14 (880)	12.8	0	4

CONTINUED

TABLE 2a. CONCLUDED.

BRAND	HYBRID	GRAIN YIELD BU/A (KG/HA)	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
LYNKS	LX 4360	40 (2510)	13.9	0	2
MCCURDY	65	34 (2130)	13.9	0	1
MCCURDY	6555	25 (1570)	12.9	0	1
MCCURDY	7440	27 (1700)	13.3	0	4
MCCURDY	84	30 (1880)	13.6	0	3
MIGRO SEEDS	HP 23	23 (1440)	13.1	1	4
MIGRO SEEDS	HP 27	31 (1950)	12.4	0	3
MIGRO SEEDS	HP 470	23 (1440)	12.7	0	1
MIGRO SEEDS	SPX 34	38 (2390)	13.7	0	1
NC+	59	21 (1320)	12.9	0	1
NORTHRUP KING	PX 72	34 (2130)	14.0	0	1
NORTHRUP KING	PX 74	27 (1700)	13.6	0	3
NORTHRUP KING	PX 75	47 (2950)	16.5	0	0
O'S GOLD	SX1170	24 (1510)	13.1	0	2
O'S GOLD	SX5500A	28 (1760)	13.4	0	0
P-A-G	SX 333	21 (1320)	13.8	2	3
P-A-G	SX 351	43 (2700)	14.3	0	0
PAYCO	SX 844	29 (1820)	13.0	2	2
PAYCO	SX 990	16 (1000)	13.6	0	2
POI	FF	51 (3200)	14.3	0	0
POI	4-14	38 (2390)	13.4	0	1
POI	89	35 (2200)	15.3	0	1
PRAIRIE STREAM	SX67	12 (750)	12.8	0	0
PRAIRIE VALLEY	595A	27 (1700)	12.8	0	0
PRAIRIE VALLEY	757	39 (2450)	13.8	0	2
PRAIRIE VALLEY	759	47 (2950)	13.7	0	0
PRAIRIE VALLEY	76S	30 (1880)	14.2	1	1
RVI	3261	32 (2010)	12.4	5	4
SOKOTA	SK79	25 (1570)	13.3	0	1
SOKOTA	TS75	19 (1190)	12.9	1	1
STEWART	349	18 (1130)	15.1	1	0
STEWART	6586	29 (1820)	12.3	0	1
SUPER CROST	5440	21 (1320)	14.7	0	5
SUPER CROST	7600	33 (2070)	15.1	1	4
SUPER CROST	79047	45 (2830)	12.4	0	1
SUPER CROST	80052	35 (2200)	14.4	1	6
TALL CORN	SX115	33 (2070)	14.0	0	1
TALL CORN	SX120	38 (2390)	15.0	2	4
TALL CORN	TX118	30 (1880)	13.8	0	3
TODD	MX73	24 (1510)	13.9	0	1
TODD	MX73A	18 (1130)	13.7	0	2
TODD	M53	28 (1760)	12.4	0	1
TODD	M95	33 (2070)	16.1	1	0
TROJAN	TXS115A	25 (1570)	14.0	0	1
TROJAN	T1170	18 (1130)	13.6	1	1
TROJAN	T1189	49 (3080)	15.9	1	1
WILSON	1040	46 (2890)	13.9	2	0
WILSON	1600	21 (1320)	12.6	0	1
WILSON	1800	20 (1260)	14.0	0	1
WILSON	1800A	25 (1570)	14.6	1	4
WINTERSET HYBRI	CB68	34 (2130)	14.6	0	4
WINTERSET HYBRI	CB89	39 (2450)	15.6	1	6
YW HYBRIDS	YW 3737	22 (1380)	12.7	1	1
YW HYBRIDS	YW 6060	28 (1760)	12.4	0	0
AVERAGE ALL ENTRIES		30.0 (1883)	13.7	0.7	2.2
DIF. REQ. FOR SIG.	5%	15.8 (992)	1.2	2.2	3.8
	25%	9.3 (584)	0.7	1.3	1.3

Severe drouth caused high plot variability.

TABLE 2b. ZONE II NONIRRIGATED. 1979-1980.

BRAND	HYBRID	GRAIN YIELD BU/A (KG/HA)	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
		2 YEAR AVERAGE			
-----	NEBR. 611	73 (4580)	15.4	3	1
-----	NEBR. 714	80 (5020)	18.6	3	0
-----	NEBR. 715	75 (4710)	18.0	1	0
ACCO	UC8201	77 (4830)	16.3	1	3
ASGROW	RX90	72 (4520)	16.0	2	3
BO-JAC	432	78 (4900)	14.0	1	1
BO-JAC	562	83 (5210)	18.4	5	4
CARGILL	921	79 (4960)	14.4	2	1
CARGILL	922	72 (4520)	14.5	5	1
CARGILL	967	84 (5270)	16.6	1	1
CENEX	2371	76 (4770)	15.9	1	1
CENEX	2380	73 (4580)	16.1	2	2
COOP	2260	67 (4210)	13.6	1	3
COOP	2300	73 (4580)	16.2	1	1
CURRY	SC-150	78 (4900)	16.2	2	0
CURRY	SC-1505	79 (4960)	16.0	3	2
DEKALB	XL-63	70 (4390)	15.6	2	2
DEKALB	XL-72AA	86 (5400)	16.3	2	2
FONTANELLE	580	74 (4650)	16.5	1	2
FONTANELLE	590	68 (4270)	14.7	1	4
FUNK'S	G-4507	76 (4770)	16.7	1	1
FUNK'S	G-4583	68 (4270)	16.5	3	3
GOLD TAG	2060	71 (4460)	13.9	2	1
GOLDEN ACRES	T-E 6995	71 (4460)	17.2	3	3
GOLDEN ACRES	T-E 6995-A	69 (4330)	15.6	1	3
GUTWEIN	62	75 (4710)	16.7	2	2
HORIZON	870	72 (4520)	16.8	1	1
JACQUES	JX180	73 (4580)	17.0	3	2
KALTENBERG	KX76	72 (4520)	17.3	2	3
KELTGEN	KS115	71 (4460)	16.7	2	2
KELTGEN	KS119	62 (3890)	15.2	1	2
MCCURDY	65	77 (4830)	16.4	1	1
MCCURDY	34	76 (4770)	16.4	1	2
MIGRO SEEDS	SPX 34	82 (5150)	16.8	0	1
NC+	59	73 (4580)	16.3	1	1
NORTHRUP KING	PX 72	82 (5150)	17.1	2	2
NORTHRUP KING	PX 74	76 (4770)	16.4	1	2
P-A-G	SX 333	75 (4710)	16.3	3	2
PAYCO	SX 990	65 (4080)	16.3	1	2
PRAIRIE VALLEY	76S	76 (4770)	16.8	3	2
SUPER CROST	5440	72 (4520)	17.0	1	3
TODD	MX73	70 (4390)	17.0	2	2
TODD	MX73A	66 (4140)	16.7	2	2
TROJAN	TXS115A	70 (4390)	16.9	1	1
TROJAN	T1189	80 (5020)	18.5	1	0
WILSON	1040	80 (5020)	16.0	2	0
WILSON	1800	71 (4460)	17.0	2	1
WILSON	1800A	70 (4390)	17.8	2	3
AVERAGE ALL ENTRIES		74.2 (4658)	16.3	1.8	1.8
DIF. REQ. FOR SIG.	5%	N.S.	1.6	N.S.	N.S.
	25%	N.S.	0.9	1.3	1.9

TABLE 2c. ZONE II NONIRRIGATED. 1976-1980.

BRAND	HYBRID	GRAIN YIELD BU/A (KG/HA)	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
		3 YEAR AVERAGE			
-----	NEBR. 611	93 (5840)	17.4	2	0
-----	NEBR. 714	101 (6340)	19.8	3	0
-----	NEBR. 715	98 (6150)	19.5	1	0
ACCO	UC8201	102 (6400)	18.2	1	2
ASGROW	RX90	96 (6030)	17.8	1	2
CENEX	2371	95 (5960)	17.2	1	1
CENEX	2380	96 (6030)	18.2	2	1
COOP	2260	88 (5520)	14.7	1	2
COOP	2300	98 (6150)	18.3	1	1
CURRY	SC-150	101 (6340)	18.0	2	1
DEKALB	XL-63	90 (5650)	17.5	1	1
DEKALB	XL-72AA	104 (6530)	18.1	2	2
FONTANELLE	580	95 (5960)	18.5	1	1
FONTANELLE	590	93 (5840)	17.0	1	3
FUNK'S	G-4507	100 (6280)	18.4	1	1
FUNK'S	G-4583	90 (5650)	18.4	2	2
GOLDEN ACRES	T-E 6995	96 (6030)	19.0	2	2
GUTWEIN	62	96 (6030)	18.2	1	2
HORIZON	870	95 (5960)	18.6	1	0
KALTENBERG	KX76	98 (6150)	18.9	1	2
KELTGEN	KS115	97 (6090)	18.8	2	2
KELTGEN	KS119	88 (5520)	17.4	1	2
MCCURDY	65	98 (6150)	18.0	1	1
MIGRO SEEDS	SPX 34	99 (6220)	18.4	0	0
NC+	59	97 (6090)	18.3	1	1
NORTHRUP KING	PX 74	100 (6280)	18.3	1	1
P-A-G	SX 333	99 (6220)	18.1	2	2
PRAIRIE VALLEY	76S	101 (6340)	18.5	2	1
SUPER CROST	5440	98 (6150)	18.8	1	2
TODD	MX73	93 (5840)	18.9	2	1
TODD	MX73A	90 (5650)	18.5	2	2
TROJAN	TXS115A	92 (5780)	18.7	1	1
WILSON	1040	96 (6030)	17.9	3	0
WILSON	1800	94 (5900)	18.6	2	1
WILSON	1800A	97 (6090)	19.8	2	2
AVERAGE ALL ENTRIES		96.1 (6033)	18.2	1.5	1.3
DIF. REQ. FOR SIG. 5%		N.S.	1.1	N.S.	N.S.
25%		N.S.	0.7	N.S.	N.S.
		4 YEAR AVERAGE			
-----	NEBR. 611	96 (6030)	18.3	4	1
-----	NEBR. 714	104 (6530)	20.3	3	0
COOP	2300	100 (6280)	18.9	2	1
FONTANELLE	580	96 (6030)	19.1	2	2
FONTANELLE	590	98 (6150)	18.3	3	4
FUNK'S	G-4507	101 (6340)	18.8	2	2
GUTWEIN	62	98 (6150)	19.0	4	2
KALTENBERG	KX76	100 (6280)	19.5	4	3
MCCURDY	65	100 (6280)	18.6	3	1
MIGRO SEEDS	SPX 34	101 (6340)	18.9	2	2
NC+	59	102 (6400)	19.0	3	2
NORTHRUP KING	PX 74	102 (6400)	18.9	3	2
PRAIRIE VALLEY	76S	105 (6590)	18.9	3	3
SUPER CROST	5440	100 (6280)	19.0	2	2
TODD	MX73	97 (6090)	19.4	3	1
TROJAN	TXS115A	96 (6030)	19.2	2	1
WILSON	1040	99 (6220)	18.9	7	0
WILSON	1800	96 (6030)	19.2	3	2
AVERAGE ALL ENTRIES		99.6 (6253)	19.0	3.1	1.7
DIF. REQ. FOR SIG. 5%		N.S.	N.S.	2.3	N.S.
25%		N.S.	0.6	1.3	1.2
		5 YEAR AVERAGE			
-----	NEBR. 611	86 (5400)	18.4	4	1
-----	NEBR. 714	93 (5840)	20.5	3	0
COOP	2300	92 (5780)	18.7	2	1
FONTANELLE	580	86 (5400)	18.8	2	2
KALTENBERG	KX76	89 (5590)	19.1	3	3
MCCURDY	65	90 (5650)	18.0	3	1
MIGRO SEEDS	SPX 34	91 (5710)	19.0	2	2
NC+	59	92 (5780)	19.1	3	2
PRAIRIE VALLEY	76S	94 (5900)	18.5	3	4
SUPER CROST	5440	89 (5590)	19.2	2	2
TODD	MX73	88 (5520)	19.1	3	2
TROJAN	TXS115A	87 (5460)	19.0	3	1
WILSON	1040	89 (5590)	18.8	6	0
AVERAGE ALL ENTRIES		89.8 (5638)	18.9	3.0	1.6
DIF. REQ. FOR SIG. 5%		N.S.	1.0	N.S.	1.7
25%		N.S.	0.6	N.S.	1.0

Table 3a. Zone II Irrigated. Summary. 1980

		YIELD				1980 AVERAGE			
BRAND	HYBRID	AVERAGE BU/A (KG/HA)	CLAY BU/A	ADAMS BU/A	RED WILLOW BU/A	MOISTURE	BROKEN PLANTS	DROPPED EARS	STALK ROT
-----	NEBR. 611	151 (9480)	132	159	163	15.6	2	1	12
-----	NEBR. 714	135 (8480)	92	154	160	16.2	2	1	10
-----	NEBR. 715	125 (7850)	98	120	156	17.2	2	2	9
ACCC	LC5990	130 (8160)	109	132	150	15.4	3	3	12
ACCC	LC7251	125 (7850)	93	129	152	15.5	6	3	14
ACCC	LC8201	132 (8290)	103	134	159	15.6	4	4	8
ASGROW	RX90	132 (8290)	75	148	173	16.1	2	3	7
ASGROW	RX909	124 (7780)	81	132	159	17.4	2	3	8
BC-JAC	432	136 (8540)	97	156	154	14.3	3	3	12
BC-JAC	452	153 (9610)	118	176	165	14.9	1	1	8
BC-JAC	562	153 (9610)	126	164	170	18.4	4	2	13
BC-JAC	69	133 (8350)	122	130	147	15.6	2	2	10
CARGILL	924	127 (7970)	107	136	137	15.0	2	1	8
CARGILL	934	127 (7970)	88	139	153	16.5	1	3	12
CARGILL	949	140 (8790)	96	154	169	16.2	1	3	9
CARGILL	967	137 (8600)	110	134	167	16.5	2	2	7
CENEX	2114	140 (8790)	91	155	174	15.0	2	1	7
CENEX	2371	143 (8980)	126	145	157	15.5	4	0	12
CENEX	2380	132 (8290)	102	135	158	16.9	2	2	10
CCCP	2300	130 (8160)	103	136	150	16.0	2	2	4
CCCP	2300A	123 (7720)	70	141	157	15.8	2	4	8
CURRY	SC-1430	128 (8040)	103	140	141	13.3	2	2	12
CURRY	SC-1455	142 (8910)	113	152	160	14.8	2	1	16
CURRY	SC-150	133 (8350)	80	156	162	15.3	1	2	9
CURRY	SC-1520	125 (7850)	91	140	145	14.7	3	6	10
DEKALB	XL-67	136 (8540)	104	153	151	15.5	2	3	12
DEKALB	XL-72AA	130 (8160)	84	143	164	15.1	3	3	11
DEKALB	XL-72C	129 (8100)	89	156	141	15.3	3	3	12
DEKALB	XL-74A	129 (8100)	82	130	176	18.6	6	1	7
EK PREMIUM	EK 770	139 (8730)	117	137	163	15.4	3	1	12
EK PREMIUM	EK 880	126 (7910)	84	144	150	16.0	2	3	5
EK PREMIUM	EK 887C	119 (7470)	81	136	141	16.4	6	3	11
EK PREMIUM	EK 990	152 (9540)	104	170	181	17.9	3	3	21
FEDERAL	FX39	121 (7600)	81	130	153	16.4	3	3	11
FONTANELLE	580	130 (8160)	100	127	164	15.8	2	3	8
FONTANELLE	590	127 (7970)	109	135	136	15.6	3	2	8
FRUNDT	SX33A	139 (8730)	102	157	159	17.4	2	1	11
FRUNDT	SX55	139 (8730)	108	155	153	16.0	3	2	9
FUNK'S	G-4507	141 (8850)	96	157	170	15.7	2	4	9
FUNK'S	G-4519	123 (7720)	72	140	158	15.8	5	2	11
FUNK'S	G-4520	136 (8540)	110	147	152	15.6	2	1	15
GOLDEN ACRES	T-E 6925	103 (6470)	79	128	103	14.2	3	4	10
GOLDEN ACRES	T-E 6995	131 (8220)	86	139	169	16.3	2	2	10
GOLDEN ACRES	T-E 6995-A	130 (8160)	91	157	143	16.0	2	2	10
GROWERS	GSA 224C	125 (7850)	91	141	142	15.0	3	3	10
GROWERS	NS 212	135 (8480)	115	130	160	16.7	2	3	9
GROWERS	246 EXP.	144 (9040)	102	159	170	15.6	4	1	19
HOEGEMEYER	SX2630	143 (8980)	112	159	159	14.7	3	2	12
HOEGEMEYER	SX2634	125 (7850)	91	142	143	15.4	3	1	7
HOEGEMEYER	SX2700	128 (8040)	72	144	168	15.8	3	2	7
HORIZON	841	122 (7660)	78	150	138	17.1	2	3	7
HORIZON	870	132 (8290)	86	136	173	16.1	2	5	9
HORIZON	890	130 (8160)	109	124	156	20.4	3	3	7
JACOBS	JX179	138 (8660)	92	159	164	15.9	3	1	17
JACOBS	JX180	130 (8160)	85	138	166	15.8	2	3	9
JACOBS	JX227	112 (7030)	73	132	131	15.9	2	5	6
JACOBS	JX247	135 (8480)	84	145	177	17.5	4	2	11
KELTGEN	KS115	125 (7850)	88	123	165	16.1	2	1	5
KELTGEN	KS119	116 (7280)	74	134	139	14.9	3	6	5
LYNKS	LX 4315	149 (9350)	114	169	165	15.2	2	1	5
LYNKS	LX 4330	140 (8790)	118	128	173	16.6	2	3	9
LYNKS	LX 4370	118 (7410)	79	139	136	16.0	3	5	5
MCCURDY	6555	143 (8980)	104	166	160	15.0	1	1	7
MCCURDY	7440	129 (8100)	106	135	146	16.4	4	3	11
MCCURDY	84	133 (8350)	103	135	162	16.4	3	3	8
MCCURDY	84AA	142 (8910)	99	144	182	18.4	3	3	12
MFA	5802	135 (8480)	99	145	161	16.3	3	4	11
MFA	5903	126 (7910)	94	144	141	16.3	3	3	9
MFA	6707	146 (9170)	96	167	175	15.5	2	2	27
MIGRO SEEDS	HP 470	143 (8980)	92	177	160	14.9	3	2	8
MIGRO SEEDS	SPX 34	128 (8040)	92	126	167	16.3	1	2	11
MIGRO SEEDS	SPX 49	149 (9350)	108	172	168	15.9	3	1	12
MIGRO SEEDS	SPX 77	156 (9790)	119	163	187	17.9	3	2	7
NC+	4710	147 (9230)	120	159	163	14.9	2	0	10
NC+	59	132 (8290)	97	132	166	16.5	2	3	10
NORTHRUP KING	PX 69A	140 (8790)	105	159	157	14.5	3	1	10
NORTHRUP KING	PX 72	134 (8410)	98	148	156	14.9	3	3	14
NORTHRUP KING	PX 74	136 (8540)	117	143	149	15.8	1	5	8
O'S GOLD	SX5255	119 (7470)	80	141	136	16.4	2	4	8
O'S GOLD	SX55CCA	146 (9170)	99	169	170	15.5	2	1	8
O'S GOLD	SX55CCAB	152 (9540)	132	157	166	16.0	3	1	19

CONTINUED

TABLE 3a. CONCLUDED.

		YIELD				1980 AVERAGE		
BRAND	HYBRID	AVERAGE BU/A (KG/HA)	CLAY BU/A	ADAMS BU/A	RED WILLOW BU/A	MOISTURE	BROKEN PLANTS	DROPPED EARS	STALK ROT
P-A-G	SX 333	139 (8730)	81	161	175	16.5	4	2	7
P-A-G	SX 351	147 (9230)	127	140	174	16.1	0	1	13
P-A-G	SX 373	138 (8660)	124	134	155	18.4	2	2	8
PAYCO	SX 844	121 (7600)	91	153	115	13.9	4	3	10
PAYCO	SX 990	122 (7660)	94	130	142	15.5	3	5	6
PCI	4-14	127 (7970)	84	137	159	15.9	1	1	5
PCI	88	158 (9920)	127	169	178	19.0	2	2	8
PCI	89	152 (9540)	92	171	192	18.8	2	2	7
PRAIRIE STREAM	SX58	132 (8290)	88	145	164	16.5	1	2	7
PRAIRIE STREAM	SX66	131 (8220)	88	143	161	16.1	3	3	10
PRAIRIE STREAM	SX67	104 (6530)	61	125	127	15.3	2	4	13
PRAIRIE VALLEY	757	133 (8350)	87	155	156	15.6	3	3	7
PRAIRIE VALLEY	765	140 (8790)	90	159	170	16.6	2	3	8
PRAIRIE VALLEY	795	146 (9170)	108	159	172	16.5	3	2	8
PRAIRIE VALLEY	818	145 (9100)	94	162	179	19.4	2	2	8
RVI	3261	118 (7410)	87	129	137	14.3	5	2	12
SCKOTA	TS75	143 (8980)	123	145	162	15.0	1	0	13
SCKOTA	TS82	137 (8600)	109	141	161	16.1	3	2	8
STEWART	6573	120 (7530)	86	132	142	18.8	4	2	9
SUPER CROST	5440	120 (7530)	91	119	149	16.3	3	3	4
SUPER CROST	7600	149 (9350)	116	167	164	18.1	3	2	9
SUPER CROST	79047	139 (8730)	99	160	157	14.6	3	1	13
SUPER CROST	80052	142 (8910)	120	147	158	15.8	4	2	15
TALL CORN	SX120	136 (8540)	113	133	163	17.9	3	2	9
TALL CORN	S8124	144 (9040)	93	156	183	17.6	2	2	5
TODD	MX73	124 (7780)	82	137	154	17.1	3	2	8
TODD	M55C5	142 (8910)	105	155	167	14.4	2	1	8
TODD	M83	134 (8410)	74	147	180	17.0	3	2	13
TODD	M95	146 (9170)	107	152	178	18.1	2	2	8
TROJAN	TXS115A	133 (8350)	74	150	176	16.2	2	2	6
TROJAN	T1170	122 (7660)	86	142	137	16.4	3	1	8
TROJAN	T1189	148 (9290)	121	157	165	17.3	3	1	10
WEATHER MASTER	EPX 788A	118 (7410)	71	127	157	15.4	3	2	9
WEATHER MASTER	EPX 888	128 (8040)	104	137	144	16.3	2	4	10
WILSON	1600	144 (9040)	94	163	176	14.2	2	1	11
WILSON	1800	134 (8410)	93	134	175	16.1	3	4	9
WILSON	1800A	148 (9290)	100	169	175	18.4	2	2	5
WINTERSET HYBRID	CB68	138 (8660)	85	147	181	16.4	2	3	12
WINTERSET HYBRID	CB89	149 (9350)	119	153	175	18.7	2	4	16
AVERAGE ALL ENTRIES		134.3 (8431)	97.6	146.0	159.2	16.2	2.6	2.4	9.8
DIF. REQ. FOR SIG.	5%	19.6 (1230)	32.9	28.5	18.8	1.3	2.0	2.4	8.0
	25%	11.5 (722)	19.3	16.8	11.1	0.7	1.2	1.4	4.7

Stalk rot readings from Clay and Adams Counties.

TABLE 3b. ZONE II IRRIGATED. 1979-1980.

BRAND	HYBRID	GRAIN YIELD BU/A (KG/HA)	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT	STALK ROT PCT
		2 YEAR AVERAGE				
-----	NEBR. 611	156 (9790)	16.2	12	2	25
-----	NEBR. 714	152 (9540)	17.2	13	3	24
-----	NEBR. 715	153 (9610)	17.5	12	3	24
ACCO	UC8201	154 (9670)	16.7	14	4	24
ASGROW	RX90	154 (9670)	16.7	14	4	28
BO-JAC	432	156 (9790)	14.4	8	3	22
BO-JAC	562	168 (10550)	18.7	13	3	31
CARGILL	924	141 (8850)	15.6	16	2	25
CARGILL	934	148 (9290)	16.5	10	3	25
CARGILL	949	164 (10300)	16.8	10	3	24
CARGILL	967	160 (10040)	17.0	13	3	20
CENEX	2371	156 (9790)	16.0	15	2	21
CENEX	2380	141 (8850)	17.1	11	3	20
COOP	2300	146 (9170)	16.4	10	3	21
CURRY	SC-150	162 (10170)	16.3	10	2	25
DEKALB	XL-72AA	158 (9920)	16.4	11	3	28
FEDERAL	FX39	146 (9170)	16.9	10	3	24
FONTANELLE	580	151 (9480)	16.6	8	3	14
FONTANELLE	590	152 (9540)	16.4	10	3	20
FRUNDT	SX33A	162 (10170)	18.3	11	2	25
FUNK'S	G-4507	162 (10170)	16.8	12	4	25
FUNK'S	G-4520	157 (9860)	16.2	11	3	24
GOLDEN ACRES	T-E 6995	149 (9350)	17.1	13	3	20
GOLDEN ACRES	T-E 6995-A	149 (9350)	16.7	9	2	22
HOEGEMEYER	SX2634	148 (9290)	15.8	10	2	25
HORIZON	841	132 (8290)	17.4	10	4	24
HORIZON	870	155 (9730)	16.8	13	4	24
JACQUES	JX180	148 (9290)	16.8	11	3	22
KELTGEN	KS115	150 (9420)	16.8	12	3	19
KELTGEN	KS119	142 (8910)	16.4	10	4	17
LYNKS	LX 4330	164 (10300)	17.1	11	3	23
LYNKS	LX 4370	145 (9100)	17.0	9	4	21
MCCURDY	84	160 (10040)	16.8	11	4	23
MCCURDY	84AA	166 (10420)	18.7	11	3	21
MFA	5802	149 (9350)	16.9	10	3	24
MFA	5903	141 (8850)	16.8	17	4	28
MIGRO SEEDS	SPX 34	151 (9480)	16.8	9	2	23
MIGRO SEEDS	SPX 77	170 (10670)	18.4	10	3	18
NC+	59	157 (9860)	16.8	11	3	20
NORTHRUP KING	PX 69A	149 (9350)	14.8	10	2	19
NORTHRUP KING	PX 72	157 (9860)	16.0	14	4	26
NORTHRUP KING	PX 74	154 (9670)	16.8	11	5	26
O'S GOLD	SX5500A	162 (10170)	16.4	11	2	21
O'S GOLD	SX5500AB	163 (10230)	16.7	11	2	33
P-A-G	SX 333	156 (9790)	16.9	15	3	23
P-A-G	SX 351	162 (10170)	16.7	11	2	19
P-A-G	SX 373	162 (10170)	19.2	8	3	19
PAYCO	SX 990	140 (8790)	16.2	13	5	21
PRAIRIE STREAM	SX5B	155 (9730)	16.7	9	3	25
PRAIRIE STREAM	SX66	148 (9290)	16.3	8	3	23

CONTINUED

TABLE 3b. CONCLUDED.

BRAND	HYBRID	GRAIN YIELD BU/A (KG/HA)	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT	STALK ROT PCT
		2 YEAR AVERAGE				
PRAIRIE VALLEY	76S	152 (9540)	17.0	11	3	27
PRAIRIE VALLEY	818	162 (10170)	19.7	8	3	16
SOKOTA	TS82	154 (9670)	17.1	12	3	26
STEWART	6573	140 (8790)	19.6	12	2	20
SUPER CROST	5440	147 (9230)	16.9	9	3	19
TODD	MX73	147 (9230)	17.8	10	3	22
TODD	M95	164 (10300)	18.8	9	2	21
TROJAN	TXS115A	149 (9350)	16.8	13	3	28
TROJAN	T1189	159 (9980)	18.3	9	2	19
WEATHER MASTER	EPX 888	141 (8850)	16.6	10	4	22
WILSON	1800	157 (9860)	16.8	10	4	24
WILSON	1800A	161 (10110)	18.7	12	2	26
WINTERSET HYBRID	CB68	150 (9420)	17.1	11	3	27
WINTERSET HYBRID	CB89	174 (10920)	18.9	9	4	24
AVERAGE ALL ENTRIES		153.8 (9656)	17.0	11.0	3.0	23.0
DIF. REQ. FOR SIG.	5%	15.6 (979)	0.9	5.2	N.S.	N.S.
	25%	9.0 (565)	0.5	3.1	N.S.	N.S.

TABLE 3c. ZONE II IRRIGATED. 1978-1980.

BRAND	HYBRID	GRAIN YIELD BU/A (KG/HA)	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT	STALK ROT PCT
		3 YEAR AVERAGE				
-----	NEBR. 611	153 (9610)	16.7	13	2	29
-----	NEBR. 714	159 (9980)	17.3	13	2	24
-----	NEBR. 715	159 (9980)	17.8	11	2	25
ACCO	UC8201	162 (10170)	17.1	12	3	30
ASGROW	RX90	165 (10360)	17.1	11	3	34
CARGILL	924	141 (8850)	16.0	12	2	22
CARGILL	949	168 (10550)	17.3	9	3	28
CENEX	2371	162 (10170)	15.9	19	2	29
CENEX	2380	147 (9230)	17.5	13	2	24
COOP	2300	148 (9290)	17.0	11	2	26
CURRY	SC-150	165 (10360)	16.8	10	2	31
DEKALB	XL-72AA	161 (10110)	16.9	10	2	29
FONTANELLE	580	157 (9860)	17.3	9	3	17
FONTANELLE	590	152 (9540)	16.7	12	2	30
FRUNDT	SX33A	170 (10670)	18.2	11	2	32
FUNK'S	G-4507	163 (10230)	17.3	12	4	31
FUNK'S	G-4520	161 (10110)	17.0	12	3	32
GOLDEN ACRES	T-E 6995	159 (9980)	17.6	11	2	26
HORIZON	841	135 (8480)	16.9	11	3	30
HORIZON	870	161 (10110)	17.4	12	3	31
JACQUES	JX180	155 (9730)	17.3	13	3	30
KELTGEN	KS115	155 (9730)	17.4	11	2	23
KELTGEN	KS119	144 (9040)	16.8	9	3	26
LYNKS	LX 4330	164 (10300)	17.7	10	2	26
LYNKS	LX 4370	144 (9040)	16.9	9	3	30
MCCURDY	84	162 (10170)	17.4	9	3	22
MFA	5802	152 (9540)	17.3	9	3	24
MFA	5903	143 (8980)	17.2	14	3	31
MIGRO SEEDS	SPX 34	153 (9610)	17.3	8	2	27
MIGRO SEEDS	SPX 77	165 (10360)	18.9	9	2	29
NC+	59	162 (10170)	17.1	12	3	23
NORTHRUP KING	PX 74	161 (10110)	17.3	10	3	29
O'S GOLD	SX5500A	164 (10300)	17.1	10	2	28
O'S GOLD	SX5500AB	165 (10360)	16.7	11	2	36
P-A-G	SX 333	159 (9980)	17.2	13	2	28
PRAIRIE STREAM	SX5B	161 (10110)	17.4	10	3	30
PRAIRIE STREAM	SX66	156 (9790)	17.0	7	3	25
PRAIRIE VALLEY	76S	158 (9920)	17.5	10	2	32
PRAIRIE VALLEY	818	172 (10800)	19.8	8	2	21
SUPER CROST	5440	153 (9610)	17.1	10	2	25
TODD	MX73	149 (9350)	18.1	10	2	25
TROJAN	TXS115A	159 (9980)	17.4	11	2	28
WILSON	1800	158 (9920)	17.5	10	3	24
WILSON	1800A	166 (10420)	19.4	10	2	28
AVERAGE ALL ENTRIES		157.4 (9882)	17.3	10.8	2.5	27.5
DIF. REQ. FOR SIG.	5%	13.7 (860)	0.9	N.S.	N.S.	N.S.
	25%	8.0 (502)	0.5	3.0	N.S.	N.S.

TABLE 3d. ZONE II IRRIGATED. 1976-1980.

BRAND	HYBRID	GRAIN YIELD BU/A (KG/HA)	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
		4 YEAR AVERAGE			
-----	NEBR. 611	155 (9730)	18.0	10	4
-----	NEBR. 714	162 (10170)	18.5	11	3
ASGROW	RX90	164 (10300)	18.1	9	4
CARGILL	949	172 (10800)	18.2	9	4
CENEX	2371	168 (10550)	17.4	16	3
CENEX	2380	153 (9610)	18.5	10	4
COOP	2300	153 (9610)	18.2	9	4
CURRY	SC-150	168 (10550)	18.2	9	3
FONTANELLE	580	160 (10040)	18.4	6	4
FONTANELLE	590	157 (9860)	17.8	10	3
FUNK'S	G-4507	164 (10300)	18.3	11	5
FUNK'S	G-4520	161 (10110)	18.1	11	4
HORIZON	841	143 (8980)	18.0	10	5
HORIZON	870	166 (10420)	18.6	10	4
JACQUES	JX180	161 (10110)	18.4	10	3
LYNKS	LX 4330	167 (10480)	18.9	9	3
LYNKS	LX 4370	150 (9420)	17.9	7	4
MCCURDY	84	167 (10480)	18.4	8	4
MIGRO SEEDS	SPX 34	159 (9980)	18.5	9	3
MIGRO SEEDS	SPX 77	170 (10670)	20.2	8	3
NC+	59	165 (10360)	18.1	9	4
NORTHRUP KING	PX 74	166 (10420)	18.4	9	4
O'S GOLD	SX5500A	166 (10420)	18.2	9	2
O'S GOLD	SX5500AB	167 (10480)	17.9	10	3
PRAIRIE STREAM	SX5B	167 (10480)	18.5	8	4
PRAIRIE STREAM	SX66	158 (9920)	18.3	8	4
PRAIRIE VALLEY	76S	162 (10170)	18.5	11	3
SUPER CROST	5440	158 (9920)	18.3	8	3
TODD	MX73	157 (9860)	18.6	10	4
TROJAN	TXS115A	161 (10110)	18.5	9	3
WILSON	1800	163 (10230)	18.6	10	3
AVERAGE ALL ENTRIES		161.6 (10145)	18.3	9.5	3.6
DIF. REQ. FOR SIG.	5%	11.6 (728)	0.8	N.S.	N.S.
	25%	6.8 (427)	0.5	N.S.	N.S.
		5 YEAR AVERAGE			
-----	NEBR. 611	157 (9860)	18.6	9	3
-----	NEBR. 714	163 (10230)	19.1	9	2
ASGROW	RX90	165 (10360)	18.6	7	3
CARGILL	949	173 (10860)	18.7	8	4
CENEX	2380	158 (9920)	18.9	9	3
CURRY	SC-150	169 (10610)	18.7	8	3
FONTANELLE	580	161 (10110)	18.9	6	4
FONTANELLE	590	160 (10040)	18.7	9	3
FUNK'S	G-4507	166 (10420)	18.9	9	4
FUNK'S	G-4520	159 (9980)	18.7	9	3
HORIZON	841	149 (9350)	18.7	9	4
HORIZON	870	169 (10610)	19.0	8	4
JACQUES	JX180	162 (10170)	19.0	9	3
LYNKS	LX 4330	166 (10420)	19.4	8	3
LYNKS	LX 4370	154 (9670)	18.9	6	3
MCCURDY	84	167 (10480)	19.1	7	3
MIGRO SEEDS	SPX 34	163 (10230)	19.2	8	3
NC+	59	167 (10480)	18.6	8	3
O'S GOLD	SX5500A	167 (10480)	18.8	7	2
PRAIRIE STREAM	SX5B	168 (10550)	18.9	7	3
PRAIRIE VALLEY	76S	164 (10300)	19.0	9	3
SUPER CROST	5440	160 (10040)	19.0	7	3
TODD	MX73	162 (10170)	19.0	8	3
TROJAN	TXS115A	163 (10230)	18.9	7	2
WILSON	1800	163 (10230)	19.2	8	3
AVERAGE ALL ENTRIES		163.1 (10234)	18.9	8.0	3.1
DIF. REQ. FOR SIG.	5%	10.2 (640)	N.S.	N.S.	N.S.
	25%	6.0 (377)	N.S.	N.S.	N.S.

TABLE 4a. ZONE III NONIRRIGATED. DIXON COUNTY. 1980.

BRAND	HYBRID	GRAIN YIELD BU/A (KG/HA)	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
-----	NEBR. 611	99 (6220)	16.1	1	0
ACCO	UC5990	54 (3390)	14.4	0	0
ACCO	UC8201	76 (4770)	15.5	0	0
ACCO	X94790	64 (4020)	13.8	1	5
ASGROW	RX544	74 (4650)	13.6	1	2
ASGROW	RX777	105 (6590)	15.9	1	2
CARGILL	921	86 (5400)	14.6	0	4
CARGILL	922	88 (5520)	14.8	0	1
CARGILL	924	100 (6280)	15.4	1	0
CARGILL	967	69 (4330)	17.4	0	0
CENEX	2106	59 (3700)	12.4	1	3
CENEX	2108	88 (5520)	13.2	0	1
CENEX	2114	89 (5590)	14.2	2	1
CENEX	2157	77 (4830)	13.6	1	1
COOP	2165	85 (5340)	12.9	0	1
COOP	2260	68 (4270)	13.2	1	5
COOP	2300A	65 (4080)	15.1	0	1
CURRY	SC-1424	88 (5520)	13.4	0	1
CURRY	SC-1430	90 (5650)	13.5	0	1
CURRY	SC-1455	79 (4960)	14.1	1	1
CURRY	SC-150	71 (4460)	16.0	0	2
DEKALB	XL-54	102 (6400)	15.2	2	1
DEKALB	XL-57	71 (4460)	14.8	1	0
DEKALB	XL-67	87 (5460)	16.3	0	0
DEKALB	XL-72AA	79 (4960)	15.2	1	2
EK PREMIUM	EK 7700	59 (3700)	13.3	0	2
EK PREMIUM	EK 7720	64 (4020)	14.2	0	0
EK PREMIUM	EK 7770	96 (6030)	15.4	0	1
EK PREMIUM	EK 7790	72 (4520)	14.4	0	1
FEDERAL	FT44	78 (4900)	14.8	1	0
FONTANELLE	420	72 (4520)	13.4	1	7
FONTANELLE	450	59 (3700)	15.3	1	1
FONTANELLE	520	73 (4580)	14.8	1	2
FONTANELLE	580	79 (4960)	15.7	0	1
FUNK'S	G-4435	52 (3260)	14.2	1	1
FUNK'S	G-4450	55 (3450)	16.1	0	1
GOLD TAG	1090	76 (4770)	13.4	1	3
GOLD TAG	2006	84 (5270)	13.1	1	1
GROWERS	GSA 2030	72 (4520)	13.6	1	5
GROWERS	NS 212	77 (4830)	15.5	0	1
GROWERS	249 EXP.	71 (4460)	12.6	0	1
GUTWEIN	2910	80 (5020)	19.0	0	1
GUTWEIN	62	73 (4580)	15.9	1	3
HOEGEMEYER	SX2590	67 (4210)	13.8	0	1
HOEGEMEYER	SX2644	85 (5340)	15.9	0	2
HORIZON	109	44 (2760)	14.8	0	1
HORIZON	861	105 (6590)	15.7	1	2
HORIZON	870	75 (4710)	16.2	0	2
JACQUES	JX147	72 (4520)	12.3	0	2
JACQUES	JX179	109 (6840)	16.4	0	3
JACQUES	JX180	78 (4900)	17.0	1	3
JACQUES	JX187A	96 (6030)	16.6	1	5
KALTENBERG	KX61	77 (4830)	13.0	1	2
KALTENBERG	KX68	78 (4900)	13.5	1	3
KALTENBERG	KX73	87 (5460)	13.9	1	1
KALTENBERG	KX76	82 (5150)	16.7	0	3
KELTGEN	KS106	84 (5270)	13.2	1	3
KELTGEN	KS109	72 (4520)	14.5	0	1
KELTGEN	KS115	60 (3770)	16.0	1	1

CONTINUED

TABLE 4a. CONCLUDED.

BRAND	HYBRID	GRAIN YIELD BU/A (KG/HA)	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
LYNKS	LX 4120	69 (4330)	12.9	0	2
LYNKS	LX 4220A	76 (4770)	13.0	0	7
LYNKS	LX 4315	81 (5090)	14.9	1	0
LYNKS	LX 4330	80 (5020)	15.2	0	1
MCCURDY	6555	85 (5340)	13.7	0	1
MCCURDY	7440	98 (6150)	16.9	0	2
MCCURDY	77	65 (4080)	18.0	0	1
MCCURDY	84	78 (4900)	16.2	0	1
MIGRO SEEDS	HP 23	66 (4140)	13.5	0	7
MIGRO SEEDS	HP 27	94 (5900)	13.8	1	3
MIGRO SEEDS	HP 470	86 (5400)	14.5	0	0
MIGRO SEEDS	M2022X	75 (4710)	14.0	1	1
NC+	4710	80 (5020)	14.4	0	0
NC+	59	77 (4830)	16.2	0	0
NORTHRUP KING	PX 39	63 (3960)	12.6	1	3
NORTHRUP KING	PX 72	92 (5780)	15.8	1	1
NORTHRUP KING	PX 74	74 (4650)	15.7	0	2
O'S GOLD	EXP. 6880	80 (5020)	13.1	1	1
O'S GOLD	SX1170	83 (5210)	13.4	0	2
O'S GOLD	SX5500A	82 (5150)	16.5	1	1
P-A-G	SX 277	60 (3770)	14.1	1	2
P-A-G	SX 333	87 (5460)	15.3	0	2
P-A-G	SX 351	82 (5150)	16.6	0	0
P-A-G	SX 397	84 (5270)	14.4	2	0
PAYCO	SX 830	82 (5150)	12.8	0	4
PAYCO	SX 844	85 (5340)	13.0	0	8
PAYCO	SX 960	93 (5840)	13.9	1	1
PAYCO	SX 990	72 (4520)	15.6	1	5
POI	FF	71 (4460)	17.3	0	0
POI	3F	97 (6090)	13.4	1	0
POI	4-14	70 (4390)	15.8	0	2
PRAIRIE VALLEY	389	93 (5840)	13.1	0	0
PRAIRIE VALLEY	595A	63 (3960)	13.8	0	3
PRAIRIE VALLEY	600	64 (4020)	13.8	0	0
PRAIRIE VALLEY	76S	77 (4830)	16.1	0	2
SOKOTA	TS75	87 (5460)	14.3	1	1
SOKOTA	660	94 (5900)	13.3	0	2
SUPER CROST	79047	78 (4900)	14.0	0	1
SUPER CROST	80052	90 (5650)	16.4	1	1
TALL CORN	SX110	61 (3830)	13.6	0	9
TALL CORN	SX115	79 (4960)	16.1	1	0
TALL CORN	S8113	81 (5090)	14.0	1	1
TODD	MX73A	81 (5090)	15.5	0	1
TODD	M53	49 (3080)	15.5	2	1
TODD	M5505	81 (5090)	14.4	1	2
TROJAN	TXS115A	77 (4830)	16.3	0	3
TROJAN	T1069	80 (5020)	13.3	0	3
TROJAN	T1110	79 (4960)	15.5	1	1
WEATHER MASTER	EPX 5P	64 (4020)	13.9	1	1
WEATHER MASTER	EPX 677	62 (3890)	13.3	0	2
WEATHER MASTER	EPX 777	50 (3140)	13.5	1	11
WILSON	1600	77 (4830)	14.6	0	1
WILSON	1800	86 (5400)	16.9	0	2
WILSON	2317	77 (4830)	13.8	1	2
WINTERSET HYBRI	CB62	68 (4270)	13.4	0	7
WINTERSET HYBRI	CB68	83 (5210)	16.0	0	2
AVERAGE ALL ENTRIES		77.6 (4872)	14.7	0.5	1.9
DIF. REQ. FOR SIG.	5%	18.4 (1155)	0.9	N.S.	3.2
	25%	10.8 (578)	0.5	N.S.	1.9

No till. Heat stress during pollination. High harvest losses from drop

TABLE 4b. ZONE III NONIRRIGATED. NORTHEAST. 1979-1980.

BRAND	HYBRID	GRAIN YIELD BU/A (KG/HA)	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
		2 YEAR AVERAGE			
-----	NEBR. 611	139 (8730)	19.2	1	0
ACCO	UC8201	128 (8040)	18.7	0	0
ASGROW	RX544	112 (7030)	15.9	0	1
ASGROW	RX777	138 (8660)	18.5	0	1
CARGILL	924	135 (8480)	18.6	4	0
CARGILL	967	134 (8410)	20.2	2	0
CENEX	2157	125 (7850)	16.6	2	1
CURRY	SC-1455	117 (7350)	16.2	1	1
CURRY	SC-150	125 (7850)	19.4	4	1
DEKALB	XL-54	127 (7970)	18.0	2	0
FONTANELLE	420	113 (7090)	15.9	0	3
FONTANELLE	450	112 (7030)	18.5	2	0
FONTANELLE	580	123 (7720)	19.0	3	1
FUNK'S	G-4450	111 (6970)	18.5	1	1
GUTWEIN	2910	132 (8290)	23.2	2	1
GUTWEIN	62	125 (7850)	19.2	1	2
HOEGEMEYER	SX2644	135 (8480)	18.8	0	1
HORIZON	861	145 (9100)	19.4	2	1
HORIZON	870	125 (7850)	19.7	1	1
JACQUES	JX180	124 (7780)	19.7	1	2
KALTENBERG	KX68	113 (7090)	15.9	2	1
KALTENBERG	KX76	136 (8540)	19.2	1	1
KELTGEN	KS106	117 (7350)	15.8	0	2
KELTGEN	KS109	120 (7530)	17.6	0	0
KELTGEN	KS115	124 (7780)	19.4	0	0
LYNKS	LX 4120	103 (6470)	15.9	1	1
LYNKS	LX 4220A	114 (7160)	16.0	0	3
LYNKS	LX 4330	131 (8220)	18.4	0	0
MCCURDY	77	119 (7470)	20.6	1	0
MIGRO SEEDS	HP 23	103 (6470)	15.9	2	4
NC+	59	127 (7970)	19.5	1	0
O'S GOLD	SX5500A	136 (8540)	19.3	1	0
P-A-G	SX 277	116 (7280)	17.2	1	1
P-A-G	SX 333	136 (8540)	18.9	0	1
P-A-G	SX 397	121 (7600)	16.7	2	0
PAYCO	SX 844	118 (7410)	15.6	1	4
PRAIRIE VALLEY	389	128 (8040)	16.4	1	0
PRAIRIE VALLEY	76S	129 (8100)	19.2	1	1
TALL CORN	SX110	103 (6470)	16.1	0	4
TODD	MX73A	127 (7970)	19.2	0	0
TODD	M53	104 (6530)	18.2	2	0
TROJAN	TXS115A	124 (7780)	19.1	1	2
WEATHER MASTER	EPX 5P	107 (6720)	16.6	2	0
WEATHER MASTER	EPX 677	110 (6910)	15.6	1	1
WEATHER MASTER	EPX 777	108 (6780)	16.3	1	5
WILSON	1800	126 (7910)	19.9	1	1
WILSON	2317	120 (7530)	17.0	2	1
WINTERSET HYBRID	CB62	113 (7090)	15.8	0	4
WINTERSET HYBRID	CB68	132 (8290)	18.8	1	1
AVERAGE ALL ENTRIES		122.3 (7678)	18.0	1.1	1.1
DIF. REQ. FOR SIG.	5%	N.S.	1.3	N.S.	N.S.
	25%	14.3 (898)	0.7	N.S.	N.S.

TABLE 4c. ZONE III NONIRRIGATED. NORTHEAST. 1975-1980.

BRAND	HYBRID	GRAIN YIELD BU/A (KG/HA)	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
		3 YEAR AVERAGE			
-----	NEBR. 611	130 (8160)	18.1	2	0
CARGILL	924	127 (7970)	17.3	5	0
CENEX	2157	122 (7660)	15.6	3	2
DEKALB	XL-54	121 (7600)	17.2	3	0
FONTANELLE	450	111 (6970)	17.6	3	0
FONTANELLE	580	124 (7780)	18.3	2	1
JACQUES	JX180	125 (7850)	18.6	1	1
KALTENBERG	KX68	116 (7280)	15.2	2	1
KALTENBERG	KX76	129 (8100)	18.3	1	2
KELTGEN	KS115	126 (7910)	18.4	0	0
LYNKS	LX 4120	102 (6400)	15.1	1	1
LYNKS	LX 4220A	111 (6970)	15.3	0	2
NC+	59	129 (8100)	18.6	1	1
O'S GOLD	SX5500A	134 (8410)	18.2	1	1
P-A-G	SX 333	132 (8290)	18.1	0	1
P-A-G	SX 397	119 (7470)	15.6	10	0
PRAIRIE VALLEY	76S	132 (8290)	18.2	1	1
TROJAN	TXS115A	121 (7600)	18.2	2	1
WEATHER MASTER	EPX 777	108 (6780)	15.4	0	4
WILSON	2317	116 (7280)	16.0	2	1
AVERAGE ALL ENTRIES		121.7 (7640)	17.2	2.0	1.0
DIF. REQ. FOR SIG.	5%	N.S.	0.7	N.S.	N.S.
	25%	10.9 (684)	0.4	3.0	N.S.
		4 YEAR AVERAGE			
-----	NEBR. 611	121 (7600)	19.1	3	0
FONTANELLE	450	107 (6720)	18.2	3	1
FONTANELLE	580	112 (7030)	19.3	2	2
KALTENBERG	KX68	111 (6970)	15.7	2	2
KALTENBERG	KX76	120 (7530)	19.5	1	2
P-A-G	SX 397	115 (7220)	15.8	13	1
PRAIRIE VALLEY	76S	123 (7720)	19.4	1	2
TROJAN	TXS115A	111 (6970)	19.2	2	1
AVERAGE ALL ENTRIES		115.1 (7226)	18.3	3.4	1.4
DIF. REQ. FOR SIG.	5%	N.S.	1.3	6.7	N.S.
	25%	N.S.	0.7	3.8	N.S.
		5 YEAR AVERAGE			
-----	NEBR. 611	117 (7350)	17.9	3	1
P-A-G	SX 397	112 (7030)	14.4	12	2
PRAIRIE VALLEY	76S	118 (7410)	18.2	1	3
AVERAGE ALL ENTRIES		115.4 (7245)	16.8	5.3	2.0
DIF. REQ. FOR SIG.	5%	N.S.	1.4	9.1	1.0
	25%	N.S.	0.8	4.9	0.6

Location of tests (Counties): 1975 Dixon, Pierce; 1976 failed (drouth); 1977 Dixon, Knox; 1978-1980 Dixon.

TABLE 5a. ZONE III IRRIGATED. MADISON COUNTY. 1980.

BRAND	HYBRID	GRAIN YIELD BU/A (KG/HA)	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
-----	NEBR. 611	165 (10360)	14.9	5	2
ACCO	UC5990	163 (10230)	14.8	2	3
ACCO	UC8201	180 (11300)	15.3	3	5
ACCO	X94790	155 (9730)	13.6	1	5
ASGROW	RX544	145 (9100)	13.3	3	3
ASGROW	RX777	187 (11740)	16.2	5	1
CARGILL	921	177 (11110)	13.6	3	1
CARGILL	922	167 (10480)	14.0	3	1
CARGILL	924	178 (11170)	14.3	8	1
CARGILL	967	188 (11800)	15.7	3	2
CENEX	2106	138 (8660)	12.5	6	3
CENEX	2108	156 (9790)	12.3	6	1
CENEX	2114	178 (11170)	14.4	2	1
CENEX	2157	148 (9290)	12.7	4	2
COOP	2165	152 (9540)	12.8	6	2
COOP	2260	141 (8850)	13.3	5	5
COOP	2300A	158 (9920)	15.3	2	3
CURRY	SC-1424	162 (10170)	13.1	3	1
CURRY	SC-1430	146 (9170)	12.8	3	1
CURRY	SC-1455	183 (11490)	14.1	4	0
CURRY	SC-150	176 (11050)	15.7	3	3
DEKALB	XL-54	154 (9670)	14.8	4	2
DEKALB	XL-57	173 (10860)	14.9	3	1
DEKALB	XL-67	178 (11170)	15.7	4	1
DEKALB	XL-72AA	185 (11610)	15.3	3	2
EK PREMIUM	EK 7700	140 (8790)	12.5	3	6
EK PREMIUM	EK 7720	128 (8040)	13.5	3	1
EK PREMIUM	EK 7770	171 (10740)	15.2	1	0
EK PREMIUM	EK 7790	156 (9790)	13.8	2	4
FEDERAL	FT44	157 (9860)	14.6	3	2
FONTANELLE	420	146 (9170)	12.6	3	6
FONTANELLE	450	170 (10670)	14.8	2	2
FONTANELLE	520	161 (10110)	14.8	4	3
FONTANELLE	580	167 (10480)	15.2	1	3
FUNK'S	G-4435	146 (9170)	15.2	3	3
FUNK'S	G-4450	142 (8910)	14.8	1	2
GOLD TAG	1090	131 (8220)	12.7	3	1
GOLD TAG	2006	155 (9730)	12.9	4	2
GROWERS	GSA 2030	140 (8790)	13.1	5	5
GROWERS	NS 212	173 (10860)	16.2	2	2
GROWERS	249 EXP.	112 (7030)	12.1	2	0
GUTWEIN	2910	181 (11360)	17.5	2	3
GUTWEIN	62	160 (10040)	15.1	2	6
HOEGEMEYER	SX2590	136 (8540)	13.2	2	3
HOEGEMEYER	SX2644	168 (10550)	15.2	2	5
HORIZON	109	129 (8100)	13.8	3	2
HORIZON	861	191 (11990)	15.3	6	1
HORIZON	870	164 (10300)	15.5	2	5
JACQUES	JX147	140 (8790)	12.1	6	4
JACQUES	JX179	183 (11490)	15.7	4	3
JACQUES	JX180	166 (10420)	15.7	1	4
JACQUES	JX187A	172 (10800)	16.9	8	5
KALTENBERG	KX61	158 (9920)	12.6	5	2
KALTENBERG	KX68	155 (9730)	12.9	5	4
KALTENBERG	KX73	171 (10740)	13.6	0	2
KALTENBERG	KX76	176 (11050)	15.7	3	5
KELTGEN	KS106	156 (9790)	13.0	3	3
KELTGEN	KS109	156 (9790)	14.1	3	4
KELTGEN	KS115	157 (9860)	15.7	1	5

CONTINUED

TABLE 5a. CONCLUDED.

BRAND	HYBRID	GRAIN YIELD BU/A (KG/HA)	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
LYNKS	LX 4120	137 (8600)	12.5	3	4
LYNKS	LX 4220A	137 (8600)	12.7	5	6
LYNKS	LX 4315	177 (11110)	14.9	2	0
LYNKS	LX 4330	174 (10920)	15.9	5	3
MCCURDY	6555	159 (9980)	13.7	2	2
MCCURDY	7440	169 (10610)	16.1	10	4
MCCURDY	77	183 (11490)	14.6	1	0
MCCURDY	84	175 (10990)	15.3	4	6
MIGRO SEEDS	HP 23	137 (8600)	13.7	5	5
MIGRO SEEDS	HP 27	156 (9790)	13.6	3	2
MIGRO SEEDS	HP 470	182 (11430)	13.8	2	1
MIGRO SEEDS	M2022X	150 (9420)	12.5	5	4
NC+	4710	181 (11360)	13.8	4	1
NC+	59	173 (10860)	15.9	2	5
NORTHRUP KING	PX 39	137 (8600)	12.1	2	5
NORTHRUP KING	PX 72	180 (11300)	15.8	2	4
NORTHRUP KING	PX 74	174 (10920)	15.6	4	6
O'S GOLD	EXP. 6880	167 (10480)	13.1	5	1
O'S GOLD	SX1170	149 (9350)	14.0	3	3
O'S GOLD	SX5500A	168 (10550)	15.6	4	3
P-A-G	SX 277	142 (8910)	13.2	5	3
P-A-G	SX 333	171 (10740)	15.4	3	3
P-A-G	SX 351	191 (11990)	15.8	1	3
P-A-G	SX 397	173 (10860)	13.8	7	3
PAYCO	SX 830	135 (8480)	12.5	5	7
PAYCO	SX 844	140 (8790)	13.2	3	5
PAYCO	SX 960	175 (10990)	14.4	3	3
PAYCO	SX 990	163 (10230)	15.5	2	4
POI	FF	167 (10480)	15.2	6	1
POI	3F	165 (10360)	13.5	4	1
POI	4-14	168 (10550)	15.5	3	2
PRAIRIE VALLEY	389	157 (9860)	13.2	4	2
PRAIRIE VALLEY	595A	155 (9730)	13.0	2	3
PRAIRIE VALLEY	600	158 (9920)	14.3	3	2
PRAIRIE VALLEY	76S	172 (10800)	15.2	3	5
SOKOTA	TS75	162 (10170)	14.2	2	1
SOKOTA	660	162 (10170)	13.1	3	1
SUPER CROST	79047	178 (11170)	14.3	3	2
SUPER CROST	80052	183 (11490)	15.6	5	2
TALL CORN	SX110	152 (9540)	12.7	4	7
TALL CORN	SX115	173 (10860)	16.1	3	5
TALL CORN	S8113	176 (11050)	14.7	2	1
TODD	MX73A	174 (10920)	15.2	5	2
TODD	M53	142 (8910)	13.8	1	1
TODD	M5505	182 (11430)	14.5	2	1
TROJAN	TXS115A	182 (11430)	15.4	1	2
TROJAN	T1069	150 (9420)	13.2	2	6
TROJAN	T1110	185 (11610)	15.2	3	2
WEATHER MASTER	EPX 5P	137 (8600)	13.0	3	2
WEATHER MASTER	EPX 677	112 (7030)	13.2	1	2
WEATHER MASTER	EPX 777	138 (8660)	13.3	8	2
WILSON	1600	179 (11240)	14.2	1	1
WILSON	1800	172 (10800)	15.5	4	4
WILSON	2317	146 (9170)	13.0	4	5
WINTERSET HYBRI	CB62	151 (9480)	12.9	3	4
WINTERSET HYBRI	CB68	158 (9920)	15.3	4	7
AVERAGE ALL ENTRIES		161.2 (10120)	14.3	3.3	2.9
DIF. REQ. FOR SIG.	5%	18.6 (1168)	0.9	3.4	3.3
	25%	10.9 (684)	0.5	2.0	1.9

TABLE 5b. ZONE III IRRIGATED. NORTHEAST. 1979-1980.

BRAND	HYBRID	GRAIN YIELD BU/A (KG/HA)	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
		2 YEAR AVERAGE			
-----	NEBR. 611	171 (10740)	18.1	3	1
ACCO	UC8201	188 (11800)	18.4	2	2
ASGROW	RX544	156 (9790)	16.3	3	2
ASGROW	RX777	194 (12180)	18.5	3	1
CARGILL	924	183 (11490)	16.6	5	1
CARGILL	967	191 (11990)	17.6	3	1
CENEX	2157	151 (9480)	14.5	6	1
CURRY	SC-1455	169 (10610)	15.1	3	0
CURRY	SC-150	190 (11930)	18.5	2	1
DEKALB	XL-54	164 (10300)	17.6	3	1
FONTANELLE	420	164 (10300)	14.8	2	3
FONTANELLE	450	175 (10990)	17.0	1	1
FONTANELLE	580	188 (11800)	18.3	2	1
FUNK'S	G-4450	161 (10110)	16.6	2	1
GUTWEIN	2910	184 (11550)	20.5	2	2
GUTWEIN	62	182 (11430)	18.6	2	3
HOEGEMEYER	SX2644	180 (11300)	17.7	3	3
HORIZON	861	196 (12300)	18.5	5	1
HORIZON	870	184 (11550)	18.4	2	2
JACQUES	JX180	183 (11490)	18.5	2	2
KALTENBERG	KX68	165 (10360)	15.2	4	2
KALTENBERG	KX76	188 (11800)	18.8	2	3
KELTGEN	KS106	156 (9790)	15.3	2	2
KELTGEN	KS109	168 (10550)	16.7	2	2
KELTGEN	KS115	186 (11680)	19.4	1	3
LYNKS	LX 4120	144 (9040)	14.6	5	2
LYNKS	LX 4220A	152 (9540)	14.9	4	3
LYNKS	LX 4330	190 (11930)	18.9	4	2
MCCURDY	77	189 (11870)	16.8	2	0
MIGRO SEEDS	HP 23	152 (9540)	15.6	3	3
NC+	59	180 (11300)	18.6	2	2
O'S GOLD	SX5500A	188 (11800)	18.6	2	1
P-A-G	SX 277	158 (9920)	14.8	3	1
P-A-G	SX 333	189 (11870)	18.1	3	2
P-A-G	SX 397	171 (10740)	16.1	8	2
PAYCO	SX 844	147 (9230)	15.5	2	2
PRAIRIE VALLEY	389	159 (9980)	15.0	2	1
PRAIRIE VALLEY	76S	188 (11800)	18.1	3	3
TALL CORN	SX110	160 (10040)	15.1	3	3
TODD	MX73A	181 (11360)	18.4	3	2
TODD	M53	160 (10040)	15.8	1	1
TROJAN	TXS115A	190 (11930)	19.4	1	1
WEATHER MASTER	EPX 5P	146 (9170)	14.9	2	1
WEATHER MASTER	EPX 677	126 (7910)	13.9	1	1
WEATHER MASTER	EPX 777	156 (9790)	15.5	5	1
WILSON	1800	187 (11740)	18.7	2	2
WILSON	2317	162 (10170)	15.3	4	3
WINTERSET HYBRID	CB62	158 (9920)	15.1	2	2
WINTERSET HYBRID	CB68	187 (11740)	18.2	2	4
AVERAGE ALL ENTRIES		172.1 (10804)	17.0	2.8	1.8
DIF. REQ. FOR SIG.	5%	22.2 (1394)	1.8	N.S.	N.S.
	25%	12.9 (810)	1.1	1.8	N.S.

TABLE 5c. ZONE III IRRIGATED. NORTHEAST. 1976-1980.

BRAND	HYBRID	GRAIN YIELD BU/A (KG/HA)	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
		3 YEAR AVERAGE			
-----	NEBR. 611	159 (9980)	18.1	3	1
CARGILL	924	168 (10550)	16.8	5	0
CENEX	2157	148 (9290)	14.4	5	1
DEKALB	XL-54	156 (9790)	18.0	3	1
FONTANELLE	450	159 (9980)	16.9	2	1
FONTANELLE	580	177 (11110)	18.5	2	1
JACQUES	JX180	171 (10740)	18.6	2	2
KALTENBERG	KX68	153 (9610)	15.1	3	1
KALTENBERG	KX76	179 (11240)	18.6	2	2
KELTGEN	KS115	176 (11050)	19.3	1	2
LYNKS	LX 4120	141 (8850)	14.8	4	1
LYNKS	LX 4220A	143 (8980)	15.1	3	2
NC+	59	170 (10670)	18.6	2	2
O'S GOLD	SX5500A	177 (11110)	18.6	2	1
P-A-G	SX 333	177 (11110)	18.1	2	1
P-A-G	SX 397	159 (9980)	15.7	7	1
PRAIRIE VALLEY	76S	176 (11050)	18.5	3	2
TROJAN	TXS115A	177 (11110)	19.2	1	1
WEATHER MASTER	EPX 777	146 (9170)	15.5	4	1
WILSON	2317	152 (9540)	15.2	3	2
AVERAGE ALL ENTRIES		163.2 (6479)	17.2	3.0	1.3
DIF. REQ. FOR SIG.	5%	15.0 (942)	1.1	2.5	N.S.
	25%	8.6 (540)	0.6	1.4	N.S.
		4 YEAR AVERAGE			
-----	NEBR. 611	162 (10170)	19.1	4	1
FONTANELLE	450	159 (9980)	17.3	2	1
FONTANELLE	580	173 (10860)	19.3	2	2
KALTENBERG	KX68	156 (9790)	15.6	3	4
KALTENBERG	KX76	178 (11170)	19.1	2	3
P-A-G	SX 397	161 (10110)	16.0	5	2
PRAIRIE VALLEY	76S	176 (11050)	18.8	3	2
TROJAN	TXS115A	177 (11110)	19.5	2	2
AVERAGE ALL ENTRIES		167.8 (10534)	18.1	2.9	2.1
DIF. REQ. FOR SIG.	5%	11.5 (722)	1.2	N.S.	N.S.
	25%	8.5 (534)	0.7	1.5	N.S.
		5 YEAR AVERAGE			
-----	NEBR. 611	157 (9860)	20.7	5	1
FONTANELLE	580	166 (10420)	20.7	3	2
KALTENBERG	KX68	149 (9350)	16.3	3	3
KALTENBERG	KX76	171 (10740)	20.8	2	3
P-A-G	SX 397	156 (9790)	16.5	5	3
PRAIRIE VALLEY	76S	169 (10610)	20.4	4	2
AVERAGE ALL ENTRIES		161.1 (10114)	19.2	3.7	2.3
DIF. REQ. FOR SIG.	5%	10.5 (659)	1.7	N.S.	N.S.
	25%	5.9 (370)	1.0	1.5	N.S.

Location of tests (Counties): 1976 Wayne; 1977 Cedar; 1978 Antelope; 1979-1980 Madison.

TABLE 6a. SOUTHWEST ECOFALLOW. SUMMARY. 1980.

		YIELD			1980 AVERAGE			
BRAND	HYBRID	AVERAGE BU/A (KG/HA)	LINCOLN BU/A	GOSPER BU/A	MOISTURE	BROKEN PLANTS	DROPPED EARS	EARS/100 PLANTS
-----	NEBR. 611	64 (4020)	35	92	15.8	3	5	85
-----	NEBR. 714	51 (3200)	16	85	17.2	0	3	70
ASGROW	RX511	60 (3770)	33	86	8.7	2	14	87
CENEX	2106	57 (3580)	32	82	7.6	1	7	90
CENEX	2108	59 (3700)	35	82	9.3	0	4	85
CENEX	2114	54 (3390)	24	84	11.0	1	4	75
CENEX	2157	65 (4080)	46	84	10.7	0	12	93
EK PREMIUM	EK 7710	55 (3450)	23	86	9.0	1	11	74
EK PREMIUM	EK 7720	57 (3580)	31	83	11.2	1	5	83
EK PREMIUM	EK 7760	56 (3520)	32	79	8.9	1	5	83
EK PREMIUM	EK 7770	64 (4020)	43	84	12.2	0	3	91
FONTANELLE	580	53 (3330)	25	80	15.5	0	6	80
FUNK'S	G-4323	56 (3520)	25	86	9.7	3	15	74
FUNK'S	G-4450	59 (3700)	31	87	11.7	2	10	83
GROWERS	GSA 2030	59 (3700)	34	84	10.3	2	16	75
GROWERS	NS 212	56 (3520)	26	85	14.7	0	6	82
GROWERS	246 EXP.	48 (3010)	8	87	14.8	2	4	76
HORIZON	861	56 (3520)	27	85	17.0	2	7	81
JACOBLES	JX147	57 (3580)	32	81	8.8	3	15	82
JACOBLES	JX177	50 (3140)	18	82	11.2	4	12	74
JACOBLES	JX180	56 (3520)	22	89	13.8	2	9	82
MIGRO SEEDS	HP 27	54 (3390)	29	79	11.1	1	10	73
MIGRO SEEDS	HP 360	60 (3770)	32	87	8.8	1	4	83
MIGRO SEEDS	HP 470	56 (3520)	29	83	10.7	0	3	83
MIGRO SEEDS	M2022X	56 (3520)	29	82	12.8	1	7	81
NC+	4222	58 (3640)	30	86	9.9	1	9	88
PRAIRIE VALLEY	379	60 (3770)	35	85	16.1	1	6	87
PRAIRIE VALLEY	389	64 (4020)	40	87	10.9	3	8	88
PRAIRIE VALLEY	769	58 (3640)	29	87	14.9	1	4	75
PRAIRIE VALLEY	795	54 (3390)	21	86	16.9	1	4	70
TODD	M53	51 (3200)	28	74	11.1	1	7	82
TROJAN	TX5115A	51 (3200)	17	85	15.0	2	4	70
TROJAN	T1058	64 (4020)	37	90	10.0	1	5	89
TROJAN	T1110	50 (3140)	19	81	12.4	2	5	72
WILSON	1016	53 (3330)	27	79	9.3	1	4	82
WILSON	2317	52 (3260)	29	75	12.1	1	14	78
AVERAGE ALL ENTRIES		56.5 (3547)	28.6	83.9	12.0	1.3	7.4	80.7
DIF. REQ. FOR SIG.	5%	N.S.	13.6	8.8	3.3	1.6	7.9	N.S.
	25%	N.S.	8.0	5.1	1.9	0.9	4.6	9.4

TABLE 6b. SOUTHWEST ECOFALLOW. 1977-1980.

BRAND	HYBRID	GRAIN YIELD BU/A (KG/HA)	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
		2 YEAR AVERAGE			
-----	NEBR. 611	91 (5710)	18.2	3	6
-----	NEBR. 714	81 (5090)	20.0	2	3
CENEX	2157	93 (5840)	10.7	3	12
FONTANELLE	580	77 (4830)	19.6	0	5
FUNK'S	G-4323	80 (5020)	12.1	1	9
FUNK'S	G-4450	82 (5150)	14.8	1	6
HORIZON	861	87 (5460)	19.1	2	5
MIGRO SEEDS	HP 27	84 (5270)	13.8	2	7
NC+	4222	85 (5340)	12.5	1	6
TROJAN	TXS115A	80 (5020)	20.0	2	4
TROJAN	T1058	77 (4830)	12.8	1	6
WILSON	1016	81 (5090)	12.1	1	4
AVERAGE ALL ENTRIES		83.1 (5217)	15.5	1.6	6.1
DIF. REQ. FOR SIG. 5%		N.S.	3.7	N.S.	N.S.
25%		N.S.	1.9	N.S.	N.S.
		3 YEAR AVERAGE			
-----	NEBR. 611	77 (4830)	18.6	2	4
CENEX	2157	80 (5020)	10.7	2	9
FONTANELLE	580	69 (4330)	19.6	1	4
HORIZON	861	77 (4830)	19.1	2	3
WILSON	1016	75 (4710)	11.6	2	3
AVERAGE ALL ENTRIES		75.6 (4746)	15.9	1.8	4.6
DIF. REQ. FOR SIG. 5%		N.S.	3.0	N.S.	3.0
25%		7.0 (439)	1.6	N.S.	1.6
		4 YEAR AVERAGE			
-----	NEBR. 611	80 (5020)	21.1	2	3
FONTANELLE	580	74 (4650)	21.6	1	3
WILSON	1016	77 (4830)	13.7	2	2
AVERAGE ALL ENTRIES		77.1 (4840)	18.8	1.7	2.7
DIF. REQ. FOR SIG. 5%		N.S.	2.0	N.S.	N.S.
25%		N.S.	1.4	N.S.	N.S.

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

TABLE 7a. ZONE III IRRIGATED. CENTRAL. SUMMARY. 1980.

		YIELD			1980 AVERAGE		
BRAND	HYBRID	AVERAGE BU/A (KG/HA)	MCPHERSON BU/A	KEITH BU/A	MOISTURE	BROKEN PLANTS
-----	MINHYBRID 4203	122 (7660)	137	106	14.3	2
-----	NEBR. 611	168 (10550)	163	173	17.1	1
ACCC	LC2951	136 (8540)	131	141	12.9	1
ACCC	LC5990	158 (9920)	146	169	16.0	0
ACCC	LC8201	199 (12490)	187	211	16.9	0
ASGROW	RX544	119 (7470)	134	104	13.2	0
ASGROW	RX777	167 (10480)	133	200	16.5	1
BC-JAC	14	125 (7850)	138	111	12.4	1
BC-JAC	214	159 (9980)	151	167	13.6	1
BC-JAC	432	168 (10550)	157	178	13.5	0
BC-JAC	452	158 (9920)	165	151	14.5	0
CARGILL	934	157 (9860)	160	154	16.3	0
CARGILL	949	181 (11360)	167	195	17.2	1
CARGILL	967	173 (10860)	181	164	16.7	1
CENEX	2108	131 (8220)	144	118	12.7	1
CENEX	2114	162 (10170)	156	167	15.3	0
CENEX	2371	149 (9350)	145	153	17.0	1
CIRCLE SEED	C-S 206	136 (8540)	126	146	12.7	1
CIRCLE SEED	C-S 208	142 (8910)	147	136	13.6	0
CIRCLE SEED	C-S 210	166 (10420)	171	161	14.3	1
CIRCLE SEED	C-S 212	188 (11800)	169	207	15.5	1
CCCP	2165	137 (8600)	144	129	12.3	1
CURRY	SC-1424	143 (8980)	145	140	13.4	1
CURRY	SC-1455	154 (9670)	163	144	15.3	1
CURRY	SC-1462	150 (9420)	168	132	14.1	0
CURRY	SC-150	188 (11800)	182	194	16.6	0
DEKALB	XL-25A	148 (9290)	135	160	13.5	0
DEKALB	XL-32A	157 (9860)	150	163	13.8	1
DEKALB	XL-55A	157 (9860)	153	161	15.1	3
DEKALB	XL-57	133 (8350)	146	120	15.6	1
EK PREMIUM	EK 770	150 (9420)	156	144	14.0	1
EK PREMIUM	EK 771	145 (9100)	140	150	12.4	0
EK PREMIUM	EK 772	134 (8410)	147	120	13.6	0
EK PREMIUM	EK 777	156 (9790)	135	176	14.3	0
FONTANELLE	40	150 (9420)	157	142	14.1	0
FONTANELLE	42	150 (9420)	169	130	13.5	0
FONTANELLE	45	142 (8910)	138	146	15.9	0
FONTANELLE	58	165 (10360)	159	171	16.7	0
FUNK'S	G-4435	176 (11050)	165	186	16.4	0
FUNK'S	G-4450	160 (10040)	172	147	15.5	1
GROWERS	GSA 203	160 (10040)	153	167	13.6	0
GROWERS	NS 212	162 (10170)	153	170	17.2	0
GROWERS	246 EXP.	160 (10040)	131	189	16.3	1
GROWERS	249 EXP.	131 (8220)	123	138	12.3	0
GUTWEIN	221	155 (9730)	147	162	13.2	2
GUTWEIN	261	150 (9420)	144	155	15.3	0
HORIZON	801	191 (11990)	183	199	19.9	0
HORIZON	802	157 (9860)	162	152	16.6	0
HORIZON	870	163 (10230)	171	155	16.6	0
HORIZON	890	142 (8910)	123	160	26.0	0
JACOBLES	JX147	131 (8220)	139	123	12.2	1
JACOBLES	JX177	154 (9670)	147	161	13.3	0
JACOBLES	JX179	169 (10610)	193	145	16.6	0
JACOBLES	JX180	191 (11990)	166	215	17.3	1
KELTGEN	KS100	132 (8290)	142	122	12.9	1
KELTGEN	KS106	142 (8910)	141	142	13.0	0
KELTGEN	KS109	155 (9730)	146	164	15.1	0
KELTGEN	KS115	166 (10420)	153	179	16.8	0
LYNKS	LX 4220A	128 (8040)	130	125	12.5	0
LYNKS	LX 4315	172 (10800)	171	173	15.8	0
LYNKS	LX 4330	164 (10300)	161	166	18.0	0

CONTINUED

TABLE 7a. CONCLUDED.

BRAND	HYBRID	YIELD AVERAGE BU/A (KG/HA)	YIELD MCPHERSON BU/A	YIELD KEITH BU/A	1980 AVERAGE MOISTURE	1980 AVERAGE BROKEN PLANTS
MCCLROY	37	128 (8040)	126	130	12.1	2
MCCLROY	4664	123 (7720)	134	111	12.1	0
MCCLROY	5225	139 (8730)	141	136	12.8	1
MCCLROY	6475	135 (8480)	136	133	13.5	2
MIGRO SEEDS	HP 20	123 (7720)	132	114	12.3	0
MIGRO SEEDS	HP 23	144 (9040)	141	146	13.0	0
MIGRO SEEDS	HP 27	147 (9230)	140	153	13.8	0
MIGRO SEEDS	M2022X	142 (8910)	144	139	13.8	1
NC+	3990	145 (9100)	150	140	13.8	0
NORTHRUP KING	PX 39	141 (8850)	140	141	12.6	0
NORTHRUP KING	PX 69A	163 (10230)	162	163	14.5	1
NORTHRUP KING	PX 74	173 (10860)	173	172	16.1	0
O'S GOLD	SX1170	154 (9670)	152	156	13.7	0
O'S GOLD	SX3344	166 (10420)	162	169	17.5	0
P-A-G	SX 333	169 (10610)	140	197	15.9	1
P-A-G	SX 351	170 (10670)	174	165	17.2	0
P-A-G	SX 397	138 (8660)	152	124	13.3	1
PAYCO	SX 830	124 (7780)	145	102	12.0	0
PAYCO	SX 844	144 (9040)	147	141	13.0	0
PAYCO	SX 960	158 (9920)	164	152	15.6	1
PAYCO	SX 990	150 (9420)	130	169	17.8	1
PCI	FF	156 (9790)	142	170	16.4	0
PCI	3F	137 (8600)	128	146	13.0	1
PCI	4-14	152 (9540)	135	168	16.8	0
PRAIRIE VALLEY	260	154 (9670)	140	167	14.4	0
PRAIRIE VALLEY	262	160 (10040)	157	163	13.0	0
PRAIRIE VALLEY	595A	176 (11050)	161	191	14.5	0
PRAIRIE VALLEY	600	139 (8730)	142	136	15.6	0
TODD	M5505	178 (11170)	182	174	14.7	0
TROJAN	TX5115A	172 (10800)	135	209	17.6	1
TROJAN	T1069	153 (9610)	159	146	14.2	0
TROJAN	T1110	169 (10610)	165	173	16.5	0
WEATHER MASTER	EPX 788A	157 (9860)	159	155	16.3	1
WEATHER MASTER	EPX 888	154 (9670)	160	148	16.5	0
WILSON	1300	142 (8910)	142	142	12.5	1
WILSON	1600	195 (12240)	174	216	16.2	1
WILSON	2317	145 (9100)	155	135	14.1	1
WINTERSET HYBRID	CB62	128 (8040)	117	139	13.0	0
WINTERSET HYBRID	CB68	212 (13310)	182	241	17.5	1
AVERAGE ALL ENTRIES		153.9 (9662)	151.3	156.0	14.9	0.5
DIF. REQ. FOR SIG.	5%	32.2 (2022)	30.4	47.4	1.7	N.S.
	25%	18.8 (1180)	17.9	27.9	1.0	0.7

TABLE 7b. ZONE III IRRIGATED. 1975-1980. NO 1979 DATA.

BRAND	HYBRID	GRAIN YIELD BU/A (KG/HA)	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
		2 YEAR AVERAGE			
-----	NEBR. 611	157 (9860)	18.3	2	0
BO-JAC	14	133 (8350)	13.5	4	0
CARGILL	949	169 (10610)	18.2	2	0
DEKALB	XL-55A	152 (9540)	16.0	10	0
FONTANELLE	400	145 (9100)	15.1	3	0
FONTANELLE	450	138 (8660)	17.8	2	0
HORIZON	870	159 (9980)	17.8	1	0
JACQUES	JX177	147 (9230)	14.6	2	0
JACQUES	JX180	185 (11610)	18.2	2	0
KELTGEN	KS106	140 (8790)	14.5	3	0
KELTGEN	KS115	169 (10610)	18.0	1	0
LYNKS	LX 4220A	135 (8480)	14.2	2	0
NC+	3990	138 (8660)	15.6	1	0
O'S GOLD	SX3344	162 (10170)	18.7	1	0
P-A-G	SX 333	164 (10300)	17.7	2	0
P-A-G	SX 397	139 (8730)	14.3	12	0
PRAIRIE VALLEY	600	141 (8850)	16.7	1	0
WILSON	2317	145 (9100)	14.9	1	0
AVERAGE ALL ENTRIES		150.9 (9474)	16.3	2.9	0.0
DIF. REQ. FOR SIG.	5%	16.4 (1030)	1.0	N.S.	N.S.
	25%	9.2 (578)	0.5	4.6	N.S.
		3 YEAR AVERAGE			
-----	NEBR. 611	156 (9790)	20.1	5	1
FONTANELLE	400	145 (9100)	16.0	7	1
FONTANELLE	450	160 (10040)	19.3	2	1
JACQUES	JX177	155 (9730)	15.9	3	2
JACQUES	JX180	183 (11490)	20.3	4	1
O'S GOLD	SX3344	167 (10480)	21.6	4	0
P-A-G	SX 397	151 (9480)	16.0	13	1
AVERAGE ALL ENTRIES		159.5 (10013)	18.5	5.4	1.0
DIF. REQ. FOR SIG.	5%	N.S.	2.1	N.S.	N.S.
	25%	15.0 (942)	1.2	4.1	N.S.
		4 YEAR AVERAGE			
-----	NEBR. 611	145 (9100)	21.7	4	1
FONTANELLE	400	140 (8790)	17.5	5	1
O'S GOLD	SX3344	152 (9540)	22.9	3	1
P-A-G	SX 397	140 (8790)	17.3	11	1
AVERAGE ALL ENTRIES		144.2 (9051)	19.9	5.8	1.0
DIF REQ. FOR SIG.	5%	N.S.	1.9	N.S.	N.S.
	25%	N.S.	1.0	3.9	N.S.
		5 YEAR AVERAGE			
-----	NEBR. 611	147 (9230)	20.9	3	1
FONTANELLE	400	144 (9040)	17.1	5	1
P-A-G	SX 397	146 (9170)	16.9	9	0
AVERAGE ALL ENTRIES		146.0 (9166)	18.3	5.7	0.7
DIF. REQ. FOR SIG.	5%	N.S.	1.2	N.S.	N.S.
	25%	N.S.	0.6	3.8	0.5

Location of tests (counties): 1975 Valley; 1976 McPherson, Keith; 1977 Custer; 1978 Logan, Chase; 1979 no data; 1980 McPherson, Keith.

TABLE 8a. ZONE IV IRRIGATED. SUMMARY. 1980.

BRAND	HYBRID	YIELD AVERAGE BU/A (KG/HA)	SCOTTS BLUFF BU/A	BOX BUTTE BU/A	MOISTURE	BUSHEL WEIGHT
ACCO	LC195	146 (917)	151	141	23.6	53.7
ACCO	LC251	152 (954)	157	146	23.2	54.6
ACCO	LC259	149 (935)	151	147	26.8	52.3
ACCO	LC3751	154 (967)	163	144	27.4	52.4
ASGROW	RX511	159 (998)	167	151	26.4	52.9
BC-JAC	117	146 (917)	163	129	24.6	53.1
BC-JAC	214	161 (1011)	179	142	25.8	52.2
BC-JAC	432	156 (979)	166	145	31.3	50.9
BC-JAC	452	158 (992)	188	128	30.4	51.6
CARGILL	436	156 (979)	187	125	25.7	52.2
CARGILL	832	139 (873)	150	128	23.1	53.1
CARGILL	838	157 (986)	154	160	22.9	53.3
CENEX	2106	159 (998)	165	152	24.4	53.7
CENEX	2108	149 (935)	144	154	26.7	52.3
CENEX	2157	152 (954)	168	135	27.6	51.1
CCCP	2165	146 (917)	156	136	26.3	52.8
DEKALB	XL-14AA	134 (841)	143	125	21.5	56.4
DEKALB	XL-18	134 (841)	126	141	24.5	54.5
DEKALB	XL-25A	143 (898)	153	133	25.8	53.7
DEKALB	XL-32A	138 (866)	168	108	29.3	50.5
EK PREMIUM	EK 7700	148 (929)	167	129	29.5	52.3
EK PREMIUM	EK 7710	130 (816)	139	121	25.6	52.4
EK PREMIUM	EK 7720	152 (954)	155	149	27.0	52.4
EK PREMIUM	EK 7770	158 (992)	161	154	30.1	52.4
FONTANELLE	330	135 (848)	153	117	22.8	55.0
FONTANELLE	400	147 (923)	159	134	29.1	50.5
FUNK'S	G-4143	152 (954)	165	138	22.3	54.5
FUNK'S	G-4256	134 (841)	145	122	24.3	54.0
HORIZON	109	153 (961)	164	142	27.9	51.4
HORIZON	129	151 (948)	168	133	28.1	50.6
JACOBES	JX107	145 (910)	158	131	24.9	52.0
JACOBES	JX147	148 (929)	151	145	26.0	52.5
JACOBES	JX177	156 (979)	157	154	27.7	50.7
JACOBES	JX52	144 (904)	155	133	22.3	56.4
KELTGEN	KS100	128 (804)	132	124	22.6	55.2
KELTGEN	KS102	155 (973)	169	141	26.7	51.9
KELTGEN	KS94	138 (866)	132	144	23.6	54.8
KELTGEN	KS99	132 (829)	157	107	24.7	53.3
LYNKS	LX 4070	137 (860)	127	147	23.2	54.3
LYNKS	LX 4075	149 (935)	154	143	24.9	53.9
LYNKS	LX 4100	161 (1011)	173	149	27.1	51.8
LYNKS	LX 4120	156 (979)	177	134	24.7	52.7
MCCURDY	4664	150 (942)	154	145	23.3	53.2
MCCURDY	4855	146 (917)	162	129	26.1	52.6
MCCURDY	5225	143 (898)	164	121	24.8	52.1
MCCURDY	5596	140 (879)	146	133	30.3	50.6
MIGRO SEEDS	HF 16	133 (835)	135	131	20.9	55.3
MIGRO SEEDS	HP 20	153 (961)	170	136	21.7	56.7
MIGRO SEEDS	HP 360	139 (873)	146	131	27.0	51.9
MIGRO SEEDS	M2022X	138 (866)	150	126	26.1	52.9
NC+	1830	142 (891)	155	128	24.7	52.8
NC+	2225	137 (860)	144	130	25.2	52.1
NORTHRUP KING	PX 37	142 (891)	142	142	26.3	52.1
NORTHRUP KING	PX 39	152 (954)	169	134	26.9	50.3
NORTHRUP KING	PX 49	153 (961)	164	141	24.2	53.8
O'S GOLD	EXP. 688C	158 (992)	168	147	25.8	52.6
O'S GOLD	SX1107	166 (1042)	180	151	27.8	51.1
P-A-G	SX 181	146 (917)	167	125	22.3	56.2
PAYCO	SX 555	137 (860)	154	120	21.7	55.9
PAYCO	SX 620	149 (935)	166	131	23.7	53.3
PAYCO	SX 680	130 (816)	121	138	22.6	54.6
PAYCO	SX 808	148 (929)	162	133	26.5	52.7
PCI	FF	136 (854)	152	119	32.5	50.2
PCI	3F	152 (954)	161	142	27.2	50.5
PCI	4-14	145 (910)	151	138	33.1	49.6
PRAIRIE VALLEY	242	144 (904)	146	142	21.6	55.8
PRAIRIE VALLEY	252	144 (904)	150	138	25.4	52.9
PRAIRIE VALLEY	260	142 (891)	162	121	29.5	51.5
PRAIRIE VALLEY	262	157 (986)	171	142	26.2	52.3
SOKOTA	SK79	148 (929)	150	145	32.4	50.2
TROJAN	TX5102	148 (929)	165	130	27.2	51.5
TROJAN	TX594	129 (810)	131	126	23.0	54.8
TROJAN	T929	139 (873)	133	145	20.2	54.7
WINTERSET HYBRID	CB43	158 (992)	156	160	27.3	52.2
WINTERSET HYBRID	CB62	139 (873)	154	123	29.0	50.5
AVERAGE ALL ENTRIES		146.4 (919)	156.2	136.1	25.8	52.8
DIF. REQ. FOR SIG. 5%		N.S.	30.5	26.0	2.9	2.1
25%		N.S.	17.9	15.3	1.7	1.2

TABLE 8b. ZONE IV IRRIGATED. 1977-1980.

BRAND	HYBRID	GRAIN YIELD BU/A (KG/HA)	GRAIN MOISTURE PCT	BUSHEL WEIGHT LBS
		2 YEAR AVERAGE		
ACCO	UC1905	146 (9170)	22.2	55.3
ACCO	UC2951	152 (9540)	22.2	55.3
BO-JAC	432	153 (9610)	27.9	52.4
CARGILL	832	126 (7910)	21.4	54.7
CARGILL	838	154 (9670)	21.7	54.7
CENEX	2157	152 (9540)	24.8	53.0
DEKALB	XL-25A	145 (9100)	23.5	55.5
DEKALB	XL-32A	143 (8980)	26.9	52.1
FONTANELLE	330	129 (8100)	22.5	55.9
FONTANELLE	400	144 (9040)	27.3	52.4
HORIZON	109	143 (8980)	26.2	53.2
KELTGEN	KS100	126 (7910)	21.8	56.4
KELTGEN	KS102	153 (9610)	25.9	52.8
KELTGEN	KS94	134 (8410)	22.1	56.6
LYNKS	LX 4120	157 (9860)	24.3	53.4
MCCURDY	5596	155 (9730)	26.9	52.8
NORTHRUP KING	PX 37	146 (9170)	24.2	53.4
NORTHRUP KING	PX 49	152 (9540)	22.3	55.6
O'S GOLD	SX1107	160 (10040)	25.9	52.9
TROJAN	TXS94	119 (7470)	22.4	56.1
TROJAN	T929	139 (8730)	19.6	55.5
AVERAGE ALL ENTRIES		144.1 (9047)	23.9	54.3
DIF. REQ. FOR SIG.	5%	18.1 (1136)	2.6	1.3
	25%	10.2 (640)	1.4	0.7
		3 YEAR AVERAGE		
ACCO	UC2951	144 (9040)	23.6	54.7
CARGILL	832	123 (7720)	22.9	54.5
CARGILL	838	141 (8850)	23.8	53.8
CENEX	2157	151 (9480)	25.6	52.7
FONTANELLE	400	137 (8600)	27.5	52.6
KELTGEN	KS102	143 (8980)	26.9	52.4
KELTGEN	KS94	127 (7970)	23.6	55.4
LYNKS	LX 4120	144 (9040)	25.6	52.9
NORTHRUP KING	PX 37	142 (8910)	25.9	52.6
NORTHRUP KING	PX 49	145 (9100)	23.5	55.2
O'S GOLD	SX1107	151 (9480)	27.6	51.7
TROJAN	TXS94	118 (7410)	24.2	55.1
AVERAGE ALL ENTRIES		138.9 (8720)	25.1	53.6
DIF. REQ. FOR SIG.	5%	14.4 (904)	1.9	1.5
	25%	8.2 (515)	1.1	0.8
		4 YEAR AVERAGE		
CARGILL	838	142 (8910)	21.7	54.7
FONTANELLE	400	144 (9040)	25.1	53.3
LYNKS	LX 4120	144 (9040)	23.6	53.4
AVERAGE ALL ENTRIES		143.3 (8990)	23.5	53.8
DIF. REQ. FOR SIG.	5%	N.S.	2.6	N.S.
	25%	N.S.	1.3	0.9

TABLE 9a. ECOFALLOW. EARLY HYBRIDS. SUMMARY. 1980.

		YIELD					1980 AVERAGE		
BRAND	HYBRID	AVERAGE BU/A (KG/HA)	CHEYENNE BU/A	LINCOLN BU/A	CHASE BU/A	CUSTER BU/A	MOISTURE	BROKEN PLANTS	DROPPED EARS	EARS/100 PLANTS
BC-JAC	117	41 (2570)	30	44	71	20	15.8	0	2	80
BC-JAC	14	40 (2510)	29	42	76	14	16.5	1	3	78
CENEX	2010A	32 (2010)	29	31	41	26	12.2	2	1	84
CENEX	2106	42 (2640)	27	40	71	28	15.7	1	1	84
CENEX	2111	37 (2320)	34	30	63	20	13.9	1	1	77
CENEX	2119	36 (2260)	30	29	67	16	19.5	0	1	76
EK PREMIUM	EK 770C	40 (2510)	24	47	71	17	23.0	1	1	76
EK PREMIUM	EK 771C	37 (2320)	24	38	71	14	19.9	1	2	73
EK PREMIUM	EK 772C	41 (2570)	23	36	76	28	21.2	1	2	85
EK PREMIUM	EK 777C	42 (2640)	32	38	80	18	24.8	0	0	78
JACQUES	JX177	38 (2390)	28	43	68	14	21.3	1	4	72
MIGRO SEEDS	HP 20	38 (2390)	31	38	63	20	14.4	1	2	82
MIGRO SEEDS	HP 360	40 (2510)	23	39	73	26	19.0	0	1	83
MIGRO SEEDS	M2022X	40 (2510)	30	42	76	10	22.6	0	1	71
MIGRO SEEDS	SPX 301	40 (2510)	36	31	66	26	15.6	0	2	83
PRAIRIE VALLEY	181	32 (2010)	24	24	47	33	11.3	1	1	91
PRAIRIE VALLEY	205	42 (2640)	28	43	74	21	16.2	1	1	82
PRAIRIE VALLEY	242	31 (1950)	23	25	60	14	15.6	2	1	76
PRAIRIE VALLEY	260	35 (2200)	22	32	66	19	24.8	0	0	81
TODD	M15	30 (1880)	16	24	50	30	11.1	1	1	91
TROJAN	TX5102	39 (2450)	28	31	76	22	20.4	1	1	76
TROJAN	TX594	38 (2390)	30	40	63	20	14.5	1	3	82
TROJAN	T1058	50 (3140)	43	47	76	33	20.5	1	1	87
AVERAGE ALL ENTRIES		38.3 (2404)	28.0	36.3	67.2	21.3	17.8	0.8	1.4	80.3
DIF. REQ. FOR SIG.	5%	9.6 (603)	N.S.	11.5	9.4	12.1	2.9	N.S.	N.S.	N.S.
	25%	5.6 (352)	7.5	6.8	5.5	7.1	1.7	N.S.	N.S.	N.S.

TABLE 9b. ECOFALLOW EARLY HYBRIDS. 1977-1980.

BRAND	HYBRID	GRAIN YIELD BU/A (KG/HA)	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
		2 YEAR AVERAGE			
CENEX	2111	53 (3330)	16.1	1	1
CENEX	2119	53 (3330)	17.8	0	1
TROJAN	TXS102	55 (3450)	21.9	1	0
TROJAN	TXS94	55 (3450)	16.6	1	3
TROJAN	T1058	59 (3700)	22.8	1	1
AVERAGE ALL ENTRIES		55.0 (8941)	19.0	0.8	1.2
DIF. REQ. FOR SIG.	5%	N.S.	N.S.	N.S.	1.0
	25%	N.S.	3.2	0.5	0.5
		3 YEAR AVERAGE			
CENEX	2111	44 (2760)	14.2	2	2
TROJAN	TXS102	46 (2890)	19.1	1	1
TROJAN	TXS94	47 (2950)	14.3	2	2
TROJAN	T1058	48 (3010)	20.0	1	1
AVERAGE ALL ENTRIES		46.4 (8950)	16.9	1.5	1.5
DIF. REQ. FOR SIG.	5%	N.S.	1.7	N.S.	N.S.
	25%	N.S.	0.9	N.S.	N.S.
		4 YEAR AVERAGE			
TROJAN	TXS102	59 (3700)	19.2	0	1

Location of tests (Counties): 1977 Cheyenne; 1978 Cheyenne, Lincoln, Dundy; 1979 Cheyenne, Lincoln, Custer; 1980 Cheyenne, Chase, Lincoln, Custer.

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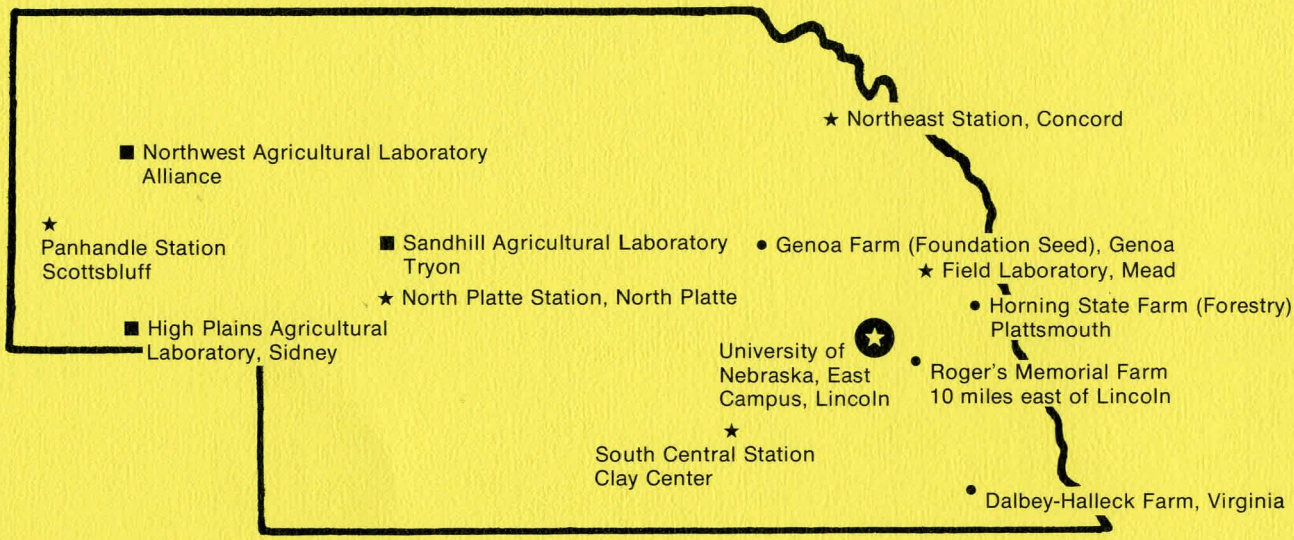

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Nebraska is a large state and has great variation due to topography and the continental type of climate. The elevation ranges from 1,000 feet to near a mile high in the northwest portion of the state, rainfall varies from 14 to 40 inches per year, 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.

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