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NEBRASKA CORN PERFORMANCE TESTS 1979

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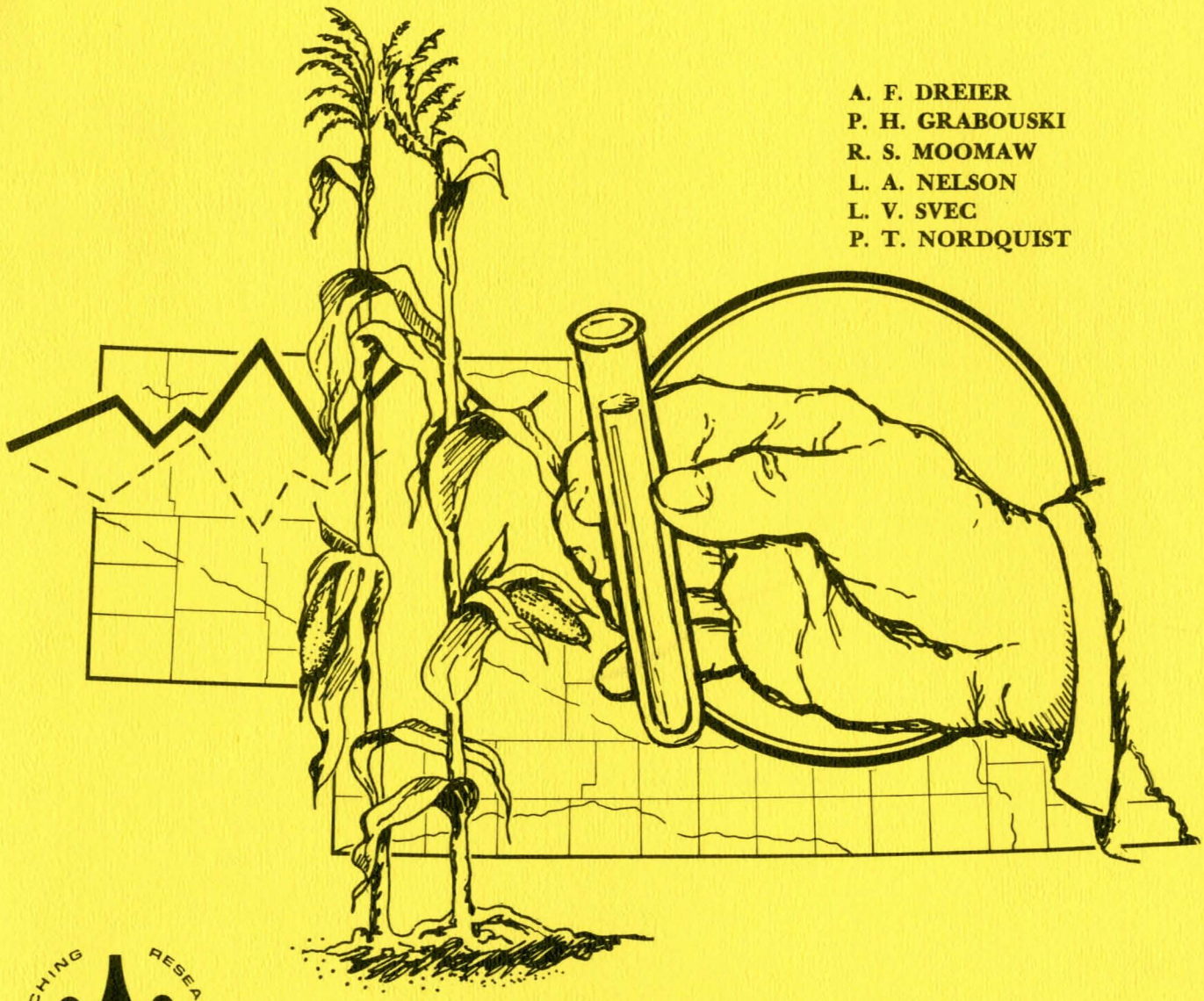

TEACHING RESEARCH EXTENSION
Institute of Agriculture and Natural Resources

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 80-105

January 1980

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ACKNOWLEDGMENT

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

Acknowledgment is made to County Extension Agents and others who assisted in these trials. Ben Doupnik, D. S. Wysong and J. E. Watkins 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
1979

The 1979 Nebraska corn crop set new yield and total production records. Estimated yields were as follows:

	Yield, bu/A (kg/ha)			
	1976	1977	1978	1979
State	85.0 (5336)	99.0 (6215)	112.0 (7031)	116.0 (7282)
Irrigated	112.0 (7031)	116.0 (7282)	125.0 (7848)	128.0 (8036)
Dryland	40.4 (2536)	64.2 (4030)	84.7 (5317)	86.8 (5449)

In 1979, harvested acreages (hectares) for grain were as follows: total 6,700,000 (2,713,500), irrigated 4,750,000 (1,923,750), and nonirrigated 1,950,000 (789,750).

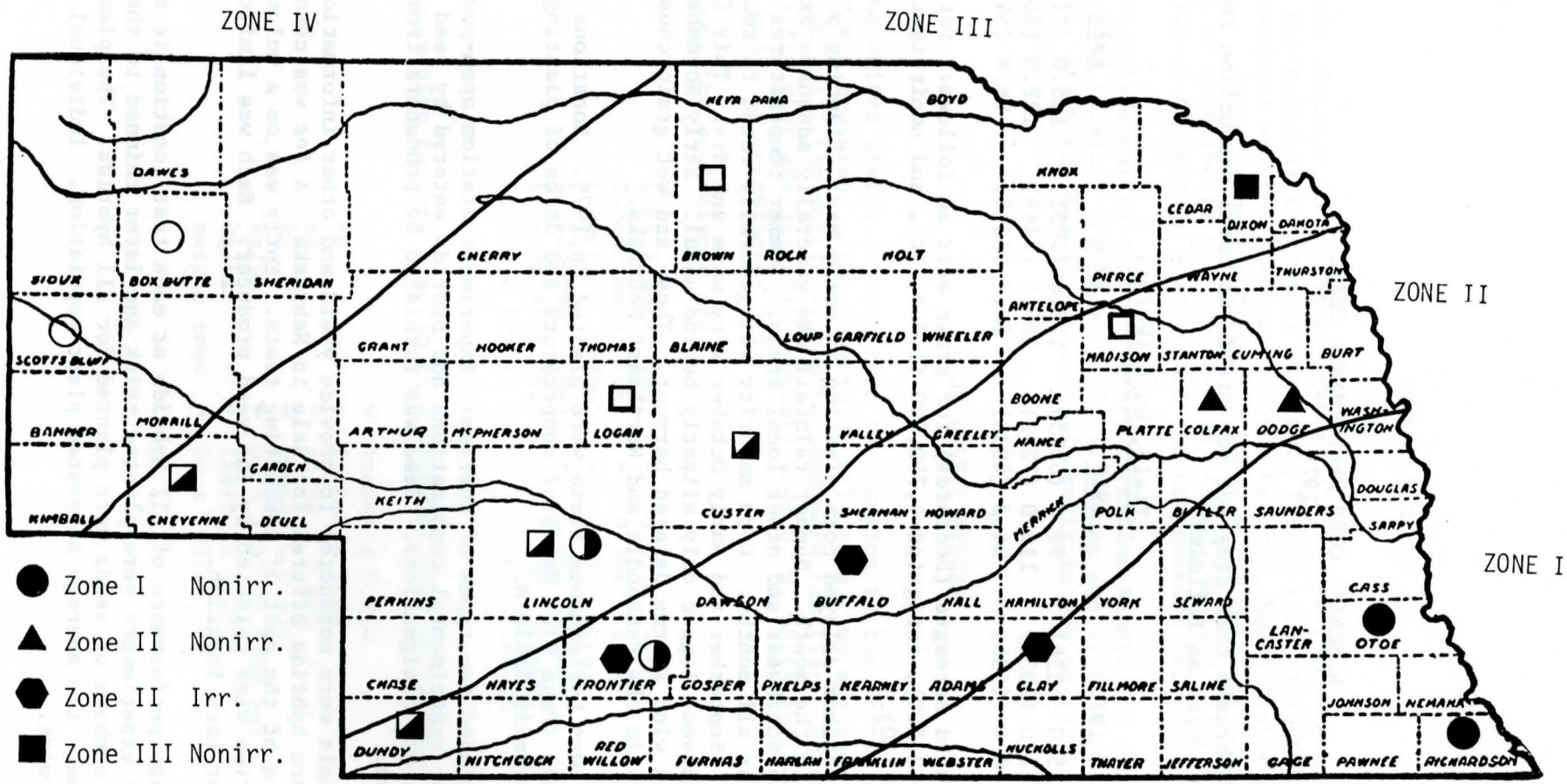
Cool wet weather delayed corn planting in early May. Planting proceeded rapidly later in the month. Summer rainfall was generally adequate except for portions of the Southwest and other local areas. Summer temperatures were below normal for all months. Corn maturity was generally rated to two weeks behind normal. September and early October were warm and dry. This favored ripening and harvest lagged only slightly behind usual. Early November rain and/or snow and wind storms delayed harvest. These and wet grain caused the greatest delays in the Panhandle and Northeast Nebraska.

Nineteen corn performance tests were planted in 1979. 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 portion of the cost of conducting tests. Entry was on a voluntary basis and hybrids were selected by the seed producer. Each was limited to four hybrids at each location.

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



- ● Zone I Nonirr.
- ▲ Zone II Nonirr.
- ⬢ Zone II Irr.
- ■ Zone III Nonirr.
- □ Zone III Irr.
- ◑ S. W. Ecofallow
- ● Zone IV Irr.
- ◪ Ecofallow Early Hybrids

CORN MATURITY ZONES AND LOCATIONS

OF NEBRASKA CORN PERFORMANCE TESTS. 1979.

Table A. Location, cooperators and dates of planting and harvest. Nebraska Corn Performance Tests. 1979.

Location	Cooperator	Planted	Harvested
Zone I Nonirrigated			
Richardson	Roland & Gerald Owens, Verdon	May 9	October 16
Otoe	Norman Rohlfing, Talmadge	May 15	November 8
Zone II Nonirrigated			
Dodge	Keith Bergquist, Hooper	May 14	November 13
Colfax	Lambert Maca, Rogers	May 17	October 18
Zone II Irrigated			
Clay	South Central Station	May 8	October 29
Buffalo	Carl Gangwish, Shelton	May 8	November 8
Frontier	Gilbert Larsen, Curtis	May 17	October 15
Zone III Nonirrigated			
Dixon	Northeast Station	May 16	November 8
Zone III Irrigated Northeast			
Madison	Walt Klein, Meadow Grove	May 15	October 24
Southwest Ecofallow			
Lincoln	North Platte Station	May 7	October 8
Frontier	Morris Kubik, Stockville	May 7	October 11
Zone III Irrigated North Central			
Brown	Paul Platt, Long Pine	May 24	October 25
Logan	John Grabouski, Stapleton	May 16	--------- 1/
Zone IV Irrigated			
Scotts Bluff	Panhandle Station	May 1	November 2
Box Butte	Northwest Ag. Laboratory	April 27	Novmeber 6
Early Ecofallow			
Cheyenne	High Plains Ag. Laboratory	May 2	October 5
Lincoln	North Platte Station	May 7	October 2
Custer	Duane Erickson, Arnold	May 14	October 8
Dundy	Jeff Pribbeno, Enders	May 4	October 11 2/

1/ Hailed

2/ Yields not reported. Drouth. Excessive plot variability.

Table B. Average performance of hybrids at each test location. 1979.

Location	Row spacing	Plants per hill	Hill or plant spacing	Plants	Yield C.V. 1/	Grain yield	Harvest moisture	Broken plants	Dropped ears	Yield 2/ moisture correlation
	in (cm)	no	in (cm)	acre (hectare)	%	bu/A (kg/ha)	%	%	%	r
Richardson	30 (76)	2.6	30	18,120 (44 770)	6.7	165.2 (10 370)	15.2	1.5	0.4	0.24*
Otoe	36 (91)	2.6	30 (76)	15,100 (37 310)	7.1	147.4 (9 254)	15.9	1.6	0.2	0.20*
Dodge	40 (102)	2.8	30 (76)	14,640 (36 180)	6.7	125.5 (7 879)	18.6	3.4	0.6	0.50**
Colfax	30 (76)	2.4	30 (76)	16,730 (41 340)	8.9	107.9 (6 773)	19.3	3.0	1.7	0.20*
Clay (irr)	30 (76)	drill	8.0 (20)	26,180 (64 690)	12.2	164.2 (10 308)	18.4	9.5	3.7	0.50**
Buffalo (irr)	30 (76)	drill	7.9 (20)	26,630 (65 800)	13.4	158.9 (9 975)	16.1	44.5	6.2	0.15
Frontier (irr)	30 (76)	drill	8.6 (22)	24,270 (59 970)	10.0	180.1 (11 306)	17.5	4.6	1.2	0.23**
Dixon	30 (76)	drill	13.0 (33)	16,080 (39 730)	6.8	164.3 (10 315)	21.0	2.1	0.1	0.61**
Madison (irr)	30 (76)	drill	8.7 (22)	24,130 (59 630)	7.4	178.6 (11 213)	19.3	2.0	0.1	0.80**
Lincoln	30 (76)	drill	16.2 (41)	12,900 (31 880)	14.9	86.6 (5 437)	19.7	1.1	1.2	-0.30
Frontier	36 (91)	drill	17.2 (44)	10,140 (25 060)	10.5	123.9 (7 778)	17.3	1.6	6.3	0.48**
Brown (Irr)	30 (76)	drill	8.2 (21)	25,470 (62 940)	10.8	124.2 (7 797)	25.8	3.5	0.6	0.14
Scotts Bluff	30 (76)	drill	8.9 (23)	23,560 (58 220)	13.5	165.0 (10 359)	20.9	0.7	0.7	0.31*
Box Butte	30 (76)	drill	8.8 (22)	23,700 (58 560)	13.4	120.2 (7 546)	24.6	0.2	0.2	-0.17
Cheyenne (early)	30 (76)	drill	12.3 (31)	16,970 (41 930)	28.8	24.3 (1 526)	29.9	---	---	-0.58**
Lincoln (early)	30 (76)	drill	16.0 (41)	13,080 (32 320)	11.2	91.9 (5 769)	16.5	0.4	1.0	-0.49**
Custer (early)	36 (91)	drill	14.2 (36)	12,310 (30 420)	9.0	86.0 (5 399)	19.5	1.1	1.5	-0.49**

1/ Hand harvest - Richardson, Otoe, Dodge, Colfax, Lincoln, Frontier, Lincoln (early, Custer.
Machine harvest - Clay, Buffalo, Frontier, Dixon, Madison, Borwn, Scotts Bluff, Box Butte, Cheyenne.

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

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 equivalent moisture contents.

Stalk rot readings were taken previous to harvest in Clay and Buffalo Counties. Plants were squeezed in the first fully elongated internode above the brace roots. If a stalk would crush by squeezing it was listed as having stalk rot. Periodic examinations of crushed stalks were made to insure that stalk rot was present. Counts were made on 20 plants in each of 4 replications. Percentages reflect disease incidence and not disease serverity. The variability of this type of data is rather high. Many factors affect the incidence of stalk rot from year to year. Among these are temperature, soil moisture, soil type, fertilizer program, plant population, and row spacing as well as hybrid constitution and maturity.

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

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

Names and addresses of entrants are shown in Table C. The brand name, hybrid designation and areas where grown for each 1978 entry are shown in Table D.

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

Nebr. Exp. 9059	N152 x B73
Nebr. 611	N7A x Mo17
Nebr. 612	N132 x N131
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. 1979.

Brand	Hybrid	Tables	Brand	Hybrid	Tables
-----	Nebr. Exp. 9059	3	DeKalb	XL72AA (SX)	1,2,3
-----	Nebr. 611 (SX)	1,2,3,4,5,6,7	DeKalb	XL72B (SX)	1, 3
-----	Nebr. 612 (SX)	1	DeKalb	XL75 (SX)	1,2
-----	Nebr. 714 (SX)	1,2,3, 6	Embro	X 36 (SX)	1
-----	Nebr. 715 (SX)	1,2,3, 6	Embro	X 45 (SX)	1
ACCO	U 390 (3X)	2	Embro	X 500 (3X)	2
ACCO	U 393 (3X)	1	Embro	X 57 (SX)	2,3,4,5
ACCO	X 74451 (SX)	4,5, 8,9	Embro	X 585 (3X)	3,4,5
ACCO	X 74801 (SX)	4,5, 7	Embro	X 60	1,2,3,4,5
ACCO	UC 1905 (SX)	8	Embro	X 600 (3X)	1,2,3,4,5
ACCO	UC 2851 (SX)	8,9	Federal	FT27 (3X)	4,5
ACCO	UC 2951 (SX)	8,9	Federal	FX39	3
ACCO	UC 3002 (SX)	4,5	Fontanelle	330 (SX)	8
ACCO	UC 7601 (SX)	3, 6,7	Fontanelle	440 (SX)	4,5, 7,8
ACCO	UC 7951 (SX)	1,2,3, 6,7	Fontanelle	420 (SX)	4,5, 7
ACCO	UC 8201 (SX)	1,2,3,4,5,6,7	Fontanelle	450 (MSX)	4,5, 7
ACCO	UC 8951 (SX)	1,2,3	Fontanelle	500 (MSX)	6
Asgrow	RX 544 (MSX)	4,5, 7	Fontanelle	580 (SX)	1,2,3,4,5,6,7
Asgrow	RX 777 (SX)	1, 3,4,5, 7	Fontanelle	590 (SX)	1,2,3
Asgrow	RX 90 (SX)	1,2,3,4,5	Fontanelle	660 (SX)	1
Asgrow	RX 901 (SX)	1, 3	Frundt	SX14 (SX)	3
Asgrow	RX 909 (SX)	1	Frundt	SX33A (SX)	3
Bo-Jac	14 (SX)	7,8	Funk's	G-4224 (MSX)	8
Bo-Jac	28 (SX)	7,8	Funk's	G-4288 (SX)	9
Bo-Jac	37 (SX)	7,8,9	Funk's	G-4315 (SX)	8
Bo-Jac	432 (SX)	2,3, 7,8	Funk's	G-4323 (MSX)	4,5,6,7,8
Bo-Jac	52A (SX)	3	Funk's	G-4430 (SX)	7
Bo-Jac	56 (SX)	1,2,3	Funk's	G-4450 (MSX)	4,5,6,7
Bo-Jac	56A	1	Funk's	G-4507 (SX)	2,3, 7
Bo-Jac	562 (SX)	1,2,3	Funk's	G-4520 (SX)	3
Bo-Jac	69 (SX)	1	Funk's	G-4583 (3X)	1,2
Cargill	832 (SX)	8	Funk's	G-4606 (MSX)	1, 3
Cargill	838 (SX)	8	Gold Tag	GT 2060 (MSX)	2,3,4,5, 7
Cargill	872 (SX)	7	Gold Tag	GT 3020 (SX)	1,2,3,4,5,6,7
Cargill	892 (SX)	4,5, 7	Gold Tag	GT 3030 (SX)	1,2,3
Cargill	921 (SX)	2, 7	Gold Tag	GT 4020 (MSX)	1, 6
Cargill	922 (SX)	2	Gold Tag	GT 770 (MSX)	7
Cargill	924 (SX)	2,3,4,5, 7	Golden Acres	T-E 6925 (SX)	4,5, 7,8,9
Cargill	934 (SX)	1, 3	Golden Acres	T-E 6945 (SX)	6
Cargill	949 (SX)	1, 3,4,5	Golden Acres	T-E 6995 (SX)	1,2,3,4,5, 7
Cargill	967 (SX)	1,2,3,4,5	Golden Acres	T-E 6995-A (SX)	1,2,3,4,5, 7
Cenex	2111 (SX)	9	Gutwein	2340	7
Cenex	2119 (SX)	8,9	Gutwein	2875	2
Cenex	2134 (SX)	8	Gutwein	2910 (SX)	1, 4,5
Cenex	2157 (SX)	4,5,6,7,8,9	Gutwein	62 (SX)	1,2, 4,5
Cenex	2371 (SX)	1,2,3,4,5, 7	Hoegemeyer	SX2634 (SX)	3
Cenex	2380 (SX)	1,2,3,4,5,6,7	Hoegemeyer	SX2644 (SX)	2,3,4,5
Circle Seed	CS-205 (SX)	7	Hoegemeyer	SX2649 (SX)	2
Circle Seed	CS-206 (SX)	7	Hoegemeyer	SX2675 (SX)	1, 4,5
Circle Seed	CS-208 (SX)	7	Hoegemeyer	SX2840 (SX)	1
Circle Seed	CS-215 (SX)	7	Horizon	109 (SX)	8
Conti-Brand	CG-5450 (SX)	1,2,3,4,5	Horizon	131 (SX)	4,5, 7,8
Co-op	2100 (SX)	8	Horizon	555 (3X)	2,3
Co-op	2105 (SX)	7,8	Horizon	821 (SX)	3, 6
Co-op	2260 (SX)	1,2,3, 7	Horizon	841 (SX)	6,7, 9
Co-op	2300 (SX)	1,2,3, 7	Horizon	861 (SX)	1, 4,5,6,7,8
Co-op	2318 (SX)	1,2,3	Horizon	870 (SX)	1,2,3,4,5,6,7,8,9
Corn King	1122 (SX)	8	Jacques	JX107 (SX)	4,5
Corn King	1148 (SX)	2	Jacques	JX180 (SX)	1,2,3,4,5, 7
Curry	SC-1414 (SX)	7	Jacques	JX197 (SX)	3
Curry	SC-1428 (SX)	7	Jacques	JX247 (SX)	1
Curry	SC-1444 (SX)	4,5, 7	Kaltenberg	KX58 (SX)	4,5
Curry	SC-1455 (SX)	4,5	Kaltenberg	KX68 (SX)	2, 4,5
Curry	SC-146 (SX)	3,4,5	Kaltenberg	KX76 (SX)	2, 4,5
Curry	SC-150 (SX)	2,3,4,5, 7	Keltgen	KS100 (SX)	7,8
Curry	SC-1505 (SX)	2,3	Keltgen	KS102 (SX)	8
Curry	SC-158 (SX)	2,3	Keltgen	KS106 (SX)	3,4,5, 7
Curry	TC-360 (SX)	2	Keltgen	KS109 (MSX)	3,4,5, 7
Custom Farm Seed	CFS Wx220 (SX)	7	Keltgen	KS115 (SX)	1,2,3,4,5, 7
Custom Farm Seed	CFS Wx222 (SX)	3	Keltgen	KS119 (SX)	1,2,3
Custom Farm Seed	CFS 222 (SX)	7	Keltgen	KS94 (SX)	8
DeKalb	XL15 (SX)	8	Keltgen	KT119 (3X)	1
DeKalb	XL23 (SX)	7,8	Lynks	LX 4020 (SX)	8
DeKalb	XL25A (SX)	8	Lynks	LX 4050 (SX)	8
DeKalb	XL30A (SX)	7	Lynks	LX 4120 (SX)	4,5, 7,8
DeKalb	XL32A (SX)	8	Lynks	LX 4220A (SX)	3,4,5, 7
DeKalb	XL32AA (SX)	4,5	Lynks	LX 4330 (SX)	1, 3,4,5, 7
DeKalb	XL362AA (3X)	3	Lynks	LX 4370 (SX)	1, 3
DeKalb	XL54 (SX)	4,5	Lynks	LX 4375 (SX)	2
DeKalb	XL55A (SX)	4,5, 7	Lynks	LX 4500 (SX)	1, 3
DeKalb	XL62AA (SX)	2, 4,5	McCurdy	MSX 37 (SX)	8
DeKalb	XL63	2	McCurdy	MSX 42 (SX)	8
DeKalb	XL71 (SX)	1, 3	McCurdy	MSX 46 (SX)	4,5, 7

Continued

Table C. Concluded.

Brand	Hybrid	Tables	Brand	Hybrid	Tables
McCurdy	MSX 60 (SX)	2, 7	Pioneer	3591 (MSX)	6
McCurdy	MSX 65 (SX)	2	Pioneer	3713 (MSX)	6, 8
McCurdy	MSX 70 (SX)	2	Pioneer	3720 (SX)	2, 4,5,6,7, 9
McCurdy	MSX 77 (SX)	3,4,5, 7	Pioneer	3732 (SX)	9
McCurdy	MSX 84 (SX)	1,2,3	Pioneer	3780 (SX)	4,5, 7,8
McCurdy	MSX 84aa (SX)	1, 3	Pioneer	3901 (SX)	6, 8,9
McCurdy	5596 (SX)	4,5, 8	Pioneer	3906 (SX)	8,9
McCurdy	6475 (SX)	7,8	Prairie Stream	SX5B (SX)	3
McCurdy	7440	1, 3,4,5	Prairie Stream	SX66 (SX)	3
McCurdy	78-52	1	Prairie Stream	M676 (3X)	3
MFA	4306 (SX)	1, 3	Prairie Valley	181 (MSX)	8
MFA	5104 (SX)	1, 3	Prairie Valley	362 (SX)	7
MFA	5802 (SX)	1, 3	Prairie Valley	37S (SX)	1
MFA	5903 (MSX)	1, 3	Prairie Valley	389	2, 4,5
Migro-Tekseed	HP 23 (SX)	4,5,6,7	Prairie Valley	390	8
Migro-Tekseed	HP 27 (SX)	6	Prairie Valley	430 (SX)	8
Migro-Tekseed	HP 44 (SX)	2,3	Prairie Valley	595	4,5, 7
Migro-Tekseed	HP 61 (SX)	1	Prairie Valley	600 (SX)	7
Migro-Tekseed	MO707 (SX)	1	Prairie Valley	730 (SX)	3
Migro-Tekseed	SPX 1A (SX)	6,7	Prairie Valley	756	2
Migro-Tekseed	SPX 305 (3X)	6	Prairie Valley	76S (SX)	1,2,3,4,5, 7
Migro-Tekseed	SPX 328 (3X)	7	Prairie Valley	767	2,3,4,5
Migro-Tekseed	SPX 34 (SX)	2,3,4,5	Prairie Valley	795	1
Migro-Tekseed	SPX 36 (SX)	2	Prairie Valley	818 (SX)	1, 3
Migro-Tekseed	SPX 49 (SX)	4,5	RBA	Super 14	1, 3,4,5
Migro-Tekseed	SPX 71 (SX)	1,2,3	RBA	Super 4	2,3
Migro-Tekseed	SPX 77 (SX)	1, 3	RBA	111	4,5
Migro-Tekseed	SPX 8 (MSX)	4,5, 7	RBA	114	1,2
NC +	X5950 (SX)	1,2,3,4,5, 7	RBA	120	2,3,4,5
NC +	2999 (SX)	8	Sokota	SK 79 (3X)	3
NC +	33 (SX)	8,9	Sokota	SS 176 (MSX)	4,5
NC +	3990 (SX)	7	Sokota	SS 178	4,5
NC +	4222 (3X)	4,5,6,7	Sokota	TS 180 (SX)	3
NC +	4666 (SX)	6	Sokota	TS 62A (SX)	4,5
NC +	59 (SX)	1,2,3,4,5	Sokota	TS 64 (SX)	4,5
NC +	85 (SX)	1	Sokota	TS 82 (SX)	3
Northrup King	PX24 (SX)	8	Stewart	6573 (SX)	1,2,3
Northrup King	PX37 (SX)	8	Stewart	77 (SX)	1,2
Northrup King	PX49 (SX)	7,8	Super Crost	5330 (MSX)	1,2,3
Northrup King	PX59 (SX)	3,4,5, 7	Super Crost	5440 (SX)	1,2,3
Northrup King	PX603 (3X)	4,5	Super Crost	6800 (MSX)	1,2,3
Northrup King	PX69A (SX)	2,3,4,5, 7	Super Crost	78002 (SX)	1,2,3
Northrup King	PX72 (SX)	1,2,3	Tall Corn	MS112 (MSX)	3,4,5
Northrup King	PX74 (SX)	1,2,3	Tall Corn	SX110 (SX)	4,5, 7
Northrup King	PX87 (SX)	1	Tall Corn	SX115 (SX)	3, 7
O's Gold	Exp. 5514 (SX)	4,5, 7	Tall Corn	TX118 (3X)	3
O's Gold	SX1101 (SX)	8	Todd	MX73 (SX)	1,2,3
O's Gold	SX1107 (SX)	8	Todd	MX73A (SX)	1,2,3,4,5,6
O's Gold	SX3344 (SX)	1, 4,5, 7	Todd	M30 (SX)	6
O's Gold	SX5353 (SX)	3	Todd	M53 (SX)	4,5
O's Gold	SX5500A (SX)	1, 3,4,5	Todd	M83 (SX)	1,2
O's Gold	SX5500AB (SX)	3	Todd	M95 (SX)	1, 3
O's Gold	TX303 (SX)	4,5	Trojan	TXS102 (SX)	9
P-A-G	Exp. 263048 (SX)	8	Trojan	TXS115A (SX)	1,2,3,4,5,6,7
P-A-G	SX 189 (SX)	8	Trojan	TXS119 (SX)	1
P-A-G	SX 249 (SX)	4,5, 7	Trojan	TXS94 (SX)	8,9
P-A-G	SX 277 (SX)	4,5, 7	Trojan	T1008 (SX)	8
P-A-G	SX 333 (SX)	1,2,3,4,5	Trojan	T1058 (SX)	2,3,4,5,6,7,8,9
P-A-G	SX 373 (SX)	1,2,3	Trojan	T1108 (MSX)	2, 4,5,6,7
P-A-G	SX 397 (SX)	4,5, 7	Trojan	T1120 (SX)	4,5, 7
P-A-G	314 (SX)	3	Trojan	T1189 (SX)	1,2,3
Pacific Oilseeds	POI-19 (SX)	4,5	Trojan	T929 (SX)	8,9
Pacific Oilseeds	POI-33 (SX)	2,3,4,5, 7	Weather Master	EPX 5P (SX)	4,5
Pacific Oilseeds	POI-37 (SX)	2,3,4,5	Weather Master	EPX 677	4,5
Pacific Oilseeds	POI-414 (SX)	2,3, 7	Weather Master	EPX 777 (SX)	4,5
Pacific Oilseeds	POI-44 (SX)	3, 7	Weather Master	EPX 788 (SX)	1, 3, 7
Pacific Oilseeds	POI-80 (SX)	4,5, 7	Weather Master	EPX 888 (SX)	1, 3, 7
Pacific Oilseeds	POI-81 (SX)	1	Weather Master	EPX 973 (SX)	1, 3, 7
Pacific Oilseeds	POI-84 (SX)	2	Wilson	1016 (SX)	4,5,6,7
Pacific Oilseeds	POI-85 (SX)	1	Wilson	1040 (SX)	1,2,3
Pacific Oilseeds	POI-88 (SX)	1	Wilson	1400a (SX)	4,5, 7
Pacific Oilseeds	POI-89 (SX)	1	Wilson	1800 (SX)	1,2,3,4,5, 7
Payco	SX844 (SX)	4,5, 8	Wilson	1800a (SX)	1,2,3
Payco	SX990 (SX)	1,2,3, 9	Wilson	1812 (SX)	2, 6
Pfister	1,2,3,4,5		Wilson	2317 (MSX)	4,5, 7
Pioneer	3090 (DX)	1	Winterset	CB62 (SX)	4,5, 7
Pioneer	3183 (SX)	1	Winterset	CB66 (SX)	1,2
Pioneer	3360 (SX)	3	Winterset	CB68 (SX)	1, 3,4,5, 7
Pioneer	3382 (SX)	1,2	Winterset	CB88 (SX)	2
Pioneer	3386 (SX)	3, 7	Winterset	CB89 (SX)	3
Pioneer	3388 (MSX)	2, 4,5			
Pioneer	3541 (SX)	3,4,5, 7			
Pioneer	3575 (DX)	2			

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

Table D. Entrants. Nebraska Corn Performance Tests. 1979.

Brand	Entrant	Address
-----	Agricultural Experiment Station	Lincoln, NE 68583
ACCO	ACCO Seed	Belmond, IA 50421
Asgrow	Asgrow Seed Company	Des Moines, IA 50053
Bo Jac	Bo-Jac Hybrid Corn Company	Mt. Pulaski, IL 62548
Cargill	Cargill	Minneapolis, MN 55440
Cenex	Cenex	St. Paul, MN 55164
Circle Seed	Circle Seed Hybrids Inc.	Bassett, NE 68714
Conti-Brand	Continental Grain Company	Delano, CA 93216
Co-op	Farmland Industries Inc.	Kansas City, MO 64116
Corn King	Malcolm H. Grieve	Pierson, IA 51048
Curry	Curry Seed Company	Elk Point, S. D. 57025
Custom Farm Seed	Customaize	Momence, IL 60954
DeKalb	DeKalb AgResearch Inc.	Fremont, NE 68025
Embro	Ramy Seed Company	Mankato, MN 56001
Federal	Federal Hybrids	Marion, IA 52302
Fontanelle	Fontanelle Hybrids	Nickerson, NE 68044
Frundt	Frundt Seed Company	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
Gutwein	Fred Gutwein & Sons Inc.	Francesville, IN 47946
Hoegmeyer	Hoegemyer Hybrids, Inc.	Hooper, NE 68031
Horizon	Horizon Seeds, Inc.	Lincoln, NE 68501
Jacques	Jacques Seed Company	Prescott, WS 54021
Kaltenberg	Kaltenberg Seeds	Waunkakee, WI 53597
Keltgen	Keltgen Seed Company	Olivia, MN 56277
Lynks	Lynks	Marshalltown, IA 50158
McCurdy	McCurdy Seed Company	Fremont, IA 52561
MFA	MFA Seed Division	Columbia, MO 65201
Migro-Tekseed	North American Plant Breeders	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
Pacific Oilseeds	Pacific Oilseeds Incorporated	Woodland, CA 95695
Payco	Payco Seeds	Dassel, MN 55325
Pfister	Pfister Hybrid Corn Company	El Paso, IL 61738
Pioneer	Garst & Thomas Hybrid Corn Co.	Coon Rapids, IA 50058
Priaire Stream	Prairie Stream Farms, Inc.	Frankfort, IN 46041
Prairie Valley	Prairie Valley, Inc.	Phillips, NE 68865
RBA	Rauenharst Bellows & Assoc.	Olivia, MN 56277
Sokota	Sokota Hybrid Producers	Brookings, S. D. 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 68801
Weathermaster	Weathermaster Seeds	Scott City, KS 67871
Wilson	Wilson Hybrids, Inc.	Harlan, IA 51537
Winterset	Winterset Hybrid Co.	Winterset, IA 50273

Results

Data tables for each zone are shown in sections. The 1979 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 vary with location within zones. Variety x location interactions were highly significant in the Zone I Nonirrigated, Zone II Irrigated, Southwest Ecofallow, and Early Ecofallow trials. They were significant in the Zone IV Irrigated and nonsignificant in the Zone II Nonirrigated trials. In zone analyses, the hybrid x location interaction mean square was used to test the significance of hybrid differences.

The correlation or r values for the relationship between moisture and yield for each 1979 experiment is shown in Table B. Higher grain moisture was significantly related to higher yield at 10 locations. Lower grain moisture was related to higher yield at three locations and thre was no significant relationship at four 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. 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

Two trials were harvested in Southeast Nebraska (Table 1a). Yields were high and low harvest moistures. Higher grain moisture tended to be related to higher grain yield. Broken plant and dropped ear counts were low.

Production in hybrids in trials since 1975 is shown in Tables 1b and 1c. This was a period of favorable years for corn production. Sixteen hybrids tested for five years produced an average yield of 108 (6780) bushels per acre (kg/ha). Yearly average yields of these 16 hybrids were as follows: 1975 76 (4770), 1976 102 (6400), 1977 78 (4900), 1978 131 (8220), and 1979 153 (9610) bushels per acre (kg/ha). Relative hybrid performance has been fairly consistent.

Zone II Nonirrigated

Trials were located in Dodge and Colfax Counties (Table 2a). Early August moisture stress reduced yields at both locations. This was most severe in Colfax County. Grain moistures were higher than in Zone I trials. Higher moisture at harvest tended to be accompanied by higher yield.

Period-of-years data for this zone are given in Tables 2b and 2c. Yields were high and relative hybrid performance was consistent. Seasonal performance of 13 hybrids varied greatly as follows: 1975 62 (3890), 1976 48 (3010), 1977 108 (6780), 1978 139 (8730), and 1979 118 (7410) bushels per acre (kg/ha). The five year average yield was 95 (5960) bushels per acre (kg/ha).

Zone II Irrigated

Three trials were harvested in this zone (Table 3a). Yields were highest in Frontier County. Stalk rot readings were taken in Clay and Buffalo Counties. Stalk rot averaged 20.4% in Clay and 53.7% in Buffalo County. A fall wind and snow storm before harvest caused excessive stalk breakage in Buffalo County. Broken plants averaged 44.5% in Buffalo, 9.5% in Clay and 4.6% in Frontier County. Higher yields were associated with higher grain moisture.

Performance in Zone II irrigated trials since 1975 is shown in Tables 3b, 3c, and 3d. Yearly annual yields of 24 hybrids over the five-year period were as follows: 1975 180 (11 300), 1976 170 (10 670), 1977 174 (10 920), and 1979 174 (10 920) bushels per acre (kg/ha).

Zone III Nonirrigated Northeast

Exceptional yields were produced in Dixon County (Table 4a). Late August rainfall was heavy and corn maturity was delayed. Higher moisture hybrids were highest in yield. Broken plant and dropped ear counts were low.

Period-of-years yield and other data are shown in Tables 4b and 4c. Yearly yield performance varied greatly as follows for four hybrids: 1974 59 (3700), 1975 96 (6030), 1977 97 (6090), 1978 119 (7470) and 1979 170 (10 670) bushels per acre (kg/ha). The 1976 crop was a complete failure because of drouth. Under this wide range of conditions, hybrid performance over seasons was variable. Relative hybrid performance in 1978-1979 was consistent. However, early hybrids were highest in yield in 1977 and hybrid differences in three-, four-, and five-year averages lack significance.

Zone III Irrigated Northeast

An excellent average yield was obtained under center pivot irrigation in Madison County (Table 5a). Broken plant and dropped ear counts were low. Grain moisture ranged from 14.7% to 24.6%. There was a close relationship between higher grain moisture and higher yield indicating that later hybrids were most productive.

Two-, three-, and four-year data from this area are shown in Tables 5b and 5c. These trials were located on a range of soil types. Average yearly yields of 10 hybrids tested for four years were as follows: 1976 136 (8540), 1977 169 (10 610), 1978 136 (8540), and 1979 183 (11 490) bushels per acre (kg/ha). Later maturing hybrids generally were highest in yield.

Southwest Ecofallow

These trials were planted in wheat stubble from the 1978 crop. Seasonal rainfall was much above normal and high yields were obtained in Lincoln and Frontier Counties (Table 6a). Later hybrids were favored in Frontier County but not in Lincoln County.

Two-, and three-year average performance data are included in Table 6b. Because of variations in conditions between locations within years and over years, relative hybrid performance has been inconsistent. Later hybrids generally performed best under high yield situations and earlier hybrids best under greater moisture stress, in these trials.

Zone III Irrigated Central

An experiment in Logan County was hailed and no data were obtained. Data from a trial in Brown County are shown in Table 7a. A severe rain and wind storm in late July caused severe stalk breakage on some entries. This is shown as early stalk breakage. Major differences between hybrids were observed. Stage of maturity or growth rate at this stage may be involved. Yields of some entries were greatly reduced. This type of storm represents an abnormal situation. These data are not being included in period-of-years averages.

Two-, three-, four-, and five-year data from this zone are shown in Table 7b. Trials were conducted over a wide area of soil types and environmental conditions and hybrid performance over years has not been consistent. Earlier-maturing hybrids were highest in yield in 1974 and 1976. Later maturity favored higher yields in 1975, 1977 and 1978.

Zone IV Irrigated

Two trials were harvested in the Panhandle (Table 8a). Yields were high in Scotts Bluff County and higher grain moisture was accompanied by higher grain yields. In Box Butte County, yields were lower and there was little correlation of maturity with yield.

Period-of-years data for this zone are shown in Table 8b. Relative performance of hybrids was similar in 1978 and 1979. Hybrid yield differences were nonsignificant in three-, four-, and five-year averages. Only three hybrids were included in five-year averages. Their average yield by years was as follows: 1975 119 (7470), 1976 142 (8910), 1977 166 (10 420), 1978 130 (8160), and 1979 146 (9170) bushels per acre (kg/ha).

Ecofallow Early Entries

This trial was designed to test some of the earlier hybrids under ecofallow. Soil temperatures under ecofallow are cooler than with conventional tillage. These tests represent an attempt to measure hybrid adaptation to those conditions.

The trial in Dundy County was under severe drouth stress, plot variability was high and yields are not reported. Data for trials in Cheyenne, Lincoln and Custer Counties are shown in Table 9a. High yields were obtained in Lincoln and Custer Counties. These was a negative correlation of harvest moisture and grain yield of all locations indicating that higher grain moisture was associated with lower yield.

Period-of-years yield data are shown in Table 9b. Conditions at locations within years and over years varied greatly. Average yields by years for two hybrids were as follows: 1977 91 (5710), 1978 29 (1820), and 1979 68 (4270) bushels per acre (kg/ha).

TABLE 1a. ZONE 1a. ZONE I NONIRRIGATED. SUMMARY. 1979.

		YIELD				1979 AVERAGE		
BRAND	HYBRID	AVERAGE BU/A	AVERAGE KG/HA	RICHARDSON COUNTY BU/A	OTOE COUNTY BU/A	MOISTURE	BROKEN PLANTS	DROPPED EARS
-----	NEBR. 611	158	(9920)	164	152	15	0	0
-----	NEBR. 612	145	(9100)	155	135	15	5	1
-----	NEBR. 714	161	(10110)	187	134	15	2	0
-----	NEBR. 715	152	(9540)	164	140	15	0	0
ACCC	U 393	157	(9860)	172	142	17	3	1
ACCC	UC 7951	165	(10360)	174	156	17	1	0
ACCC	UC 8201	168	(10550)	184	152	15	1	0
ACCC	UC 8951	159	(9980)	167	151	19	2	0
ASGROW	RX 777	158	(9920)	158	157	16	1	0
ASGROW	RX 90	161	(10110)	166	155	15	0	0
ASGROW	RX 901	157	(9860)	168	146	14	5	0
ASGROW	RX 909	156	(9790)	163	148	17	0	0
BC-JAC	56	174	(10920)	183	164	15	2	0
BC-JAC	56A	171	(10740)	182	160	16	2	0
BC-JAC	562	160	(10040)	170	150	17	1	0
BC-JAC	69	163	(10230)	173	153	15	2	0
CARGILL	934	149	(9350)	156	142	14	1	0
CARGILL	949	160	(10040)	167	152	15	1	0
CARGILL	967	178	(11170)	192	163	15	1	0
CENEX	2371	162	(10170)	170	153	15	2	0
CENEX	2380	151	(9480)	154	147	16	1	0
CO-OP	2260	136	(8540)	138	134	13	0	0
CO-OP	2300	152	(9540)	159	144	15	1	1
CO-OP	2318	148	(9290)	158	137	17	2	1
CONTI-BRAND	CG-5450	162	(10170)	165	158	15	1	0
DEKALB	XL71	154	(9670)	168	139	15	2	0
DEKALB	XL72AA	161	(10110)	172	150	15	2	1
DEKALB	XL72B	146	(9170)	151	140	15	1	1
DEKALB	XL75	155	(9730)	170	140	15	2	0
EMBRO	X 36	136	(8540)	143	129	13	1	0
EMBRO	X 45	145	(9100)	158	131	13	1	0
EMBRO	X 60	163	(10230)	169	156	15	1	0
EMBRO	X 600	150	(9420)	154	145	16	2	1
FONTANELLE	580	159	(9980)	161	156	15	0	2
FONTANELLE	590	156	(9790)	163	148	14	0	0
FONTANELLE	660	149	(9350)	159	138	18	2	0
FUNK'S	G-4583	160	(10040)	167	152	15	2	0
FUNK'S	G-4606	149	(9350)	164	133	15	2	0
GOLD TAG	GT 3020	155	(9730)	164	146	15	1	0
GOLD TAG	GT 3030	153	(9610)	157	148	15	2	0
GOLD TAG	GT 4020	141	(8850)	159	122	16	2	0
GOLDEN ACRES	T-E 6995	148	(9290)	154	142	15	0	0
GOLDEN ACRES	T-E 6995-A	159	(9980)	165	152	15	2	0
GUTHEIN	2910	168	(10550)	186	150	17	1	0
GUTHEIN	62	153	(9610)	165	140	15	2	0
HOEGEMEYER	SX2675	165	(10360)	171	159	15	1	0
HOEGEMEYER	SX2840	165	(10360)	168	162	17	3	0
HORIZON	861	154	(9670)	166	142	15	3	0
HORIZON	870	162	(10170)	165	159	16	0	0
JACOBS	JX180	148	(9290)	158	138	15	1	0
JACOBS	JX247	167	(10480)	175	158	17	2	1
KELTGEN	KS115	164	(10300)	169	158	15	2	0
KELTGEN	KS119	155	(9730)	153	156	15	3	1
KELTGEN	KT119	155	(9730)	163	147	15	1	0
LYNKS	LX 4330	159	(9980)	168	150	15	1	0
LYNKS	LX 4370	163	(10230)	179	147	15	1	0
LYNKS	LX 4500	170	(10670)	178	161	18	1	1
MCCURDY	MSX 84	158	(9920)	162	153	15	2	0
MCCURDY	MSX 84AA	168	(10550)	180	156	18	0	1
MCCURDY	744C	163	(10230)	172	154	15	5	0
MCCURDY	78-52	177	(11110)	185	169	17	3	0
MFA	4306	142	(8910)	145	139	13	0	0
MFA	5104	148	(9290)	152	143	14	1	0
MFA	5802	156	(9790)	166	146	15	2	0
MFA	5903	147	(9230)	153	140	15	2	1
MIGRO-TEKSEED	HP 61	142	(8910)	150	133	15	4	0
MIGRO-TEKSEED	MO707	158	(9920)	171	144	17	0	0
MIGRO-TEKSEED	SPX 71	155	(9730)	162	148	18	0	0
MIGRO-TEKSEED	SPX 77	166	(10420)	172	159	18	0	0

CONTINUED

TABLE 1a. CONCLUDED.

		YIELD				1979 AVERAGE		
BRAND	HYBRID	AVERAGE BU/A	AVERAGE KG/HA	RICHARDSON COUNTY BU/A	OTOE COUNTY BU/A	MOISTURE	BROKEN PLANTS	DROPPED EARS
NC+	X5950	143	(8980)	148	137	14	2	0
NC+	59	166	(10420)	172	160	15	2	1
NC+	85	153	(9610)	160	145	17	1	0
NORTHRUP KING	PX72	160	(10040)	164	155	15	3	0
NORTHRUP KING	PX74	160	(10040)	170	150	15	0	0
NORTHRUP KING	PX87	166	(10420)	179	152	17	1	0
O'S GOLD	SX3344	165	(10360)	167	163	15	2	0
O'S GOLD	SX5500A	166	(10420)	173	159	15	1	0
P-A-G	SX 351	173	(10860)	185	161	15	0	0
P-A-G	SX 333	168	(10550)	174	161	15	0	0
P-A-G	SX 373	149	(9350)	164	134	16	2	0
PACIFIC OILSEEDS	POI-81	165	(10360)	169	161	15	0	0
PACIFIC OILSEEDS	POI-85	159	(9980)	170	148	17	0	0
PACIFIC OILSEEDS	POI-88	169	(10610)	176	162	18	1	0
PACIFIC OILSEEDS	POI-89	178	(11170)	188	167	16	2	0
PAYCO	SX990	147	(9230)	152	142	15	2	0
PFISTER	75	160	(10040)	171	149	15	1	0
PIONEER	3090	144	(9040)	157	131	17	3	0
PIONEER	3183	167	(10480)	189	145	17	1	0
PIONEER	3382	148	(9290)	156	140	14	2	0
PRAIRIE VALLEY	37S	161	(10110)	167	154	15	2	0
PRAIRIE VALLEY	76S	155	(9730)	169	140	15	2	0
PRAIRIE VALLEY	795	153	(9610)	173	132	16	0	0
PRAIRIE VALLEY	818	165	(10360)	172	157	17	3	1
RBA	SUPER 14	151	(9480)	157	144	16	3	0
RBA	114	150	(9420)	153	147	15	3	1
STEWART	6573	159	(9980)	168	149	19	4	1
STEWART	77	152	(9540)	157	146	17	1	0
SUPER CROST	5330	152	(9540)	161	142	15	0	1
SUPER CROST	5440	147	(9230)	157	136	15	1	0
SUPER CROST	6800	141	(8850)	154	128	16	1	0
SUPER CROST	78002	156	(9790)	158	153	18	2	0
TODD	MX73	155	(9730)	163	146	16	1	0
TODD	MX73A	156	(9790)	163	148	15	1	1
TODD	M83	150	(9420)	155	145	17	3	0
TODD	M95	161	(10110)	171	151	16	1	0
TROJAN	TXS115A	151	(9480)	162	139	15	2	0
TROJAN	TXS119	154	(9670)	156	151	18	2	0
TROJAN	T1189	147	(9230)	159	135	15	0	0
WEATHER MASTER	EPX 788	132	(8290)	135	128	16	5	0
WEATHER MASTER	EPX 888	142	(8910)	151	133	15	1	0
WEATHER MASTER	EPX 973	150	(9420)	166	134	17	1	0
WILSON	1040	152	(9540)	158	146	15	0	0
WILSON	1800	156	(9790)	158	153	15	2	0
WILSON	1800A	152	(9540)	165	139	17	2	0
WINTERSET	CB66	156	(9790)	162	150	15	5	0
WINTERSET	CB68	170	(10670)	187	153	15	0	1
AVERAGE ALL ENTRIES		156.6	(9831)	165.2	147.4	15.6	1.5	0.2
DIF. REQ. FOR SIG.	5%	13.0	(816)	15.5	14.5	1.5	N.S.	N.S.
	25%	7.6	(477)	9.2	8.5	0.9	N.S.	N.S.

TABLE 1b. ZONE I NONIRRIGATED. 1978-1979.

BRAND	HYBRID	YIELD BU/A	YIELD KG/HA	PCT MOISTURE	PCT BROKEN	PCT DROPPED
		2 YEAR AVERAGE				
-----	NEBR. 611	145	(9100)	15.7	5	0
-----	NEBR. 612	136	(8540)	15.4	5	0
-----	NEBR. 714	147	(9230)	15.3	4	2
-----	NEBR. 715	145	(9100)	15.9	2	1
ACCO	J 393	145	(9100)	17.3	6	3
ACCO	UC 8201	150	(9420)	15.5	4	1
ASGROW	RX 90	149	(9350)	15.4	5	2
BO-JAC	56	153	(9610)	15.7	5	1
BO-JAC	69	151	(9480)	14.9	6	2
CARGILL	949	146	(9170)	15.5	5	3
CENEX	2371	145	(9100)	14.9	6	0
CENEX	2380	140	(8790)	15.7	5	1
CO-OP	2260	126	(7910)	13.7	4	3
CO-OP	2300	140	(8790)	15.3	6	2
CO-OP	2318	135	(8480)	17.8	4	1
CONTI-BRAND	CG-5450	149	(9350)	15.3	3	1
DEKALB	XL72AA	144	(9040)	15.3	3	1
DEKALB	XL72B	139	(8730)	15.8	5	2
DEKALB	XL75	142	(8910)	15.7	3	1
FONTANELLE	580	144	(9040)	15.7	3	2
FONTANELLE	590	144	(9040)	14.9	7	2
FONTANELLE	660	139	(8730)	18.1	5	1
FUNK'S	G-4583	143	(8980)	15.8	4	2
FUNK'S	G-4606	139	(8730)	15.3	4	0
GOLD TAG	GT 3030	146	(9170)	15.2	15	2
GOLD TAG	GT 4020	135	(8480)	16.9	5	1
GOLDEN ACRES	T-E 6995-A	144	(9040)	15.0	6	2
GUTWEIN	62	142	(8910)	15.3	6	1
HORIZON	861	146	(9170)	15.6	9	0
HORIZON	870	145	(9100)	15.7	4	0
KELTGEN	KS115	149	(9350)	15.7	6	2
KELTGEN	KS119	144	(9040)	15.1	6	3
LYNKS	LX 4330	145	(9100)	15.4	4	1
LYNKS	LX 4370	142	(8910)	15.2	3	0
MCCURDY	MSX 84	148	(9290)	15.6	7	3
MFA	5802	144	(9040)	15.8	6	3
MFA	5903	137	(8600)	15.4	6	3
MIGRO-TEKSEED	SPX 71	147	(9230)	17.8	5	2
MIGRO-TEKSEED	SPX 77	147	(9230)	17.7	3	2
NC+	59	147	(9230)	15.5	7	2
NC+	85	142	(8910)	17.9	7	0
NORTHRUP KING	PX74	146	(9170)	15.3	3	3
O'S GOLD	SX3344	150	(9420)	15.7	6	1
P-A-G	SX 333	147	(9230)	15.4	6	3
PFISTER	75	153	(9610)	15.4	4	1
PIONEER	3183	156	(9790)	17.6	4	1
PIONEER	3382	138	(8660)	15.0	6	1
PRAIRIE VALLEY	37S	149	(9350)	15.5	8	1
PRAIRIE VALLEY	76S	144	(9040)	15.3	5	3
PRAIRIE VALLEY	818	150	(9420)	17.2	6	0
SUPER CROST	5330	139	(8730)	15.1	5	2
SUPER CROST	5440	139	(8730)	15.4	5	1
SUPER CROST	6800	133	(8350)	16.9	5	1
TODD	MX73	138	(8660)	16.4	5	3
TODD	MX73A	141	(8850)	15.4	5	1
TROJAN	TXS115A	140	(8790)	15.6	5	1
TROJAN	TXS119	141	(8850)	18.5	7	0
WEATHER MASTER	EPX 888	134	(8410)	15.7	8	0
WILSON	1040	136	(8540)	15.3	12	1
WILSON	1800	138	(8660)	15.6	3	2
WILSON	1800A	143	(8980)	17.5	5	2
AVERAGE ALL ENTRIES		143.3	(8996)	15.8	5.4	1.5
DIF. REQ. FOR SIG. 5%		10.6	(665)	0.6	N.S.	N.S.
25%		6.1	(383)	0.4	N.S.	N.S.

TABLE 1c. ZONE I NONIRRIGATED. 1975-1979.

BRAND	HYBRID	YIELD BU/A	YIELD KG/HA	PCT MOISTURE	PCT BROKEN	PCT DROPPED
		3 YEAR AVERAGE				
-----	NEBR. 611	122	(7660)	16.9	7	1
-----	NEBR. 612	116	(7280)	17.0	5	0
-----	NEBR. 714	123	(7720)	17.1	4	2
ASGROW	RX 90	126	(7910)	16.7	5	3
BO-JAC	56	129	(8100)	17.1	5	2
CARGILL	949	125	(7850)	16.6	5	3
CENEX	2380	117	(7350)	16.8	4	2
CO-OP	2300	117	(7350)	16.5	5	2
CO-OP	2318	118	(7410)	19.1	6	2
FONTANELLE	580	118	(7410)	16.8	2	2
FONTANELLE	590	124	(7780)	15.3	7	3
FONTANELLE	660	123	(7720)	19.3	6	2
GUTWEIN	62	118	(7410)	16.6	4	1
LYNKS	LX 4330	123	(7720)	16.6	4	2
LYNKS	LX 4370	118	(7410)	16.9	3	2
MCCURDY	MSX 84	124	(7780)	16.7	6	3
MFA	5802	121	(7600)	16.9	6	3
MFA	5903	114	(7160)	15.7	5	3
MIGRO-TEKSEED	SPX 77	129	(8100)	18.8	5	4
NC+	59	121	(7600)	16.7	6	3
NC+	85	123	(7720)	19.1	8	2
NORTHRUP KING	PX74	120	(7530)	16.5	4	3
O'S GOLD	SX3344	130	(8160)	17.1	10	2
PFISTER	75	132	(8290)	15.5	4	2
PIONEER	3183	129	(8100)	19.0	4	1
PIONEER	3382	118	(7410)	16.1	5	1
PRAIRIE VALLEY	37S	131	(8220)	15.8	10	1
PRAIRIE VALLEY	76S	121	(7600)	16.6	5	2
SUPER CROST	5440	116	(7280)	16.3	4	3
SUPER CROST	6800	112	(7030)	18.2	5	3
TROJAN	TXS115A	115	(7220)	16.7	5	3
TROJAN	TXS119	121	(7600)	19.4	6	1
WEATHER MASTER	EPX 888	114	(7160)	16.8	6	1
AVERAGE ALL ENTRIES		121.5	(7628)	17.2	5.3	2.1
DIF. REQ. FOR SIG. 5%		9.5	(596)	0.6	N.S.	N.S.
25%		5.5	(345)	0.4	N.S.	N.S.
		4 YEAR AVERAGE				
-----	NEBR. 611	118	(7410)	17.4	6	1
-----	NEBR. 612	111	(6970)	17.3	4	0
-----	NEBR. 714	118	(7410)	17.8	3	1
ASGROW	RX 90	121	(7600)	17.5	4	2
CARGILL	949	120	(7530)	17.5	4	3
CENEX	2380	116	(7280)	17.4	4	2
CO-OP	2300	113	(7090)	17.3	4	1
CO-OP	2318	113	(7090)	19.7	5	2
FONTANELLE	590	117	(7350)	16.7	5	3
FONTANELLE	660	117	(7350)	19.7	5	2
MCCURDY	MSX 84	119	(7470)	17.7	4	2
NC+	59	119	(7470)	17.4	5	2
NC+	85	117	(7350)	19.8	6	2
O'S GOLD	SX3344	125	(7850)	17.7	8	1
PIONEER	3183	123	(7720)	18.9	3	1
PRAIRIE VALLEY	76S	115	(7220)	17.4	4	2
SUPER CROST	5440	115	(7220)	17.3	3	2
TROJAN	TXS115A	112	(7030)	17.5	4	2
TROJAN	TXS119	114	(7160)	19.9	5	0
WEATHER MASTER	EPX 888	111	(6970)	17.6	5	1
AVERAGE ALL ENTRIES		116.8	(7333)	18.0	4.6	1.6
DIF REQ. FOR SIG. 5%		8.1	(509)	0.9	N.S.	N.S.
25%		4.7	(295)	0.4	N.S.	1.0
		5 YEAR AVERAGE				
-----	NEBR. 611	110	(6910)	17.9	5	1
-----	NEBR. 612	102	(6400)	18.0	3	0
ASGROW	RX 90	114	(7160)	18.1	4	3
CARGILL	949	112	(7030)	18.2	3	3
CO-OP	2300	105	(6590)	17.8	4	1
CO-OP	2318	105	(6590)	20.3	4	2
FONTANELLE	590	109	(6840)	17.3	5	3
FONTANELLE	660	109	(6840)	20.4	5	2
MCCURDY	MSX 84	111	(6970)	18.1	4	3
NC+	59	111	(6970)	18.2	4	2
NC+	85	107	(6720)	20.6	6	2
PRAIRIE VALLEY	76S	109	(6840)	18.0	4	2
SUPER CROST	5440	109	(6840)	17.9	4	3
TROJAN	TXS115A	103	(6470)	18.1	3	2
TROJAN	TXS119	106	(6650)	20.5	4	1
WEATHER MASTER	EPX 888	105	(6590)	18.1	4	1
AVERAGE ALL ENTRIES		107.9	(6774)	18.6	4.1	1.9
DIF. REQ. FOR SIG. 5%		6.9	(433)	0.6	N.S.	1.6
25%		4.0	(251)	0.4	N.S.	1.0

TABLE 2a. ZONE II NONIRRIGATED. SUMMARY. 1979.

		YIELD				1979 AVERAGE		
BRAND	HYBRID	AVERAGE BU/A	AVERAGE KG/HA	DODGE BU/A	COLFAX BU/A	MOISTURE	BROKEN PLANTS	DROPPED EARS
-----	NEBR. 611	109	(6840)	117	100	17	5	0
-----	NEBR. 714	124	(7780)	131	116	21	6	0
-----	NEBR. 715	114	(7160)	124	103	22	2	0
ACCC	U 390	110	(6910)	115	104	18	6	4
ACCC	UC 7951	111	(6970)	118	104	21	6	1
ACCC	UC 8201	131	(8220)	140	121	19	1	1
ACCC	UC 8951	121	(7600)	132	109	22	3	4
ASGROW	RX 90	117	(7350)	125	108	19	3	1
BC-JAC	432	119	(7470)	123	115	16	1	1
BC-JAC	56	123	(7720)	132	113	20	3	1
BC-JAC	562	128	(8040)	138	118	22	5	1
CARGILL	921	121	(7600)	127	115	16	3	1
CARGILL	922	122	(7660)	130	114	16	4	1
CARGILL	924	114	(7160)	120	108	16	4	1
CARGILL	967	128	(8040)	143	113	19	2	1
CENEX	2371	113	(7090)	126	100	19	3	0
CENEX	2380	116	(7280)	127	104	19	2	1
CC-CP	2260	111	(6970)	117	104	15	2	0
CC-CP	2300	121	(7600)	133	109	19	2	1
CC-CP	2318	115	(7220)	125	104	23	3	1
CONTI-BRAND	CG-5450	122	(7660)	132	112	19	4	2
CORN KING	1148	126	(7910)	135	117	21	6	2
CURRY	SC-150	129	(8100)	132	125	19	3	0
CURRY	SC-1505	124	(7780)	135	113	18	4	3
CURRY	SC-158	125	(7850)	134	115	24	3	1
CURRY	TC-360	115	(7220)	122	107	19	4	1
DEKALB	XL62AA	114	(7160)	116	112	17	3	0
DEKALB	XL63	117	(7350)	129	104	18	3	1
DEKALB	XL72AA	124	(7780)	137	111	19	3	1
DEKALB	XL75	111	(6970)	127	95	22	2	0
EMBRO	X 500	114	(7160)	123	104	17	4	1
EMBRO	X 57	106	(6650)	111	101	17	3	1
EMBRO	X 60	125	(7850)	134	115	19	2	1
EMBRO	X 600	113	(7090)	126	99	21	4	0
FONTANELLE	580	115	(7220)	124	106	20	2	2
FONTANELLE	590	110	(6910)	124	96	17	2	0
FUNK'S	G-4507	126	(7910)	136	116	20	0	0
FUNK'S	G-4583	116	(7280)	122	110	18	4	2
GOLD TAG	GT 2060	110	(6910)	109	110	16	2	1
GOLD TAG	GT 3020	118	(7410)	127	109	20	2	2
GOLD TAG	GT 3030	107	(6720)	112	101	19	6	1
GOLDEN ACRES	T-E 6995	114	(7160)	125	103	20	6	1
GOLDEN ACRES	T-E 6995-A	120	(7530)	132	108	18	1	1
GUTWEIN	2875	119	(7470)	128	109	23	9	4
GUTWEIN	62	114	(7160)	123	105	20	3	1
HOEGEMEYER	SX2644	121	(7600)	128	113	19	3	0
HOEGEMEYER	SX2649	110	(6910)	117	102	17	4	2
HORIZON	555	108	(6780)	120	95	19	5	4
HORIZON	870	124	(7780)	136	111	20	3	0
JACOBES	JX180	112	(7030)	121	102	20	4	2
KAUTENBERG	KX68	109	(6840)	112	105	15	2	1
KAUTENBERG	KX76	120	(7530)	131	109	20	4	1
KEUTGEN	KS115	123	(7720)	132	113	20	4	4
KEUTGEN	KS119	110	(6910)	124	95	18	3	1
LYNKS	LX 4375	109	(6840)	118	100	18	2	0
MCCURDY	MSX 60	110	(6910)	120	99	18	5	2
MCCURDY	MSX 65	121	(7600)	126	115	19	3	0
MCCURDY	MSX 70	111	(6970)	118	103	19	4	1
MCCURDY	MSX 84	123	(7720)	133	113	19	3	1
MIGRO-TEKSEED	HP 44	121	(7600)	130	112	19	2	3
MIGRO-TEKSEED	SPX 34	126	(7910)	140	112	20	0	1
MIGRO-TEKSEED	SPX 36	117	(7350)	131	103	18	3	0
MIGRO-TEKSEED	SPX 71	124	(7780)	132	116	21	5	1
NC+	X5950	113	(7090)	120	105	18	0	0
NC+	59	126	(7910)	138	113	20	2	1
NORTHRUP KING	PX69A	104	(6530)	111	96	16	3	1
NORTHRUP KING	PX72	131	(8220)	141	120	20	4	3
NORTHRUP KING	PX74	126	(7910)	132	119	19	2	0

CONTINUED

TABLE 2a. CONCLUDED.

		YIELD				1979 AVERAGE		
BRAND	HYBRID	AVERAGE BU/A	AVERAGE KG/HA	DODGE BU/A	COLFAX BU/A	MOISTURE	BROKEN PLANTS	DROPPED EARS
P-A-G	SX 333	129	(8100)	142	116	19	4	1
P-A-G	SX 373	122	(7660)	134	110	22	1	1
PACIFIC OILSEEDS	POI-33	106	(6650)	112	100	15	3	0
PACIFIC OILSEEDS	POI-37	114	(7160)	114	114	16	2	1
PACIFIC OILSEEDS	POI-414	123	(7720)	137	108	19	3	1
PACIFIC OILSEEDS	POI-84	117	(7350)	125	108	18	6	1
PAYCO	SX990	115	(7220)	117	112	19	3	2
PFISTER	75	128	(8040)	138	117	20	4	2
PIONEER	3382	116	(7280)	126	105	19	3	0
PIONEER	3388	112	(7030)	116	108	18	3	1
PIONEER	3575	109	(6840)	113	105	16	3	3
PIONEER	3720	111	(6970)	115	106	15	2	1
PRAIRIE VALLEY	389	108	(6780)	108	108	15	2	1
PRAIRIE VALLEY	756	119	(7470)	124	113	20	1	1
PRAIRIE VALLEY	76S	122	(7660)	131	113	19	4	2
PRAIRIE VALLEY	767	121	(7600)	129	113	19	2	0
RBA	SUPER 4	118	(7410)	121	115	19	6	0
RBA	114	121	(7600)	130	112	18	5	1
RBA	120	120	(7530)	131	108	22	3	2
STEWART	6573	120	(7530)	132	107	23	7	3
STEWART	77	118	(7410)	124	111	22	4	1
SUPER CROST	533C	112	(7030)	121	103	18	2	0
SUPER CROST	544C	123	(7720)	132	114	19	2	1
SUPER CROST	68CC	102	(6400)	108	96	21	4	0
SUPER CROST	78002	125	(7850)	136	114	21	3	0
TCCC	MX73	117	(7350)	125	109	20	4	3
TCCC	MX73A	114	(7160)	122	106	20	4	2
TCCC	M83	110	(6910)	125	94	20	6	1
TROJAN	TXS115A	116	(7280)	128	103	20	2	1
TROJAN	T1058	96	(6030)	99	92	16	1	0
TROJAN	T1108	95	(5960)	101	89	16	5	2
TROJAN	T1189	112	(7030)	118	106	21	2	0
WILSON	104C	115	(7220)	117	112	18	3	0
WILSON	18CC	121	(7600)	135	107	20	5	1
WILSON	18CCA	116	(7280)	125	106	21	4	1
WILSON	1812	115	(7220)	121	109	18	7	1
WINTERSET	CB66	120	(7530)	128	112	19	5	2
WINTERSET	CB88	114	(7160)	129	98	22	3	1
AVERAGE ALL ENTRIES		116.9	(7339)	125.5	107.9	19.0	3.3	1.1
DIF. REQ. FOR SIG.	5%	10.0	(628)	11.8	9.4	2.2	3.7	N.S.
	25%	5.9	(370)	6.9	5.5	1.3	2.2	N.S.

TABLE 2b. ZONE II NONIRRIGATED. 1978-1979.

BRAND	HYBRID	YIELD BU/A	YIELD KG/HA	PCT MOISTURE	PCT BROKEN	PCT DROPPED
		2 YEAR AVERAGE				
-----	NEBR. 611	120	(7530)	19.2	3	0
-----	NEBR. 714	134	(8410)	21.8	4	0
-----	NEBR. 715	130	(8160)	22.1	2	0
ACCO	UC 8201	141	(8850)	20.6	1	1
ACCO	UC 8951	131	(8220)	23.7	2	3
ASGROW	RX 90	130	(8160)	20.1	2	1
BO-JAC	56	135	(8480)	21.2	1	1
CARGILL	924	123	(7720)	17.8	2	1
CENEX	2371	124	(7780)	19.1	2	0
CENEX	2380	128	(8040)	20.6	1	0
CO-OP	2260	120	(7530)	15.8	2	0
CO-OP	2300	134	(8410)	20.7	2	1
CO-OP	2318	127	(7970)	24.3	2	1
CONTI-BRAND	CG-5450	134	(8410)	20.4	2	1
CURRY	SC-150	137	(8600)	20.6	2	0
DEKALB	XL62AA	122	(7660)	18.8	2	1
DEKALB	XL63	123	(7720)	19.6	2	0
DEKALB	XL72AA	132	(8290)	20.5	2	1
FONTANELLE	580	126	(7910)	21.1	2	1
FONTANELLE	590	125	(7850)	19.1	2	0
FUNK'S	G-4507	136	(8540)	20.7	0	1
FUNK'S	G-4583	125	(7850)	20.2	2	1
GOLD TAG	GT 3030	122	(7660)	20.2	5	0
GOLDEN ACRES	T-E 6995	130	(8160)	21.2	3	1
GUTWEIN	62	126	(7910)	20.6	2	1
HORIZON	555	122	(7660)	20.1	3	2
HORIZON	870	133	(8350)	21.0	2	0
KALTENBERG	KX68	119	(7470)	16.1	1	1
KALTENBERG	KX76	135	(8480)	21.2	2	0
KELTGEN	KS115	137	(8600)	21.6	2	2
KELTGEN	KS119	125	(7850)	19.7	2	1
MCCURDY	MSX 60	125	(7850)	19.1	3	1
MCCURDY	MSX 65	130	(8160)	20.1	1	0
MCCURDY	MSX 70	128	(8040)	20.9	3	0
MIGRO-TEKSEED	SPX 34	130	(8160)	20.8	0	0
MIGRO-TEKSEED	SPX 36	129	(8100)	19.8	2	0
MIGRO-TEKSEED	SPX 71	132	(8290)	22.1	3	1
NC+	59	136	(8540)	21.0	1	1
NORTHRUP KING	PX74	136	(8540)	20.6	2	0
P-A-G	SX 333	139	(8730)	20.3	3	1
PFISTER	75	136	(8540)	20.8	3	2
PIONEER	3382	129	(8100)	20.3	2	0
PIONEER	3388	122	(7660)	19.0	2	1
PIONEER	3575	117	(7350)	17.1	2	2
PRAIRIE VALLEY	76S	136	(8540)	20.7	2	2
SUPER CROST	5330	123	(7720)	19.6	1	0
SUPER CROST	5440	137	(8600)	20.8	2	1
SUPER CROST	6800	118	(7410)	22.3	3	0
TODD	MX73	128	(8040)	21.5	2	1
TODD	MX73A	126	(7910)	20.9	3	1
TROJAN	TXS115A	126	(7910)	21.1	1	1
WILSON	1040	121	(7600)	19.9	4	0
WILSON	1800	130	(8160)	21.0	3	1
WILSON	1800A	133	(8350)	22.4	3	1
WILSON	1812	124	(7780)	19.5	6	1
AVERAGE ALL ENTRIES		128.6	(8074)	20.4	2.2	0.7
DIF. REQ. FOR SIG.	5%	8.6	(540)	1.2	2.0	1.3
	25%	5.0	(314)	0.7	1.2	0.8

TABLE 2c. ZONE II NONIRRIGATED. 1975-1979.

BRAND	HYBRID	YIELD BU/A	YIELD KG/HA	PCT MOISTURE	PCT BROKEN	PCT DROPPED
		3 YEAR AVERAGE				
-----	NEBR. 611	115	(7220)	19.8	4	0
-----	NEBR. 714	127	(7970)	21.8	4	0
BO-JAC	56	126	(7910)	21.2	4	1
CO-OP	2300	125	(7850)	20.7	3	1
CO-OP	2318	120	(7530)	24.6	4	1
FONTANELLE	580	118	(7410)	21.0	3	2
FONTANELLE	590	122	(7660)	20.1	4	2
FUNK'S	G-4507	126	(7910)	20.5	2	2
GUTWEIN	62	119	(7470)	20.9	5	2
KALTENBERG	KX68	112	(7030)	16.7	2	3
KALTENBERG	KX76	126	(7910)	21.2	5	2
MCCURDY	MSX 60	119	(7470)	19.4	5	1
MCCURDY	MSX 65	122	(7660)	20.1	4	1
MCCURDY	MSX 70	121	(7600)	21.4	6	1
MIGRO-TEKSEED	SPX 34	122	(7660)	20.7	2	2
MIGRO-TEKSEED	SPX 36	124	(7780)	20.9	4	2
NC+	59	128	(8040)	21.0	4	2
NORTHRUP KING	PX74	128	(8040)	20.6	4	1
PFISTER	75	126	(7910)	20.5	4	2
PIONEER	3382	121	(7600)	20.5	6	0
PIONEER	3388	116	(7280)	19.6	3	1
PRAIRIE VALLEY	76S	130	(8160)	20.5	4	3
SUPER CROST	5440	127	(7970)	20.5	3	1
SUPER CROST	6800	114	(7160)	23.0	5	1
TODD	MX73	122	(7660)	21.2	4	1
TROJAN	TXS115A	119	(7470)	20.9	3	1
WILSON	1040	117	(7350)	20.6	8	1
WILSON	1800	122	(7660)	20.9	4	2
AVERAGE ALL ENTRIES		121.9	(7653)	20.7	4.0	1.4
DIF. REQ. FOR SIG.	5%	7.3	(458)	1.4	2.8	N.S.
	25%	4.1	(257)	0.8	1.6	N.S.
		4 YEAR AVERAGE				
-----	NEBR. 611	97	(6090)	19.6	5	0
-----	NEBR. 714	108	(6780)	21.6	4	0
BO-JAC	56	107	(6720)	20.8	4	2
CO-OP	2300	108	(6780)	20.0	3	1
FONTANELLE	580	100	(6280)	20.2	2	2
KALTENBERG	KX68	94	(5900)	16.1	2	2
KALTENBERG	KX76	106	(6650)	20.3	4	2
MCCURDY	MSX 60	102	(6400)	18.7	4	1
MCCURDY	MSX 65	104	(6530)	19.1	3	1
MIGRO-TEKSEED	SPX 34	104	(6530)	20.3	3	2
MIGRO-TEKSEED	SPX 36	102	(6400)	20.0	3	2
NC+	59	110	(6910)	20.6	4	2
PIONEER	3388	98	(6150)	18.4	3	1
PRAIRIE VALLEY	76S	111	(6970)	19.6	4	4
SUPER CROST	5440	106	(6650)	20.4	3	2
TODD	MX73	104	(6530)	20.4	3	2
TROJAN	TXS115A	103	(6470)	20.2	3	1
WILSON	1040	100	(6280)	20.0	7	0
AVERAGE ALL ENTRIES		103.5	(6498)	19.8	3.6	1.5
DIF. REQ. FOR SIG.	5%	6.0	(377)	1.3	N.S.	2.1
	25%	3.5	(220)	0.7	1.4	1.2
		5 YEAR AVERAGE				
-----	NEBR. 611	91	(5710)	19.1	4	1
BO-JAC	56	96	(6030)	20.3	3	2
FONTANELLE	580	94	(5900)	19.6	2	2
MCCURDY	MSX 60	92	(5780)	17.9	4	1
MIGRO-TEKSEED	SPX 34	94	(5900)	19.8	2	2
MIGRO-TEKSEED	SPX 36	93	(5840)	19.6	3	2
NC+	59	99	(6220)	20.1	3	2
PIONEER	3388	94	(5900)	17.7	2	0
PRAIRIE VALLEY	76S	103	(6470)	19.2	3	4
SUPER CROST	5440	98	(6150)	19.9	2	2
TODD	MX73	95	(5960)	20.0	3	2
TROJAN	TXS115A	94	(5900)	20.0	3	2
WILSON	1040	93	(5840)	19.4	5	1
AVERAGE ALL ENTRIES		95.1	(5970)	19.4	3.0	1.8
DIF. REQ. FOR SIG.	5%	N.S.		1.1	N.S.	1.9
	25%	4.5	(283)	0.7	1.2	1.1

TABLE 3a. ZONE II IRRIGATED. SUMMARY. 1979.

		YIELD					1979 AVERAGE			
		AVERAGE		CLAY	BUFFALO	FRONTIER		BROKEN	DROPPED	STALK
BRAND	HYBRID	BU/A	KG/HA	BU/A	BU/A	BU/A	MOISTURE	PLANTS	EARS	ROT
-----	NEBR. EXP. 9C59	189	(11870)	177	172	218	17	26	4	51
-----	NEBR. 611	161	(10110)	157	148	177	17	22	4	39
-----	NEBR. 714	168	(10550)	158	168	179	18	24	4	38
-----	NEBR. 715	182	(11430)	173	164	208	18	21	4	39
ACCC	UC 7601	175	(10990)	172	165	187	18	18	3	29
ACGC	UC 7951	160	(10040)	153	146	180	19	26	4	36
ACGC	UC 8201	176	(11050)	182	159	186	18	23	4	40
ACGC	UC 8951	171	(10740)	180	146	187	19	26	5	38
ASGROW	RX 777	189	(11870)	195	182	190	16	13	2	32
ASGROW	RX 90	176	(11050)	183	152	192	17	27	5	50
ASGROW	RX 901	164	(10300)	152	147	194	16	24	4	32
BC-JAC	432	177	(11110)	165	172	193	15	13	3	33
BC-JAC	52A	171	(10740)	156	175	181	17	20	4	39
BC-JAC	56	183	(11490)	193	161	194	18	21	4	37
BC-JAC	562	183	(11490)	182	166	201	19	21	3	49
CARGILL	924	156	(9790)	154	154	161	16	29	4	42
CARGILL	934	170	(10670)	149	181	180	17	19	3	38
CARGILL	949	187	(11740)	178	183	201	17	19	4	40
CARGILL	967	183	(11490)	167	177	204	17	23	4	34
CENEX	2371	170	(10670)	177	157	176	17	26	4	31
CENEX	2380	150	(9420)	136	150	165	17	21	4	30
CC-CP	2260	160	(10040)	144	154	183	14	16	4	33
CC-CP	2300	162	(10170)	149	171	166	17	17	4	38
CC-CP	2318	140	(8790)	141	121	157	19	21	5	41
CONTI-BRAND	CG-5450	173	(10860)	173	162	185	18	19	3	38
CURRY	SC-146	151	(9480)	163	128	162	14	16	3	49
CURRY	SC-150	190	(11930)	187	165	219	17	19	2	41
CURRY	SC-1505	176	(11050)	170	175	183	17	23	4	46
CURRY	SC-158	189	(11870)	190	171	205	21	17	4	25
CUSTOM FARM SEED	CFS WX222	150	(9420)	137	147	165	18	19	4	43
DEKALB	XL362AA	148	(9290)	129	147	167	16	27	5	61
DEKALB	XL71	182	(11430)	161	177	207	18	16	3	38
DEKALB	XL72AA	186	(11680)	179	169	210	18	19	2	45
DEKALB	XL72B	152	(9540)	154	132	170	18	17	3	38
EMBRO	X 57	155	(9730)	148	145	171	17	17	4	28
EMBRO	X 585	162	(10170)	181	147	157	18	16	3	32
EMBRO	X 60	184	(11550)	176	185	190	17	19	3	39
EMBRO	X 600	157	(9860)	142	145	183	19	22	4	34
FEDERAL	FX39	171	(10740)	175	160	178	17	18	4	38
FONTANELLE	580	173	(10860)	171	177	170	17	14	3	19
FONTANELLE	590	178	(11170)	180	171	184	17	17	3	32
FRUNDT	SX14	170	(10670)	168	165	177	18	25	5	50
FRUNDT	SX33A	184	(11550)	194	151	206	19	20	3	39
FUNK'S	G-4507	184	(11550)	183	178	190	18	22	5	41
FUNK'S	G-4520	177	(11110)	158	203	170	17	20	4	34
FUNK'S	G-4606	179	(11240)	176	165	195	18	17	3	36
GOLD TAG	GT 2060	134	(8410)	129	129	143	14	23	5	47
GOLD TAG	GT 3020	163	(10230)	175	164	150	18	16	3	29
GOLD TAG	GT 3030	154	(9670)	142	152	168	17	14	4	29
GOLDEN ACRES	T-E 6995	166	(10420)	160	158	180	18	23	4	30
GOLDEN ACRES	T-E 6995-A	167	(10480)	188	154	160	18	15	3	33
HOEGEMEYER	SX2634	170	(10670)	155	166	189	16	17	3	43
HOEGEMEYER	SX2644	172	(10800)	178	147	191	17	25	5	49
HORIZON	555	159	(9980)	152	150	176	17	23	5	38
HORIZON	821	149	(9350)	144	149	154	19	25	5	52
HORIZON	841	141	(8850)	154	128	141	18	18	5	41
HORIZON	870	179	(11240)	171	171	195	18	23	4	38
JACQUES	JX180	166	(10420)	162	162	174	18	20	4	36
JACQUES	JX197	164	(10300)	164	164	163	18	22	4	31
KELTGEN	KS106	149	(9350)	143	136	167	14	22	5	46
KELTGEN	KS109	149	(9350)	128	161	159	16	18	4	34
KELTGEN	KS115	174	(10920)	175	156	192	18	21	4	34
KELTGEN	KS119	169	(10610)	178	158	171	18	18	3	29
LYNKS	LX 422CA	152	(9540)	136	146	175	14	17	4	34
LYNKS	LX 433C	189	(11870)	191	172	203	18	20	2	37
LYNKS	LX 437C	172	(10800)	172	165	178	18	14	4	38
LYNKS	LX 450C	181	(11360)	188	165	191	20	14	2	24
MCCURDY	MSX 77	160	(10040)	156	145	179	17	24	6	41
MCCURDY	MSX 84	187	(11740)	182	180	198	17	20	4	37
MCCURDY	MSX 84AA	190	(11930)	178	193	199	19	18	4	29
MCCURDY	744C	170	(10670)	178	142	189	17	31	6	61
MFA	43C6	154	(9670)	158	153	152	14	23	3	34
MFA	51C4	148	(9290)	124	135	185	17	14	3	29
MFA	58C2	163	(10230)	160	158	172	18	18	3	37
MFA	59C3	155	(9730)	146	145	175	17	30	5	48

CONTINUED

TABLE 3a. CONCLUDED.

BRAND	HYBRID	YIELD AVERAGE BU/A	YIELD AVERAGE KG/HA	CLAY BU/A	BUFFALO BU/A	FRONTIER BU/A	1979 AVERAGE MOISTURE	BROKEN PLANTS	DROPPED EARS	STALK ROT
MIGRO-TEKSEED	HP 44	176	(11050)	179	167	181	17	20	4	32
MIGRO-TEKSEED	SPX 34	173	(10860)	173	165	182	17	16	3	36
MIGRO-TEKSEED	SPX 71	183	(11490)	195	164	190	19	19	4	32
MIGRO-TEKSEED	SPX 77	184	(11550)	194	159	199	19	17	3	29
NC+	X5950	162	(10170)	150	157	179	17	16	4	37
NC+	59	182	(11430)	170	193	183	17	20	3	31
NORTHRUP KING	PX59	157	(9860)	152	137	181	15	21	4	29
NORTHRUP KING	PX69A	158	(9920)	164	137	173	15	17	3	28
NORTHRUP KING	PX72	181	(11360)	181	175	186	17	25	5	39
NORTHRUP KING	PX74	171	(10740)	157	179	178	18	22	4	44
O'S GOLD	SX5353	174	(10920)	172	158	192	18	22	4	43
O'S GOLD	SX5500A	178	(11170)	183	154	196	17	21	3	34
O'S GOLD	SX5500AB	174	(10920)	158	166	199	17	18	4	47
P-A-G	SX 351	177	(11110)	182	170	179	17	21	3	25
P-A-G	SX 333	172	(10800)	175	153	189	17	26	5	39
P-A-G	SX 373	186	(11680)	185	170	204	20	15	4	31
P-A-G	314	161	(10110)	157	165	161	16	22	6	47
PACIFIC OILSEEDS	POI-33	154	(9670)	144	152	167	14	14	3	36
PACIFIC OILSEEDS	POI-37	156	(9790)	158	145	166	14	12	2	32
PACIFIC OILSEEDS	POI-414	183	(11490)	191	177	181	17	20	4	33
PACIFIC OILSEEDS	POI-44	135	(8480)	103	127	174	14	13	3	48
PAYCO	SX990	159	(9980)	170	127	179	17	22	5	37
PFISTER	75	182	(11430)	183	175	188	18	24	4	29
PIONEER	3360	179	(11240)	173	172	193	18	12	3	32
PIONEER	3386	170	(10670)	150	183	176	16	19	4	30
PIONEER	3541	170	(10670)	160	173	176	15	8	2	23
PRAIRIE STREAM	M676	151	(9480)	149	151	152	16	20	4	34
PRAIRIE STREAM	SX58	178	(11170)	186	169	179	17	17	3	43
PRAIRIE STREAM	SX66	166	(10420)	160	153	186	17	14	3	37
PRAIRIE VALLEY	730	171	(10740)	169	159	185	17	23	4	28
PRAIRIE VALLEY	765	165	(10360)	146	146	203	17	19	3	47
PRAIRIE VALLEY	767	155	(9730)	167	118	180	18	15	3	29
PRAIRIE VALLEY	818	179	(11240)	167	170	199	20	13	3	24
RBA	SUPER 14	159	(9980)	174	133	170	19	20	4	40
RBA	SUPER 4	173	(10860)	160	177	182	17	20	3	43
RBA	120	162	(10170)	163	161	163	19	21	4	38
SOKOTA	SK 79	150	(9420)	139	151	161	18	15	4	33
SOKOTA	TS 180	140	(8790)	128	121	171	16	23	5	44
SOKOTA	TS 82	172	(10800)	173	160	182	18	21	4	44
STEWART	6573	161	(10110)	153	152	177	20	20	3	31
SUPER CROST	530	168	(10550)	175	161	167	17	14	3	34
SUPER CROST	540	173	(10860)	181	164	175	18	15	3	34
SUPER CROST	680	158	(9920)	141	141	191	19	23	4	48
SUPER CROST	780C2	184	(11550)	175	170	206	19	13	3	32
TALL CORN	MSX112	153	(9610)	155	133	171	16	15	3	26
TALL CORN	SX115	175	(10990)	179	174	171	18	19	3	46
TALL CORN	TX118	156	(9790)	156	138	175	18	20	4	41
TODD	MX73	170	(10670)	170	170	170	19	18	4	37
TODD	MX73A	167	(10480)	174	180	148	18	14	3	26
TODD	M95	183	(11490)	176	192	181	20	15	3	34
TROJAN	TXS115A	164	(10300)	163	157	173	18	25	3	50
TROJAN	T1058	133	(8350)	120	119	161	16	19	3	42
TROJAN	T1189	171	(10740)	163	164	185	19	15	3	29
WEATHER MASTER	EPX 788	124	(7780)	130	102	140	19	14	4	28
WEATHER MASTER	EPX 888	154	(9670)	146	151	165	17	18	3	33
WEATHER MASTER	EPX 973	170	(10670)	165	176	168	20	21	4	32
WILSON	104C	155	(9730)	143	151	170	17	27	4	40
WILSON	180C	180	(11300)	182	169	188	18	16	3	38
WILSON	180CA	174	(10920)	163	178	182	19	23	3	47
WINTERSET	CB68	163	(10230)	150	168	171	18	20	4	42
WINTERSET	CB89	199	(12490)	197	186	214	19	17	4	32
AVERAGE ALL ENTRIES		167.7	(10528)	164.2	158.9	180.1	17.3	19.4	3.7	37.0
DIF. REQ. FOR SIG.	5%	19.6	(1230)	27.8	29.7	25.3	1.7	9.2	1.8	18.2
	25%	11.5	(722)	16.4	17.5	14.9	1.0	5.4	1.1	10.6

TABLE 3b. ZONE III IRRIGATED. 1978-1979.

BRAND	HYBRID	YIELD BU/A	YIELD KG/HA	PCT MOISTURE	PCT BROKEN	PCT DROPPED
		2 YEAR AVERAGE				
-----	NEBR. 611	154	(9670)	17.2	18	2
-----	NEBR. 714	170	(10670)	17.8	19	3
-----	NEBR. 715	176	(11050)	18.1	16	2
ACCO	UC 7951	159	(9980)	19.2	18	3
ACCO	UC 8201	177	(11110)	17.8	16	3
ACCO	UC 8951	173	(10860)	19.8	19	3
ASGROW	RX 90	181	(11360)	17.6	16	3
BO-JAC	524	170	(10670)	17.3	17	2
BO-JAC	56	168	(10550)	18.2	16	3
CARGILL	924	148	(9290)	16.4	18	2
CARGILL	949	183	(11490)	17.8	13	2
CENEX	2371	172	(10800)	16.0	27	3
CENEX	2330	155	(9730)	17.9	18	3
CO-OP	2260	142	(8910)	14.5	14	3
CO-OP	2300	157	(9860)	17.5	15	2
CO-OP	2318	141	(8850)	20.0	22	3
CONTI-BRAND	CG-5450	175	(10990)	17.9	12	2
CURRY	SC-150	181	(11360)	17.6	15	2
CUSTOM FARM SEED	CFS WX222	159	(9980)	18.4	20	2
DEKALB	XL362AA	145	(9100)	16.3	20	3
DEKALB	XL72AA	176	(11050)	17.8	13	2
FONTANELLE	580	170	(10670)	18.0	12	3
FONTANELLE	590	165	(10360)	17.2	16	2
FRUNDT	SX14	169	(10610)	17.7	18	3
FRUNDT	SX33A	185	(11610)	18.6	15	3
FUNK'S	G-4507	174	(10920)	18.1	17	3
FUNK'S	G-4520	173	(10860)	17.7	16	4
FUNK'S	G-4606	169	(10610)	17.4	17	3
GOLD TAG	GT 3030	157	(9860)	17.3	17	3
GOLDEN ACRES	T-E 6995	173	(10860)	18.3	16	3
HORIZON	841	142	(8910)	16.8	16	3
HORIZON	870	175	(10990)	18.0	17	3
JACQUES	JX180	168	(10550)	18.0	18	2
KELTGEN	KS106	139	(8730)	14.6	19	3
KELTGEN	KS109	144	(9040)	15.8	14	2
KELTGEN	KS115	170	(10670)	18.0	16	3
KELTGEN	KS119	158	(9920)	17.8	13	2
LYNKS	LX 4220A	140	(8790)	14.5	12	2
LYNKS	LX 4330	176	(11050)	18.3	14	2
LYNKS	LX 4370	157	(9860)	17.3	12	2
MCCURDY	MSX 77	168	(10550)	18.3	16	3
MCCURDY	MSX 84	177	(11110)	17.8	13	3
MFA	5802	161	(10110)	17.8	11	2
MFA	5903	151	(9480)	17.7	19	3

CONTINUED

TABLE 3b. CONCLUDED.

BRAND	HYBRID	YIELD BU/A	YIELD KG/HA	PCT MOISTURE	PCT BROKEN	PCT DROPPED
		2 YEAR AVERAGE				
MIGRO-TEKSEED	HP 44	182	(11430)	17.7	16	3
MIGRO-TEKSEED	SPX 34	165	(10360)	17.8	12	2
MIGRO-TEKSEED	SPX 71	180	(11300)	19.1	14	3
MIGRO-TEKSEED	SPX 77	169	(10610)	19.3	13	2
NC+	59	177	(11110)	17.5	17	3
NORTHRUP KING	PX74	173	(10860)	18.0	15	3
O'S GOLD	SX5500A	173	(10860)	17.9	14	2
O'S GOLD	SX5500AB	172	(10800)	17.1	15	3
P-A-O	SX 333	168	(10550)	17.5	17	3
P-A-O	314	168	(10550)	16.8	16	3
PFISTER	75	176	(11050)	17.9	18	3
PIONEER	3360	187	(11740)	17.9	11	2
PIONEER	3386	173	(10860)	16.2	14	2
PIONEER	3541	162	(10170)	14.8	7	1
PRAIRIE STREAM	SX5B	175	(10990)	17.8	14	3
PRAIRIE STREAM	SX66	168	(10550)	17.5	10	3
PRAIRIE VALLEY	730	175	(10990)	15.2	23	3
PRAIRIE VALLEY	765	168	(10550)	17.9	14	2
PRAIRIE VALLEY	818	185	(11610)	20.0	11	2
SUPER CROST	5330	162	(10170)	17.2	14	2
SUPER CROST	5440	170	(10670)	17.6	13	2
SUPER CROST	6800	153	(9610)	18.5	22	3
TODD	MX73	162	(10170)	18.7	13	3
TODD	MX73A	167	(10480)	18.1	10	2
TROJAN	TXS115A	171	(10740)	18.0	16	2
WILSON	1040	151	(9480)	17.0	20	3
WILSON	1800	170	(10670)	18.1	14	2
WILSON	1800A	175	(10990)	19.9	15	2
AVERAGE ALL ENTRIES		166.6	(10459)	17.6	15.6	2.6
DIF. REQ. FOR SIG.	5%	18.0	(1130)	1.2	N.S.	N.S.
	25%	10.6	(665)	0.7	4.8	N.S.

TABLE 3c. ZONE II IRRIGATED. 1977-1979.

BRAND	HYBRID	YIELD BU/A	YIELD KG/HA	PCT MOISTURE	PCT BROKEN	PCT DROPPED
		3 YEAR AVERAGE				
-----	NEBR. 611	156	(9790)	18.8	13	5
-----	NEBR. 714	171	(10740)	19.3	14	3
ACCO	UC 7951	164	(10300)	19.9	15	4
ACCO	UC 8951	173	(10860)	21.0	14	5
ASGROW	RX 90	175	(10990)	18.8	11	4
BO-JAC	52A	171	(10740)	18.9	12	3
BO-JAC	56	172	(10800)	19.2	12	5
CARGILL	949	182	(11430)	18.9	12	4
CENEX	2371	176	(11050)	18.0	20	4
CENEX	2380	160	(10040)	19.1	13	4
CO-OP	2300	160	(10040)	19.0	11	4
CO-OP	2318	151	(9480)	21.3	17	4
CURRY	SC-150	180	(11300)	19.1	11	4
FONTANELLE	580	170	(10670)	19.2	8	5
FONTANELLE	590	167	(10480)	18.6	12	4
FUNK'S	G-4507	172	(10800)	19.2	14	5
FUNK'S	G-4520	169	(10610)	18.9	14	5
HORIZON	841	151	(9480)	18.3	13	5
HORIZON	870	178	(11170)	19.4	12	4
JACQUES	JX180	171	(10740)	19.3	13	3
LYNKS	LX 4330	176	(11050)	19.6	12	3
LYNKS	LX 4370	160	(10040)	18.6	9	3
MCCURDY	MSX 84	178	(11170)	19.1	10	4
MIGRO-TEKSEED	SPX 34	169	(10610)	19.2	11	4
MIGRO-TEKSEED	SPX 77	174	(10920)	21.0	10	4
NC+	59	176	(11050)	18.6	12	4
NORTHRUP KING	PX74	176	(11050)	19.2	12	3
O'S GOLD	SX5500A	173	(10860)	19.1	11	3
O'S GOLD	SX5500AB	172	(10800)	18.5	12	4
P-A-G	314	168	(10550)	18.4	11	4
PIONEER	3360	183	(11490)	19.2	9	3
PIONEER	3386	173	(10860)	17.8	10	3
PIONEER	3541	165	(10360)	16.6	6	3
PRAIRIE STREAM	SX58	178	(11170)	19.2	10	5
PRAIRIE STREAM	SX66	167	(10480)	19.1	10	4
PRAIRIE VALLEY	730	180	(11300)	18.1	17	4
PRAIRIE VALLEY	76S	170	(10670)	19.2	14	3
SUPER CROST	5440	171	(10740)	19.0	10	3
SUPER CROST	6800	154	(9670)	19.9	18	5
TODD	MX73	169	(10610)	19.1	12	4
TROJAN	TXS115A	170	(10670)	19.3	11	3
WILSON	1040	156	(9790)	18.8	15	5
WILSON	1800	172	(10800)	19.5	12	3
AVERAGE ALL ENTRIES		169.8	(10660)	19.1	12.2	3.9
DIF. REQ. FOR SIG.	5%	13.6	(854)	1.1	N.S.	N.S.
	25%	7.9	(496)	0.6	3.8	1.0

TABLE 3d. ZONE II IRRIGATED. 1975-1979.

BRAND	HYBRID	YIELD BU/A	YIELD KG/HA	PCT MOISTURE	PCT BROKEN	PCT DROPPED
		4 YEAR AVERAGE				
-----	NEBR. 611	159	(9980)	19.4	11	4
-----	NEBR. 714	170	(10670)	19.9	11	3
ACCO	UC 8951	170	(10670)	22.2	11	4
ASGROW	RX 90	174	(10920)	19.3	9	3
BO-JAC	52A	171	(10740)	19.5	10	3
BO-JAC	56	175	(10990)	19.9	9	4
CARGILL	949	181	(11360)	19.3	10	4
CENEX	2380	165	(10360)	19.4	11	4
CO-OP	2318	153	(9610)	22.2	14	3
CURRY	SC-150	178	(11170)	19.5	9	3
FONTANELLE	580	169	(10610)	19.6	7	4
FONTANELLE	590	168	(10550)	19.5	10	3
FUNK'S	G-4507	172	(10800)	19.7	11	4
FUNK'S	G-4520	165	(10360)	19.5	11	4
HORIZON	841	156	(9790)	19.2	11	4
HORIZON	870	179	(11240)	19.7	10	3
JACQUES	JX180	171	(10740)	19.8	11	3
LYNKS	LX 4330	173	(10860)	20.1	9	2
LYNKS	LX 4370	162	(10170)	19.6	7	3
MCCURDY	MSX 84	176	(11050)	19.7	8	3
MIGRO-TEKSEED	SPX 34	171	(10740)	19.9	9	3
NC+	59	176	(11050)	19.1	9	3
O'S GOLD	SX5500A	172	(10800)	19.6	9	3
P-A-G	314	167	(10480)	19.1	9	3
PIONEER	3386	169	(10610)	18.1	8	2
PIONEER	3541	162	(10170)	16.7	5	2
PRAIRIE STREAM	SX5B	177	(11110)	19.5	8	4
PRAIRIE VALLEY	76S	170	(10670)	19.6	11	3
SUPER CROST	5440	170	(10670)	19.6	8	3
TODD	MX73	171	(10740)	19.4	9	3
TROJAN	TXS115A	171	(10740)	19.6	9	2
WILSON	1040	157	(9860)	19.4	13	4
WILSON	1800	171	(10740)	20.0	10	3
AVERAGE ALL ENTRIES		169.4	(10635)	19.6	9.6	3.2
DIF. REQ. FOR SIG.	5%	11.8	(741)	0.9	N.S.	N.S.
	25%	6.9	(433)	0.5	N.S.	0.8
		5 YEAR AVERAGE				
-----	NEBR. 611	159	(9980)	19.0	10	4
ASGROW	RX 90	175	(10990)	19.2	7	3
BO-JAC	52A	173	(10860)	19.3	9	2
BO-JAC	56	178	(11170)	19.8	9	4
CARGILL	949	181	(11360)	19.4	8	4
CO-OP	2318	156	(9790)	22.1	12	3
CURRY	SC-150	180	(11300)	19.4	8	3
FONTANELLE	580	170	(10670)	19.6	6	4
FONTANELLE	590	170	(10670)	19.2	9	3
FUNK'S	G-4507	176	(11050)	19.6	9	4
HORIZON	870	178	(11170)	19.5	8	3
LYNKS	LX 4330	177	(11110)	19.9	8	3
MCCURDY	MSX 84	178	(11170)	19.6	7	3
MIGRO-TEKSEED	SPX 34	178	(11170)	19.8	8	3
NC+	59	177	(11110)	19.0	8	3
O'S GOLD	SX5500A	173	(10860)	19.5	8	3
PIONEER	3541	164	(10300)	16.1	5	2
PRAIRIE STREAM	SX5B	179	(11240)	19.6	8	4
PRAIRIE VALLEY	76S	175	(10990)	19.4	10	3
SUPER CROST	5440	172	(10800)	19.4	8	3
TODD	MX73	174	(10920)	19.2	9	3
TROJAN	TXS115A	173	(10860)	19.4	8	2
WILSON	1040	157	(9860)	19.0	12	3
WILSON	1800	168	(10550)	19.8	8	2
AVERAGE ALL ENTRIES		172.5	(10830)	19.4	8.4	3.1
DIF. REQ. FOR SIG.	5%	9.6	(603)	0.8	N.S.	N.S.
	25%	5.6	(352)	0.4	2.3	0.7

TABLE 4a. ZONE III NONIRRIGATED.. NORTHEAST. DIXON COUNTY. 1979.

BRAND	HYBRID	YIELD BU/A	YIELD KG/HA	PCT MOISTURE	PCT BROKEN PLANTS	PCT DROPPED EARS
-----	NEBR. 611	179	(11240)	22.2	2	0
ACCO	UC 3002	167	(10480)	19.7	2	0
ACCO	UC 8201	181	(11360)	21.9	0	0
ACCO	X 74451	154	(9670)	20.1	7	0
ACCO	X 74801	186	(11680)	22.2	2	0
ASGROW	RX 544	149	(9350)	18.3	0	0
ASGROW	RX 777	171	(10740)	21.1	0	0
ASGROW	RX 90	184	(11550)	22.4	3	0
CARGILL	892	157	(9860)	22.2	3	0
CARGILL	924	169	(10610)	21.8	6	0
CARGILL	949	183	(11490)	21.4	3	1
CARGILL	967	199	(12490)	22.9	5	0
CENEX	2157	173	(10860)	19.7	3	0
CENEX	2371	170	(10670)	24.1	3	0
CENEX	2380	164	(10300)	22.7	1	0
CONTI-BRAND	CG-5450	182	(11430)	22.3	2	0
CURRY	SC-1444	154	(9670)	17.8	0	1
CURRY	SC-1455	156	(9790)	18.3	0	0
CURRY	SC-146	165	(10360)	19.0	1	0
CURRY	SC-150	178	(11170)	22.7	8	0
DEKALB	XL32AA	151	(9480)	18.8	0	0
DEKALB	XL54	151	(9480)	20.8	2	0
DEKALB	XL55A	151	(9480)	18.9	5	0
DEKALB	XL62AA	161	(10110)	22.0	3	0
EMBRO	X 57	155	(9730)	21.2	0	0
EMBRO	X 585	164	(10300)	23.9	1	1
EMBRO	X 60	186	(11680)	22.4	1	0
EMBRO	X 600	169	(10610)	24.3	5	0
FEDERAL	FT27	140	(8790)	20.5	4	0
FONTANELLE	400	155	(9730)	19.6	2	0
FONTANELLE	420	155	(9730)	18.5	0	0
FONTANELLE	450	164	(10300)	21.7	4	0
FONTANELLE	580	168	(10550)	22.2	5	0
FUNK'S	G-4323	156	(9790)	18.0	0	1
FUNK'S	G-4450	167	(10480)	20.9	1	0
GOLD TAG	GT 2060	145	(9100)	18.8	1	0
GOLD TAG	GT 3020	179	(11240)	22.9	2	1
GOLDEN ACRES	T-E 6925	150	(9420)	18.5	2	0
GOLDEN ACRES	T-E 6995	172	(10800)	23.0	1	0
GOLDEN ACRES	T-E 6995-A	170	(10670)	23.9	1	1
GUTWEIN	2910	184	(11550)	27.4	3	0
GUTWEIN	62	176	(11050)	22.5	2	1
HOEGEMEYER	SX2644	186	(11680)	21.7	1	0
HOEGEMEYER	SX2675	180	(11300)	22.7	1	0
HORIZON	131	144	(9040)	18.8	0	0
HORIZON	861	185	(11610)	23.2	2	0
HORIZON	870	174	(10920)	23.2	3	0
JACQUES	JX177	155	(9730)	18.9	1	0
JACQUES	JX180	169	(10610)	22.5	0	1
KALTENBERG	KX58	167	(10480)	19.8	8	0
KALTENBERG	KX68	148	(9290)	18.3	3	0
KALTENBERG	KX76	190	(11930)	21.8	2	0
KELTGEN	KS106	151	(9480)	18.4	0	0
KELTGEN	KS109	169	(10610)	20.7	0	0
KELTGEN	KS115	187	(11740)	22.8	0	0
LYNKS	LX 412C	137	(8600)	18.9	1	1
LYNKS	LX 422CA	152	(9540)	19.0	1	0
LYNKS	LX 433C	183	(11490)	21.7	0	0
MCCURDY	MSX 46	155	(9730)	18.0	0	0
MCCURDY	MSX 77	173	(10860)	23.2	2	0
MCCURDY	5596	171	(10740)	20.6	2	0
MCCURDY	7440	196	(12300)	24.5	4	0

CONTINUED

TABLE 4a. CONCLUDED.

BRAND	HYBRID	YIELD BU/A	YIELD KG/HA	PCT MOISTURE	PCT BROKEN PLANTS	PCT DROPPED EARS
MIGRO-TEKSEED	HP 23	140	(8790)	18.4	5	1
MIGRO-TEKSEED	SPX 34	177	(11110)	22.8	2	0
MIGRO-TEKSEED	SPX 49	170	(10670)	23.0	7	0
MIGRO-TEKSEED	SPX 8	158	(9920)	19.1	1	0
NC+	X5950	157	(9860)	21.2	2	0
NC+	4222	153	(9610)	19.5	1	0
NC+	59	176	(11050)	22.9	3	0
NORTHRUP KING	PX59	162	(10170)	19.8	1	0
NORTHRUP KING	PX603	152	(9540)	21.5	2	0
NORTHRUP KING	PX69A	157	(9860)	21.4	3	0
O'S GOLD	EXP 5514	167	(10480)	22.3	1	0
O'S GOLD	SX3344	181	(11360)	22.3	2	0
O'S GOLD	SX5500A	191	(11990)	22.2	2	0
O'S GOLD	TX303	156	(9790)	21.4	3	0
P-A-G	SX 249	158	(9920)	20.0	2	0
P-A-G	SX 277	172	(10800)	20.4	2	0
P-A-G	SX 333	186	(11680)	22.6	0	0
P-A-G	SX 397	159	(9980)	19.1	2	0
PACIFIC OILSEEDS	PCI-19	149	(9350)	18.3	2	0
PACIFIC OILSEEDS	PCI-33	145	(9100)	18.8	2	0
PACIFIC OILSEEDS	PCI-37	168	(10550)	19.9	0	0
PACIFIC OILSEEDS	PCI-80	167	(10480)	26.7	4	0
PAYCO	SX844	152	(9540)	18.1	2	0
PFISTER	75	187	(11740)	22.2	0	0
PIONEER	3388	146	(9170)	22.6	0	0
PIONEER	3541	167	(10480)	19.6	3	0
PIONEER	3720	140	(8790)	17.6	2	0
PIONEER	3780	161	(10110)	17.7	2	0
PRAIRIE VALLEY	389	163	(10230)	19.7	3	0
PRAIRIE VALLEY	595	164	(10300)	19.9	4	0
PRAIRIE VALLEY	765	180	(11300)	22.3	2	0
PRAIRIE VALLEY	767	161	(10110)	23.1	2	0
RBA	SUPER 14	167	(10480)	26.6	6	0
RBA	111	165	(10360)	22.3	2	0
RBA	120	163	(10230)	25.5	3	0
SOKOTA	SS 176	159	(9980)	19.5	2	0
SOKOTA	SS 178	140	(8790)	21.6	2	0
SOKOTA	TS 62A	147	(9230)	18.5	1	0
SOKOTA	TS 64	173	(10860)	19.0	3	0
TALL CORN	MSX112	141	(8850)	20.8	1	0
TALL CORN	SX110	145	(9100)	18.7	0	0
TODD	MX73A	173	(10860)	23.0	0	0
TODD	M53	159	(9980)	20.9	2	0
TROJAN	TXS115A	171	(10740)	22.0	3	0
TROJAN	T1058	134	(8410)	19.7	2	0
TROJAN	T1108	152	(9540)	20.1	3	0
TROJAN	T1120	171	(10740)	22.7	4	0
WEATHER MASTER	EPX 5P	151	(9480)	19.2	3	0
WEATHER MASTER	EPX 677	159	(9980)	17.9	1	0
WEATHER MASTER	EPX 777	167	(10480)	19.1	0	0
WILSON	1016	148	(9290)	19.1	2	1
WILSON	1400A	145	(9100)	18.6	2	0
WILSON	1800	167	(10480)	23.0	2	0
WILSON	2317	164	(10300)	20.2	4	0
WINTERSET	CB62	158	(9920)	18.1	0	0
WINTERSET	CB68	180	(11300)	21.7	2	0
AVERAGE ALL ENTRIES		164.3	(10315)	21.0	2.1	0.1
DIF. REQ. FOR SIG.	5%	15.5	(973)	1.3	N.S.	N.S.
	25%	9.1	(571)	0.8	N.S.	N.S.

TABLE 4b. ZONE III NONIRRIGATED. NORTHEAST. 1978-1979.

BRAND	HYBRID	YIELD BU/A	YIELD KG/HA	PCT MOISTURE	PCT BROKEN	PCT DROPPED
		2 YEAR AVERAGE				
-----	NEBR. 611	145	(9100)	19.1	2	0
ASGROW	RX 90	163	(10230)	19.3	2	1
CARGILL	924	141	(8850)	18.3	6	0
CARGILL	949	155	(9730)	18.7	2	1
CENEX	2157	145	(9100)	16.7	4	2
CONTI-BRAND	CG-5450	157	(9860)	19.2	1	0
DEKALB	XL54	130	(8160)	18.3	4	0
DEKALB	XL55A	134	(8410)	16.4	18	0
DEKALB	XL62AA	139	(8730)	18.9	3	1
FONTANELLE	400	135	(8480)	16.9	2	0
FONTANELLE	450	137	(8600)	18.8	4	0
FONTANELLE	580	146	(9170)	19.6	3	1
FUNK'S	G-4323	137	(8600)	15.5	1	0
HORIZON	131	122	(7660)	16.4	0	0
JACQUES	JX177	138	(8660)	16.3	0	0
JACQUES	JX180	148	(9290)	19.4	0	1
KALTENBERG	KX68	135	(8480)	16.0	2	0
KALTENBERG	KX76	152	(9540)	19.0	1	1
KELTGEN	KS115	159	(9980)	19.6	0	0
LYNKS	LX 4120	119	(7470)	16.2	2	0
LYNKS	LX 4220A	128	(8040)	16.5	0	0
MCCURDY	MSX 46	130	(8160)	15.6	1	0
MIGRO-TEKSEED	SPX 49	141	(8850)	19.2	5	0
MIGRO-TEKSEED	SPX 8	133	(8350)	16.3	1	1
NC+	59	155	(9730)	19.8	2	1
NORTHRUP KING	PX603	132	(8290)	18.3	3	0
O'S GOLD	SX3344	153	(9610)	19.1	2	0
O'S GOLD	SX5500A	159	(9980)	19.1	1	1
O'S GOLD	TX303	140	(8790)	18.5	2	1
P-A-G	SX 249	138	(8660)	17.0	3	0
P-A-G	SX 333	154	(9670)	19.5	1	0
P-A-G	SX 397	137	(8600)	16.2	14	0
PIONEER	3388	128	(8040)	19.3	0	0
PIONEER	3720	120	(7530)	15.7	6	0
PIONEER	3780	136	(8540)	15.3	1	0
PRAIRIE VALLEY	76S	160	(10040)	19.3	1	1
TROJAN	TXS115A	143	(8980)	19.1	3	0
TROJAN	T1058	123	(7720)	16.7	2	0
WEATHER MASTER	EPX 777	137	(8600)	16.4	0	1
WILSON	1016	128	(8040)	16.5	2	1
WILSON	1400A	124	(7780)	16.1	2	0
WILSON	2317	135	(8480)	17.1	3	1
AVERAGE ALL ENTRIES		139.8	(8777)	17.7	2.7	0.4
DIF. REQ. FOR SIG.	5%	15.9	(998)	1.0	N.S.	N.S.
	25%	9.2	(578)	0.6	4.6	N.S.

TABLE 4c. ZONE III NONIRRIGATED. NORTHEAST. 1974-1979.

BRAND	HYBRID	YIELD BU/A	YIELD KG/HA	PCT MOISTURE	PCT BROKEN	PCT DROPPED
		3 YEAR AVERAGE				
-----	NEBR. 611	129	(8100)	20.1	3	1
CARGILL	949	134	(8410)	20.2	2	2
FONTANELLE	400	126	(7910)	16.9	5	1
FONTANELLE	450	123	(7720)	19.2	4	1
FONTANELLE	580	123	(7720)	20.5	2	2
KALTENBERG	KX68	122	(7660)	16.4	2	2
KALTENBERG	KX76	133	(8350)	20.5	1	1
MCCURDY	MSX 46	116	(7280)	15.9	1	2
MIGRO-TEKSEED	SPX 8	120	(7530)	16.8	3	2
O'S GOLD	SX3344	133	(8350)	20.4	6	1
P-A-G	SX 397	125	(7850)	16.3	17	2
PIONEER	3780	123	(7720)	15.1	2	1
PRAIRIE VALLEY	76S	138	(8660)	20.5	1	2
TROJAN	TXS115A	122	(7660)	20.2	3	1
WILSON	1016	118	(7410)	16.2	6	1
AVERAGE ALL ENTRIES		125.8	(7898)	18.3	3.9	1.5
DIF. REQ. FOR SIG.	5%	N.S.		1.9	7.3	N.S.
	25%	N.S.		1.1	4.2	N.S.
		4 YEAR AVERAGE				
-----	NEBR. 611	122	(7660)	18.4	3	1
MIGRO-TEKSEED	SPX 8	115	(7220)	15.1	3	3
P-A-G	SX 397	119	(7470)	14.5	14	2
PIONEER	3780	115	(7220)	13.5	3	2
PRAIRIE VALLEY	76S	128	(8040)	18.7	1	3
AVERAGE ALL ENTRIES		119.5	(7502)	16.0	4.8	2.2
DIF. REQ. FOR SIG.	5%	N.S.		1.5	7.7	N.S.
	25%	7.1	(446)	0.8	4.3	0.8
		5 YEAR AVERAGE				
-----	NEBR. 611	110	(6910)	19.9	3	1
P-A-G	SX 397	107	(6720)	15.1	12	2
PIONEER	3780	104	(6530)	14.1	2	2
PRAIRIE VALLEY	76S	113	(7090)	19.5	1	3
AVERAGE ALL ENTRIES		108.3	(6799)	17.2	4.5	2.0
DIF. REQ. FOR SIG.	5%	N.S.		1.9	7.8	N.S.
	25%	N.S.		1.1	4.3	0.7

Location of tests (counties): 1974 Thurston; 1975 Dixon, Pierce; 1976 failed (drouth); 1977 Dixon, Knox; 1978-1979 Dixon.

TABLE 5a. Zone III Irrigated. Northeast. Madison County. 1979.

BRAND	HYBRID	YIELD BU/A	YIELD KG/HA	PCT MOISTURE	PCT BROKEN PLANTS	PCT DROPPED EARS
-----	NEBR. 611	178	(11170)	21.4	2	0
ACGC	UC 3002	162	(10170)	16.4	1	0
ACCC	UC 8201	195	(12240)	21.6	1	0
ACCC	X 74451	156	(9790)	17.0	4	0
ACGC	X 74801	185	(11610)	19.4	3	0
ASGROW	RX 544	168	(10550)	19.4	2	0
ASGROW	RX 777	201	(12620)	20.8	1	0
ASGROW	RX 90	203	(12740)	22.4	1	1
CARGILL	892	169	(10610)	17.0	3	0
CARGILL	924	188	(11800)	19.0	1	0
CARGILL	949	203	(12740)	21.6	3	0
CARGILL	967	195	(12240)	19.5	2	0
CENEX	2157	155	(9730)	16.3	7	0
CENEX	2371	215	(13500)	20.2	2	0
CENEX	2380	204	(12810)	22.7	1	0
CONTI-BRAND	CG-5450	201	(12620)	22.0	1	0
CURRY	SC-1444	168	(10550)	16.5	1	0
CURRY	SC-1455	155	(9730)	16.2	1	0
CURRY	SC-146	169	(10610)	16.7	1	0
CURRY	SC-150	203	(12740)	21.2	1	0
DEKALB	XL32AA	167	(10480)	18.7	2	0
DEKALB	XL54	173	(10860)	20.3	2	0
DEKALB	XL55A	169	(10610)	18.8	4	0
DEKALB	XL62AA	167	(10480)	20.5	3	0
EMBRO	X 57	185	(11610)	21.8	1	0
EMBRO	X 585	180	(11300)	22.8	1	1
EMBRO	X 60	200	(12560)	21.7	3	0
EMBRO	X 600	184	(11550)	24.3	3	0
FEDERAL	FT27	134	(8410)	17.2	3	0
FONTANELLE	400	153	(9610)	17.0	1	0
FONTANELLE	420	182	(11430)	17.0	0	0
FONTANELLE	450	179	(11240)	19.2	1	0
FONTANELLE	580	208	(13060)	21.4	2	0
FUNK'S	G-4323	167	(10480)	17.2	2	0
FUNK'S	G-4450	179	(11240)	18.4	3	0
GOLD TAG	GT 206C	172	(10800)	17.5	0	1
GOLD TAG	GT 302C	208	(13060)	22.7	2	0
GOLDEN ACRES	T-E 6925	167	(10480)	17.1	1	0
GOLDEN ACRES	T-E 6995	192	(12050)	21.4	3	0
GOLDEN ACRES	T-E 6995-A	185	(11610)	20.9	2	0
GUTWEIN	2910	186	(11680)	23.5	1	0
GUTWEIN	62	203	(12740)	22.1	1	0
HOEGEMEYER	SX2644	191	(11990)	20.2	3	0
HOEGEMEYER	SX2675	204	(12810)	21.2	2	0
HORIZON	131	165	(10360)	17.8	1	0
HORIZON	861	201	(12620)	21.7	5	0
HORIZON	870	204	(12810)	21.2	2	0
JACQUES	JX177	180	(11300)	18.4	1	0
JACQUES	JX180	199	(12490)	21.3	2	0
KALTENBERG	KX58	146	(9170)	15.6	9	0
KALTENBERG	KX68	175	(10990)	17.5	3	0
KALTENBERG	KX76	200	(12560)	21.9	2	0
KELTGEN	KS106	156	(9790)	17.7	0	0
KELTGEN	KS109	181	(11360)	19.3	1	0
KELTGEN	KS115	214	(13430)	23.1	1	0
LYNKS	LX 412C	152	(9540)	16.8	7	0
LYNKS	LX 422CA	167	(10480)	17.2	2	0
LYNKS	LX 433C	207	(13000)	21.9	2	0
MCCURDY	MSX 46	159	(9980)	15.8	1	0
MCCURDY	MSX 77	194	(12180)	19.1	3	0
MCGURDY	5596	161	(10110)	17.1	18	0
MCGURDY	7440	207	(13000)	22.9	3	0

CONTINUED

TABLE 5a. CONCLUDED.

BRAND	HYBRID	YIELD BU/A	YIELD KG/HA	PCT MOISTURE	PCT BROKEN PLANTS	PCT DROPPED EARS
MIGRO-TEKSEED	HP 23	167	(10480)	17.5	0	0
MIGRO-TEKSEED	SPX 34	195	(12240)	22.3	1	0
MIGRO-TEKSEED	SPX 49	192	(12050)	19.9	0	0
MIGRO-TEKSEED	SPX 8	175	(10990)	17.2	1	0
NC+	X595C	173	(10860)	20.6	1	0
NC+	4222	171	(10740)	17.3	1	0
NC+	59	187	(11740)	21.4	2	0
NORTHRUP KING	PX59	170	(10670)	17.1	2	0
NORTHRUP KING	PX603	163	(10230)	18.9	1	0
NORTHRUP KING	PX69A	170	(10670)	19.0	0	0
O'S GOLD	EXP 5514	202	(12680)	19.3	5	0
O'S GOLD	SX3344	204	(12810)	22.0	1	0
O'S GOLD	SX55OOA	207	(13000)	21.6	1	0
O'S GOLD	TX303	171	(10740)	18.4	2	0
P-A-G	SX 249	159	(9980)	17.2	3	0
P-A-G	SX 277	174	(10920)	16.5	1	0
P-A-G	SX 333	206	(12930)	20.8	2	0
P-A-G	SX 397	169	(10610)	18.3	8	0
PACIFIC OILSEEDS	PCI-19	139	(8730)	15.7	1	0
PACIFIC OILSEEDS	PCI-33	162	(10170)	16.7	1	0
PACIFIC OILSEEDS	PCI-37	162	(10170)	17.3	2	0
PACIFIC OILSEEDS	PCI-80	193	(12120)	23.9	2	0
PAYCO	SX844	154	(9670)	17.8	1	0
PFISTER	75	212	(13310)	21.7	2	0
PIONEER	3388	180	(11300)	21.3	1	0
PIONEER	3541	170	(10670)	16.3	1	0
PIONEER	3720	155	(9730)	15.9	1	0
PIONEER	3780	154	(9670)	15.5	1	0
PRAIRIE VALLEY	389	162	(10170)	16.9	1	0
PRAIRIE VALLEY	595	173	(10860)	17.5	0	0
PRAIRIE VALLEY	765	203	(12740)	21.1	2	0
PRAIRIE VALLEY	767	184	(11550)	21.2	1	0
RBA	SUPER 14	189	(11870)	24.6	2	0
RBA	111	197	(12370)	20.7	2	0
RBA	120	198	(12430)	23.2	1	0
SCHOTA	SS 176	151	(9480)	17.6	2	0
SCHOTA	SS 178	163	(10230)	18.9	1	0
SCHOTA	TS 62A	165	(10360)	15.9	2	0
SCHOTA	TS 64	139	(8730)	16.3	7	0
TALL CORN	MSX112	165	(10360)	21.2	2	0
TALL CORN	SX110	167	(10480)	17.4	2	0
TODD	MX73A	187	(11740)	21.7	0	1
TODD	M53	178	(11170)	17.9	1	0
TROJAN	TXS115A	198	(12430)	23.5	1	0
TROJAN	T1058	150	(9420)	18.4	1	0
TROJAN	T1108	161	(10110)	17.9	3	0
TROJAN	T1120	189	(11870)	19.6	1	0
WEATHER MASTER	EPX 5P	154	(9670)	16.9	1	0
WEATHER MASTER	EPX 677	141	(8850)	14.7	0	0
WEATHER MASTER	EPX 777	175	(10990)	17.8	1	0
WILSON	1016	161	(10110)	17.1	2	0
WILSON	1400A	156	(9790)	16.6	1	0
WILSON	1800	202	(12680)	21.9	1	0
WILSON	2317	177	(11110)	17.5	3	0
WINTERSET	CB62	164	(10300)	17.3	1	0
WINTERSET	CB68	216	(13560)	21.1	1	1
AVERAGE ALL ENTRIES		178.6	(11213)	19.3	2.0	0.1
DIF. REQ. FOR SIG.	5%	18.3	(1149)	1.6	1.8	N.S.
	25%	10.8	(678)	1.0	1.1	N.S.

TABLE 5b. ZONE III IRRIGATED. NORTHEAST. 1978-1979.

BRAND	HYBRID	YIELD BU/A	YIELD KG/HA	PCT MOISTURE	PCT BROKEN	PCT DROPPED
		2 YEAR AVERAGE				
-----	NEBR. 611	156	(9790)	19.6	2	0
ASGROW	RX 90	177	(11110)	21.2	1	0
CARGILL	924	164	(10300)	18.1	3	0
CARGILL	949	186	(11680)	19.9	3	0
CENEX	2157	148	(9290)	15.2	6	0
CONTI-BRAND	CG-5450	181	(11360)	20.6	2	1
DEKALB	XL54	157	(9860)	19.7	3	1
DEKALB	XL55A	160	(10040)	18.0	4	0
DEKALB	XL62AA	150	(9420)	18.7	3	0
FONTANELLE	400	141	(8850)	16.1	2	0
FONTANELLE	450	153	(9610)	18.0	1	0
FONTANELLE	580	182	(11430)	20.1	2	0
FUNK'S	G-4323	144	(9040)	15.8	1	1
HORIZON	131	145	(9100)	16.3	1	0
JACQUES	JX177	159	(9980)	16.9	1	0
JACQUES	JX180	174	(10920)	20.0	2	0
KALTENBERG	KX68	152	(9540)	16.2	2	0
KALTENBERG	KX76	180	(11300)	20.0	2	0
KELTGEN	KS115	185	(11610)	21.1	1	1
LYNKS	LX 4120	143	(8980)	15.9	5	0
LYNKS	LX 4220A	147	(9230)	16.3	2	1
MCCURDY	MSX 46	144	(9040)	15.6	2	1
MIGRO-TEKSEED	SPX 49	173	(10860)	18.3	1	0
MIGRO-TEKSEED	SPX 8	146	(9170)	16.3	1	0
NC+	59	169	(10610)	19.9	2	1
NORTHRUP KING	PX603	154	(9670)	17.6	2	0
O'S GOLD	SX3344	169	(10610)	20.1	2	0
O'S GOLD	SX5500A	181	(11360)	20.1	2	0
O'S GOLD	TX303	155	(9730)	17.2	1	1
P-A-G	SX 249	147	(9230)	16.1	4	1
P-A-G	SX 333	180	(11300)	19.5	2	0
P-A-G	SX 397	152	(9540)	16.7	7	0
PIONEER	3388	159	(9980)	20.1	3	0
PIONEER	3720	139	(8730)	15.3	1	0
PIONEER	3780	144	(9040)	14.8	2	0
PRAIRIE VALLEY	765	177	(11110)	20.1	2	0
TROJAN	TXS115A	175	(10990)	21.1	1	0
TROJAN	T1058	139	(8730)	17.1	3	0
WEATHER MASTER	EPX 777	150	(9420)	16.7	2	0
WILSON	1016	141	(8850)	16.1	2	0
WILSON	1400A	138	(8660)	16.1	1	0
WILSON	2317	155	(9730)	16.3	3	0
AVERAGE ALL ENTRIES		158.8	(9969)	18.0	2.3	0.2
DIF. REQ. FOR SIG.	5%	18.4	(1155)	1.2	2.4	N.S.
	25%	10.7	(672)	0.7	1.4	N.S.

TABLE 5c. ZONE III IRRIGATED. NORTHEAST. 1976-1979.

BRAND	HYBRID	YIELD BU/A	YIELD KG/HA	PCT MOISTURE	PCT BROKEN	PCT DROPPED
		3 YEAR AVERAGE				
-----	NEBR. 611	161	(10110)	20.4	4	1
CARGILL	949	180	(11300)	20.1	3	1
FONTANELLE	400	149	(9350)	16.0	3	0
FONTANELLE	450	155	(9730)	18.2	2	1
FONTANELLE	580	175	(10990)	20.6	2	2
KALTENBERG	KX68	157	(9860)	16.4	2	4
KALTENBERG	KX76	179	(11240)	20.2	1	2
MCCURDY	MSX 46	152	(9540)	15.8	3	3
MIGRO-TEKSEED	SPX 8	152	(9540)	16.6	2	3
O'S GOLD	SX3344	171	(10740)	20.8	5	2
P-A-G	SX 397	156	(9790)	16.7	5	2
PIONEER	3780	145	(9100)	14.6	2	1
PRAIRIE VALLEY	76S	177	(11110)	20.0	2	1
TROJAN	TXS115A	175	(10990)	20.8	2	2
WILSON	1016	147	(9230)	16.0	5	1
AVERAGE ALL ENTRIES		162.1	(10177)	18.2	2.9	1.7
DIF. REQ. FOR SIG. 5%		17.3	(1086)	1.3	N.S.	N.S.
25%		9.9	(622)	0.8	N.S.	N.S.
		4 YEAR AVERAGE				
-----	NEBR. 611	154	(9670)	22.1	5	1
FONTANELLE	580	166	(10420)	22.1	3	2
KALTENBERG	KX68	147	(9230)	17.2	2	3
KALTENBERG	KX76	170	(10670)	22.0	2	2
MCCURDY	MSX 46	146	(9170)	16.2	4	2
MIGRO-TEKSEED	SPX 8	148	(9290)	16.9	4	3
O'S GOLD	SX3344	165	(10360)	22.0	7	2
P-A-G	SX 397	152	(9540)	17.2	4	2
PRAIRIE VALLEY	76S	168	(10550)	21.7	4	1
WILSON	1016	144	(9040)	16.8	6	2
AVERAGE ALL ENTRIES		155.9	(9787)	19.4	4.1	2.0
DIF. REQ. FOR SIG. 5%		13.7	(860)	1.9	N.S.	N.S.
25%		7.8	(490)	1.1	N.S.	N.S.

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

TABLE 6a. SOUTHWEST ECOFALLOW. SUMMARY. 1979.

		YIELD				1979 AVERAGE			
BRAND	HYBRID	AVERAGE BU/A	AVERAGE KG/HA	LINCOLN BU/A	FRONTIER BU/A	MOISTURE	BROKEN PLANTS	DROPPED EARS	EARS/100 PLANTS
-----	NEBR. 611	117	(7350)	96	138	21	2	7	139
-----	NEBR. 714	111	(6970)	88	134	23	3	2	131
-----	NEBR. 715	104	(6530)	75	133	28	1	4	139
ACCC	UC 7601	111	(6970)	91	130	20	1	2	124
ACCC	UC 7951	109	(6840)	86	132	25	2	4	125
ACCC	UC 8201	114	(7160)	87	141	23	3	2	121
CENEX	2157	121	(7600)	91	150	11	6	12	181
CENEX	2380	110	(6910)	84	135	25	1	0	118
FONTANELLE	500	100	(6280)	89	111	18	1	2	126
FONTANELLE	580	102	(6400)	75	128	24	0	4	128
FUNK'S	G-4323	105	(6590)	90	120	15	0	2	115
FUNK'S	G-4450	105	(6590)	84	126	18	0	2	124
GOLD TAG	GT 3020	105	(6590)	83	127	25	0	5	127
GOLD TAG	GT 4020	95	(5960)	73	116	25	1	0	132
GOLDEN ACRES	T-E 6945	85	(5340)	65	105	16	1	0	126
HORIZON	821	106	(6650)	85	127	24	4	2	133
HORIZON	841	97	(6090)	73	120	22	1	6	126
HORIZON	861	118	(7410)	97	139	21	2	4	125
HORIZON	870	110	(6910)	85	135	24	0	3	118
MIGRO-TEKSEED	HP 23	104	(6530)	93	114	16	1	6	112
MIGRO-TEKSEED	HP 27	113	(7090)	101	125	16	2	4	119
MIGRO-TEKSEED	SPX 1A	103	(6470)	92	114	15	1	3	140
MIGRO-TEKSEED	SPX 305	90	(5650)	76	104	13	0	2	111
NC+	4222	112	(7030)	101	123	15	0	3	132
NC+	4666	112	(7030)	95	129	17	2	2	136
PIONEER	3591	109	(6840)	94	124	15	1	6	168
PIONEER	3713	104	(6530)	93	115	11	0	9	171
PIONEER	3720	104	(6530)	91	117	13	0	4	137
PIONEER	3901	98	(6150)	101	95	9	1	5	136
TODD	MX73A	107	(6720)	84	130	22	2	3	133
TODD	M3C	102	(6400)	90	114	12	0	3	135
TROJAN	TXS115A	109	(6840)	86	131	25	2	3	116
TROJAN	T1058	92	(5780)	75	109	16	1	6	125
TROJAN	T1108	91	(5710)	77	104	14	1	3	124
WILSON	1016	109	(6840)	88	130	15	1	3	127
WILSON	1812	110	(6910)	83	137	17	3	6	137
AVERAGE ALL ENTRIES		105.4	(6617)	86.6	123.9	18.5	1.3	3.7	131.0
DIF. REQ. FOR SIG.	5%	N.S.		12.5	14.9	3.3	2.5	N.S.	23.2
	25%	11.3	(709)	7.3	8.7	1.9	1.4	3.4	13.4

TABLE 6b. SOUTHWEST ECOFALLOW. 1977-1979.

BRAND	HYBRID	YIELD BU/A	YIELD KG/HA	PCT MOISTURE	PCT BROKEN	PCT DROPPED
		2 YEAR AVERAGE				
-----	NEBR. 611	84	(5270)	20.1	1	4
ACCO	UC 7601	81	(5090)	17.8	1	1
ACCO	UC 7951	81	(5090)	24.8	1	4
CENEX	2157	88	(5520)	10.8	3	8
FONTANELLE	500	76	(4770)	16.0	2	1
FONTANELLE	580	77	(4830)	21.6	2	3
HORIZON	861	88	(5520)	20.1	1	2
HORIZON	870	83	(5210)	21.1	1	4
MIGRO-TEKSEED	SPX 1A	82	(5150)	12.7	1	2
NC+	4666	85	(5340)	15.0	2	1
PIONEER	3591	78	(4900)	12.5	1	4
PIONEER	3713	82	(5150)	10.2	1	5
PIONEER	3720	83	(5210)	11.1	4	4
TODD	MX73A	80	(5020)	21.2	2	3
TODD	M30	78	(4900)	11.4	1	2
WILSON	1016	85	(5340)	12.7	2	2
WILSON	1812	83	(5210)	16.5	2	6
AVERAGE ALL ENTRIES		82.0	(5148)	16.2	1.6	3.3
DIF. REQ. FOR SIG. 5%		N.S.		2.5	N.S.	N.S.
25%		N.S.		1.4	N.S.	2.4
		3 YEAR AVERAGE				
-----	NEBR. 611	85	(5340)	22.9	1	3
ACCO	UC 7601	83	(5210)	21.1	1	1
FONTANELLE	500	79	(4960)	19.7	1	1
FONTANELLE	580	81	(5090)	23.7	1	2
MIGRO-TEKSEED	SPX 1A	82	(5150)	16.3	1	1
WILSON	1016	85	(5340)	15.1	2	2
AVERAGE ALL ENTRIES		82.5	(5179)	19.8	1.2	1.7
DIF. REQ. FOR SIG. 5%		N.S.		2.4	N.S.	N.S.
25%		N.S.		1.3	N.S.	N.S.

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

LOCATION LISTING OF ENTRY MEANS

TABLE 7a. ZONE III IRRIGATED. CENTRAL. BROWN COUNTY. 1979. EXPT=7971

BRAND	HYBRID	YIELD BU/A	YIELD KG/HA	PCT MOISTURE	PCT BROKEN PLANTS	PCT DROPPED EARS	BUSHEL WEIGHT LBS	EARLY STALK BREAKAGE
-----	NEBR. 611	132	(8290)	29.2	4	0	50.5	4
ACCO	UC 7601	116	(7280)	29.3	1	1	50.3	13
ACCO	UC 7951	115	(7220)	31.8	3	0	48.0	6
ACCO	UC 8201	138	(8660)	29.0	1	0	----	5
ACCO	X 7480 1	116	(7280)	27.5	3	1	51.0	13
ASGROW	RX 544	129	(8100)	26.2	2	1	53.0	1
ASGROW	RX 777	131	(8220)	25.2	5	0	54.0	8
BC-JAC	14	139	(8730)	20.9	1	0	55.0	1
BC-JAC	28	121	(7600)	22.5	3	0	53.3	12
BC-JAC	37	122	(7660)	25.1	2	4	52.0	2
BC-JAC	432	136	(8540)	24.7	2	1	51.0	2
CARGILL	872	112	(7030)	23.1	8	0	52.0	16
CARGILL	892	115	(7220)	23.9	3	0	52.0	11
CARGILL	921	94	(5900)	26.1	2	0	51.0	50
CARGILL	924	111	(6970)	26.7	5	0	54.0	27
CENEX	2157	125	(7850)	22.9	7	1	53.0	13
CENEX	2371	100	(6280)	26.6	3	0	48.5	24
CENEX	2380	130	(8160)	28.8	3	0	47.5	6
CIRCLE SEED	CS-205	142	(8910)	24.4	4	0	51.3	1
CIRCLE SEED	CS-206	128	(8040)	24.6	7	0	51.0	2
CIRCLE SEED	CS-208	137	(8600)	23.7	1	1	54.0	1
CIRCLE SEED	CS-215	123	(7720)	28.7	12	0	51.5	3
CC-CP	2105	99	(6220)	21.5	3	0	54.0	8
CC-CP	2260	125	(7850)	24.2	3	2	52.0	3
CC-CP	2300	130	(8160)	29.0	2	0	48.0	4
CURRY	SC-1414	130	(8160)	23.5	4	0	51.0	2
CURRY	SC-1428	133	(8350)	21.9	6	0	54.0	1
CURRY	SC-1444	154	(9670)	21.2	4	1	56.3	2
CURRY	SC-150	144	(9040)	29.1	3	1	50.5	7
CUSTOM FARM SEED	CFS WX220	125	(7850)	28.3	7	1	53.0	5
CUSTOM FARM SEED	CFS 222	146	(9170)	28.4	3	0	47.8	1
DEKALB	XL23	106	(6650)	22.8	6	1	54.0	17
DEKALB	XL30A	89	(5590)	22.2	3	0	54.0	17
DEKALB	XL54	87	(5460)	26.1	5	0	54.0	47
DEKALB	XL55A	106	(6650)	25.2	2	0	54.3	16
FONTANELLE	400	154	(9670)	24.2	3	0	54.0	0
FONTANELLE	420	141	(8850)	23.9	2	2	54.3	2
FONTANELLE	450	129	(8100)	27.9	2	1	51.3	9
FONTANELLE	580	132	(8290)	29.6	1	0	47.8	2
FUNK'S	G-4323	121	(7600)	24.0	3	2	52.5	1
FUNK'S	G-4430	135	(8480)	26.4	4	1	53.3	4
FUNK'S	G-4450	127	(7970)	26.4	4	0	54.8	6
FUNK'S	G-4507	145	(9100)	29.2	2	1	50.0	3
GOLD TAG	GT 2060	120	(7530)	23.8	2	4	54.0	0
GOLD TAG	GT 3020	133	(8350)	30.0	3	1	48.0	3
GOLD TAG	GT 770	135	(8480)	24.3	3	0	52.0	3
GOLDEN ACRES	T-E 6925	115	(7220)	23.7	9	1	55.0	3
GOLDEN ACRES	T-E 6995	133	(8350)	30.6	4	0	49.5	4
GOLDEN ACRES	T-E 6995-A	125	(7850)	27.7	2	0	49.5	9
GUTWEIN	2340	130	(8160)	25.3	4	1	52.0	9
HORIZON	131	132	(8290)	24.5	1	1	52.8	2
HORIZON	841	116	(7280)	27.9	4	1	49.3	6
HORIZON	861	134	(8410)	29.7	4	0	----	6
HORIZON	870	148	(9290)	29.1	2	0	48.0	2
JACQUES	JX107	52	(3260)	21.7	2	0	55.0	35
JACQUES	JX180	126	(7910)	29.8	3	1	47.8	4
KELTGEN	KS100	120	(7530)	20.4	5	0	54.3	1
KELTGEN	KS106	130	(8160)	24.2	2	2	52.0	1
KELTGEN	KS109	127	(7970)	25.6	2	2	50.3	2
KELTGEN	KS115	150	(9420)	29.8	3	0	48.3	3
LYNKS	LX 412C	148	(9290)	23.7	3	1	54.0	1
LYNKS	LX 422CA	126	(7910)	23.7	2	1	47.8	4
LYNKS	LX 433C	139	(8730)	29.7	3	0	53.3	4

TABLE 7a. CONCLUDED.

EXPT=7971

BRAND	HYBRID	YIELD BU/A	YIELD KG/HA	PCT MOISTURE	PCT BROKEN PLANTS	PCT DROPPED EARS	BUSHEL WEIGHT LBS	EARLY STALK BREAKAGE
MCCURDY	MSX 46	129	(8100)	22.5	2	1	51.0	1
MCCURDY	MSX 60	132	(8290)	25.4	1	0	49.3	5
MCCURDY	MSX 77	95	(5960)	27.5	2	0	----	19
MCCURDY	6475	128	(8040)	24.8	2	0	53.5	2
MIGRO-TEKSEED	HP 23	125	(7850)	25.2	3	3	53.0	2
MIGRO-TEKSEED	SPX 1A	142	(8910)	24.1	7	1	52.0	2
MIGRO-TEKSEED	SPX 328	128	(8040)	28.4	2	0	50.3	3
MIGRO-TEKSEED	SPX 8	117	(7350)	25.3	2	0	52.0	14
NC+	X5950	124	(7780)	26.9	2	0	53.8	18
NC+	3990	154	(9670)	23.5	3	1	55.3	1
NC+	4222	131	(8220)	23.9	4	2	53.8	2
NORTHRUP KING	PX49	101	(6340)	21.3	12	0	----	35
NORTHRUP KING	PX59	102	(6400)	22.6	9	0	55.0	23
NORTHRUP KING	PX69A	106	(6650)	24.3	10	0	53.8	14
O'S GOLD	EXP 5514	100	(6280)	27.1	3	0	51.8	28
O'S GOLD	SX3344	138	(8660)	29.5	4	0	49.0	0
P-A-G	SX 249	126	(7910)	23.4	3	0	54.0	5
P-A-G	SX 277	127	(7970)	24.2	3	1	52.0	6
P-A-G	SX 397	58	(3640)	23.5	3	0	55.3	75
PACIFIC OILSEEDS	PCI-33	138	(8660)	23.1	3	1	53.0	2
PACIFIC OILSEEDS	PCI-414	147	(9230)	29.0	2	1	49.0	4
PACIFIC OILSEEDS	PCI-44	126	(7910)	20.2	4	1	56.0	0
PACIFIC OILSEEDS	PCI-80	93	(5840)	30.4	2	0	----	36
PIONEER	3386	123	(7720)	27.3	3	0	52.0	20
PIONEER	3541	126	(7910)	24.6	1	1	53.0	3
PIONEER	3720	125	(7850)	21.7	8	0	54.0	14
PIONEER	3780	124	(7780)	19.9	3	2	53.3	3
PRAIRIE VALLEY	362	125	(7850)	23.6	3	0	54.5	22
PRAIRIE VALLEY	595	136	(8540)	23.9	1	0	51.0	5
PRAIRIE VALLEY	600	122	(7660)	26.2	2	0	52.0	7
PRAIRIE VALLEY	765	147	(9230)	28.5	3	0	49.5	3
TALL CORN	SX110	137	(8600)	23.9	4	2	54.0	2
TALL CORN	SX115	139	(8730)	30.4	7	1	50.0	2
TROJAN	TXS115A	133	(8350)	29.8	7	1	50.0	6
TROJAN	T1058	124	(7780)	24.6	2	3	55.0	4
TROJAN	T1108	45	(2830)	24.9	1	0	52.0	73
TROJAN	T1120	108	(6780)	29.4	3	0	49.8	11
WEATHER MASTER	EPX 788	124	(7780)	31.2	11	1	48.5	6
WEATHER MASTER	EPX 888	121	(7600)	27.4	1	0	50.3	7
WEATHER MASTER	EPX 973	90	(5650)	31.3	1	0	----	58
WILSON	1016	137	(8600)	25.3	6	1	55.4	2
WILSON	1400A	133	(8350)	24.2	1	3	53.3	0
WILSON	1800	136	(8540)	28.7	2	0	50.0	6
WILSON	2317	128	(8040)	25.9	1	1	51.1	8
WINTERSET	CB62	135	(8480)	23.8	3	0	53.5	3
WINTERSET	CB68	148	(9290)	29.3	3	1	50.3	4
AVERAGE ALL ENTRIES		124.2	(7797)	25.8	3.5	0.6	52.0	9.6
DIF. REQ. FOR SIG.	5%	18.7	(1174)	1.5	N.S.	1.7	----	13.6
	25%	11.0	(691)	0.9	3.5	1.0	----	8.0

A severe storm in late July caused heavy stalk breakage with corresponding reductions in yield. Some entries were more affected than others. The stage of growth may have been a factor in damage. This type of storm represents an abnormal situation. This should be considered in interpreting the data. These data are not being included in period-of-years averages.

Table 7b. Zone III Irrigated. Central. 1974-1978.

Brand	Hybrid	Grain yield	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	%	%	%
		Two-year average			
-----	Nebr. 611	150 (9420)	21.6	7	1
ACCO	UC 7601	172 (10800)	22.7	4	0
Coop	2300	171 (10740)	21.5	7	2
Custom Farm Seed	CFS W220	164 (10300)	19.8	10	1
Custom Farm Seed	CFS 222	168 (10550)	22.9	5	0
Fontanelle	400	142 (8910)	16.9	10	2
Fontanelle	450	169 (10610)	20.9	3	1
Funk	G-4430	140 (8790)	18.7	18	5
Jacques	JX180	179 (11240)	21.8	5	1
Lynks	LX4120	127 (7970)	17.2	9	2
McCurdy	MSX 46	145 (9100)	16.2	4	1
McCurdy	MSX 60	162 (10170)	20.0	6	1
Migro-Tekseed	SPX 8	152 (9540)	18.1	7	1
O's Gold	SX344	168 (10550)	23.7	6	1
P-A-G	SX 397	158 (9920)	17.3	19	0
Pioneer	3541	157 (9860)	17.4	3	0
Prairie Valley	PV362	156 (9790)	16.6	6	2
Average all entries		157.6 (9894)	19.6	7.6	1.2
Dif. req. for sig. 5%		23.5 (1475)	2.4	N.S.	N.S.
25%		13.5 (848)	1.4	6.0	N.S.
		Three-year average			
-----	Nebr. 611	137 (8600)	23.3	5	1
Fontanelle	400	137 (8600)	18.6	7	1
Lynks	LX4120	123 (7720)	18.1	10	2
McCurdy	MSX 46	136 (8540)	16.7	3	1
McCurdy	MSX 60	147 (9230)	22.1	4	1
Migro-Tekseed	SPX 8	144 (9040)	18.9	5	1
O's Gold	SX3344	147 (9230)	24.7	4	1
P-A-G	SX 397	140 (8790)	18.7	15	1
Pioneer	3541	148 (9290)	18.5	2	0
Average all entries		139.9 (8783)	20.0	6.1	1.0
Dif. req. for sig. 5%		N.S.	2.2	N.S.	N.S.
25%		N.S.	1.3	4.6	N.S.
		Four-year average			
-----	Nebr. 611	142 (8910)	21.9	4	1
Fontanelle	400	143 (8980)	17.8	6	1
McCurdy	MSX 46	142 (8910)	16.0	3	1
McCurdy	MSX 60	154 (9670)	20.4	3	1
Migro-Tekseed	SPX 8	143 (8980)	17.7	4	1
P-A-G	SX 397	148 (9290)	17.8	11	0
Pioneer	3541	152 (9540)	17.0	2	0
Average all entries		146.3 (9185)	18.4	4.7	0.7
Dif. req. for sig. 5%		N.S.	2.2	N.S.	N.S.
25%		N.S.	1.3	3.4	N.S.
		Five-year average			
-----	Nebr. 611	149 (9350)	23.6	3	0
Fontanelle	400	145 (9100)	19.4	4	1
McCurdy	MSX 46	148 (9290)	17.5	3	1
McCurdy	MSX 60	160 (10040)	22.4	3	1
Average all entries		150.5 (9448)	20.7	3.3	0.8
Dif. req. for sig. 5%		N.S.	2.0	N.S.	N.S.
25%		8.2 (515)	1.1	N.S.	N.S.

Includes only hybrids entered in 1979. Data from 1979 are not included.
Location of tests (counties): 1974 Custer; 1975 Valley; 1976 McPherson, Keith,; 1977 Custer; 1978 Logan, Chase.

TABLE 8a. ZONE IV IRRIGATED. SUMMARY 1979.

		YIELD				1979 AVERAGE		
		AVERAGE		SCOTTS BLUFF	BOX BUTTE			
BRAND	HYBRID	BU/A	KG/HA	BU/A	BU/A	MOISTURE	BROKEN PLANTS	BUSHEL WEIGHT
ACCO	UC 1905	146	(9170)	166	126	21	1	57.0
ACCO	UC 2851	139	(8730)	165	112	23	1	55.7
ACCO	UC 2951	153	(9610)	170	135	21	0	56.0
ACCO	X 74451	143	(8980)	159	127	25	1	54.3
BC-JAC	14	143	(8980)	164	121	21	0	55.4
BC-JAC	28	154	(9670)	180	127	22	0	56.4
BC-JAC	37	155	(9730)	179	131	25	0	54.1
BC-JAC	432	151	(9480)	189	112	25	0	54.0
CARGILL	832	113	(7090)	117	108	20	1	56.4
CARGILL	838	151	(9480)	160	141	21	1	56.1
GENEX	2119	149	(9350)	169	128	20	2	56.1
GENEX	2134	120	(7530)	147	92	24	0	54.3
GENEX	2157	152	(9540)	182	122	22	1	54.8
CC-CP	2100	142	(8910)	154	130	23	1	55.7
CC-CP	2105	120	(7530)	124	115	22	1	56.7
CORN KING	1122	137	(8600)	151	123	25	0	54.2
DEKALB	XL15	149	(9350)	166	132	20	0	56.8
DEKALB	XL23	129	(8100)	151	107	23	0	56.8
DEKALB	XL25A	147	(9230)	160	133	21	0	57.3
DEKALB	XL32A	148	(9290)	175	120	25	0	53.7
FONTANELLE	330	122	(7660)	147	97	22	0	56.9
FONTANELLE	400	142	(8910)	168	115	25	1	54.4
FUNK'S	G-4224	150	(9420)	178	122	21	1	56.9
FUNK'S	G-4315	154	(9670)	177	131	23	0	55.0
FUNK'S	G-4323	148	(9290)	171	124	25	0	53.5
GOLDEN ACRES	T-E 6925	138	(8660)	168	107	24	0	54.5
HORIZON	109	133	(8350)	154	111	25	1	55.1
HORIZON	131	139	(8730)	163	115	25	0	53.2
HORIZON	861	151	(9480)	183	118	29	0	51.3
HORIZON	870	140	(8790)	180	100	31	0	50.9
KELTGEN	KS100	125	(7850)	151	98	21	1	57.6
KELTGEN	KS102	151	(9480)	183	119	25	0	53.8
KELTGEN	KS94	130	(8160)	137	123	21	0	58.5
LYNKS	LX 4020	124	(7780)	141	107	21	1	57.7
LYNKS	LX 4050	135	(8480)	159	111	20	1	55.8
LYNKS	LX 4120	158	(9920)	182	134	24	1	54.0
MCCURDY	MSX 37	141	(8850)	156	126	20	1	56.0
MCCURDY	MSX 42	158	(9920)	185	130	23	1	55.2
MCCURDY	5596	172	(10800)	201	142	24	0	55.0
MCCURDY	6475	150	(9420)	178	122	25	0	54.9
NC+	2999	155	(9730)	183	126	25	1	53.8
NC+	33	154	(9670)	179	129	24	0	54.3
NORTHRUP KING	PX24	135	(8480)	156	113	19	1	55.6
NORTHRUP KING	PX37	150	(9420)	172	128	22	0	54.8
NORTHRUP KING	PX49	152	(9540)	172	131	21	1	57.4
O'S GOLD	SX1101	148	(9290)	168	127	21	0	57.6
O'S GOLD	SX1107	154	(9670)	185	123	24	1	54.6
P-A-G	EXP 263048	150	(9420)	161	138	22	1	58.8
P-A-G	SX 189	150	(9420)	176	124	24	1	56.3
PAYCO	SX844	137	(8600)	169	105	25	0	53.8
PIONEER	3713	148	(9290)	154	142	23	0	56.0
PIONEER	3780	146	(9170)	167	124	20	0	56.2
PIONEER	3901	154	(9670)	170	138	21	0	55.8
PIONEER	3906	132	(8290)	148	116	21	0	56.4
PRAIRIE VALLEY	181	119	(7470)	158	80	21	3	56.4
PRAIRIE VALLEY	390	156	(9790)	183	128	26	0	53.8
PRAIRIE VALLEY	430	153	(9610)	183	122	23	0	54.9
TROJAN	TXS94	109	(6840)	130	88	22	0	57.5
TROJAN	T1008	141	(8850)	159	122	22	0	58.0
TROJAN	T1058	129	(8100)	140	118	25	0	54.3
TROJAN	T929	139	(8730)	164	114	19	1	56.4
AVERAGE ALL ENTRIES		142.8	(8965)	165.0	120.2	22.7	0.5	55.5
DIF. REQ. FOR SIG.	5%	22.7	(1425)	31.3	22.5	2.5	N.S.	1.4
	25	13.2	(829)	18.3	13.2	1.4	N.S.	0.8

TABLE 8b. ZONE IV IRRIGATED. 1975-1979.

BRAND	HYBRID	YIELD BU/A	YIELD KG/HA	PCT MOISTURE	PCT BROKEN	PCT DROPPED	WEIGHT LBS/BU
			2 YEAR AVERAGE				
ACCO	JC 2951	140	(8790)	23.9	0	.	54.7
BO-JAC	14	130	(8160)	22.8	0	.	54.4
BO-JAC	28	141	(8850)	24.6	0	.	54.9
CARGILL	832	115	(7220)	22.7	1	.	55.2
CARGILL	838	134	(8410)	24.2	1	.	54.1
CENEX	2157	150	(9420)	24.5	1	.	53.6
CO-OP	2100	135	(8480)	24.0	1	.	55.3
CO-OP	2105	117	(7350)	24.8	1	.	54.3
CORN KING	1122	127	(7970)	27.6	0	.	52.8
FONTANELLE	400	132	(8290)	26.7	1	.	53.7
FUNK'S	G-4224	134	(8410)	24.1	1	.	55.5
KELTGEN	KS102	138	(8660)	27.0	0	.	52.6
KELTGEN	KS94	122	(7660)	23.6	0	.	55.7
LYNKS	LX 4020	128	(8040)	23.1	1	.	56.4
LYNKS	LX 4120	138	(8660)	26.1	1	.	53.0
MCCURDY	MSX 42	147	(9230)	26.3	1	.	53.5
NC+	2999	143	(8980)	26.8	1	.	51.9
NC+	33	147	(9230)	26.8	0	.	53.3
NORTHRUP KING	PX37	143	(8980)	25.8	0	.	52.9
NORTHRUP KING	PX49	142	(8910)	23.1	1	.	55.9
O'S GOLD	SX1101	145	(9100)	22.4	0	.	56.2
O'S GOLD	SX1107	144	(9040)	27.5	1	.	52.0
P-A-G	SX 189	141	(8850)	26.5	1	.	54.2
PIONEER	3713	142	(8910)	24.8	0	.	54.7
PIONEER	3780	139	(8730)	23.2	0	.	54.0
PIONEER	3901	146	(9170)	22.6	0	.	54.3
PRAIRIE VALLEY	181	125	(7850)	22.1	3	.	55.3
PRAIRIE VALLEY	430	147	(9230)	25.1	0	.	53.1
TROJAN	TXS94	113	(7090)	24.8	0	.	55.3
TROJAN	T1008	125	(7850)	24.1	0	.	56.1
TROJAN	T1058	128	(8040)	28.3	0	.	52.4
AVERAGE ALL ENTRIES		135.4	(8500)	24.8	0.5		54.2
DIF. REQ. FOR SIG. 5%		18.4	(1155)	2.0	N.S.		1.6
25%		10.6	(665)	1.2	N.S.		0.9
			3 YEAR AVERAGE				
CARGILL	838	136	(8540)	21.2	4	0	55.1
CORN KING	1122	140	(8790)	24.1	0	0	53.9
FONTANELLE	400	143	(8980)	23.8	0	0	54.2
LYNKS	LX 4120	141	(8850)	23.2	0	0	53.6
NC+	33	154	(9670)	23.9	2	0	53.9
O'S GOLD	SX1101	151	(9480)	20.2	1	0	57.0
PIONEER	3780	147	(9230)	20.3	1	0	54.9
PRAIRIE VALLEY	430	156	(9790)	22.3	3	0	54.2
AVERAGE ALL ENTRIES		146.1	(9172)	22.4	1.4	0.0	54.6
DIF. REQ. FOR SIG. 5%		N.S.		1.9	---	---	1.2
25%		N.S.		1.1	---	---	0.7
			4 YEAR AVERAGE				
CORN KING	1122	142	(8910)	23.6	1	0	54.2
NC+	33	150	(9420)	24.0	2	0	54.4
O'S GOLD	SX1101	149	(9350)	19.8	1	0	57.1
PIONEER	3780	145	(9100)	20.1	1	0	54.8
AVERAGE ALL ENTRIES		146.6	(9204)	21.9	1.3	0.0	55.1
DIF. REQ. FOR SIG. 5%		N.S.		2.0	N.S.	---	1.2
25%		N.S.		1.1	N.S.	---	0.6
			5 YEAR AVERAGE				
CORN KING	1122	137	(8600)	22.8	1	0	53.8
NC+	33	145	(9100)	23.2	1	0	53.8
PIONEER	3780	139	(8730)	18.8	1	0	54.4
AVERAGE ALL ENTRIES		140.4	(8814)	21.6	1.0	0.0	54.0
DIF. REQ. FOR SIG. 5%		N.S.		1.7	N.S.	N.S.	N.S.
25%		N.S.		0.9	N.S.	N.S.	N.S.

TABLE 9a. ECOFALLOW EARLY HYBRIDS. SUMMARY 1979.

		YIELD				1979 AVERAGE				
BRAND	HYBRID	AVERAGE BU/A	AVERAGE KG/HA	CHEYENNE BU/A	LINCOLN BU/A	CUSTER BU/A	MOISTURE	BROKEN PLANTS	DROPPED EARS	BUSHEL WEIGHT	EARS/100 PLANTS
ACGC	UC 2851	65	(4080)	21	90	85	22	1	2	49.3	120
ACGC	UC 2951	68	(4270)	27	95	81	21	0	0	50.6	118
ACGC	X 74451	68	(4270)	17	96	90	24	1	1	50.2	115
BO-JAC	37	68	(4270)	27	87	91	25	0	0	48.2	107
CENEX	2111	69	(4330)	31	86	90	18	1	1	53.6	112
CENEX	2119	70	(4390)	33	98	80	16	0	1	51.4	125
CENEX	2157	72	(4520)	27	99	90	21	0	2	51.1	144
FUNK'S	G-4288	62	(3890)	27	84	76	23	1	2	49.2	116
GOLDEN ACRES	T-E 6925	63	(3960)	13	92	84	25	1	1	47.1	110
HORIZON	841	52	(3260)	15	70	72	29	2	1	49.4	107
HORIZON	870	66	(4140)	21	101	75	33	1	1	46.0	105
NOH	33	65	(4080)	20	89	85	22	0	0	50.6	102
PAYCO	SX990	61	(3830)	19	78	85	30	1	2	48.6	105
PIONEER	3720	73	(4580)	29	98	91	19	1	1	51.0	114
PIONEER	3732	73	(4580)	23	99	96	18	0	1	51.7	129
PIONEER	3901	74	(4650)	23	108	91	17	0	2	51.3	129
PIONEER	3906	69	(4330)	29	89	90	16	0	1	53.2	116
TROJAN	TXS102	71	(4460)	22	98	93	23	1	0	49.1	106
TROJAN	TXS94	72	(4520)	29	96	90	19	1	2	51.8	106
TROJAN	T1058	67	(4210)	30	87	84	25	1	1	51.1	107
TROJAN	T929	68	(4270)	27	89	87	16	0	2	52.2	110
AVERAGE ALL ENTRIES		67.4	(4231)	24.3	91.9	86.0	21.9	0.6	1.1	50.3	114.4
DIF. REQ. FOR SIG.	5%	9.5	(596)	8.8	11.8	8.9	4.3	N.S.	N.S.	2.5	19.8
	25%	5.5	(345)	5.1	6.9	5.2	2.5	N.S.	N.S.	1.4	11.2

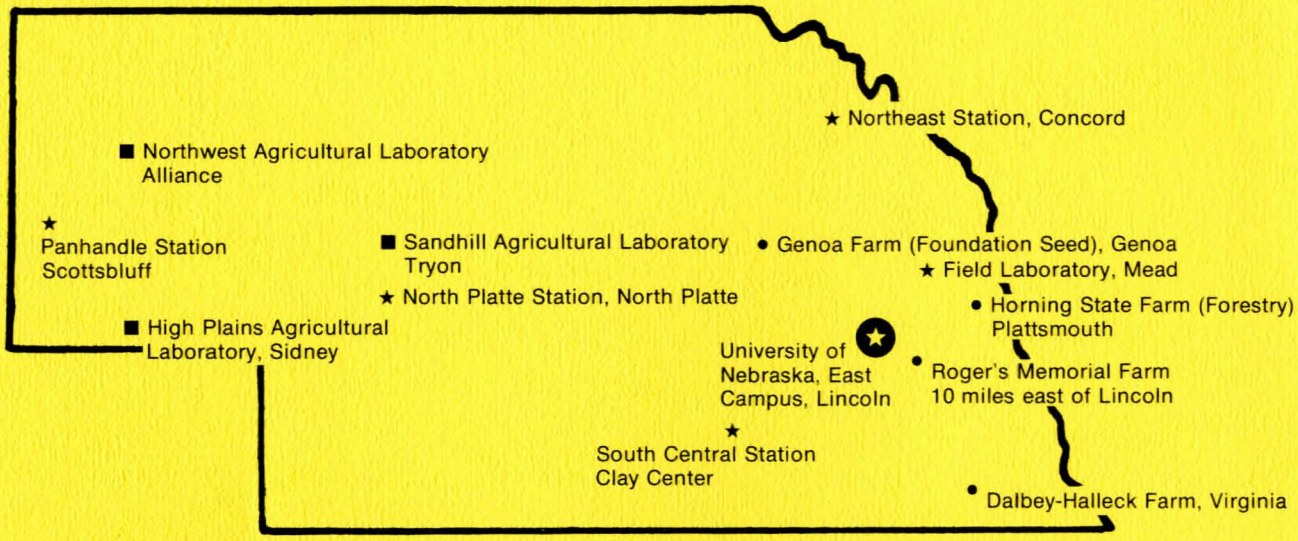
Bushel weight from Cheyenne County.
Ears/100 plants from Lincoln and Custer Counties.

TABLE 9b. ECOFALLOW. EARLY HYBRIDS. 1977-1979.

BRAND	HYBRID	YIELD BU/A	YIELD KG/HA	PCT MOISTURE	PCT BROKEN	PCT DROPPED
		2 YEAR AVERAGE				
ACCO	UC 2951	47	(2950)	15.8	1	0
CENEX	2111	47	(2950)	14.4	2	3
CENEX	2157	46	(2890)	18.9	0	1
NC+	33	47	(2950)	17.5	1	2
PIONEER	3720	52	(3260)	15.2	2	1
PIONEER	3901	55	(3450)	12.7	1	2
TROJAN	TXS102	50	(3140)	18.5	1	1
TROJAN	TXS94	52	(3260)	14.2	2	2
TROJAN	T1058	47	(2950)	19.7	0	1
AVERAGE ALL ENTRIES		49.2	(3089)	16.3	1.1	1.4
DIF. REQ. FOR SIG.	5%	N.S.		3.4	N.S.	N.S.
	25%	3.9	(245)	1.9	N.S.	N.S.
		3 YEAR AVERAGE				
NC+	33	60	(3770)	17.8	1	2
TROJAN	TXS102	65	(4080)	18.8	0	1
AVERAGE ALL ENTRIES		62.6	(3930)	18.3	0.5	1.5
DIF. REQ. FOR SIG.	5%	N.S.		N.S.	N.S.	N.S.
	25%	4.5	(283)	0.7	N.S.	0.7

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

Agricultural Research for All of Nebraska



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

The Cooperative Extension Service transmits data to users through District and County Extension Offices. Area and County Extension Agents are available to provide additional interpretation and more specific recommendations.

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

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