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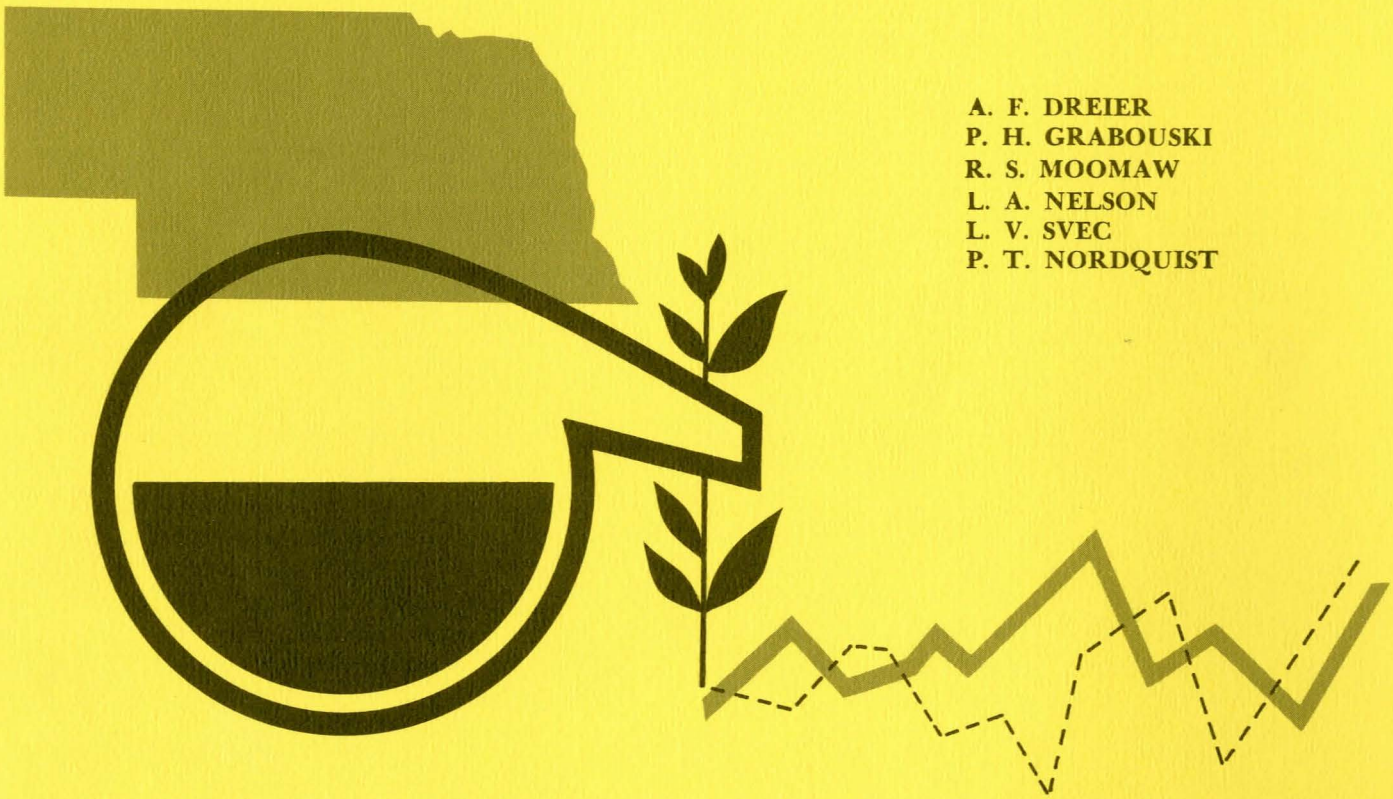
Institute of Agriculture
and Natural Resources

NEBRASKA CORN PERFORMANCE TESTS 1978



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

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

The Agricultural Experiment Station
Institute of Agriculture and Natural Resources
University of Nebraska–Lincoln
H. W. Ottoson, Director

EXTENSION CIRCULAR 78-105

January 1979

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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 PRODUCTION

The harvested acreage, average yield and production of corn for grain in Nebraska were as follows:

Year	Harvested acres (ha) (000)	Grain yield bu/A (kg/ha)	Production bushels (metric tons) (000)
1920	7,316 (2963)	33.2 (2084)	242,891 (6 169)
1930	8,819 (3572)	25.0 (1570)	220,475 (5 600)
1940	4,658 (1886)	20.5 (1886)	95,489 (2 425)
1945	8,020 (3248)	29.0 (1821)	232,580 (5 908)
1950	6,710 (2718)	36.0 (2260)	241,560 (6 136)
1955	4,775 (1934)	20.0 (1256)	95,550 (2 427)
1956	4,037 (1635)	23.5 (1475)	94,870 (2 410)
1957	4,718 (1911)	46.5 (2919)	219,387 (5 572)
1958	5,415 (2193)	51.0 (3202)	276,165 (7 015)
1959	6,558 (2656)	48.5 (3045)	318,063 (8 079)
1960	6,538 (2648)	51.0 (3202)	333,438 (8 469)
1961	5,296 (2145)	52.0 (3265)	275,392 (6 995)
1962	5,031 (2038)	60.5 (3798)	304,376 (7 731)
1963	5,031 (2038)	57.0 (3578)	286,767 (7 284)
1964	3,793 (1536)	54.0 (3390)	204,822 (5 202)
1965	3,565 (1444)	70.0 (4395)	249,550 (6 339)
1966	4,100 (1661)	80.0 (5022)	328,000 (8 331)
1967	4,510 (1827)	74.0 (4646)	333,740 (8 477)
1968	4,239 (1717)	74.0 (4646)	313,686 (7 968)
1969	4,620 (1871)	94.0 (5901)	434,280 (11 030)
1970	4,828 (1955)	76.0 (4771)	366,928 (9 320)
1971	5,300 (2147)	85.0 (5336)	450,500 (11 443)
1972	5,135 (2080)	104.0 (6529)	534,040 (13 565)
1973	5,850 (2369)	93.0 (5839)	544,050 (13 819)
1974	5,700 (2309)	68.0 (4269)	387,600 (9 845)
1975	5,920 (2398)	85.0 (5336)	503,200 (12 781)
1976	6,100 (2471)	85.0 (5336)	518,500 (13 170)
1977	6,550 (2653)	99.0 (6215)	648,450 (16 471)
1978	6,350 (2572)	113.0 (7094)	740,150 (18 800)

NEBRASKA CORN PERFORMANCE TESTS
1978

The 1978 Nebraska corn crop set new rcords for average state yield and total production. Estimated yields were as follows:

	Yield, bu/A (kg/ha)			
	1972	1976	1977	1978
State	104.0 (6529)	85.0 (5336)	99.0 (6215)	112.0 (7031)
Irrigated	124.0 (7784)	112.0 (7031)	116.0 (7282)	125.0 (7848)
Dryland	85.4 (5361)	40.4 (2536)	64.2 (4030)	84.7 (5317)

The previous record state average yield was set in 1972. Recent increases in irrigated average account in part for higher state averages. In 1978, harvested acreages for grain were as follows: total 6,550,000 (2,652,750), irrigated 4,600,000 (1,863,000) and nonirrigated 1,950,000 (789,750).

The April through September temperature and rainfall data for Nebraska are shown in Table A. May and August temperatures were below normal over all of the state. Rainfall in June was much less than normal. September was warmer and drier than normal except in the Southeast.

Eighteen corn performance tests were planted in 1978. Locations by maturity zones are shown on the map (Page 8). Names of cooperators and dates of planting and harvest are shown in Table B.

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

These trials were conducted to provide yield and other information about some of the corn hybrids offered for sale in Nebraska. A fee was charged to cover a portion of the cost of conducting trials. Hybrids were selected by the entrant and each was limited to 4 hybrids in each test.

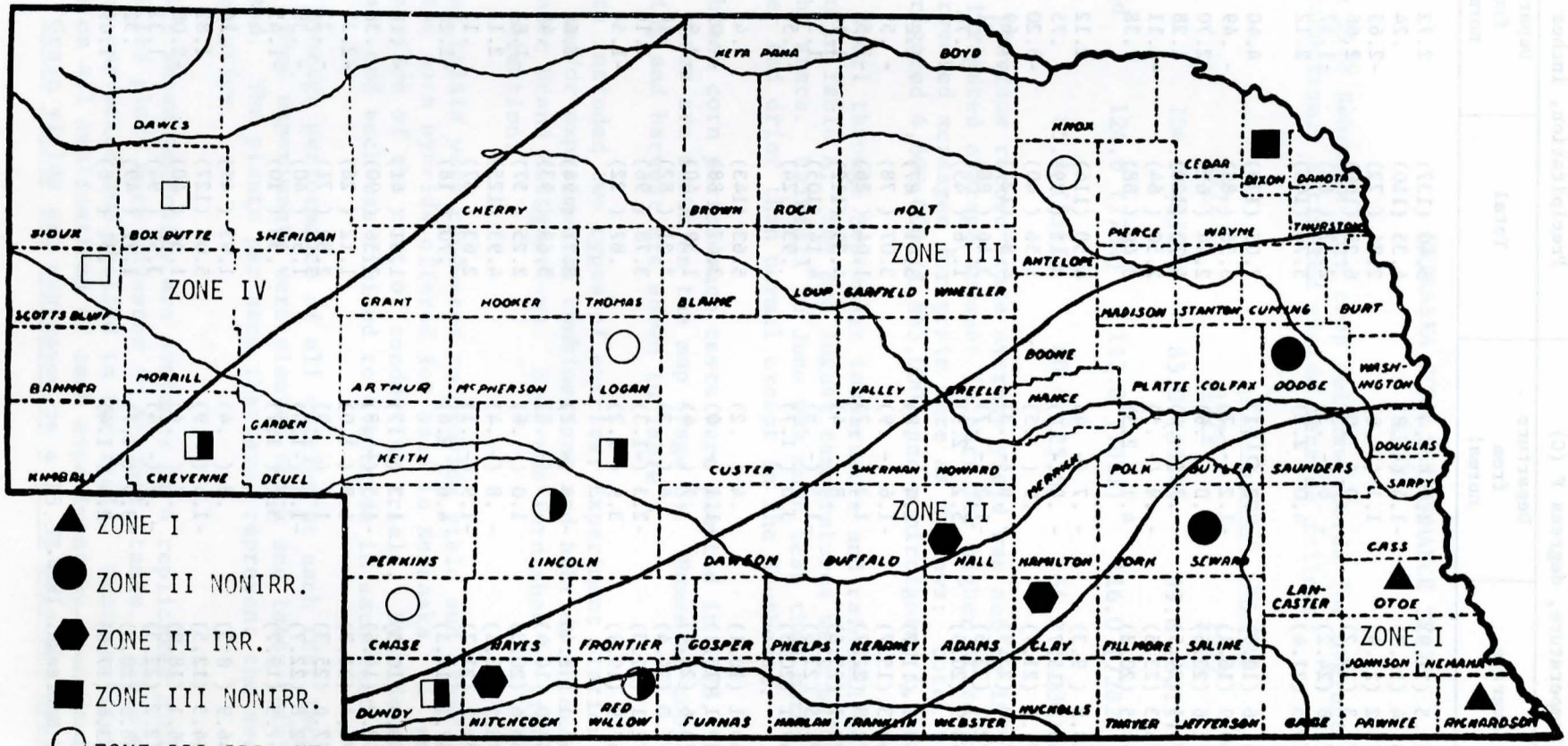
The average performance of all entries at each test location is shown in Table C. Some experiments were planted thick and later thinned to the desired stand. The plants per acre (hectare) represent the average harvested plant population.

Yields shown generally are averages of 4 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.

Table A. Temperature and precipitation data. Nebraska. 1978.

Division and month	Temperature, degrees F (C)		Precipitation, inches (mm)	
	Average	Departure from normal	Total	Departure from normal
Southeast				
April	53.5 (11.9)	1.0 (1.4)	5.40 (137)	2.72 (69)
May	61.4 (16.3)	-1.4 (- .8)	4.35 (110)	.24 (6)
June	73.2 (22.9)	1.1 (.6)	2.84 (72)	-2.65 (-67)
July	77.3 (25.2)	.0 (.0)	6.28 (160)	2.66 (68)
August	75.6 (24.2)	- .6 (- .3)	2.37 (60)	-1.57 (-40)
September	70.5 (21.4)	4.0 (2.2)	5.76 (146)	2.12 (54)
East Central				
April	51.6 (10.9)	.2 (.1)	7.03 (179)	4.40 (111)
May	60.9 (16.1)	-1.2 (- .7)	3.36 (85)	- .49 (-12)
June	72.6 (22.6)	1.0 (.6)	2.44 (62)	-2.70 (-69)
July	76.1 (24.5)	- .7 (- .4)	4.73 (120)	1.28 (33)
August	74.3 (23.5)	- .9 (- .5)	2.50 (64)	-1.11 (-28)
September	69.5 (20.8)	4.1 (2.3)	3.46 (88)	.38 (10)
Northeast				
April	48.8 (9.3)	- .7 (- .4)	4.50 (114)	2.12 (54)
May	60.3 (15.7)	- .3 (- .2)	3.11 (79)	- .75 (-19)
June	71.1 (21.7)	.9 (.5)	1.56 (40)	-3.20 (-81)
July	75.0 (23.9)	- .6 (- .3)	4.84 (123)	1.69 (43)
August	72.7 (22.6)	-1.2 (- .7)	3.46 (88)	.31 (8)
September	68.9 (20.5)	5.2 (2.9)	1.76 (45)	- .76 (-19)
South Central				
April	53.1 (11.7)	1.4 (.8)	3.41 (87)	1.25 (32)
May	60.3 (15.7)	-1.6 (- .9)	3.07 (78)	- .59 (-15)
June	72.8 (22.7)	1.3 (.7)	1.04 (26)	-3.59 (-91)
July	78.1 (25.6)	.8 (.4)	4.39 (112)	1.16 (29)
August	74.5 (23.6)	-1.5 (- .8)	4.14 (105)	1.39 (35)
September	69.1 (20.6)	3.0 (1.7)	.93 (24)	-1.56 (-40)
Central				
April	50.1 (10.1)	.4 (.2)	5.63 (143)	3.45 (88)
May	59.1 (15.1)	-1.1 (- .6)	3.47 (88)	- .09 (- 2)
June	70.6 (21.4)	.7 (.4)	1.59 (40)	-2.94 (-75)
July	76.0 (24.4)	.4 (.2)	3.21 (82)	.10 (3)
August	72.1 (22.3)	-2.3 (-1.3)	3.78 (96)	1.16 (29)
September	67.9 (19.9)	3.9 (2.2)	.87 (22)	-1.54 (-39)
North Central				
April	47.1 (8.4)	- .4 (- .2)	3.71 (94)	1.67 (42)
May	58.0 (14.4)	- .3 (- .2)	3.68 (93)	.44 (11)
June	68.6 (20.3)	1.0 (.6)	2.25 (57)	-1.82 (-46)
July	73.5 (23.1)	- .8 (- .4)	4.93 (125)	2.13 (54)
August	71.1 (21.7)	-1.9 (-1.1)	2.63 (67)	.13 (3)
September	67.1 (19.5)	4.6 (2.6)	.70 (18)	-1.28 (-33)
Southwest				
April	50.9 (10.5)	1.3 (.7)	1.61 (41)	- .18 (- 5)
May	58.2 (14.6)	-1.5 (- .8)	3.56 (90)	.38 (10)
June	71.1 (21.7)	1.8 (1.0)	1.12 (28)	-2.33 (-59)
July	77.6 (25.3)	1.7 (.9)	2.80 (71)	- .22 (- 6)
August	72.8 (22.7)	-1.8 (-1.0)	1.57 (40)	- .59 (-15)
September	67.5 (19.7)	3.1 (1.7)	.38 (10)	-1.45 (-37)
Panhandle				
April	46.9 (8.3)	.8 (.4)	1.93 (49)	.24 (6)
May	54.5 (12.5)	-1.6 (- .9)	5.00 (127)	1.82 (46)
June	66.1 (18.9)	.7 (.4)	1.56 (40)	-2.00 (-51)
July	72.2 (22.3)	- .8 (- .4)	3.69 (94)	1.32 (34)
August	68.5 (20.3)	-3.0 (-1.7)	1.92 (49)	.32 (8)
September	63.6 (17.6)	2.6 (1.4)	.31 (8)	-1.09 (-28)

From Climatological Data, Nebraska, 1978.



- ▲ ZONE I
- ● ZONE II NONIRR.
- ⬢ ZONE II IRR.
- ■ ZONE III NONIRR.
- ○ ZONE III IRR. NE
- ◑ SOUTHWEST ECOFALLOW
- ○ ZONE III IRR.
- □ ZONE IV IRR.
- ◧ ECOFALLOW EARLY HYBRIDS

CORN MATURITY ZONES AND LOCATIONS OF

NEBRASKA CORN PERFORMANCE TESTS. 1978.

Table B. Location, cooperators and dates of planting and harvest. Nebraska Corn Performance Tests. 1978.

Location	Cooperator	Planted	Harvested
Zone I Nonirrigated			
Richardson	Roland Owens, Verdon	May 4	October 5
Otoe	Norman Rohlfing, Talmadge	May 17	October 19
Zone II Nonirrigated			
Dodge	Jim Brune, Dodge	May 11	October 3
Seward	Emil Tesina Jr., Bee	May 16	October 11
Zone II Irrigated			
Clay	South Central Station	May 2	October 11
Hall	Orville Hulme, Cairo	May 9	October 24
Hitchcock	Wendell Wertz, Trenton	May 10	October 9
Zone III Nonirrigated			
Dixon	Northeast Station	May 16	October 26
Zone III Irrigated Northeast			
Antelope	Galen Furstuneau, Neligh		October 31
Southwest Ecofallow			
Lincoln	North Platte Station	May 17	October 5
Red Willow	Paul Schaffert, Bartley	May 15	October 12
Zone III Irrigated			
Logan	John Grabouski, Stapleton	May 12	October 25
Chase	Byron Hust, Imperial	May 11	October 13
Zone IV Irrigated			
Scotts Bluff	Panhandle Station	May 10	October 13
Box Butte	Gary Bends, Alliance	May 11	October 19
Ecofallow Early Hybrids			
Cheyenne	High Plains Ag. Lab.	May 3	October 12
Lincoln	North Platte Station	May 18	September 28
Dundy	Vern Schrader, Benkelman	May 15	October 3

Stalk rot readings were taken previous to harvest in Clay and Hall 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 1 of 4 trials.

Table C. Average performance of hybrids at each test location. 1978.

Location	Row 1/ spacing	Plants per hill	Hill or plant spacing	Plants	Yield C.V.	Grain yield 2/	Harvest moisture	Broken plants	Dropped ears	Yield 3/ moisture correlation
	in (cm)	no	in (cm)	acre (hectare)	%	bu/A (kg/ha)	%	%	%	r
Richardson	30 (76)	2.6	30 (76)	18,120 (44 770)	9.3	112.7 (7 075)	16.6	15.6	4.4	0.24**
Otoe	36 (91)	2.7	30 (76)	15,680 (38 750)	6.0	146.9 (9 222)	16.3	2.8	0.9	0.06
Dodge	30 (76)	2.4	30 (76)	16,730 (41 340)	8.0	135.7 (8 519)	24.0	1.8	0.8	0.45**
Seward	36 (91)	2.7	30 (76)	15,680 (38 750)	9.3	137.8 (8 651)	19.2	0.8	0.4	0.35**
Clay (irr)	30 (76)	drill	7.2 (18)	28,990 (71 630)	10.8	167.8 (10 534)	18.7	22.0	2.6	0.45**
Hall (irr)	30 (76)	drill	7.5 (19)	27,730 (68 520)	11.7	145.8 (9 153)	17.0	3.1	0.4	0.28**
Hitchcock (irr)	30 (76)	drill	9.1 (23)	22,900 (56 590)	17.8	116.5 (7 314)	13.8	8.1	1.3	0.39**
Dixon	30 (76)	drill	13.9 (35)	15,030 (37 140)	10.0	113.4 (7 119)	14.8	2.8	0.7	0.50**
Antelope (irr)	30 (76)	drill	9.8 (25)	21,280 (52 580)	11.2	134.5 (8 444)	16.3	2.6	0.4	0.67**
Lincoln	30 (76)	drill	16.6 (42)	12,580 (31 090)	28.2	24.2 (1 519)	19.6	3.1	2.8	-0.76**
Red Willow	38 (97)	drill	12.7 (32)	13,000 (32 120)	6.5	84.5 (5 305)	10.8	0.3	1.0	0.32*
Logan (irr)	36 (91)	drill	8.8 (22)	19,910 (49 200)	12.2	131.4 (8 250)	17.6	8.9	0.2	0.43**
Chase (irr)	30 (91)	drill	8.7 (22)	23,900 (59 060)	12.8	157.2 (9 864)	17.2	0.7	0.2	0.66**
Scotts Bluff (irr)	30 (76)	drill	7.6 (19)	27,530 (68 030)	14.7	122.6 (7 697)	27.9	----	---	-0.36**
Box Butte (irr)	30 (76)	drill	7.6 (19)	27,530 (68 030)	13.3	126.9 (7 967)	28.2	----	---	-0.05
Cheyenne (e. hybrid)	30 (76)	drill	18.3 (46)	11,440 (28 270)	26.5	27.8 (1 745)	17.0	0.9	0.5	-0.64**
Lincoln (e. hybrid)	30 (76)	drill	15.9 (40)	13,160 (32 520)	29.2	20.4 (1 281)	15.1	2.5	1.0	-0.76**
Dundy (e. hybrid)	30 (76)	drill	19.1 (49)	10,960 (27 080)	23.4	21.0 (1 318)	7.4	0.8	2.8	-0.57**

1/ Hilled plots were 2 rows x 6 hills.
2/ Hand harvest - Richardson, Otoe, Dodge, Seward, Lincoln, Red Willow, Cheyenne, Lincoln (early, Dundy)
Machine harvest- Clay, Hall, Hitchcock, Dixon, Antelope, Logan, Chase, Scotts Bluff, Box Butte.
3/ Correlation between moisture at harvest and acre grain yield. * significant (5% level), ** highly significant (1% level).

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 dis-
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 D. The brand name, hybrid designation and areas where grown for each 1978 entry are shown in Table E.

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

Nebr. Exp. 9057	N139 x B73
Nebr. Exp. 9058	(N139 x Mo17) x B73
Nebr. 411	N152 x B59
Nebr. 611	N7A x Mo17
Nebr. 612	N132 x N131
Nebr. 620	(N7B x N7A) x Mo17
Nebr. 714	B73 x N132
Nebr. 730	(B73 x Mo17) x N132

Except for the experimental combinations, these hybrids are eligible for certification by the Nebraska Crop Improvement Association. The inbred line, N139, has not been released.

Results

Data tables for each zone are shown in sections. The 1978 zone performance is followed by the 2-, 3-, 4- and 5-year data (if available).

These trials were conducted on an area basis with two or more experiments in most zones. In many cases, relative hybrid performance varies with location. Highly significant hybrid x location interactions were obtained in all zones in 1978 except the Zone II Nonirrigated and Zone IV Irrigated trials.

The correlation or r values for the relationship between moisture and yield for each 1978 experiment are shown in Table 6. Higher grain moisture was significantly related to higher yield at 11 locations. Lower grain moisture was related to higher yield at five locations and there was no significant relationship at two 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 season was especially favorable. Period-of-years averages provide a measure of hybrid performance over a wide range of growing conditions. Longer period averages provide a better sampling of environmental conditions. With rapid turnover of hybrids, use of shorter periods becomes necessary in order include newer hybrids.

Table D. Nebraska Corn Performance Tests. List of entries, type of cross and tables in which data are reported. 1978.

Brand	Hybrid	Tables
-----	Nebr. Exp. 9057 (SX)	1,2,3
-----	Nebr. Exp. 9058 (3X)	1, 3
-----	Nebr. 411 (SX)	3,4,5,6,7,8,9
-----	Nebr. 611 (SX)	1,2,3,4,5,6,7
-----	Nebr. 612 (SX)	1
-----	Nebr. 620 (MSX)	1
-----	Nebr. 714 (SX)	1,2,3
-----	Nebr. 730 (3X)	1,2,3
ACCO	U 393 (3X)	1
ACCO	UC 2951 (SX)	8,9
ACCO	UC 3002 (SX)	8,9
ACCO	UC 3301-A (SX)	4,5
ACCO	UC 4201 (SX)	4,5
ACCO	UC 7151 (SX)	4,5
ACCO	UC 7601 (SX)	6,7
ACCO	UC 7951 (SX)	3, 6,7
ACCO	UC 8201 (SX)	1,2,3
ACCO	UC 8951 (SX)	2,3
Asgrow	RX2345 (SX)	4,5, 7,8,9
Asgrow	RX2445 (SX)	6,7
Asgrow	RX4589 (SX)	1
Asgrow	RX58 (SX)	4,5, 7
Asgrow	RX88 (SX)	1
Asgrow	RX90 (SX)	1,2,3,4,5
Asgrow	RX98 (SX)	1,2
Bo-Jac	Exp. 432 (SX)	6
Bo-Jac	X14 (SX)	7,8,9
Bo-Jac	X28 (SX)	8,9
Bo-Jac	X35 (MSX)	7
Bo-Jac	X47 (SX)	2
Bo-Jac	X51 (SX)	3, 7
Bo-Jac	X52A (SX)	3,
Bo-Jac	X56 (SX)	1,2,3, 6
Bo-Jac	X566 (MSX)	1,2, 7
Bo-Jac	X69 (SX)	1, 3, 6
Bo-Jac	X76 (SX)	1,2
Cargill	Exp. 262194 (SX)	1
Cargill	832 (SX)	8,9
Cargill	838 (SX)	8,9
Cargill	920 (SX)	2,3,4,5
Cargill	924 (SX)	1,2,3,4,5, 7
Cargill	949 (SX)	1,2,3,4,5, 7
Cenex	2111 (SX)	8,9
Cenex	2157 (SX)	2, 4,5,6,7,8,9
Cenex	2203 (SX)	2, 4,5,6,7,8,9
Cenex	2380 (SX)	1,2,3, 7
Cenex	2391 (SX)	1,2,3
Conti-Seeds	CG 5450 (SX)	1,2,3,4,5,6,7,8,9
Coop	2100 (SX)	8,9
Coop	2105 (SX)	4,5, 7,8,9
Coop	2260 (SX)	1,2,3,4,5, 7
Coop	2300 (SX)	1,2,3,4,5, 7
Coop	2318 (SX)	1,2,3
Corn King	1122 (SX)	8,9
Curry	SC-1414 (SX)	7
Curry	SC-1421 (SX)	4,5
Curry	SC-1422 (SX)	4,5
Curry	SC-1451 (SX)	4,5
Curry	SC-147 (SX)	2, 7
Curry	SC-150 (SX)	2,3
Curry	SC-151	3
Curry	TC-347 (3X)	2
Custom Farm Seed	CFS W120 (SX)	7
Custom Farm Seed	CFS W220 (SX)	7
Custom Farm Seed	CFS W222 (SX)	3
Custom Farm Seed	CFS 144 (SX)	7
Custom Farm Seed	CFS 222 (SX)	7
DeKalb	XL-12 (SX)	8,9
DeKalb	XL-18 (SX)	8,9
DeKalb	XL-25 (SX)	8,9
DeKalb	XL-321 (3X)	8,9
DeKalb	XL-362AA (3X)	2,3
DeKalb	XL-39 (SX)	7
DeKalb	XL-54 (SX)	4,5
DeKalb	XL-55A (SX)	4,5, 7
DeKalb	XL-62AA (SX)	1,2,3,4,5, 7
DeKalb	XL-63 (SX)	2,3,4,5, 7
DeKalb	XL-72AA (SX)	1,2,3
DeKalb	XL-72B (SX)	1
DeKalb	XL-75 (SX)	1
Federal	FX28	4,5
Federal	FX6 (SX)	4,5
Fontanelle	350 (SX)	8,9
Fontanelle	400 (SX)	4,5, 7,8,9
Fontanelle	430 (MSX)	7
Fontanelle	450 (MSX)	4,5, 7
Fontanelle	500 (MSX)	6
Fontanelle	580 (SX)	1,2,3,4,5,6
Fontanelle	590 (SX)	1,2,3
Fontanelle	660 (SX)	1
Frontier	SX209 (SX)	7
Frontier	SX233 (SX)	1, 3, 7
Frontier	SX234 (SX)	1, 3, 7
Frontier	SX244 (SX)	1, 3, 7
Frundt	SX14 (SX)	3
Frundt	SX33A (SX)	3
Funk	G-4224 (MSX)	8,9
Funk	G-4323 (MSX)	4,5
Funk	G-4430 (SX)	4,5,6,7
Funk	G-4444 (SX)	6
Funk	G-4449 (SX)	6,7
Funk	G-4507 (SX)	2,3
Funk	G-4520 (SX)	3
Funk	G-4583 (3X)	1,2
Funk	G-4606 (MSX)	1, 3
Gold Tag	3030 (SX)	1,2,3
Gold Tag	4020 (SX)	1,2,3
Gold Tag	880 (SX)	1,2,3
Golden Acres	T-E 6925 (SX)	7
Golden Acres	T-E 6995 (SX)	2,3, 7
Golden Acres	T-E 6995-A (SX)	1
Growers	GSA 2030 (MSX)	1, 6
Growers	GSA 2240 (SX)	1, 3
Growers	NS 212	1, 3
Gutwein	2446 (SX)	7
Gutwein	2910 (SX)	3
Gutwein	62 (SX)	1,2,3
Gutwein	88 (SX)	1,2
Horizon	KR 111 (SX)	2, 4,5
Horizon	KR 131 (SX)	3,4,5,6,7
Horizon	KR 137 (SX)	4,5
Horizon	KR 199 (SX)	4,5,6
Horizon	KR 555 (3X)	1,2
Horizon	KR 841 (SX)	1, 3, 7
Horizon	KR 861 (SX)	1,2,3, 6,7
Horizon	KR 870 (SX)	1,2,3, 6,7
HP	23 (SX)	3
HP	41 (MSX)	3
HP	44 (SX)	3
HP	61 (SX)	3
Jacques	JX177 (SX)	4,5, 7
Jacques	JX180 (SX)	3,4,5, 7
Jacques	JX190 (SX)	3
Jacques	JX227 (SX)	3
Kaltenberg	KX68 (SX)	2, 4,5, 7
Kaltenberg	KX76 (SX)	2, 4,5, 7
Keltgen	KS102 (SX)	7,8,9
Keltgen	KS106 (SX)	2,3, 7,8,9
Keltgen	KS109 (MSX)	3
Keltgen	KS115 (SX)	1,2,3,4,5, 7
Keltgen	KS119 (SX)	1,2,3,4,5

Continued

Table D. Concluded.

Brand	Hybrid	Tables
Keltgen	KS94 (SX)	8,9
Keltgen	KT103 (3X)	8,9
Lynks	LX4020 (SX)	8,9
Lynks	LX4120 (SX)	4,5, 7,8,9
Lynks	LX4220A (SX)	3,4,5,6,7
Lynks	LX4310 (SX)	2
Lynks	LX4330 (SX)	1, 3, 6
Lynks	LX4370 (SX)	1, 3
Lynks	LX4510 (SX)	1, 3
McCurdy	MSX 42 (SX)	8,9
McCurdy	MSX 44A (SX)	4,5, 8,9
McCurdy	MSX 46 (SX)	4,5 7,8,9
McCurdy	MSX 60 (SX)	2, 4,5,6,7
McCurdy	MSX 65 (SX)	2
McCurdy	MSX 70 (SX)	2,3
McCurdy	MSX 77 (SX)	3, 7
McCurdy	MSX 84 (SX)	1, 3, 6,7
McCurdy	MSX 84A (SX)	1,2, 4,5,6
McCurdy	MSX 86A (SX)	1, 3
McCurdy	MSX 88 (SX)	1
McCurdy	76-14 (SX)	8,9
MFA	V-16 (SX)	1, 3
MFA	V-16A (MSX)	1, 3
MFA	5802 (SX)	1, 3
MFA	5903 (MSX)	1, 3
NC +	2999 (SX)	7,8,9
NC +	33 (SX)	8,9
NC +	3990 (SX)	3,4,5,6,7,8,9
NC +	4666 (SX)	2,3,4,5,6,7
NC +	59	1,2,3,4,5
NC +	76 (3X)	2
NC +	85 (SX)	1
Northrup King	PX37 (SX)	8,9
Northrup King	PX45 (SX)	7,8,9
Northrup King	PX46 (SX)	7
Northrup King	PX48 (SX)	8,9
Northrup King	PX49 (SX)	4,5,6,7,8,9
Northrup King	PX603 (3X)	2, 4,5,6
Northrup King	PX675 (3X)	1
Northrup King	PX69	2,3,4,5,6
Northrup King	PX74 (SX)	1,2,3, 6
Northrup King	PX79 (SX)	3
O's Gold	SX1020 (SX)	8,9
O's Gold	SX1101 (SX)	6, 8,9
O's Gold	SX1107 (SX)	8,9
O's Gold	SX3344 (SX)	1,2,3,4,5, 7
O's Gold	SX5353 (SX)	1,2
O's Gold	SX5500 (SX)	1
O's Gold	SX5500A (SX)	3,4,5,6,7
O's Gold	SX5500AB (SX)	3
O's Gold	TX303 (3X)	4,5,6
O's Gold	TX311 (3X)	1, 3
P-A-G	SX 189 (SX)	8,9
P-A-G	SX 249 (SX)	4,5, 7
P-A-G	SX 333 (SX)	1,2,3,4,5, 7
P-A-G	SX 346 (SX)	1
P-A-G	SX 397 (SX)	4,5, 7
P-A-G	SX 98 (SX)	3
P-A-G	314 (SX)	1,2,3
P-A-G	357 (SX)	1, 3
Pfister	75 (SX)	1,2,3
Pioneer	3183 (SX)	1
Pioneer	3184 (SX)	1
Pioneer	3360 (SX)	3
Pioneer	3382 (SX)	1,2,
Pioneer	3386 (SX)	3
Pioneer	3388 (MSX)	1,2, 4,5
Pioneer	3498 (DX)	6
Pioneer	3536 (SX)	2,3, 7
Pioneer	3541 (SX)	3, 7
Pioneer	3575 (3X)	2
Pioneer	3591 (SX)	4,5,6
Pioneer	3713 (MSX)	6,7,8,9
Pioneer	3720 (SX)	4,5,6,7,8,9
Pioneer	3780 (SX)	4,5, 8,9
Pioneer	3901 (SX)	8,9
Prairie Stream	SX1L (SX)	3
Prairie Stream	SX5B (SX)	3
Prairie Stream	SX66 (SX)	3
Prairie Valley	PV181 (MSX)	8,9
Prairie Valley	PV198 (SX)	8,9
Prairie Valley	PV290 (SX)	8,9
Prairie Valley	PV34S (SX)	7
Prairie Valley	PV34SL (SX)	1
Prairie Valley	PV362 (SX)	4,5, 7
Prairie Valley	PV37S (SX)	1,2
Prairie Valley	PV430 (SX)	8,9
Prairie Valley	PV600 (SX)	2, 4,5, 7
Prairie Valley	PV730 (SX)	3,4,5
Prairie Valley	PV76S (SX)	1,2,3,4,5, 7
Prairie Valley	PV762 (SX)	2,3
Prairie Valley	PV818 (SX)	1, 3
Ring Around	R.A. Exp. 142 (SX)	3
Ring Around	R.A. 1501 (SX)	2
Ring Around	R.A. 1502 (SX)	2
Ring Around	R.A. 2502 (SX)	2
Super Crost	S85	1,2,3
Super Crost	5330	1,2,3
Super Crost	5440 (SX)	1,2,3
Super Crost	6800 (MSX)	1,2,3
Tekseed	SPX 1A (SX)	4,5,6, 8,9
Tekseed	SPX 26 (SX)	4,5,6,7
Tekseed	SPX 328 (3X)	8,9
Tekseed	SPX 34 (SX)	1,2,3
Tekseed	SPX 36 (SX)	1,2,3
Tekseed	SPX 49 (SX)	4,5, 7
Tekseed	SPX 71 (SX)	1,2,3
Tekseed	SPX 77 (SX)	1,2,3, 7
Tekseed	SPX 8 (MSX)	4,5,6,7,8,9
Tekseed	SPX 9 (SX)	6, 8,9
Todd	MX33 (SX)	4,5
Todd	MX73 (SX)	1,2,3
Todd	MX73A (SX)	1,2,3, 6
Todd	M30 (SX)	4,5,6
Todd	M48 (SX)	4,5,6
Todd	M75 (SX)	1
Todd	M86 (SX)	2,3
Trojan	Exp. 137 (SX)	1,2,3
Trojan	T-1008 (SX)	4,5, 7,8,9
Trojan	T-1058 (SX)	4,5, 7,8,9
Trojan	T-1108 (SX)	3, 7
Trojan	TX 111 (3X)	6
Trojan	TX 115 (3X)	2, 4,5,6
Trojan	TXS 102 (SX)	6,7,8,9
Trojan	TXS 115A (SX)	1,2,3,4,5
Trojan	TXS 119 (SX)	1, 3
Trojan	TXS 94 (SX)	8,9
Weather Master	EPX 777 (SX)	3,4,5
Weather Master	EPX 888 (SX)	1, 4,5
Weather Master	EPX 889 (SX)	1, 4,5
Weather Master	EPX 899A	1, 4,5
Wilson	1016 (SX)	4,5,6,7
Wilson	1040 (SX)	1,2,3
Wilson	1400 (SX)	4,5,6,7
Wilson	1400A (SX)	4,5, 7
Wilson	1800 (SX)	1,2,3, 6
Wilson	1800A (SX)	1,2,3
Wilson	1812 (SX)	2, 6
Wilson	1900 (SX)	3
Wilson	2317 (MSX)	4,5, 7

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

Table E. Entrants. Nebraska Corn Performance Tests. 1978.

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 Seeds	Minneapolis, MN 55440
Cenex	Cenex Seed	St. Paul, MN 55164
Conti-Seeds	Continental Grain Co.	Delano, CA 93215
Coop	Farmland Industries	Kansas City, MO 64116
Corn King	Malcolm H. Grieve	Pierson, IA 51048
Curry	Curry Seed Company	Elk Point, SD 57025
Custom Farm Seed	Customaize Inc.	Momence, IL 60954
DeKalb	Dekalb AgResearch, Inc.	Fremont, NE 68025
Federal	Federal Hybrids	Marion, IA 52302
Fontanelle	Fontanelle Hybrids	Nickerson, NE 68044
Frontier	Frontier Seeds, Ltd.	Hutchinson, KS 67051
Frundt	Frundt Seed Co., Inc.	Pella, IA 50219
Funk	Funk Seeds International	Bloomington, IL 61701
Golden Acres	Taylor-Evans Seed Co.	Tulia, TX 79088
Gold Tag	Ferry Morse Seed Co.	Geneseo, IL 61254
Growers	Growers Seed Association	Lubbock, TX 79408
Gutwein	Fred Gutwein & Sons, Inc.	Francesville, IN 47946
Horizon	Miller Seed Co.	Lincoln, NE 68501
HP	North American Plant Breeders	Mission, KS 66205
Jacques	Jacques Seed Co.	Prescott, WS 54021
Kaltenberg	Kaltenberg Seed Farms	Waunakee, WS 53597
Keltgen	Keltgen Seed Co.	Olivia, MN 56277
Lynks	Lynks Hybrids	Marshalltown, IA 50158
McCurdy	McCurdy Seed Company	Fremont, IA 52561
MFA	MFA Seed Division	Columbia, MO 65201
NC +	NC + Hybrids	Lincoln, NE 68504
Northrup King	Northrup King Co.	Minneapolis, MN 55440
O's Gold	O's Gold Seed Co.	Parkersburg, IA 50665
P-A-G	P-A-G Seeds	Minneapolis, MN 55440
Pfister	Pfister Hybrid Corn Co.	El Paso, IL 61738
Pioneer	Garst & Thomas Hybrid Corn Co.	Coon Rapids, IA 50058
Prairie Stream	Prairie Stream Farms Inc.	Frankfort, IN 46041
Prairie Valley	Prairie Valley, Inc.	Phillips, NE 68865
Ring Around	Ring Around Products Inc.	Montgomery, AL 36101
Super Crost	Edw. J. Funk & Sons Inc.	Kentland, IN 47951
Tekseed	Tekseed Hybrid Company	Tekamah, NE 68061
Todd	Todd Hybrid Corn Company	Burlington, IN 46915
Trojan	Pfizer Genetics Inc.	Doniphan, NE 68832
Weather Master	Weather Master Seeds Inc.	Dassel, MN 55355
Wilson	Wilson Hybrids Inc.	Harlan, IA 51537

Zone I Nonirrigated

Two trials were harvested in southeastern Nebraska (Table 1a). The Richardson County test was planted early. Heavy rains following planting caused crusting and cool soil temperatures. Soil compaction and moisture stress resulted in reduced yields. Corn borer infestation was heavy. Conditions in Otoe County were ideal and a 147-bushel (9229 kg/ha) average yield was produced.

Performance of hybrids in tests since 1973 is shown in Tables 1b and 1c. No 1974 data were obtained because of severe drouth. Seasonal conditions were variable and relative performance of hybrids was not consistent over years.

Zone II Nonirrigated

These trials were in Seward and Dodge Counties. Yields were good (Table 2a). Moisture stress in June and early July reduced plant size in Dodge County. Conditions in August were favorable and a good grain yield was produced. Plants made more growth in Seward County. Hybrid performance at these 1978 locations was very similar.

Period-of-years data for this area are shown in Tables 2b and 2c. Relative performance of hybrids in 2- and 3-year averages was similar. In 4- and 5-year averages, hybrid differences in yield were nonsignificant, indicating that the 1974 and/or 1975 seasonal performance was different.

Zone II Irrigated

Three trials were harvested in this area. Results from Clay and Hall Counties are shown in Table 3a. Conditions in Clay County were favorable and yields were high. Stalk rot and breakage also were high. In Hall County, a severe hail on June 21 caused severe leaf shredding and some stand reduction. This field had a high potential yield in the absence of hail. In all probability, hybrids responded differently to hail.

Lack of rainfall and limited irrigation water resulted in severe moisture stress in Hitchcock County. Spider mites and stalk rot also reduced yields (Table 3b). Plot variability was high. These data are not included in zone or period-of-years averages.

Period of years averages for Zone II irrigated trials are shown in Tables 3c, 3d and 3e. Removal of soil moisture as a stress factor makes relative hybrid performance over years more consistent than in nonirrigated trials. Long-term average yields were high.

Zone III Nonirrigated-Northeast

Good yields were produced in Dixon County (Table 4a). Later-maturing hybrids as measured by harvest moisture were highest in yield. This is in contrast to the 1977 season when earlier maturity was significantly correlated with higher yields.

Period-of-years data for northeast Nebraska are given in Tables 4b, and 4c. No data were obtained in 1976 because of severe drouth. This six-year period was one of wide fluctuations in weather conditions. These are reflected in the lack of consistency in hybrid performance over years. Later maturity was correlated with higher yield in 1973 and 1978. Earlier maturity was related to higher yields in 1977 and there was little relationship in 1974 and 1975.

Zone III Irrigated-Northeast

This trial was located in Antelope County (Table 5a). Seedbed and cutworm problems reduced stands. Higher harvest moisture was correlated with higher grain yield. The 2- and 3-year averages for this area are shown in Tables 5a and 5b.

Southwest Ecofallow

These trials were planted into wheat stubble from the 1977 crop. Weeds were controlled after harvest in the stubble and by preemergence herbicide applications. Yields differed markedly at the two 1978 locations (Table 6a). Severe drouth in Lincoln County limited yields to 24 bushels per acre (1507 kg/ha). Later (higher moisture) hybrids were lowest in yield. More adequate soil moisture in Red Willow County resulted in an excellent 85-bushel (5336 kg/ha) average yield.

Relative performance of hybrids was not the same under the two widely differing environments in 1978. Also, hybrids did not differ significantly in 2-year average yields (Table 6b). High yields were produced in 1977.

Zone III Irrigated-Central and Southwest

Data from Logan and Chase Counties are shown in Table 7a. The Logan County plot was hailed at the 6-leaf stage. Harvest population was less than desired. Conditions in Chase County were favorable with few disease or insect problems. Higher grain moisture was correlated with higher yields at both locations.

Period-of-years averages for Central and Southwest Irrigated trials are shown in Tables 2b and 2c. Corn growing conditions vary greatly with location and season in this area of Nebraska. This causes inconsistencies in relative hybrid performance over years.

Zone IV Irrigated

Two trials were harvested in the Panhandle (Table 8a). Average yields and relative hybrid performance in the two trials were similar. Harvest was made at fairly high grain moisture content. There was a negative correlation between harvest moisture and grain yield at Scottsbluff and little relationship in Box Butte County. Later-maturing hybrids were higher in grain yield in 1977.

Period-of-years data for western Nebraska are shown in Table 8b. In 3- and 4-year averages, lower harvest moisture was correlated with higher grain yield.

The Nebraska Panhandle is on the western range of the crop growing area. Major emphasis has not been placed on breeding corns for this environment. Maturity is an important consideration in selecting a hybrid for grain production.

Ecofallow Early Entries

Entries from the Zone IV Irrigated trial were planted under ecofallow in Cheyenne, Lincoln and Dundy Counties. Soil temperatures under ecofallow are cooler than with conventional tillage. These tests are an attempt to determine if some of the earlier hybrids show differences in adaptation to these conditions. Hybrids were not selected by the entrants as in the other areas.

Results of trials in Cheyenne, Lincoln, and Dundy Counties are shown in Table 9a. Yields were low under low 1978 rainfall. There was a correlation between earlier maturity as measured by moisture at harvest and higher yields. In the average of 3 tests, the yield-moisture correlation was 0.79 and each 1% increase in moisture was accompanied by a 0.9 bu (57 kg/ha) decrease in yield.

Two year average data from these trials are shown in Table 9b. High yields were obtained in Lincoln County in 1977 and two-year data are not in close agreement. However, earlier maturity was correlated with higher yield in both seasons.

Table 1a. Zone I Nonirrigated. Summary. 1978.

Brand	Hybrid	Grain yield			1978 average		
		Average 2 tests	Richardson County	Otoe County	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	bu/A	bu/A	%	%	%
-----	Nebr. Exp. 9057	138 (8660)	126	150	16.7	5	2
-----	Nebr. Exp. 9058	132 (8290)	122	142	16.6	6	1
-----	Nebr. 611	133 (8350)	119	146	16.3	10	1
-----	Nebr. 612	127 (7970)	110	144	15.8	4	0
-----	Nebr. 620	136 (8540)	130	141	15.9	12	3
-----	Nebr. 714	133 (8350)	118	148	16.0	7	3
-----	Nebr. 730	132 (8290)	123	141	16.2	5	3
ACCO	U 393	134 (8410)	110	157	17.7	9	4
ACCO	UC 8201	133 (8350)	102	163	16.2	6	2
Asgrow	RX4589	129 (8100)	108	150	18.1	9	3
Asgrow	RX88	113 (7090)	88	137	16.0	7	2
Asgrow	RX90	138 (8660)	120	155	15.8	9	3
Asgrow	RX98	123 (7720)	111	135	16.1	4	0
Bo-Jac	X56	133 (8350)	108	158	16.3	8	2
Bo-Jac	X566	119 (7470)	95	143	16.0	14	2
Bo-Jac	X69	139 (8730)	121	157	15.3	10	3
Bo-Jac	X76	149 (9350)	131	166	19.1	5	4
Cargill	Exp. 262194	155 (9730)	137	173	15.9	11	0
Cargill	924	120 (7530)	98	142	15.2	5	1
Cargill	949	132 (8290)	116	148	16.2	9	7
Cenex	2380	130 (8160)	112	147	15.9	8	3
Cenex	2391	129 (8100)	116	142	15.3	10	0
Conti-Seeds	CG 5450	135 (8480)	112	158	15.7	5	1
Coop	2260	117 (7350)	91	142	14.4	8	5
Coop	2300	130 (8160)	114	145	15.8	11	3
Coop	2318	123 (7720)	100	146	18.6	7	2
DeKalb	XL-62AA	124 (7780)	109	139	15.5	10	1
DeKalb	XL-72AA	128 (8040)	108	147	15.8	5	1
DeKalb	XL-72B	132 (8290)	117	146	16.6	9	2
DeKalb	XL-75	130 (8160)	124	136	16.4	5	1
Fontanelle	580	129 (8100)	104	154	16.3	6	2
Fontanelle	590	132 (8290)	117	147	15.6	13	4
Fontanelle	660	131 (8220)	117	144	18.6	8	2
Frontier	SX233	134 (8410)	117	150	16.3	6	2
Frontier	SX234	139 (8730)	126	151	15.5	7	2
Frontier	SX244	131 (8220)	125	137	16.4	14	4
Funk	G-4583	128 (8040)	106	149	16.3	6	5
Funk	G-4606	130 (8160)	118	142	16.0	6	0
Gold Tag	3030	140 (8790)	122	157	15.7	28	4
Gold Tag	4020	130 (8160)	107	153	17.9	10	2
Gold Tag	880	137 (8600)	114	159	16.7	9	4
Golden Acres	T-E 6995-A	129 (8100)	106	151	15.4	10	4
Growers	GSA 2030	116 (7280)	99	132	14.2	7	7
Growers	GSA 2240	126 (7910)	106	146	15.2	10	3
Growers	NS 212	131 (8220)	113	148	16.2	7	4
Gutwein	62	132 (8290)	112	152	15.9	10	2
Gutwein	88	117 (7350)	106	128	17.2	10	0
Horizon	KR 555	125 (7850)	104	146	15.9	10	2
Horizon	KR 841	133 (8350)	123	142	15.3	12	8
Horizon	KR 861	137 (8600)	128	146	16.3	16	0
Horizon	KR 870	129 (8100)	106	151	15.6	8	0
Keltgen	KS115	135 (8480)	111	158	16.4	10	3
Keltgen	KS119	133 (8350)	114	152	15.4	8	4
Lynks	LX4330	131 (8220)	109	153	16.0	7	2
Lynks	LX4370	121 (7600)	104	138	15.6	4	0

Continued

Table 1a. Concluded.

Brand	Hybrid	Grain yield			1978 average		
		Average 2 tests	Richardson County	Otoe County	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	bu/A	bu/A	%	%	%
Lynks	LX4510	130 (8160)	112	147	19.2	8	1
McCurdy	MSX 84	140 (8790)	121	158	16.5	11	5
McCurdy	MSX 84A	140 (8790)	131	149	16.0	17	3
McCurdy	MSX 86A	150 (9420)	144	155	17.3	9	5
McCurdy	MSX 88	122 (7660)	106	138	18.6	10	1
MFA	V-16	129 (8100)	115	143	18.7	7	2
MFA	V-16A	114 (7160)	93	134	18.3	14	1
MFA	5802	131 (8220)	117	145	16.4	11	5
MFA	5903	128 (8040)	106	150	16.0	10	5
NC +	59	129 (8100)	106	151	16.0	13	4
NC +	85	132 (8290)	115	148	18.8	12	1
Northrup King	PX675	124 (7780)	111	136	15.8	4	4
Northrup King	PX74	133 (8350)	116	149	15.8	7	6
O's Gold	SX3344	136 (8540)	115	156	16.5	9	2
O's Gold	SX5353	131 (8220)	125	137	16.3	7	4
O's Gold	SX5500	132 (8290)	115	149	19.1	12	1
O's Gold	TX311	123 (7720)	105	141	15.2	8	4
P-A-G	SX 333	126 (7910)	105	146	15.9	11	5
P-A-G	SX 346	128 (8040)	114	141	15.5	9	1
P-A-G	314	131 (8220)	115	147	15.4	15	2
P-A-G	357	128 (8040)	120	136	16.5	11	2
Pfister	75	146 (9170)	136	156	15.9	7	3
Pioneer	3183	145 (9100)	133	156	18.3	7	1
Pioneer	3184	134 (8410)	127	141	18.6	3	2
Pioneer	3382	129 (8100)	109	148	15.8	9	1
Pioneer	3388	113 (7090)	97	129	15.9	8	1
Prairie Valley	PV34SL	130 (8160)	108	152	15.6	10	2
Prairie Valley	PV37S	138 (8660)	125	150	15.9	14	2
Prairie Valley	PV76S	133 (8350)	114	151	15.9	10	5
Prairie Valley	PV818	136 (8540)	121	151	17.9	9	0
Super Crost	S85	127 (7970)	109	144	18.4	9	3
Super Crost	5330	127 (7970)	114	140	15.4	9	3
Super Crost	5440	133 (8350)	114	151	15.8	10	3
Super Crost	6800	125 (7850)	108	141	17.4	9	1
Tekseed	SPX 34	120 (7530)	93	146	15.6	6	1
Tekseed	SPX 36	129 (8100)	113	144	15.3	7	2
Tekseed	SPX 71	138 (8660)	119	157	18.1	11	3
Tekseed	SPX 77	128 (8040)	107	149	17.7	5	3
Todd	MX73	122 (7660)	98	145	17.1	9	5
Todd	MX73A	127 (7970)	109	145	15.4	9	2
Todd	M75	111 (6970)	85	136	15.0	9	8
Trojan	Exp. 137	130 (8160)	111	149	17.3	11	3
Trojan	TXS 115A	129 (8100)	107	151	16.2	8	2
Trojan	TXS 119	130 (8160)	111	148	19.2	13	1
Weather Master	EPX 888	127 (7970)	118	136	16.7	14	0
Weather Master	EPX 889	121 (7600)	115	127	18.0	9	3
Weather Master	EPX 899A	128 (8040)	104	151	18.6	8	1
Wilson	1040	119 (7470)	101	137	15.6	24	2
Wilson	1800	122 (7660)	99	144	16.0	5	4
Wilson	1800A	134 (8410)	108	160	17.9	8	4
Average all entries		130.0 (8161)	112.7	146.9	16.5	9.1	2.6
Dif. req. for sig. 5%		15.3 (961)	16.3	12.2	1.0	7.8	4.7
25%		9.0 (565)	9.6	7.2	0.6	4.6	2.7

Table 1b. Zone I Nonirrigated. 1977-1978.

Brand	Hybrid	Grain yield	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	%	%	%
		Two-year average			
-----	Nebr. 611	104 (6530)	17.8	11	2
-----	Nebr. 612	102 (6400)	18.0	6	0
-----	Nebr. 620	104 (6530)	17.3	13	3
-----	Nebr. 714	104 (6530)	18.4	5	2
Asgrow	RX4589	107 (6720)	19.7	8	4
Asgrow	RX90	109 (6840)	17.5	7	4
Asgrow	RX98	103 (6470)	18.7	6	3
Bo-Jac	X56	106 (6650)	18.0	6	3
Cargill	949	107 (6720)	17.6	6	5
Cenex	2380	100 (6280)	17.5	6	3
Coop	2300	100 (6280)	17.4	8	2
Coop	2318	104 (6530)	20.2	8	3
Fontanelle	580	98 (6150)	17.6	3	2
Fontanelle	590	109 (6840)	17.3	10	5
Fontanelle	660	110 (6910)	20.1	9	3
Frontier	SX233	106 (6650)	17.8	4	3
Frontier	SX234	107 (6720)	17.6	6	5
Frontier	SX244	111 (6970)	18.2	12	3
Gold Tag	880	106 (6650)	18.0	6	3
Growers	NS 212	99 (6220)	17.5	6	4
Gutwein	62	101 (6340)	17.6	5	1
Gutwein	88	101 (6340)	19.4	9	1
Lynks	LX4330	105 (6590)	17.4	6	2
Lynks	LX4370	96 (6030)	17.8	4	3
Lynks	LX4510	112 (7030)	20.2	7	2
McCurdy	MSX 84	107 (6720)	17.7	7	4
McCurdy	MSX 84A	115 (7220)	17.5	19	3
McCurdy	MSX 88	101 (6340)	19.9	8	2
MFA	5802	103 (6470)	17.7	7	5
MFA	5903	98 (6150)	17.6	7	4
NC +	59	98 (6150)	17.6	8	3
NC +	85	109 (6840)	20.2	11	3
Northrup King	PX675	97 (6090)	17.2	4	4
Northrup King	PX74	100 (6280)	17.3	6	4
O's Gold	SX3344	113 (7090)	18.2	13	3
O's Gold	SX5500	108 (6780)	20.3	10	3
P-A-G	314	105 (6590)	17.0	11	2
P-A-G	357	96 (6030)	18.2	11	3
Pfister	75	118 (7410)	17.3	6	4
Pioneer	3183	111 (6970)	20.0	5	1
Pioneer	3382	104 (6530)	17.0	7	1
Pioneer	3388	96 (6030)	17.4	6	1
Prairie Valley	PV37S	116 (7280)	17.7	14	1
Prairie Valley	PV76S	104 (6530)	17.6	6	4
Super Crost	S85	104 (6530)	19.6	6	2
Super Crost	5440	101 (6340)	17.0	6	4
Super Crost	6800	97 (6090)	19.1	7	4
Tekseed	SPX 34	98 (6150)	17.4	5	1
Tekseed	SPX 36	102 (6400)	17.4	6	3
Tekseed	SPX 77	110 (6910)	19.3	7	5
Trojan	TXS 115A	98 (6150)	17.5	6	4
Trojan	TXS 119	105 (6590)	20.2	8	1
Weather Master	EPX 888	101 (6340)	17.8	9	1
Average all entries		104.3 (6548)	18.2	7.6	2.8
Dif. req. for sig.	5%	N.S.	1.0	5.6	N.S.
	25%	7.5 (471)	0.6	3.2	N.S.

Table 1c. Zone I Nonirrigated. 1973-1978. No 1974 data.

Brand	Hybrid	Grain yield	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	%	%	%
		Three-year average			
-----	Nebr. 611	105 (7590)	18.3	8	1
-----	Nebr. 612	100 (6280)	18.1	4	0
-----	Nebr. 620	100 (6280)	17.9	9	2
-----	Nebr. 714	104 (6530)	18.8	3	2
Asgrow	RX4589	105 (6590)	20.2	6	3
Asgrow	RX90	108 (6780)	18.4	5	3
Cargill	949	107 (6720)	18.5	5	4
Cenex	2380	104 (6530)	18.0	5	2
Coop	2300	100 (6280)	18.1	5	1
Coop	2318	101 (6340)	20.6	6	2
Fontanelle	590	104 (6530)	17.6	7	4
Fontanelle	660	107 (6720)	20.4	7	2
Gold Tag	880	108 (6780)	18.6	4	2
Growers	NS 212	102 (6400)	18.3	4	3
McCurdy	MSX 84	106 (6650)	18.7	5	3
McCurdy	MSX 88	98 (6150)	20.4	6	2
NC +	59	103 (6470)	18.2	5	2
NC +	85	106 (6650)	20.8	8	2
O's Gold	SX3344	111 (6970)	18.6	10	2
O's Gold	SX5500	103 (6470)	20.9	7	2
Pioneer	3183	109 (6840)	19.5	4	1
Pioneer	3388	93 (5840)	17.3	5	1
Prairie Valley	PV76S	101 (6340)	18.2	5	3
Super Crost	S85	101 (6340)	20.3	5	1
Super Crost	5440	105 (6590)	18.0	4	3
Tekseed	SPX 34	103 (6470)	18.5	4	1
Tekseed	SPX 36	98 (6150)	17.7	4	2
Trojan	TXS 115A	100 (6280)	18.3	4	3
Trojan	TXS 119	101 (6340)	20.6	6	1
Weather Master	EPX 888	100 (6280)	18.6	6	1
Average all entries		103.1 (6473)	18.9	5.5	2.0
Dif. req. for sig. 5%		N.S.	1.1	N.S.	N.S.
25%		N.S.	0.6	2.3	1.3
		Four-year average			
-----	Nebr. 611	98 (6150)	18.7	7	1
-----	Nebr. 612	91 (5710)	18.7	3	0
-----	Nebr. 620	94 (5900)	18.2	8	1
Asgrow	RX90	102 (6400)	18.9	5	4
Cargill	949	100 (6280)	19.0	4	3
Coop	2300	93 (5840)	18.6	5	1
Coop	2318	95 (5960)	21.1	5	2
Fontanelle	590	98 (6150)	18.1	6	3
Fontanelle	660	99 (6220)	21.0	5	2
McCurdy	MSX 84	99 (6220)	18.9	4	3
McCurdy	MSX 88	92 (5780)	21.0	5	2
NC +	59	98 (6150)	19.1	5	2
NC +	85	96 (6030)	21.5	7	2
O's Gold	SX5500	94 (5900)	21.5	6	2
Pioneer	3388	86 (5400)	17.5	4	1
Prairie Valley	PV76S	97 (6090)	18.8	4	2
Super Crost	S85	94 (5900)	20.9	4	1
Super Crost	5440	99 (6220)	18.7	5	3
Tekseed	SPX 34	97 (6090)	19.0	4	1
Tekseed	SPX 36	89 (5590)	18.4	3	2
Trojan	TXS 115A	92 (5780)	18.9	4	3
Trojan	TXS 119	95 (5960)	21.2	5	1
Weather Master	EPX 888	95 (5960)	19.0	5	1
Average all entries		95.3 (5983)	19.4	4.9	1.9
Dif. req. for sig. 5%		N.S.	0.8	N.S.	1.7
25%		5.0 (314)	0.5	1.7	1.0
		Five-year average			
-----	Nebr. 611	105 (6590)	18.9	6	1
-----	Nebr. 612	101 (6340)	18.8	3	0
-----	Nebr. 620	102 (6400)	18.3	7	1
Fontanelle	660	107 (6720)	21.4	5	2
McCurdy	MSX 88	101 (6340)	21.4	4	2
NC +	85	106 (6650)	21.8	6	2
O's Gold	SX5500	103 (6470)	21.8	5	2
Prairie Valley	PV76S	107 (6720)	19.1	4	2
Super Crost	S85	100 (6280)	21.3	4	1
Trojan	TXS 119	105 (6590)	21.6	4	1
Average all entries		103.7 (6510)	20.4	4.8	1.4
Dif. req. for sig. 5%		N.S.	0.7	N.S.	N.S.
25%		3.7 (232)	0.4	1.5	0.7

Table 2a. Zone II Nonirrigated. Summary. 1978.

Brand	Hybrid	Grain yield			1978 average		
		Average 2 tests	Dodge County	Seward County	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	bu/A	bu/A	%	%	%
-----	Nebr. Exp. 9057	146 (9170)	147	144	22.5	1	0
-----	Nebr. 611	131 (8220)	132	130	21.3	1	0
-----	Nebr. 714	145 (9100)	143	146	22.1	1	1
-----	Nebr. 730	123 (7720)	115	131	21.5	0	1
ACCO	UC 8201	151 (9480)	153	149	22.0	1	0
ACCO	UC 8951	141 (8850)	135	147	25.1	1	2
Asgrow	RX90	144 (9040)	144	144	21.3	0	1
Asgrow	RX98	137 (8600)	136	137	22.4	0	0
Bo-Jac	X47	117 (7350)	119	114	21.5	0	1
Bo-Jac	X56	148 (9290)	150	145	22.3	0	0
Bo-Jac	X566	131 (8220)	132	130	22.8	0	1
Bo-Jac	X76	153 (9600)	155	150	23.8	1	0
Cargill	920	146 (9170)	156	136	18.8	0	0
Cargill	924	131 (8220)	128	134	19.5	1	0
Cargill	949	146 (9170)	145	147	22.1	0	0
Cenex	2157	129 (8100)	122	135	16.0	0	0
Cenex	2203	121 (7600)	119	123	16.9	0	0
Cenex	2380	141 (8850)	149	132	22.4	1	0
Cenex	2391	135 (8480)	135	134	19.7	1	0
Conti-Seeds	CG 5450	146 (9170)	150	142	21.8	1	1
Coop	2260	129 (8100)	117	141	16.7	2	0
Coop	2300	147 (9230)	137	157	22.4	1	1
Coop	2318	139 (8730)	141	137	26.0	1	0
Curry	SC-147	123 (7720)	118	127	18.9	1	0
Curry	SC-150	146 (9170)	146	145	21.7	2	1
Curry	TC-347	130 (8160)	126	134	21.0	0	0
DeKalb	XL-362AA	122 (7660)	118	126	21.9	3	1
DeKalb	XL-62AA	130 (8160)	125	134	21.0	1	1
DeKalb	XL-63	129 (8100)	130	128	21.5	0	0
DeKalb	XL-72AA	141 (8850)	141	140	21.9	2	1
Fontanelle	580	138 (8660)	135	140	22.4	1	0
Fontanelle	590	141 (8850)	142	139	21.5	1	0
Funk	G-4507	147 (9230)	148	145	21.9	0	2
Funk	G-4583	135 (8480)	132	137	22.0	0	0
Gold Tag	3030	138 (8660)	138	138	21.1	4	0
Gold Tag	4020	138 (8660)	138	138	24.3	3	0
Gold Tag	880	148 (9290)	153	143	22.7	1	1
Golden Acres	T-E 6995	145 (9100)	149	141	22.4	1	1
Gutwein	62	137 (8600)	138	136	21.4	0	1
Gutwein	88	125 (7850)	128	121	25.1	1	1
Horizon	KR 111	121 (7600)	111	130	16.7	2	0
Horizon	KR 555	137 (8600)	137	136	21.8	0	1
Horizon	KR 861	138 (8660)	133	142	20.8	3	0
Horizon	KR 870	142 (8910)	137	147	22.2	0	0
Kaltenberg	KX68	130 (8160)	127	132	17.0	0	1
Kaltenberg	KX76	151 (9480)	151	150	22.0	1	0
Keltgen	KS106	122 (7660)	124	119	17.8	0	0
Keltgen	KS115	151 (9480)	149	152	23.1	1	0
Keltgen	KS119	140 (8790)	135	144	21.7	1	1
Lynks	LX4310	140 (8790)	136	143	20.0	2	1

Continued

Table 2a. Concluded.

Brand	Hybrid	Grain yield			1978 average		
		Average 2 tests	Dodge County	Seward County	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	bu/A	bu/A	%	%	%
McCurdy	MSX 60	142 (8910)	141	142	20.1	0	0
McCurdy	MSX 65	140 (8790)	142	138	21.3	0	0
McCurdy	MSX 70	146 (9170)	141	150	22.6	1	0
McCurdy	MSX 84A	143 (8980)	144	141	20.6	5	0
NC +	4666	125 (7850)	117	133	18.6	3	0
NC +	59	146 (9170)	147	144	22.3	0	1
NC +	76	136 (8540)	132	140	23.7	2	0
Northrup King	PX603	117 (7350)	114	120	18.9	2	0
Northrup King	PX69	123 (7720)	122	124	19.5	0	0
Northrup King	PX74	147 (9230)	147	146	22.1	1	0
O's Gold	SX3344	138 (8660)	135	141	21.8	0	0
O's Gold	SX5353	141 (8850)	145	137	22.5	1	0
P-A-G	SX 333	148 (9290)	150	146	21.9	1	1
P-A-G	314	139 (8730)	139	139	20.6	0	1
Pfister	75	145 (9100)	145	145	22.0	2	1
Pioneer	3382	142 (8910)	133	151	21.5	2	0
Pioneer	3388	132 (2290)	136	127	20.0	1	0
Pioneer	3536	116 (7280)	119	112	17.8	0	0
Pioneer	3575	124 (7780)	119	129	18.2	0	2
Prairie Valley	PV37S	138 (8660)	132	143	21.2	3	0
Prairie Valley	PV600	128 (8040)	128	128	19.0	1	0
Prairie Valley	PV76S	150 (9420)	152	148	22.0	0	1
Prairie Valley	PV762	130 (8160)	137	122	21.1	1	0
Ring Around	R.A. 1501	138 (8660)	135	141	22.2	1	0
Ring Around	R.A. 1502	140 (8790)	138	141	24.3	2	2
Ring Around	R.A. 2502	122 (7660)	122	122	27.1	1	1
Super Crost	S85	136 (8540)	135	136	24.6	1	0
Super Crost	5330	134 (8410)	129	138	21.0	0	0
Super Crost	5440	151 (9480)	155	146	22.3	2	1
Super Crost	6800	134 (8410)	131	136	23.6	2	0
Tekseed	SPX 34	133 (8350)	136	130	21.7	0	0
Tekseed	SPX 36	142 (8910)	147	136	21.7	1	0
Tekseed	SPX 71	141 (8850)	145	136	23.7	1	1
Tekseed	SPX 77	139 (8730)	131	146	22.6	1	0
Todd	MX73	140 (8790)	138	141	22.7	1	0
Todd	MX73A	139 (8730)	135	143	22.0	2	1
Todd	M86	130 (8160)	134	125	24.6	2	0
Trojan	EXP 137	150 (9420)	131	168	22.5	0	0
Trojan	TX 115	133 (8350)	129	136	22.7	1	1
Trojan	TXS 115A	137 (8600)	134	139	22.4	0	0
Wilson	1040	127 (7970)	126	128	21.7	6	0
Wilson	1800	139 (8730)	135	143	21.9	1	1
Wilson	1800A	150 (9420)	139	161	23.7	2	1
Wilson	1812	134 (8410)	131	137	21.2	5	1
Average all entries		137.1 (8610)	135.7	137.9	21.6	1.1	0.4
Dif. req. for sig.	5%	12.8 (804)	15.2	17.9	1.4	N.S.	N.S.
	25%	7.5 (471)	9.0	10.5	0.8	1.6	N.S.

Table 2b. Zone II Nonirrigated. 1977-1978.

Brand	Hybrid	Grain yield	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	%	%	%
		Two-year average			
-----	Nebr. 611	119 (7470)	21.2	4	1
-----	Nebr. 714	128 (8040)	21.9	3	0
Asgrow	RX98	123 (7720)	22.3	6	3
Bo-Jac	X56	128 (8040)	21.8	5	1
Cargill	920	132 (8290)	19.8	6	2
Cargill	949	127 (7970)	21.4	4	1
Coop	2300	127 (7970)	21.6	3	1
Coop	2318	123 (7720)	25.6	4	1
Curry	SC-147	111 (6970)	18.7	3	0
Fontanelle	580	119 (7470)	21.6	3	2
Fontanelle	590	127 (7970)	21.9	6	3
Funk	G-4507	126 (7910)	21.0	3	2
Gold Tag	880	128 (8040)	21.5	3	2
Gutwein	62	122 (7660)	21.4	6	2
Gutwein	88	115 (7220)	25.1	4	1
Kaltenberg	KX68	114 (7160)	17.5	2	4
Kaltenberg	KX76	129 (8100)	21.6	6	2
McCurdy	MSX 60	123 (7720)	20.1	5	1
McCurdy	MSX 65	122 (7660)	20.8	4	1
McCurdy	MSX 70	127 (7970)	22.6	7	1
NC +	59	130 (8160)	21.8	5	2
NC +	76	120 (7530)	23.4	7	1
Northrup King	PX74	129 (8100)	21.4	5	1
O's Gold	SX3344	124 (7780)	21.7	5	0
O's Gold	SX5353	124 (7780)	22.5	4	1
P-A-G	314	123 (7720)	20.0	5	1
Pfister	75	125 (7850)	20.9	5	2
Pioneer	3382	123 (7720)	21.2	7	0
Pioneer	3388	118 (7410)	20.3	3	0
Prairie Valley	PV76S	134 (8410)	21.1	4	4
Super Crost	S85	119 (7470)	25.0	4	0
Super Crost	5440	128 (8040)	21.0	4	1
Super Crost	6800	121 (7600)	23.9	5	1
Tekseed	SPX 34	120 (7530)	21.1	3	2
Tekseed	SPX 36	127 (7970)	22.5	4	3
Tekseed	SPX 77	131 (8220)	23.0	5	1
Todd	MX73	124 (7780)	21.7	4	1
Trojan	TXS 115A	121 (7600)	21.5	3	2
Wilson	1040	119 (7470)	21.8	11	1
Wilson	1800	122 (7660)	21.3	4	2
Average all entries		123.8 (7772)	21.7	4.6	1.4
Dif. req. for sig.	5%	9.7 (609)	1.6	N.S.	N.S.
	25%	5.6 (352)	0.9	2.1	N.S.

Table 2c. Zone II Nonirrigated. 1974-1977.

Brand	Hybrid	Grain yield	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	%	%	%
		Three-year average			
-----	Nebr. 611	94 (5900)	20.5	5	0
-----	Nebr. 714	103 (6470)	21.7	3	0
Bo-Jac	X56	102 (6400)	21.0	4	3
Cargill	920	107 (6720)	18.5	8	1
Cargill	949	101 (6340)	20.6	4	2
Coop	2300	104 (6530)	20.3	3	2
Curry	SC-147	89 (5590)	16.8	3	0
Fontanelle	580	94 (5900)	20.3	2	2
Gutwein	88	93 (5840)	24.0	4	2
Kaltenberg	KX68	89 (5590)	16.5	2	3
Kaltenberg	KX76	101 (6340)	20.3	4	2
McCurdy	MSX 60	99 (6220)	18.9	4	1
McCurdy	MSX 65	99 (6220)	19.1	3	1
NC +	59	105 (6590)	20.9	4	3
NC +	76	93 (8840)	22.3	7	4
O's Gold	SX3344	98 (6150)	20.8	5	1
P-A-G	314	97 (6090)	18.6	6	1
Pioneer	3388	93 (5840)	18.5	3	0
Prairie Valley	PV76S	107 (6720)	19.6	4	5
Super Crost	S85	96 (6030)	24.5	5	0
Super Crost	5440	101 (6340)	20.8	3	2
Tekseed	SPX 34	97 (6090)	20.5	3	2
Tekseed	SPX 36	97 (6090)	20.7	3	2
Todd	MX73	100 (6280)	20.5	3	2
Trojan	TXS 115A	99 (6220)	20.4	3	1
Wilson	1040	95 (5960)	20.7	8	0
Average all entries		98.2 (6165)	20.3	4.1	1.6
Dif. req. for sig. 5%		7.4 (465)	1.6	N.S.	N.S.
25%		4.3 (270)	0.9	2.0	1.7
		Four-year average			
-----	Nebr. 611	87 (5460)	19.6	4	1
Bo-Jac	X56	89 (5590)	20.4	3	2
Cargill	949	91 (5710)	20.0	3	2
Fontanelle	580	88 (5520)	19.5	2	2
Gutwein	88	84 (5270)	23.8	3	2
McCurdy	MSX 60	88 (5520)	17.9	3	1
NC +	59	92 (5780)	20.3	3	2
Pioneer	3388	89 (5590)	17.6	2	0
Prairie Valley	PV76S	98 (6150)	19.1	3	4
Super Crost	S85	87 (5460)	23.4	5	0
Super Crost	5440	92 (5780)	20.0	3	2
Tekseed	SPX 34	86 (5400)	19.8	3	2
Tekseed	SPX 36	88 (5520)	20.0	3	2
Todd	MX73	89 (5590)	19.9	2	2
Trojan	TXS 115A	89 (5590)	20.0	3	2
Wilson	1040	87 (5400)	19.8	6	1
Average all entries		89.0 (5590)	20.1	3.2	1.7
Dif. req. for sig. 5%		N.S.	1.3	N.S.	N.S.
25%		N.S.	0.8	1.4	1.2
		Five-year average			
-----	Nebr. 611	83 (5210)	21.0	5	1
Bo-Jac	X56	83 (5210)	21.7	2	2
Cargill	949	83 (5210)	21.5	3	2
Fontanelle	580	82 (5150)	20.8	2	3
McCurdy	MSX 60	81 (5090)	19.5	3	1
NC +	59	84 (5270)	21.6	3	2
Prairie Valley	PV76S	90 (5650)	20.8	3	4
Super Crost	S85	84 (5270)	24.7	5	1
Super Crost	5440	84 (5270)	21.3	3	2
Todd	MX73	84 (5270)	21.4	2	2
Wilson	1040	83 (5210)	21.4	5	1
Average all entries		83.7 (5255)	21.4	3.3	1.9
Dif. req. for sig. 5%		N.S.	0.9	2.3	N.S.
25%		N.S.	0.5	1.3	1.0

Table 3a. Zone II Irrigated. Summary. 1978.

Brand	Hybrid	Grain yield			1978 average				
		Average 2 tests	Clay County	Hall County	Harvest moisture	Broken plants	Dropped ears	Stalk rot	Plant height
		bu/A (kg/ha)	bu/A	bu/ha	%	%	%	%	in (cm)
-----	Nebr. Exp. 9057	170 (10 670)	192	148	18.4	11	0	27	107 (272)
-----	Nebr. Exp. 9058	161 (10 110)	178	143	19.5	8	1	25	106 (269)
-----	Nebr. 411	152 (9 540)	146	158	14.7	23	1	34	106 (269)
-----	Nebr. 611	147 (9 230)	160	134	17.6	15	1	37	105 (267)
-----	Nebr. 714	173 (10 860)	177	168	17.5	14	1	24	109 (277)
-----	Nebr. 730	138 (8 660)	154	121	17.7	10	1	27	113 (287)
ACCO	UC 7951	159 (9 980)	179	138	19.8	10	2	20	106 (269)
ACCO	UC 8201	179 (11 240)	195	162	17.8	9	3	43	105 (267)
ACCO	UC 8951	175 (10 990)	183	166	20.3	11	2	29	110 (279)
Asgrow	RX90	187 (11 740)	203	171	17.9	6	1	45	104 (264)
Bo-Jac	X51	128 (8 040)	122	134	15.2	23	2	62	105 (267)
Bo-Jac	X52A	169 (10 610)	192	145	17.3	15	1	34	103 (262)
Bo-Jac	X56	153 (9 610)	169	137	18.7	10	2	28	108 (274)
Bo-Jac	X69	153 (9 610)	160	146	16.4	16	2	34	105 (267)
Cargill	920	143 (8 980)	155	130	16.1	11	3	19	101 (257)
Cargill	924	141 (8 851)	151	131	16.7	6	1	18	103 (262)
Cargill	949	178 (11 170)	193	163	18.3	7	1	35	104 (264)
Cenex	2380	161 (10 110)	181	140	18.4	15	2	31	103 (261)
Cenex	2391	174 (10 920)	185	163	15.6	28	2	45	108 (274)
Conti-Seeds	CG 5450	177 (11 110)	185	169	18.4	5	1	36	103 (262)
Coop	2260	123 (9 720)	125	121	14.7	11	2	46	103 (262)
Coop	2300	152 (9 540)	172	131	18.2	13	0	36	103 (262)
Coop	2318	143 (8 980)	145	141	20.7	24	2	58	104 (264)
Curry	SC-150	172 (10 800)	178	166	18.0	10	1	42	103 (262)
Curry	SC-151	146 (9 170)	144	147	18.4	24	2	57	102 (259)
Custom Farm Seed	CFS W222	168 (10 550)	180	155	19.0	20	0	41	108 (274)
DeKalb	XL-362AA	142 (8 910)	148	136	17.1	12	2	34	100 (254)
DeKalb	XL-62AA	132 (8 290)	135	129	17.4	9	1	26	101 (257)
DeKalb	XL-63	148 (9 290)	152	143	17.1	22	2	55	104 (264)
DeKalb	XL-72AA	166 (10 420)	178	154	18.1	7	2	31	104 (264)
Fontanelle	580	168 (10 550)	183	152	18.8	11	2	23	106 (269)
Fontanelle	590	153 (9 610)	160	145	17.2	15	1	52	110 (279)
Frontier	SX233	177 (10 110)	194	160	18.6	4	1	31	105 (267)
Frontier	SX234	149 (9 350)	158	140	16.7	9	3	42	105 (267)
Frontier	SX244	149 (9 350)	145	153	17.5	20	0	38	100 (254)
Frundt	SX14	169 (10 610)	173	165	18.0	11	2	43	106 (269)
Frundt	SX33A	187 (11 740)	200	173	18.0	10	2	45	103 (262)
Funk	G-4507	164 (10 300)	182	146	18.4	13	2	42	106 (269)
Funk	G-4520	170 (10 670)	185	155	18.5	12	3	47	100 (254)
Funk	G-4606	160 (10 040)	166	154	17.4	18	3	26	101 (257)
Gold Tag	3030	160 (10 040)	165	155	17.4	20	2	35	101 (257)
Gold Tag	4020	146 (9 170)	156	135	19.3	16	3	41	107 (272)
Gold Tag	880	169 (10 610)	177	161	19.1	6	2	16	111 (282)
Golden Acres	T-E 6995	180 (11 300)	202	158	18.8	9	1	38	102 (259)
Growers	GSA 2240	140 (8 790)	144	135	16.5	10	1	38	106 (269)
Growers	NS 212	158 (9 920)	171	145	18.5	7	1	39	104 (264)
Gutwein	2910	196 (12 300)	211	180	19.8	7	3	34	103 (262)
Gutwein	62	170 (10 670)	192	147	18.1	9	2	30	105 (267)
Horizon	KR 131	117 (7 350)	127	106	15.0	11	1	29	104 (264)
Horizon	KR 841	143 (8 980)	151	134	15.9	15	1	44	106 (269)
Horizon	KR 861	157 (9 860)	156	157	17.3	16	0	36	102 (259)
Horizon	KR 870	172 (10 800)	185	158	18.4	11	1	45	105 (267)
HP	23	116 (9 280)	121	110	14.5	12	3	43	101 (257)
HP	41	146 (9 170)	161	131	17.0	8	0	14	100 (254)
HP	44	188 (11 800)	212	163	18.2	12	1	36	105 (267)
HP	61	145 (9 100)	144	146	17.3	20	3	44	103 (262)
Jacques	JX180	170 (10 670)	173	167	18.2	16	1	44	105 (267)
Jacques	JX190	145 (9 100)	147	142	17.2	9	1	43	107 (272)
Jacques	JX227	162 (10 170)	171	152	16.2	17	1	44	103 (262)
Keltgen	KS106	129 (8 100)	137	120	14.8	16	1	38	103 (262)
Keltgen	KS109	139 (8 730)	158	119	16.1	10	0	31	106 (269)
Keltgen	KS115	167 (10 480)	181	152	18.4	10	2	29	103 (262)
Keltgen	KS119	146 (9 170)	150	142	17.7	7	2	44	109 (276)
Lynks	LX4220A	129 (8 100)	148	109	15.2	8	1	30	103 (262)
Lynks	LX4330	164 (10 300)	179	149	19.1	8	1	32	105 (267)

Continued

Table 3a. Concluded.

Brand	Hybrid	Grain yield			1978 average				
		Average 2 tests	Clay County	Hall County	Harvest moisture	Broken plants	Dropped ears	Stalk rot	Plant height
		bu/A (kg/ha)	bu/A	bu/A	%	%	%	%	in (cm)
Lynks	LX4370	144 (9 040)	158	129	16.7	9	1	47	107 (271)
Lynks	LX4510	147 (9 230)	155	139	21.2	20	1	56	101 (257)
McCurdy	MSX 70	172 (10 800)	181	162	18.3	11	2	34	104 (264)
McCurdy	MSX 77	176 (11 050)	186	165	19.9	8	1	44	102 (259)
McCurdy	MSX 84	167 (10 480)	186	147	18.6	6	2	21	108 (274)
McCurdy	MSX 86A	185 (11 610)	187	183	19.8	11	3	33	107 (272)
MFA	V-16	133 (8 350)	145	120	20.2	20	2	47	100 (254)
MFA	V-16A	138 (8 660)	151	125	20.5	18	2	46	106 (269)
MFA	5802	159 (9 980)	171	147	18.1	5	1	24	108 (274)
MFA	5903	147 (9 230)	157	136	18.1	8	2	36	105 (267)
NC +	3990	140 (8 790)	144	136	15.4	6	1	17	94 (239)
NC +	4666	123 (7 720)	120	126	16.3	35	4	56	100 (254)
NC +	59	173 (10 860)	185	161	17.8	14	2	30	105 (267)
Northrup King	PX69	161 (10 110)	171	150	15.8	10	1	22	107 (272)
Northrup King	PX74	175 (10 990)	191	158	18.3	9	1	34	107 (272)
Northrup King	PX79	135 (8 480)	145	125	16.8	12	2	41	107 (272)
O's Gold	SX3344	158 (9 920)	172	143	18.1	11	1	31	101 (257)
O's Gold	SX5500A	168 (10 550)	187	149	18.5	7	1	43	103 (262)
O's Gold	SX5500AB	170 (10 670)	188	152	16.7	12	1	41	101 (257)
O's Gold	TX311	137 (8 600)	143	131	17.6	11	2	36	105 (267)
P-A-G	SX 333	165 (10 360)	173	156	17.7	9	1	39	107 (272)
P-A-G	SX 98	140 (8 790)	161	119	21.4	31	2	51	102 (259)
P-A-G	314	176 (11 050)	189	163	17.4	10	1	34	112 (284)
P-A-G	357	146 (9 170)	160	131	18.7	20	3	51	103 (262)
Pfister	75	171 (10 740)	178	164	18.3	12	1	52	105 (267)
Pioneer	3360	195 (12 240)	207	182	17.4	10	1	33	109 (277)
Pioneer	3386	176 (11 050)	180	172	16.2	9	1	31	103 (262)
Pioneer	3536	165 (10 360)	176	153	15.5	5	1	14	104 (264)
Pioneer	3541	154 (9 670)	164	144	14.9	6	0	17	100 (254)
Prairie Stream	SX1L	147 (9 230)	141	152	16.7	10	1	33	107 (272)
Prairie Stream	SX5B	172 (10 800)	176	167	18.7	12	3	39	102 (259)
Prairie Stream	SX66	170 (10 670)	194	146	18.4	5	4	28	105 (267)
Prairie Valley	PV730	179 (11 240)	189	169	15.8	23	1	38	107 (272)
Prairie Valley	PV76S	171 (10 740)	186	155	18.4	8	1	41	106 (269)
Prairie Valley	PV762	148 (9 290)	136	159	18.7	24	2	56	99 (251)
Prairie Valley	PV818	192 (12 050)	201	183	20.2	9	1	33	105 (267)
Ring Around	R.A. Exp. 142	124 (7 780)	134	114	14.7	6	2	33	104 (264)
Super Crost	S85	131 (8 220)	137	124	19.7	29	0	54	102 (259)
Super Crost	5330	156 (9 790)	169	142	17.3	13	2	37	106 (269)
Super Crost	5440	166 (10 420)	183	149	17.7	10	1	36	106 (269)
Super Crost	6800	148 (9 290)	146	150	18.5	21	2	49	102 (259)
Tekseed	SPX 34	156 (9 790)	173	138	18.3	7	0	34	105 (267)
Tekseed	SPX 36	151 (9 480)	164	137	17.6	13	3	44	105 (267)
Tekseed	SPX 71	177 (11 110)	197	157	19.3	9	2	36	109 (277)
Tekseed	SPX 77	153 (9 610)	160	146	19.8	9	2	51	104 (264)
Todd	MX73	153 (9 610)	157	149	18.9	8	1	31	104 (264)
Todd	MX73A	167 (10 480)	190	143	18.3	6	1	33	107 (272)
Todd	M86	141 (8 850)	155	126	19.1	19	1	53	101 (257)
Trojan	EXP 137	175 (10 990)	190	159	19.9	5	1	33	105 (267)
Trojan	T-1108	128 (8 040)	132	124	15.6	11	2	30	105 (267)
Trojan	TXS 115A	178 (11 170)	211	145	18.5	8	1	28	106 (269)
Trojan	TXS 119	140 (8 790)	156	124	19.3	21	1	54	102 (259)
Weather Master	EPX 777	111 (6 970)	116	106	14.3	19	3	36	105 (267)
Wilson	1040	148 (9 290)	169	126	17.5	13	1	21	105 (267)
Wilson	1800	160 (10 040)	175	145	18.7	12	1	25	103 (262)
Wilson	1800A	176 (11 050)	201	150	21.0	7	1	33	109 (277)
Wilson	1900	131 (8 220)	137	124	16.3	18	1	46	106 (269)
Average all entries		157.0 (9 856)	167.8	145.8	17.8	12.5	1.5	36.8	104.5 (265)
Dif. req. for sig.	5%	21.1 (1 325)	25.2	23.6	1.1	N.S.	N.S.	17.7	4.2 (11)
	25%	12.4 (778)	14.8	13.9	0.6	8.7	N.S.	10.4	2.5 (6)

Table 3b. Zone II Irrigated. Hitchcock County. 1978.

Brand	Hybrid	Grain yield	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	%	%	%
-----	Nebr. Exp. 9057	131 (8220)	13.8	10	2
-----	Nebr. Exp. 9058	121 (7600)	14.8	11	1
-----	Nebr. 411	93 (5840)	13.2	5	1
-----	Nebr. 611	115 (7220)	13.4	4	2
-----	Nebr. 714	100 (6280)	14.5	8	1
-----	Nebr. 730	88 (5520)	14.6	3	1
ACCO	UC 7951	130 (8160)	15.7	7	3
ACCO	UC 8201	120 (7530)	13.6	9	2
ACCO	UC 8951	127 (7970)	15.4	10	2
Asgrow	RX90	140 (8790)	13.9	3	3
Bo-Jac	X51	92 (5780)	13.2	14	1
Bo-Jac	X52A	130 (8160)	13.9	14	2
Bo-Jac	X56	127 (7970)	13.4	13	3
Bo-Jac	X69	100 (6280)	13.7	8	2
Cargill	920	108 (6780)	13.5	4	2
Cargill	924	103 (6470)	13.8	13	2
Cargill	949	126 (7910)	13.7	7	4
Cenex	2380	137 (8600)	13.5	9	1
Cenex	2391	124 (7780)	12.6	10	0
Conti-Seeds	CG 5450	128 (8040)	13.4	6	0
Coop	2260	85 (5340)	12.5	13	1
Coop	2300	140 (8790)	13.9	6	2
Coop	2318	95 (5960)	14.2	16	1
Curry	SC-150	159 (9980)	13.5	5	1
Curry	SC-151	106 (6650)	14.1	28	1
Custom Farm Seed	CFS W222	157 (9860)	13.7	4	1
DeKalb	XL-362AA	111 (6970)	14.4	13	2
DeKalb	XL-62AA	102 (6400)	13.3	14	4
DeKalb	XL-63	103 (6470)	13.7	9	4
DeKalb	XL-72AA	123 (7720)	13.8	6	1
Fontanelle	580	136 (8540)	14.1	4	1
Fontanelle	590	110 (6910)	13.8	5	2
Frontier	SX233	135 (8480)	13.3	4	1
Frontier	SX234	110 (6910)	13.2	2	0
Frontier	SX244	98 (6150)	13.8	17	4
Frundt	SX14	150 (9420)	14.0	7	0
Frundt	SX33A	143 (8980)	12.9	6	0
Funk	G-4507	136 (8540)	13.5	11	1
Funk	G-4520	115 (7220)	14.4	4	0
Funk	G-4606	109 (6840)	14.1	14	1
Gold Tag	3030	117 (7350)	13.4	12	2
Gold Tag	4020	107 (6720)	14.4	11	1
Gold Tag	880	149 (9350)	15.5	3	0
Golden Acres	T-E 6995	117 (7350)	15.2	8	2
Growers	GSA 2240	108 (6780)	13.3	3	1
Growers	NS 212	137 (8600)	13.9	5	2
Gutwein	2910	146 (9170)	15.5	3	0
Gutwein	62	135 (8470)	14.0	4	1
Horizon	KR 131	88 (5524)	12.2	9	1
Horizon	KR 841	107 (6720)	13.0	4	1
Horizon	KR 861	102 (6400)	13.7	20	1
Horizon	KR 870	127 (7970)	13.7	10	3
HP	23	78 (4900)	12.5	3	1
HP	41	112 (7030)	14.3	5	3
HP	44	138 (8660)	13.9	10	1
HP	61	107 (6720)	12.9	11	0
Jacques	JX180	127 (7970)	14.4	10	2
Jacques	JX190	107 (6720)	13.7	2	1
Jacques	JX227	117 (7350)	12.6	4	1
Keltgen	KS106	84 (5270)	12.8	11	3
Keltgen	KS109	115 (7220)	13.2	3	0
Keltgen	KS115	119 (7470)	14.7	8	1
Keltgen	KS119	110 (6910)	13.2	6	1
Lynks	LX4220A	78 (4900)	12.6	8	1
Lynks	LX4330	161 (10110)	13.7	7	2

Continued

Table 3b. Concluded.

Brand	Hybrid	Grain yield	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	%	%	%
Lynks	LX4370	110 (6900)	13.2	3	0
Lynks	LX4510	107 (6720)	14.7	12	0
McCurdy	MSX 70	133 (8350)	13.5	17	2
McCurdy	MSX 84	97 (6090)	13.4	9	2
McCurdy	MSX 77	117 (7350)	14.2	6	1
McCurdy	MSX 86A	135 (8480)	15.2	4	2
MFA	V-16	83 (5210)	14.5	16	0
MFA	V-16A	107 (6720)	15.1	3	1
MFA	5802	142 (8910)	14.4	3	2
MFA	5903	112 (7030)	13.4	9	2
NC +	3990	66 (4140)	13.1	3	1
NC +	4666	100 (6280)	12.7	11	0
NC +	59	122 (7660)	13.1	10	1
Northrup King	PX69	116 (7280)	13.4	5	1
Northrup King	PX74	139 (8730)	14.3	1	1
Northrup King	PX79	106 (6650)	12.8	8	5
O's Gold	SX3344	107 (6720)	14.0	9	1
O's Gold	SX5500A	134 (8410)	14.1	12	1
O's Gold	SX5500AB	119 (7470)	13.5	20	2
O's Gold	TX311	112 (7030)	13.1	3	1
P-A-G	SX 333	130 (8160)	13.6	4	0
P-A-G	SX 98	105 (6590)	14.9	27	1
P-A-G	314	127 (7970)	14.3	21	3
P-A-G	357	87 (5460)	13.1	15	2
Pfister	75	133 (8350)	13.6	9	1
Pioneer	3360	149 (9350)	14.7	7	0
Pioneer	3386	119 (7470)	13.5	1	1
Pioneer	3536	111 (6970)	12.7	7	0
Pioneer	3541	108 (6780)	12.1	1	1
Prairie Stream	SX1L	103 (6470)	13.3	5	2
Prairie Stream	SX5B	141 (8850)	13.3	13	3
Prairie Stream	SX66	138 (8660)	14.6	1	1
Prairie Valley	PV730	112 (7030)	13.5	14	2
Prairie Valley	PV76S	121 (7600)	13.7	7	1
Prairie Valley	PV762	125 (7850)	13.6	18	1
Prairie Valley	PV818	138 (8660)	15.6	3	2
Ring Around	R.A. Exp. 142	94 (5900)	12.9	5	2
Super Crost	S85	103 (6470)	13.9	10	1
Super Crost	5330	116 (7280)	13.6	8	2
Super Crost	5440	142 (8910)	14.0	4	0
Super Crost	6800	109 (6840)	13.7	9	2
Tekseed	SPX 34	98 (6150)	13.3	8	0
Tekseed	SPX 36	101 (6340)	13.8	3	1
Tekseed	SPX 71	141 (8850)	15.6	7	0
Tekseed	SPX 77	119 (7470)	14.2	1	0
Todd	MX73	100 (6280)	13.7	7	3
Todd	MX73A	146 (9170)	13.9	9	1
Todd	M86	108 (6780)	13.8	9	1
Trojan	Exp 137	97 (6090)	14.2	8	1
Trojan	T-1108	87 (5460)	13.2	3	1
Trojan	TXS 115A	141 (8850)	14.3	10	0
Trojan	TXS 119	101 (6340)	14.4	14	2
Weather Master	EPX 777	83 (5210)	12.8	4	1
Wilson	1040	113 (7090)	13.5	9	1
Wilson	1800	123 (7720)	13.8	5	1
Wilson	1800A	123 (7720)	15.3	4	1
Wilson	1900	104 (6530)	13.2	2	1
Average all entries		116.5 (7314)	13.8	8.1	1.3
Dif. req. for sig. 5%		28.9 (1814)	1.2	10.3	N.S.
25%		17.0 (1067)	0.7	6.1	1.7

Data from this experiment are not included in zone or period-of-years averages. Moisture stress.

Table 3c. Zone II Irrigated. 1977-1978.

Brand	Hybrid	Grain yield	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	%	%	%
		Two-year average			
-----	Nebr. 411	151 (9 480)	17.3	18	6
-----	Nebr. 611	154 (9 670)	19.8	8	6
-----	Nebr. 714	172 (10 800)	19.8	8	3
ACCO	UC 7951	166 (10 400)	20.4	9	4
ACCO	UC 8951	174 (10 920)	22.0	7	5
Asgrow	RX90	175 (10 990)	19.5	3	4
Bo-Jac	X51	142 (8 910)	17.8	15	6
Bo-Jac	X52A	172 (10 800)	19.8	8	3
Bo-Jac	X56	167 (10 480)	20.0	7	5
Bo-Jac	X69	159 (9 980)	19.4	11	5
Cargill	920	154 (9 670)	18.6	7	5
Cargill	949	180 (11 300)	19.6	9	5
Cenex	2380	164 (10 290)	20.0	9	5
Cenex	2391	179 (11 240)	18.7	17	4
Coop	2300	159 (9 980)	20.0	8	4
Coop	2318	156 (9 790)	22.3	15	4
Curry	SC-150	175 (10 990)	20.1	7	4
Curry	SC-151	155 (9 730)	19.7	14	6
Fontanelle	580	169 (10 610)	20.1	5	6
Fontanelle	590	162 (10 170)	19.3	10	4
Frontier	SX233	178 (11 170)	20.1	2	3
Frontier	SX234	161 (10 110)	19.2	6	4
Frontier	SX244	156 (9 790)	19.6	14	3
Funk	G-4507	167 (10 480)	19.8	10	5
Funk	G-4520	165 (10 360)	19.9	11	5
Gold Tag	880	170 (10 670)	20.6	7	4
Growers	NS 212	166 (10 420)	20.0	4	3
Gutwein	62	171 (10 740)	20.3	6	3
Horizon	KR 841	155 (9 730)	18.6	10	6
Horizon	KR 861	163 (10 230)	19.5	8	5
Horizon	KR 870	178 (11 170)	20.3	7	4
Jacques	JX180	174 (10 920)	20.0	9	3
Lynks	LX4330	170 (10 670)	20.7	8	3
Lynks	LX4370	155 (9 730)	18.9	6	3
Lynks	LX4510	157 (9 860)	22.6	11	4

Continued

Table 3c. Concluded.

Brand	Hybrid	Grain yield	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	%	%	%
		Two-year average			
McCurdy	MSX 70	174 (10 920)	20.8	7	5
McCurdy	MSX 84	173 (10 860)	20.1	5	4
NC +	4666	142 (8 910)	17.7	20	6
NC +	59	172 (10 800)	19.4	7	5
Northrup King	PX74	179 (11 240)	19.9	7	3
Northrup King	PX79	157 (9 860)	19.4	7	5
O's Gold	SX3344	164 (10 300)	19.8	12	7
O's Gold	SX5500A	171 (10 740)	20.0	6	3
O's Gold	SX5500AB	171 (10 740)	19.1	9	4
P-A-G	SX 98	153 (9 610)	23.0	19	5
P-A-G	314	171 (10 740)	19.5	5	3
P-A-G	357	150 (9 420)	20.1	15	5
Pioneer	3360	185 (11 610)	19.6	8	3
Pioneer	3386	175 (10 990)	18.6	5	3
Pioneer	3541	163 (10 230)	17.6	5	3
Prairie Stream	SX1L	159 (9 980)	19.3	8	3
Prairie Stream	SX5B	178 (11 170)	20.3	7	6
Prairie Stream	SX66	167 (10 480)	20.4	8	5
Prairie Valley	PV730	184 (11 550)	18.8	14	3
Prairie Valley	PV76S	172 (10 800)	20.1	11	3
Super Crost	S85	146 (9 170)	21.4	17	3
Super Crost	5440	170 (10 670)	19.8	8	4
Super Crost	6800	151 (9 480)	20.5	16	6
Tekseed	SPX 34	167 (10 480)	20.1	9	4
Tekseed	SPX 36	159 (9 980)	19.8	8	6
Tekseed	SPX 77	169 (10 610)	22.1	6	4
Todd	MX73	168 (10 550)	19.3	9	4
Trojan	TXS 115A	173 (10 860)	20.1	4	3
Trojan	TXS 119	160 (10 040)	21.4	11	6
Weather Master	EPX 777	123 (7 720)	16.9	12	5
Wilson	1040	157 (9 860)	20.0	9	5
Wilson	1800	168 (10 550)	20.4	10	3
Average all entries		164.8 (10 346)	19.8	9.2	4.3
Dif. rea. for sig.	5%	18.7 (1 173)	1.5	N.S.	N.S.
	25%	10.8 (678)	0.9	N.S.	1.6

Table 3d. Zone II Irrigated. 1976-1978.

Brand	Hybrid	Grain yield	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	%	%	%
		Three-year average			
-----	Nebr. 411	154 (9 670)	16.9	14	5
-----	Nebr. 611	158 (9 920)	20.2	7	4
-----	Nebr. 714	171 (10 740)	20.4	7	2
ACCO	UC 8951	170 (10 670)	23.1	5	4
Asgrow	RX90	173 (10 860)	19.9	3	3
Bo-Jac	X52A	171 (10 740)	20.2	7	2
Bo-Jac	X56	172 (10 800)	20.6	6	4
Bo-Jac	X69	168 (10 550)	21.0	9	4
Cargill	920	155 (9 730)	18.7	5	3
Cargill	949	179 (11 240)	20.0	6	4
Cenex	2380	170 (10 670)	20.1	7	4
Coop	2318	158 (9 920)	23.2	11	3
Curry	SC-150	175 (10 990)	20.3	6	3
Fontanelle	580	167 (10 480)	20.4	4	5
Fontanelle	590	164 (10 300)	20.3	7	3
Frontier	SX233	174 (10 920)	20.4	2	2
Frontier	SX234	164 (10 300)	20.1	6	3
Frontier	SX244	161 (10 110)	20.0	11	2
Funk	G-4507	168 (10 550)	20.3	7	4
Funk	G-4520	161 (10 110)	20.4	8	3
Gold Tag	880	172 (10 800)	20.9	5	3
Growers	NS 212	167 (10 480)	20.2	4	3
Gutwein	62	171 (10 740)	20.7	5	3
Horizon	KR 841	161 (10 110)	19.6	8	4
Horizon	KR 870	179 (11 240)	20.4	5	3
Jacques	JX180	172 (10 800)	20.5	7	2
Lynks	LX4330	167 (10 480)	20.9	6	3
Lynks	LX4370	159 (9 980)	20.1	5	2
Lynks	LX4510	155 (9 730)	23.4	9	3
McCurdy	MSX 70	173 (10 860)	21.2	6	4
McCurdy	MSX 84	172 (10 800)	20.6	4	3
NC +	59	174 (10 920)	19.8	6	3
O's Gold	SX3344	166 (10 420)	20.2	9	5
O's Gold	SX5500A	171 (10 740)	20.4	4	2
P-A-G	314	168 (10 550)	20.0	4	2
Pioneer	3386	169 (10 610)	18.7	4	2
Pioneer	3541	159 (9 980)	17.4	4	2
Prairie Stream	SX1L	162 (10 170)	20.4	7	3
Prairie Stream	SX58	177 (11 110)	20.3	5	4
Prairie Valley	PV76S	172 (10 800)	20.4	8	3
Super Crost	S85	148 (9 290)	22.7	13	3
Super Crost	5440	169 (10 610)	20.4	6	3
Tekseed	SPX 34	171 (10 740)	20.7	7	3
Tekseed	SPX 36	165 (10 360)	20.8	7	5
Todd	MX73	172 (10 800)	19.8	7	3
Trojan	TXS 115A	173 (10 860)	20.3	3	2
Trojan	TXS 119	159 (9 980)	22.6	8	5
Wilson	1040	158 (9 920)	20.4	8	3
Wilson	1800	168 (10 550)	20.8	7	2
Average all entries		167.0 (10 484)	20.4	6.5	3.2
Dif. sig. 5%		13.4 (841)	1.4	N.S.	N.S.
25%		7.8 (490)	0.8	3.3	1.2

Table 3e. Zone II Irrigated. 1974-1978.

Brand	Hybrid	Grain yield	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	%	%	%
		Four-year average			
-----	Nebr. 411	153 (9 610)	15.9	13	4
-----	Nebr. 611	159 (9 980)	19.6	7	4
Asgrow	RX90	175 (10 990)	19.7	3	3
Bo-Jac	X52A	173 (10 860)	19.8	6	2
Bo-Jac	X56	177 (11 110)	20.4	6	3
Cargill	920	159 (9 980)	18.1	4	3
Cargill	949	179 (11 240)	19.9	6	3
Coop	2318	160 (10 040)	22.9	10	2
Curry	SC-150	178 (11 170)	19.9	5	3
Fontanelle	580	169 (10 610)	20.1	4	4
Fontanelle	590	168 (10 550)	19.7	7	3
Funk	G-4507	174 (10 920)	20.0	6	4
Gutwein	62	177 (11 110)	20.3	5	3
Horizon	KR 870	178 (11 170)	20.0	4	3
Lynks	LX4330	174 (10 920)	20.4	6	3
McCurdy	MSX 70	174 (10 920)	20.4	6	3
McCurdy	MSX 84	176 (11 050)	20.2	4	3
NC +	59	176 (11 050)	19.5	5	3
O's Gold	SX5500A	172 (10 800)	20.1	4	3
Pioneer	3541	162 (10 170)	16.5	4	3
Prairie Stream	SX1L	166 (10 420)	19.7	7	3
Prairie Stream	SX5B	179 (11 240)	20.3	5	4
Prairie Valley	PV76S	177 (11 110)	19.9	7	3
Super Crost	S85	150 (9 420)	22.2	11	2
Super Crost	5440	171 (10 740)	19.9	6	3
Tekseed	SPX 34	179 (11 240)	20.4	6	3
Tekseed	SPX 36	166 (10 420)	20.4	6	5
Todd	MX73	175 (10 990)	19.4	6	3
Trojan	TXS 115A	175 (10 990)	19.9	3	2
Trojan	TXS 119	161 (10 110)	22.1	9	5
Wilson	1040	158 (9 920)	19.6	8	3
Wilson	1800	166 (10 420)	20.3	6	2
Average all entries		169.9 (10 666)	19.9	6.1	3.1
Dif. req. for sig.	5%	10.9 (684)	1.1	4.6	1.6
	25%	6.4 (402)	0.7	2.7	0.9
		Five-year average			
-----	Nebr. 611	165 (10 360)	19.8	6	3
Asgrow	RX90	180 (11 300)	20.0	2	3
Bo-Jac	X56	183 (11 490)	20.4	5	3
Curry	SC-150	181 (11 360)	20.1	5	3
Fontanelle	580	176 (11 050)	20.4	4	4
Horizon	KR 870	183 (11 490)	20.2	4	3
McCurdy	MSX 70	175 (10 990)	20.5	5	3
McCurdy	MSX 84	180 (11 300)	20.3	4	3
NC +	59	179 (11 240)	19.8	5	3
O's Gold	SX5500A	178 (11 170)	20.2	4	3
Prairie Stream	SX1L	170 (10 670)	19.7	6	2
Prairie Valley	PV76S	184 (11 550)	20.0	6	3
Super Crost	S85	156 (9 790)	22.6	9	2
Super Crost	5440	178 (11 170)	20.1	5	3
Todd	MX73	179 (11 240)	19.7	6	3
Trojan	TXS 115A	181 (11 360)	20.2	3	3
Trojan	TXS 119	164 (10 300)	22.5	8	4
Wilson	1040	163 (10 230)	19.8	7	3
Wilson	1800	172 (10 800)	20.5	5	2
Average all entries		175.1 (10 993)	20.4	5.2	2.9
Dif. req. for sig.	5%	9.8 (615)	0.9	N.S.	N.S.
	25%	5.7 (358)	0.5	2.3	N.S.

Table 4a. Zone III Nonirrigated. Northeast. Dixon County. 1978.

Brand	Hybrid	Grain yield	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	%	%	%
-----	Nebr. 411	108 (6780)	13.9	6	2
-----	Nebr. 611	110 (6910)	15.9	2	0
ACCO	UC 3301-A	119 (7470)	13.8	3	0
ACCO	UC 4201	111 (6970)	14.6	5	0
ACCO	UC 7151	109 (6840)	15.0	7	1
Asgrow	RX2345	92 (5780)	14.0	10	1
Asgrow	RX58	107 (6720)	13.5	2	0
Asgrow	RX90	142 (8910)	16.3	1	1
Cargill	920	127 (7970)	14.3	0	1
Cargill	924	113 (7090)	14.9	6	0
Cargill	949	126 (7910)	16.1	1	1
Cenex	2157	118 (7410)	13.6	5	4
Cenex	2203	102 (6400)	13.3	0	1
Conti-Seeds	CG 5450	132 (8290)	16.1	1	1
Coop	2105	101 (6340)	14.0	4	1
Coop	2260	105 (6590)	13.5	1	0
Coop	2300	117 (7350)	16.6	1	1
Curry	SC-1421	115 (7220)	14.2	1	1
Curry	SC-1422	102 (6400)	13.1	1	1
Curry	SC-1451	119 (7470)	13.4	2	0
DeKalb	XL-54	110 (6910)	15.7	5	0
DeKalb	XL-55A	117 (7350)	13.9	30	0
DeKalb	XL-62AA	117 (7350)	15.9	3	2
DeKalb	XL-63	123 (7220)	15.7	1	0
Federal	FX28	104 (6530)	16.3	1	0
Federal	FX6	107 (6720)	14.0	1	1
Fontanelle	400	116 (7280)	14.2	2	0
Fontanelle	450	110 (6910)	15.9	4	0
Fontanelle	580	124 (7780)	16.9	0	2
Funk	G-4323	118 (7410)	13.1	2	0
Funk	G-4430	124 (7780)	15.1	1	0
Horizon	KR 111	113 (7090)	14.0	0	0
Horizon	KR 131	101 (6340)	13.9	0	0
Horizon	KR 137	108 (6780)	13.6	1	0
Horizon	KR 199	107 (6720)	15.3	1	0
Jacques	JX177	120 (7530)	13.7	0	1
Jacques	JX180	127 (7970)	16.3	1	1
Kaltenberg	KX68	122 (7660)	13.8	1	0
Kaltenberg	KX76	115 (7220)	16.3	1	2
Keltgen	KS115	132 (8290)	16.4	1	0
Keltgen	KS119	105 (6590)	16.1	1	0
Lynks	LX4120	101 (6340)	13.5	3	0
Lynks	LX4220A	105 (6590)	14.0	0	0
McCurdy	MSX 44A	112 (7030)	13.9	1	0
McCurdy	MSX 46	105 (6590)	13.2	2	0

Continued

Table 4a. Concluded.

Brand	Hybrid	Grain yield	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	%	%	%
McCurdy	MSX 60	115 (7220)	14.8	1	1
McCurdy	MSX 84A	125 (7850)	16.0	4	1
NC +	3990	115 (7220)	14.4	1	0
NC +	4666	112 (7030)	14.1	15	0
NC +	59	133 (8350)	16.8	1	2
Northrup King	PX49	108 (6780)	14.0	1	1
Northrup King	PX603	111 (6970)	15.0	4	0
Northrup King	PX69	124 (7780)	14.9	2	1
O's Gold	SX3344	125 (7850)	15.8	2	0
O's Gold	SX5500A	128 (8040)	16.0	1	2
O's Gold	TX303	125 (7850)	15.7	1	2
P-A-G	SX 249	118 (7410)	14.0	5	1
P-A-G	SX 333	123 (7720)	16.4	1	0
P-A-G	SX 397	116 (7280)	13.3	25	1
Pioneer	3388	109 (6840)	16.0	0	1
Pioneer	3591	91 (5710)	14.1	2	0
Pioneer	3720	100 (6280)	13.8	9	0
Pioneer	3780	111 (6970)	13.0	1	1
Prairie Valley	PV362	112 (7030)	13.7	1	0
Prairie Valley	PV600	106 (6650)	14.6	4	0
Prairie Valley	PV730	129 (8100)	15.2	3	0
Prairie Valley	PV76S	139 (8730)	16.3	1	1
Tekseed	SPX 1A	113 (7090)	14.1	2	1
Tekseed	SPX 26	107 (6720)	14.4	2	1
Tekseed	SPX 49	112 (7030)	15.4	2	0
Tekseed	SPX 8	107 (6720)	13.5	2	2
Todd	MX33	86 (5400)	13.1	3	1
Todd	M30	104 (6530)	13.5	3	1
Todd	M48	104 (6530)	13.8	2	2
Trojan	T-1058	112 (7030)	13.7	2	0
Trojan	T-1008	101 (6340)	13.5	1	1
Trojan	TX 115	121 (7600)	16.5	1	1
Trojan	TXS 115A	115 (7220)	16.3	4	0
Weather Master	EPX 777	107 (6720)	13.6	0	2
Weather Master	EPX 888	126 (7910)	16.4	2	0
Weather Master	EPX 889	99 (6220)	17.9	1	1
Weather Master	EPX 899A	121 (7600)	18.8	4	2
Wilson	1016	108 (6780)	13.9	2	1
Wilson	1400	108 (6780)	13.9	0	1
Wilson	1400A	102 (6400)	13.7	2	0
Wilson	2317	106 (6650)	13.9	3	1
Average all entries		113.4 (7119)	14.8	2.8	0.7
Dif. req. for sig.	5%	15.8 (992)	0.8	5.0	1.6
	25%	9.3 (584)	0.5	3.0	1.0

Table 4b. Zone III Nonirrigated. Northeast. 1977-1978.

Brand	Hybrid	Grain yield	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	%	%	%
		Two-year average			
-----	Nebr. 411	95 (5960)	16.8	14	2
-----	Nebr. 611	103 (6470)	19.1	4	1
ACCO	UC 4201	105 (6590)	16.6	4	0
Asgrow	RX2345	99 (6220)	14.0	10	3
Asgrow	RX58	105 (6590)	14.4	9	1
Cargill	920	113 (7090)	16.9	9	1
Cargill	949	110 (6910)	19.6	2	3
Coop	2105	99 (6220)	14.8	4	1
Coop	2300	107 (6720)	19.0	2	2
Curry	SC-1421	109 (6840)	15.3	4	3
Federal	FX6	100 (6280)	14.3	2	1
Fontanelle	400	111 (6970)	15.5	6	2
Fontanelle	450	103 (6470)	18.0	4	1
Fontanelle	580	101 (6340)	19.7	1	3
Funk	G-4430	109 (6840)	17.1	4	4
Kaltenberg	KX68	110 (6910)	15.4	2	3
Kaltenberg	KX76	104 (6530)	19.9	1	2
McCurdy	MSX 44A	107 (6720)	15.2	8	1
McCurdy	MSX 46	97 (6090)	14.9	2	3
McCurdy	MSX 60	102 (6400)	17.6	2	2
NC +	4666	105 (6590)	16.5	15	0
O's Gold	SX3344	109 (6840)	19.5	8	1
P-A-G	SX 397	108 (6780)	14.9	24	2
Pioneer	3780	104 (6530)	13.8	3	1
Prairie Valley	PV76S	117 (7350)	19.7	1	3
Tekseed	SPX 1A	105 (6590)	15.6	6	2
Tekseed	SPX 26	102 (6400)	17.5	5	1
Tekseed	SPX 8	100 (6280)	15.7	4	3
Todd	MX33	92 (5780)	13.6	3	1
Todd	M30	100 (6280)	14.3	4	2
Trojan	TXS 115A	98 (6150)	19.3	2	1
Wilson	1016	104 (6530)	14.8	9	2
Wilson	1400	100 (6280)	15.5	1	3
Average all entries		104.0 (6529)	16.5	5.4	1.8
Dif. req. for sig.	5%	N.S.	3.0	8.1	N.S.
	25%	N.S.	1.7	4.7	N.S.

Table 4c. Zone III Nonirrigated. Northeast. 1973-1978. No 1976 data.

Brand	Hybrid	Grain yield	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	%	%	%
		Three-year average			
-----	Nebr. 411	94 (5900)	14.7	12	2
-----	Nebr. 611	102 (6400)	17.1	4	2
ACCO	UC 4201	105 (6590)	14.5	4	1
Asgrow	RX58	103 (6470)	13.1	8	3
Cargill	920	111 (6970)	15.1	7	1
McCurdy	MSX 44A	104 (6530)	13.6	6	3
P-A-G	SX 397	105 (6590)	12.9	19	3
Pioneer	3780	99 (6220)	12.1	3	3
Prairie Valley	PV76S	110 (6910)	17.5	1	4
Tekseed	SPX 1A	101 (6340)	13.8	6	4
Tekseed	SPX 8	101 (6340)	13.8	3	4
Todd	M30	98 (6150)	12.7	3	3
Average all entries		102.8 (6451)	14.2	6.3	2.8
Dif. req. for sig.	5%	N.S.	1.7	7.6	N.S.
	25%	6.4 (402)	1.0	4.3	1.3
		Four-year average			
-----	Nebr. 411	86 (5400)	16.7	9	2
-----	Nebr. 611	92 (5780)	19.3	3	1
ACCO	UC 4201	93 (5840)	15.7	3	1
Asgrow	RX58	89 (5590)	14.6	6	2
McCurdy	MSX 44A	91 (5710)	15.0	5	2
P-A-G	SX 397	94 (5900)	14.1	14	2
Pioneer	3780	89 (5590)	13.2	3	3
Prairie Valley	PV76S	96 (6030)	18.8	1	3
Tekseed	SPX 1A	90 (5650)	15.3	5	3
Todd	M30	88 (5520)	14.4	3	2
Average all entries		90.8 (5700)	15.7	5.2	2.1
Dif. req. for sig.	5%	N.S.	1.7	6.6	N.S.
	25%	N.S.	1.0	3.7	1.0
		Five-year average			
-----	Nebr. 611	96 (6030)	19.8	3	1
Asgrow	RX58	91 (5712)	14.9	5	2
Pioneer	3780	93 (5840)	13.3	2	2
Prairie Valley	PV76S	103 (6470)	19.9	1	3
Average all entries		95.8 (6014)	17.0	2.8	2.0
Dif. req. for sig.	5%	N.S.	2.3	3.1	N.S.
	25%	6.9 (433)	1.3	1.7	0.8

Location of tests (counties): 1973 Dixon, Knox; 1974 Thurston; 1975 Dixon, Pierce; 1976 Failed, drouth; 1977 Dixon, Knox; 1978 Dixon.

Table 5a. Zone III Irrigated. Northeast. Antelope County. 1978

Brand	Hybrid	Grain yield	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	%	%	%
-----	Nebr. 411	119 (7470)	14.6	3	0
-----	Nebr. 611	134 (8410)	17.9	3	0
ACCO	UC 3301-A	122 (7660)	15.5	1	0
ACCO	UC 4201	128 (8040)	17.3	4	0
ACCO	UC 7151	133 (8350)	16.1	3	0
Asgrow	RX2345	117 (7350)	14.8	6	1
Asgrow	RX58	126 (7910)	14.6	1	0
Asgrow	RX90	151 (9480)	20.0	1	0
Cargill	920	143 (8980)	16.6	2	0
Cargill	924	139 (8730)	17.3	6	0
Cargill	949	169 (10610)	18.2	4	0
Cenex	2157	142 (8910)	14.2	4	0
Cenex	2203	134 (8410)	14.9	1	1
Conti-Seeds	CG 5450	161 (10107)	19.2	2	2
Coop	2105	123 (7720)	14.6	2	1
Coop	2260	135 (8480)	15.3	3	1
Coop	2300	157 (9860)	19.0	3	0
Curry	SC-1421	127 (7970)	14.9	2	1
Curry	SC-1422	120 (7530)	13.9	1	0
Curry	SC-1451	128 (8040)	14.3	1	0
DeKalb	XL-54	141 (8850)	19.0	4	1
DeKalb	XL-55A	151 (9480)	17.3	5	0
DeKalb	XL-62AA	133 (8350)	16.9	3	0
DeKalb	XL-63	137 (8600)	17.8	3	0
Federal	FX28	136 (8540)	19.2	4	2
Federal	FX6	124 (7780)	14.0	2	1
Fontanelle	400	129 (8100)	15.2	3	0
Fontanelle	450	127 (7970)	16.8	2	0
Fontanelle	580	155 (9730)	18.9	2	1
Funk	G-4323	121 (7600)	14.5	0	2
Funk	G-4430	139 (8730)	15.3	7	0
Horizon	KR 111	126 (7910)	14.8	1	0
Horizon	KR 131	125 (7850)	14.9	2	0
Horizon	KR 137	128 (8040)	14.9	1	0
Horizon	KR 199	134 (8410)	17.7	2	0
Jacques	JX177	138 (8660)	15.4	2	0
Jacques	JX180	149 (9350)	18.7	1	0
Kaltenberg	KX68	128 (8040)	14.9	1	0
Kaltenberg	KX76	160 (10040)	18.1	1	0
Keltgen	KS115	155 (9730)	19.1	2	1
Keltgen	KS119	142 (8910)	17.4	4	1
Lynks	LX4120	134 (8410)	15.0	3	0
Lynks	LX4220A	126 (7910)	15.5	2	1
McCurdy	MSX 44A	134 (8410)	15.5	2	0
McCurdy	MSX 46	128 (8040)	15.4	2	2

Continued

Table 5a. Concluded.

Brand	Hybrid	Grain yield	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	%	%	%
McCurdy	MSX 60	156 (8790)	15.7	3	1
McCurdy	MSX 84A	153 (9610)	18.1	11	0
NC +	3990	113 (7090)	15.0	2	0
NC +	4666	132 (8290)	15.7	5	0
NC +	59	150 (9420)	18.5	2	1
Northrup King	PX49	144 (9040)	14.5	3	0
Northrup King	PX603	145 (9100)	16.3	3	0
Northrup King	PX69	138 (8660)	16.5	1	0
O's Gold	SX3344	133 (8350)	18.2	2	0
O's Gold	SX5500A	156 (9790)	18.5	2	0
O's Gold	TX303	139 (8730)	16.1	0	1
P-A-G	SX 249	134 (8410)	14.9	4	1
P-A-G	SX 333	154 (9670)	18.2	1	0
P-A-G	SX 397	134 (8410)	15.1	6	0
Pioneer	3388	139 (8730)	19.0	5	0
Pioneer	3591	101 (6340)	15.7	2	0
Pioneer	3720	123 (7720)	14.6	1	0
Pioneer	3780	135 (8480)	14.2	3	0
Prairie Valley	PV362	139 (8730)	14.0	3	0
Prairie Valley	PV600	127 (7970)	15.7	0	2
Prairie Valley	PV730	146 (9170)	16.9	2	0
Prairie Valley	PV76S	152 (3540)	19.2	3	0
Tekseed	SPX 1A	131 (8220)	14.9	3	0
Tekseed	SPX 26	137 (8600)	16.4	4	1
Tekseed	SPX 49	154 (9670)	16.8	2	0
Tekseed	SPX 8	116 (7280)	15.5	1	0
Todd	MX33	88 (5520)	13.5	2	0
Todd	M30	114 (7160)	14.5	2	1
Todd	M48	119 (7470)	14.1	2	1
Trojan	T-1058	128 (8040)	15.9	5	1
Trojan	T-1008	120 (7530)	14.4	2	0
Trojan	TX 115	130 (8160)	18.7	2	0
Trojan	TXS 115A	151 (9480)	18.8	1	0
Weather Master	EPX 777	125 (7850)	15.5	2	1
Weather Master	EPX 888	137 (8600)	17.9	3	1
Weather Master	EPX 889	144 (9040)	19.9	2	0
Weather Master	EPX 899A	146 (9170)	21.2	3	0
Wilson	1016	121 (7600)	15.1	3	0
Wilson	1400	103 (6470)	15.1	2	0
Wilson	1400A	120 (7530)	15.7	2	1
Wilson	2317	133 (8350)	15.2	3	0
Average all entries		134.5 (8444)	16.3	2.6	0.4
Dif. req. for sig.	5%	21.0 (1318)	1.1	3.1	N.S.
	25%	12.4 (778)	0.6	1.8	0.7

Table 5b. Zone III Irrigated. Northeast. 1977-1978.

Brand	Hybrid	Grain yield	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	%	%	%
		Two-year average			
-----	Nebr. 411	137 (8600)	16.0	8	0
-----	Nebr. 611	153 (9610)	20.0	5	1
ACCO	UC 4201	140 (8790)	18.3	4	1
Asgrow	RX2345	137 (8600)	14.7	8	4
Asgrow	RX58	141 (8850)	15.1	5	2
Cargill	920	170 (10670)	17.4	3	2
Cargill	949	169 (10610)	19.4	4	2
Coop	2105	128 (8040)	15.0	5	1
Coop	2300	166 (10420)	19.7	2	2
Curry	SC-1421	137 (8600)	14.9	3	3
Federal	FX6	143 (8980)	14.4	5	2
Fontanelle	400	147 (9230)	15.6	5	0
Fontanelle	450	143 (8980)	17.7	3	1
Fontanelle	580	158 (9920)	20.3	2	3
Funk	G-4430	149 (9350)	16.4	5	6
Kaltenberg	KX68	148 (9290)	15.9	2	6
Kaltenberg	KX76	169 (10610)	19.3	1	4
McCurdy	MSX 44A	150 (9420)	15.8	4	1
McCurdy	MSX 46	148 (9290)	15.8	3	4
McCurdy	MSX 60	166 (10420)	17.2	4	5
NC +	4666	149 (9350)	16.1	6	0
O's Gold	SX3344	154 (9670)	20.3	7	3
P-A-G	SX 397	150 (9420)	15.9	3	3
Pioneer	3780	140 (8790)	14.2	3	2
Prairie Valley	PV76S	165 (10360)	19.4	3	1
Tekseed	SPX 1A	144 (9040)	16.0	6	1
Tekseed	SPX 26	152 (9540)	18.3	7	2
Tekseed	SPX 8	141 (8850)	16.3	3	5
Todd	MX33	115 (7220)	13.9	3	3
Todd	M30	128 (8040)	15.2	4	3
Trojan	TXS 115A	164 (10300)	19.5	3	3
Wilson	1016	139 (8730)	15.5	7	1
Wilson	1400	129 (8100)	16.0	2	3
Average all entries		147.5 (9260)	16.8	4.2	2.4
Dif. req. for sig.	5%	18.9 (1187)	1.6	N.S.	N.S.
	25%	10.9 (684)	0.9	N.S.	N.S.

Table 5c. Zone III Irrigated. Northeast. 1976-1978.

Brand	Hybrid	Grain yield	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	%	%	%
		Three-year average			
-----	Nebr. 411	136 (8540)	17.5	9	1
-----	Nebr. 611	147 (9230)	22.4	6	1
ACCO	UC 4201	137 (8600)	18.9	4	1
Cargill	920	159 (9980)	19.8	4	1
Federal	FX6	139 (8730)	14.6	6	2
Fontanelle	580	151 (9480)	22.3	4	2
Kaltenberg	KX68	138 (8660)	17.1	2	4
Kaltenberg	KX76	160 (10040)	22.1	2	3
McCurdy	MSX 44A	143 (8980)	17.3	5	0
McCurdy	MSX 46	141 (8850)	16.3	5	3
O's Gold	SX3344	152 (9540)	22.0	9	2
P-A-G	SX 397	146 (9170)	16.8	3	3
Prairie Valley	PV76S	156 (9790)	21.9	4	2
Tekseed	SPX 1A	141 (8850)	17.3	9	1
Tekseed	SPX 8	139 (8730)	16.8	5	5
Todd	M30	131 (8220)	16.2	5	4
Wilson	1016	138 (8660)	16.7	7	2
Wilson	1400	132 (8290)	17.7	6	3
Average all entries		143.7 (9021)	18.5	5.3	2.2
Dif. req. for sig.	5%	15.1 (948)	2.4	4.4	N.S.
	25%	8.7 (546)	1.4	2.5	N.S.

Location of tests (counties):
1976 - Wayne
1977 - Cedar
1978 - Antelope

Table 6a. Southwest Ecofallow. Summary. 1978.

Brand	Hybrid	Grain yield			1978 average		
		Average 2 tests	Lincoln County	Red Willow County	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	bu/A	bu/A	%	%	%
-----	Nebr. 411	53 (3330)	22	83	14.7	2	2
-----	Nebr. 611	51 (3200)	20	81	19.6	0	0
ACCO	UC 7601	51 (3200)	17	85	15.8	1	1
ACCO	UC 7951	52 (3260)	20	84	24.2	0	3
Asgrow	RX2445	57 (3580)	32	82	12.2	3	4
Bo-Jac	EXP 432	58 (3640)	28	87	11.1	2	0
Bo-Jac	X56	54 (3390)	16	92	19.8	2	1
Bo-Jac	X69	50 (3140)	16	83	20.5	1	0
Cenex	2157	55 (3450)	28	81	10.9	0	4
Cenex	2203	58 (3640)	31	85	11.9	3	1
Conti-Seeds	CG 5450	55 (3450)	19	91	19.1	2	2
Fontanelle	500	52 (3260)	21	82	13.7	3	0
Fontanelle	580	52 (3260)	15	89	19.5	4	3
Funk	G-4430	53 (3330)	21	84	17.3	4	1
Funk	G-4444	59 (3700)	33	84	11.8	1	0
Funk	G-4449	57 (3580)	32	81	13.5	2	0
Growers	GSA 2030	57 (3580)	24	90	11.5	2	2
Horizon	KR 131	54 (3390)	29	78	12.2	1	3
Horizon	KR 199	53 (3330)	21	85	17.0	1	2
Horizon	KR 861	58 (3640)	29	87	19.0	1	0
Horizon	KR 870	56 (3520)	22	89	18.5	2	5
Lynks	LX4220A	57 (3580)	29	85	12.3	1	3
Lynks	LX4330	54 (3390)	19	88	20.3	1	4
McCurdy	MSX 60	51 (3200)	14	88	16.7	3	3
McCurdy	MSX 84	52 (3260)	12	92	19.3	1	4
McCurdy	MSX 84A	58 (3040)	23	92	17.1	1	1
NC +	3990	59 (3700)	29	89	14.9	0	0
NC +	4666	59 (3700)	32	86	13.0	2	1
Northrup King	PX49	56 (3520)	24	87	12.1	0	1
Northrup King	PX603	53 (3330)	22	83	16.2	0	0
Northrup King	PX69	50 (3140)	20	80	16.4	0	0
Northrup King	PX74	58 (3640)	20	95	19.5	1	4
O's Gold	SX1101	56 (3520)	30	82	9.6	1	1
O's Gold	SX5500A	56 (3520)	22	90	19.7	2	4
O's Gold	TX303	54 (3390)	18	89	16.2	3	4
Pioneer	3498	54 (3390)	29	79	14.7	0	1
Pioneer	3591	47 (2950)	27	67	10.2	0	2
Pioneer	3713	60 (3770)	34	86	9.1	1	1
Pioneer	3720	63 (3960)	39	86	9.5	7	3
Tekseed	SPX 1A	61 (3830)	34	87	10.8	1	1
Tekseed	SPX 26	53 (3330)	24	82	17.7	2	1
Tekseed	SPX 8	52 (3260)	19	84	16.7	3	3
Tekseed	SPX 9	59 (3700)	36	82	11.7	2	2
Todd	MX73A	53 (3330)	18	87	20.4	2	3
Todd	M30	54 (3390)	26	81	11.1	2	1
Todd	M48	45 (2830)	16	73	14.1	0	0
Trojan	TX 111	48 (3010)	18	78	14.9	4	1
Trojan	TX 115	49 (3080)	15	83	19.0	2	1
Trojan	TXS 102	54 (3390)	28	80	11.3	2	2
Wilson	1016	62 (3890)	40	84	10.5	4	1
Wilson	1400	53 (3330)	24	81	12.1	3	3
Wilson	1800	53 (3330)	20	85	19.2	0	2
Wilson	1812	57 (3580)	27	86	15.6	2	6
Average all entries		54.6 (3428)	24.2	84.5	15.2	1.7	1.8
Dif. req. for sig.	5%	N.S.	7.8	6.2	5.3	N.S.	3.9
	25%	N.S.	4.6	3.7	3.1	N.S.	2.2

Table 6b. Southwest Ecofallow. 1977-1978.

Brand	Hybrid	Grain yield	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	%	%	%
		Two-year average			
-----	Nebr. 411	67 (4210)	20.0	1	1
-----	Nebr. 611	69 (4330)	24.1	0	1
ACCO	UC 7601	69 (4330)	21.8	1	1
Fontanelle	500	68 (4270)	20.4	2	0
Fontanelle	580	71 (4460)	23.7	2	2
Funk	G-4430	71 (4460)	21.0	2	1
Funk	G-4444	73 (4580)	16.4	1	0
Funk	G-4449	73 (4580)	18.7	1	0
McCurdy	MSX 60	72 (4520)	22.2	2	2
McCurdy	MSX 84	74 (4650)	23.8	1	2
Northrup King	PX74	76 (4770)	23.9	0	2
Tekseed	SPX 1A	71 (4460)	17.2	1	1
Tekseed	SPX 26	67 (4210)	23.1	1	1
Tekseed	SPX 8	69 (4330)	20.4	2	2
Tekseed	SPX 9	73 (4580)	16.5	1	1
Trojan	TXS 102	70 (4390)	16.4	1	1
Wilson	1016	74 (4650)	15.2	2	1
Wilson	1400	68 (4270)	18.4	2	2
Average all entries		70.8 (4445)	20.2	1.3	1.2
Dif. req. for sig.	5%	N.S.	2.6	N.S.	N.S.
	25%	N.S.	1.5	N.S.	N.S.

Location of tests (counties):
1977 - Gosper, Lincoln
1978 - Lincoln, Red Willow

Table 7a. Zone III Irrigated. Central and Southwest. Summary. 1978.

Brand	Hybrid	Grain yield			1978 average		
		Average 2 tests	Logan County	Chase County	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	bu/A	bu/A	%	%	%
-----	Nebr. 411	146 (9170)	119	172	16.3	7	0
-----	Nebr. 611	146 (9170)	135	157	19.5	2	0
ACCO	UC 7601	166 (10420)	142	190	20.0	3	0
ACCO	UC 7951	167 (10480)	148	185	22.4	4	0
Asgrow	RX2345	118 (7410)	114	121	16.3	22	0
Asgrow	RX2445	141 (8850)	130	151	17.2	13	0
Asgrow	RX58	130 (8160)	122	137	16.4	2	0
Bo-Jac	X14	141 (8850)	135	146	14.7	7	0
Bo-Jac	X35	155 (9730)	146	163	16.5	5	0
Bo-Jac	X51	139 (8730)	122	156	16.8	1	0
Bo-Jac	X566	156 (9790)	124	188	19.9	3	1
Cargill	924	157 (9860)	147	167	18.8	13	0
Cargill	949	157 (9860)	152	162	19.3	4	1
Cenex	2157	152 (9540)	129	174	15.6	7	1
Cenex	2203	140 (8790)	125	154	15.6	2	0
Cenex	2380	145 (9100)	131	158	19.9	2	0
Conti-Seeds	CG 5450	150 (9420)	133	166	19.9	2	1
Coop	2105	126 (7910)	133	119	14.9	10	0
Coop	2260	148 (9290)	136	160	15.2	3	0
Coop	2300	154 (9670)	138	169	18.7	4	0
Curry	SC-1414	131 (8220)	131	130	15.6	4	0
Curry	SC-147	130 (8160)	120	139	18.6	9	0
Custom Farm Seed	CFS W120	123 (7720)	123	123	16.1	4	0
Custom Farm Seed	CFS W220	153 (9610)	129	177	17.8	10	0
Custom Farm Seed	CFS 144	130 (8160)	131	128	15.1	5	1
Custom Farm Seed	CFS 222	156 (9790)	144	167	21.1	5	0
DeKalb	XL-39	138 (8660)	122	153	16.5	3	0
DeKalb	XL-55A	146 (9170)	130	162	16.9	18	0
DeKalb	XL-62AA	147 (9230)	144	149	18.2	5	0
DeKalb	XL-63	147 (9230)	124	169	18.9	2	0
Fontanelle	400	141 (8850)	143	138	16.1	5	0
Fontanelle	430	138 (8660)	123	152	15.7	2	0
Fontanelle	450	135 (8480)	125	145	19.7	3	0
Frontier	SX209	137 (8600)	126	148	15.9	3	0
Frontier	SX233	161 (10110)	144	177	19.8	4	0
Frontier	SX234	139 (8730)	133	144	19.1	2	1
Frontier	SX244	162 (10170)	144	180	19.8	3	0
Funk	G-4430	124 (7780)	109	138	16.4	11	0
Funk	G-4449	146 (9170)	118	173	17.3	3	0
Golden Acres	T-E 6925	139 (8730)	123	154	15.6	1	0
Golden Acres	T-E 6995	176 (11050)	162	189	20.3	6	0
Gutwein	2446	109 (6840)	112	106	16.9	6	0
Horizon	KR 131	116 (7280)	109	122	16.0	1	0
Horizon	KR 841	142 (8910)	130	153	18.8	2	0
Horizon	KR 861	171 (10740)	154	188	21.3	2	0
Horizon	KR 870	156 (9790)	132	179	19.0	2	0
Jacques	JX177	140 (8790)	118	161	16.0	4	0
Jacques	JX180	180 (11300)	152	207	19.2	3	0
Kaltenberg	KX68	146 (9170)	121	171	15.3	2	0
Kaltenberg	KX76	173 (10860)	153	192	20.7	1	0

Continued

Table 7a. Concluded.

Brand	Hybrid	Grain yield			1978 average		
		Average 2 tests	Logan County	Chase County	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	bu/A	bu/A	%	%	%
Keltgen	KS102	135 (8480)	129	141	16.3	3	0
Keltgen	KS106	140 (8790)	130	149	16.0	5	0
Keltgen	KS115	172 (10800)	144	199	19.2	1	0
Lynks	LX4120	117 (7350)	112	122	16.2	4	1
Lynks	LX4220A	142 (8910)	121	162	15.9	3	0
McCurdy	MSX 46	137 (8600)	118	155	15.1	2	0
McCurdy	MSX 60	149 (9350)	140	158	16.9	1	0
McCurdy	MSX 77	169 (10610)	146	191	22.8	6	0
McCurdy	MSX 84	152 (9540)	137	166	19.5	3	0
NC +	2999	146 (9170)	140	152	14.8	5	0
NC +	3990	131 (8220)	116	145	17.5	1	0
NC +	4666	143 (8980)	126	160	16.1	11	0
Northrup King	PX45	135 (8480)	135	135	15.8	4	0
Northrup King	PX46	134 (8410)	128	140	15.4	2	0
Northrup King	PX49	149 (9350)	139	158	15.5	3	0
O's Gold	SX3344	159 (9980)	142	176	20.0	1	0
O's Gold	SX5500A	161 (10110)	146	175	20.2	5	0
P-A-G	SX 249	160 (10040)	149	171	16.5	4	1
P-A-G	SX 333	159 (9980)	143	175	19.4	3	0
P-A-G	SX 397	141 (9850)	127	154	15.3	23	0
Pioneer	3536	149 (9350)	141	156	17.4	3	1
Pioneer	3541	137 (8600)	126	147	16.0	4	0
Pioneer	3713	131 (8220)	119	142	15.3	0	0
Pioneer	3720	150 (9420)	148	151	14.9	8	0
Prairie Valley	PV34S	158 (9920)	132	184	16.5	1	0
Prairie Valley	PV362	144 (9040)	137	150	14.9	2	1
Prairie Valley	PV600	144 (9040)	134	154	17.9	2	0
Prairie Valley	PV76S	162 (10170)	149	175	19.7	1	0
Tekseed	SPX 26	137 (8600)	108	165	18.2	14	0
Tekseed	SPX 49	154 (9670)	118	190	17.4	6	0
Tekseed	SPX 77	158 (9920)	135	181	22.8	10	0
Tekseed	SPX 8	123 (7720)	114	131	16.1	2	0
Trojan	T-1008	128 (8040)	118	138	15.4	7	0
Trojan	T-1058	141 (8850)	134	148	15.4	5	0
Trojan	T-1108	146 (9170)	139	153	16.1	9	0
Trojan	TXS 102	126 (7910)	120	132	16.9	1	0
Wilson	1016	133 (8350)	129	137	16.3	4	0
Wilson	1400	125 (7850)	111	139	15.2	2	0
Wilson	1400A	123 (7720)	117	128	15.8	2	0
Wilson	2317	144 (9040)	135	152	15.8	1	0
Average all entries		144.6 (9078)	131.4	157.2	17.4	4.7	0.1
Dif. req. for sig.	5%	23.7 (1488)	22.4	28.1	2.1	N.S.	N.S.
	25%	13.8 (866)	13.2	16.5	1.3	6.4	N.S.

Table 7b. Zone III Irrigated. Central. 1977-1978.

Brand	Hybrid	Grain yield	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	%	%	%
		Two-year average			
-----	Nebr. 411	152 (9540)	17.1	14	1
-----	Nebr. 611	150 (9420)	21.6	7	1
ACCO	UC 7601	172 (10800)	22.7	4	0
Asgrow	RX2345	144 (9040)	16.3	17	2
Asgrow	RX58	143 (8980)	16.9	12	2
Coop	2300	171 (10740)	21.5	7	2
Curry	SC-147	152 (9540)	20.6	9	3
Custom Farm Seed	CFS W220	164 (10300)	19.8	10	1
Custom Farm Seed	CFS 144	152 (9540)	17.5	6	3
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
Funk	G-4449	159 (9980)	18.6	5	0
Jacques	JX177	155 (9730)	17.2	5	3
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
McCurdy	MSX 84	164 (10300)	21.7	7	2
NC +	4666	152 (9540)	17.9	13	0
Northrup King	PX46	162 (10170)	16.8	7	3
O's Gold	SX3344	168 (10550)	23.7	6	1
O s Gold	SX5500A	177 (11110)	22.7	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
Tekseed	SPX 26	148 (9290)	20.9	10	1
Tekseed	SPX 8	152 (9540)	18.1	7	1
Trojan	TXS 102	138 (8660)	17.8	10	2
Average all entries		155.9 (9787)	19.2	8.3	1.5
Dif. req. for sig.	5%	23.5 (1475)	2.4	N.S.	N.S.
	25%	13.5 (848)	1.4	6.0	N.S.

Location of tests (counties):
1977 - Custer
1978 - Logan, Chase

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

Brand	Hybrid	Grain yield	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	%	%	%
		Three-year average			
-----	Nebr. 411	136 (8540)	17.9	10	1
-----	Nebr. 611	137 (8600)	23.3	5	1
Asgrow	RX2345	135 (8480)	17.3	13	2
Asgrow	RX58	134 (8410)	18.5	9	1
Fontanelle	400	137 (8600)	18.6	7	1
Funk	G-4449	142 (8910)	19.9	4	0
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
McCurdy	MSX 84	145 (9100)	23.9	5	2
O's Gold	SX3344	147 (9230)	24.7	4	1
O's Gold	SX5500A	151 (9480)	24.8	5	1
P-A-G	SX 397	140 (8790)	18.7	15	1
Pioneer	3541	148 (9290)	18.5	2	0
Tekseed	SPX 8	144 (9040)	18.9	5	1
Trojan	TXS 102	132 (8290)	19.3	7	2
Average all entries		139.6 (8764)	20.1	6.8	1.1
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. 411	142 (8910)	16.9	7	1
-----	Nebr. 611	142 (8910)	21.9	4	1
Asgrow	RX58	143 (8980)	18.5	7	1
Fontanelle	400	143 (8980)	17.8	6	1
Funk	G-4449	147 (9230)	18.5	3	0
McCurdy	MSX 46	142 (8910)	16.0	3	1
McCurdy	MSX 60	154 (9670)	20.4	3	1
McCurdy	MSX 84	153 (9610)	21.9	4	1
O's Gold	SX5500A	156 (9790)	22.7	4	1
P-A-G	SX 397	148 (9290)	17.8	11	0
Pioneer	3541	152 (9540)	17.0	2	0
Tekseed	SPX 8	143 (8980)	17.7	4	1
Trojan	TXS 102	136 (8540)	18.1	5	1
Average all entries		146.2 (9178)	18.9	4.8	0.8
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. 411	146 (9170)	18.2	6	1
-----	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
O's Gold	SX5500A	157 (9860)	24.8	3	1
Trojan	TXS 102	139 (8730)	19.4	4	1
Average all entries		149.1 (9360)	20.8	3.7	0.9
Dif. req. for sig. 5%		N.S.	2.0	N.S.	N.S.
25%		8.2 (515)	1.1	N.S.	N.S.

Table 8a. Zone IV Irrigated. Summary. 1978.

Brand	Hybrid	Grain yield			1978 average	
		Average 2 tests	Scotts Bluff County	Box Butte County	Harvest moisture	Test weight
		bu/A (kg/ha)	bu/A	bu/A	%	lbs/bu (kg/hl)
-----	Nebr. 411	107 (6720)	90	123	31.7	48.2 (62.0)
ACCO	UC 2951	127 (7970)	122	132	26.6	53.5 (68.9)
ACCO	UC 3002	110 (6910)	116	104	30.1	50.7 (65.3)
Asgrow	RX2345	121 (7600)	116	126	28.0	52.6 (67.7)
Bo-Jac	X14	117 (7350)	118	116	24.2	53.5 (68.9)
Bo-Jac	X28	128 (8040)	109	147	27.5	53.4 (68.7)
Cargill	832	119 (7470)	123	114	25.7	53.9 (69.4)
Cargill	838	117 (7350)	123	111	27.9	52.2 (67.2)
Cenex	2111	123 (7720)	131	115	27.1	52.3 (67.3)
Cenex	2157	149 (9350)	136	162	27.1	52.3 (67.3)
Cenex	2203	126 (7910)	122	130	27.9	52.4 (67.4)
Conti-Seeds	CG 5450	133 (8350)	139	126	35.4	48.2 (62.0)
Coop	2100	128 (8040)	127	129	25.3	54.9 (70.7)
Coop	2105	113 (7090)	123	103	27.9	51.9 (66.8)
Corn King	1122	118 (7410)	109	127	30.1	51.4 (66.2)
DeKalb	XL-12	117 (7350)	124	110	25.2	54.1 (69.6)
DeKalb	XL-18	126 (7910)	131	121	26.8	54.4 (70.0)
DeKalb	XL-25	118 (7410)	120	115	26.3	55.6 (71.6)
DeKalb	XL-321	122 (7660)	114	130	28.6	52.2 (67.2)
Fontanelle	350	116 (7280)	119	112	26.1	54.8 (70.5)
Fontanelle	400	124 (7780)	121	126	28.0	53.1 (68.3)
Funk	G-4224	118 (7410)	108	127	26.8	54.0 (69.5)
Keltgen	KS102	124 (7780)	124	123	29.0	51.5 (66.3)
Keltgen	KS106	118 (7410)	115	121	31.0	49.6 (63.8)
Keltgen	KS94	115 (7220)	105	124	26.6	52.9 (68.1)
Keltgen	KT103	123 (7720)	128	118	26.7	53.6 (69.0)
Lynks	LX4020	132 (8290)	142	121	24.9	55.0 (70.8)
Lynks	LX4120	118 (7410)	112	123	28.4	52.1 (67.1)
McCurdy	MSX 42	137 (8600)	126	148	29.3	51.8 (66.7)
McCurdy	MSX 44A	128 (8040)	126	130	28.1	52.6 (67.7)
McCurdy	MSX 46	125 (7850)	131	118	30.6	50.0 (64.4)
McCurdy	76-14	132 (8290)	129	135	26.2	51.3 (66.0)
NC +	2999	131 (8220)	135	126	28.8	50.0 (64.4)
NC +	33	139 (8730)	133	145	29.2	52.3 (67.3)
NC +	3990	111 (6970)	113	109	29.9	52.3 (67.3)
Northrup King	PX37	136 (8540)	140	131	29.4	51.0 (65.6)
Northrup King	PX45	121 (7600)	123	119	28.6	51.8 (66.7)
Northrup King	PX48	121 (7600)	110	132	30.3	52.1 (67.1)
Northrup King	PX49	133 (8350)	130	135	25.7	54.3 (69.9)
O's Gold	SX1020	121 (7600)	117	125	27.6	53.3 (68.6)
O's Gold	SX1101	143 (8980)	143	142	23.8	54.9 (70.7)
O's Gold	SX1107	135 (8480)	118	151	31.1	49.4 (63.6)
P-A-G	SX 189	131 (8220)	118	144	29.3	52.2 (67.2)
Pioneer	3713	137 (8600)	142	131	26.9	53.3 (68.6)
Pioneer	3720	129 (8100)	120	138	28.2	52.0 (66.9)
Pioneer	3780	133 (8350)	125	140	26.9	51.7 (66.5)
Pioneer	3901	139 (8730)	141	136	24.3	52.8 (68.0)
Prairie Valley	PV181	130 (8160)	131	129	23.8	54.1 (69.6)
Prairie Valley	PV198	124 (7780)	127	120	26.1	54.1 (69.6)
Prairie Valley	PV290	124 (7780)	120	127	30.6	51.0 (65.6)
Prairie Valley	PV430	142 (8910)	130	154	27.7	51.2 (65.9)
Tekseed	SPX 1A	121 (7600)	121	121	27.3	53.3 (68.6)
Tekseed	SPX 328	129 (8100)	122	136	30.1	51.8 (66.7)
Tekseed	SPX 8	114 (7160)	118	109	32.8	47.8 (61.5)
Tekseed	SPX 9	135 (8480)	129	140	28.5	53.5 (68.9)
Trojan	T-1008	110 (6910)	107	113	26.5	54.2 (69.8)
Trojan	T-1058	128 (8040)	115	141	31.3	50.4 (64.9)
Trojan	TXS 102	111 (6970)	115	107	30.2	51.3 (66.0)
Trojan	TXS 94	116 (7280)	113	119	27.8	53.1 (68.3)
Average all entries		125.0 (7848)	122.6	126.9	28.0	52.4 (67.4)
Dif. req. for sig.	5%	20.4 (1281)	N.S.	23.6	3.7	3.0 (3.9)
	25%	11.9 (747)	14.8	13.8	2.2	1.8 (2.3)

Table 8b. Zone IV Irrigated. 1975-1978.

Brand	Hybrid	Grain yield	Harvest moisture	Broken plants	Test weight
		bu/A (kg/ha)	%	%	lbs/bu (kg/hl)
		Two-year average			
-----	Nebr. 411	129 (8100)	24.7	5	50.9 (65.5)
ACCO	UC 3002	134 (8410)	24.1	0	52.8 (68.0)
Cargill	838	130 (8160)	21.6	6	54.6 (70.3)
Corn King	1122	141 (8850)	23.6	1	53.7 (69.1)
Fontanelle	400	144 (9040)	23.0	0	54.2 (69.8)
Lynks	LX4120	132 (8290)	22.9	0	53.5 (68.9)
McCurdy	MSX 44A	142 (8910)	23.3	2	54.0 (69.5)
McCurdy	MSX 46	151 (9480)	23.9	3	52.8 (68.0)
NC +	33	155 (9730)	23.6	3	53.6 (69.0)
Northrup King	PX48	143 (8980)	24.6	1	54.0 (69.5)
O's Gold	SX1020	135 (8480)	22.0	0	55.8 (71.8)
O's Gold	SX1101	153 (9610)	19.8	3	56.7 (73.0)
Pioneer	3780	148 (9290)	20.7	2	54.2 (69.8)
Prairie Valley	PV430	158 (9920)	22.2	6	53.8 (69.2)
Tekseed	SPX 1A	145 (9100)	22.9	3	54.0 (69.5)
Tekseed	SPX 9	145 (9100)	23.1	1	54.6 (70.3)
Trojan	TXS 102	138 (8660)	24.1	6	53.2 (68.5)
Average all entries		142.5 (8946)	22.9	2.5	53.9 (69.4)
Dif. req. for sig.	5%	16.4 (1030)	2.5	N.S.	1.9 (2.4)
	25%	9.2 (578)	1.4	2.9	1.1 (1.4)
		Three-year average			
-----	Nebr. 411	128 (8040)	26.6	3	49.1 (63.2)
Corn King	1122	144 (9040)	23.1	2	54.2 (69.8)
McCurdy	MSX 44A	139 (8730)	23.5	2	51.4 (66.2)
McCurdy	MSX 46	149 (9350)	23.3	4	52.8 (68.0)
NC +	33	148 (9290)	23.9	3	54.4 (70.0)
O's Gold	SX1101	150 (9420)	19.4	1	56.9 (73.2)
Pioneer	3780	145 (9100)	20.3	2	54.4 (70.0)
Trojan	TXS 102	140 (8790)	23.6	3	53.7 (69.1)
Average all entries		142.9 (8971)	23.0	2.5	53.4 (68.7)
Dif. req. for sig.	5%	N.S.	3.2	N.S.	3.9 (5.0)
	25%	7.8 (490)	1.8	N.S.	2.2 (2.8)
		Four-year average			
-----	Nebr. 411	119 (7470)	25.0	2	48.0 (61.8)
Corn King	1122	137 (8600)	22.2	1	53.7 (69.1)
McCurdy	MSX 44A	135 (8480)	22.4	1	51.8 (66.7)
McCurdy	MSX 46	141 (8850)	21.6	3	52.5 (67.6)
NC +	33	143 (8980)	22.9	2	53.7 (69.1)
Pioneer	3780	137 (8600)	18.6	1	53.9 (69.4)
Trojan	TXS 102	135 (8480)	22.3	2	53.4 (68.7)
Average all entries		135.3 (8494)	22.1	1.7	52.4 (67.4)
Dif. req. for sig.	5%	10.6 (665)	2.4	N.S.	3.2 (4.1)
	25%	6.0 (377)	1.4	N.S.	1.8 (2.3)

Table 9a. Ecofallow Early Hybrids. Summary. 1978.

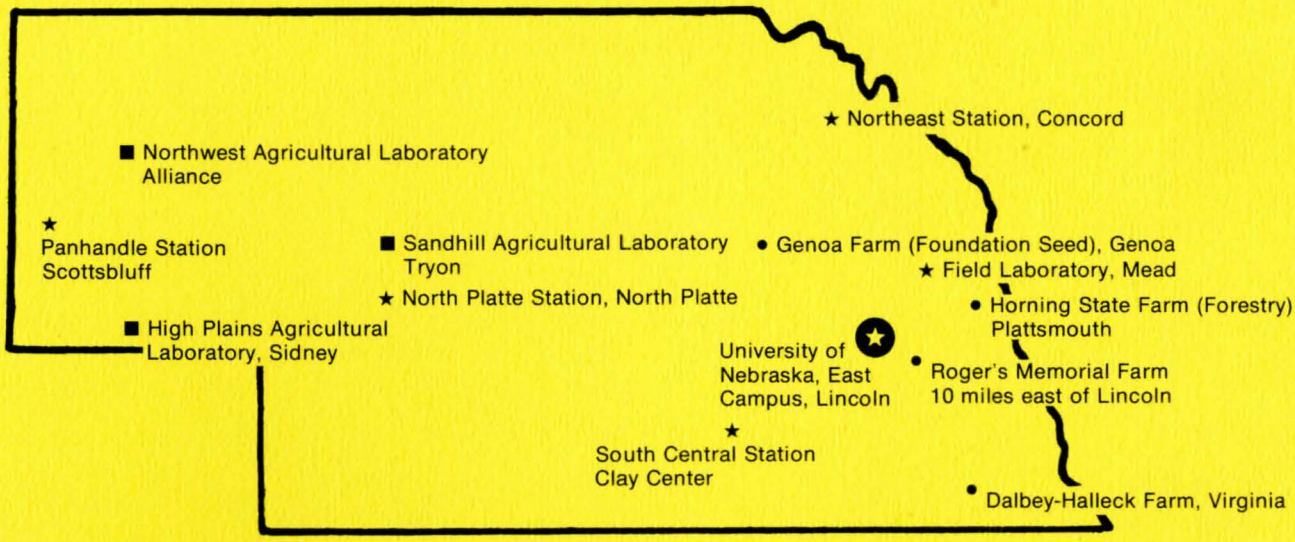
Brand	Hybrid	Grain yield				1978 average		
		Average 3 tests	Cheyenne County	Lincoln County	Dundy County	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	bu/A	bu/A	bu/A	%	%	%
-----	Nebr. 411	13 (816)	20	7	11	19.6	2	0
ACCO	UC 2951	25 (1570)	30	23	23	10.9	1	0
ACCO	UC 3002	24 (1510)	27	22	23	12.2	2	0
Asgrow	RX2345	19 (1190)	24	15	19	15.2	2	2
Bo-Jac	X14	21 (1320)	24	19	21	10.8	2	1
Bo-Jac	X28	17 (1070)	23	15	13	18.3	1	0
Cargill	832	25 (1570)	28	23	25	10.2	2	2
Cargill	838	24 (1510)	27	24	20	10.3	3	1
Cenex	2111	27 (1700)	24	33	23	10.3	4	4
Cenex	2157	18 (1130)	27	12	15	17.2	0	0
Cenex	2203	18 (1130)	24	13	16	19.7	1	0
Conti-Seeds	CG 5450	16 (1000)	20	4	23	26.8	0	2
Coop	2100	30 (1880)	31	31	27	10.1	1	2
Coop	2105	24 (1510)	30	24	17	11.4	0	2
Corn King	1122	24 (1510)	27	23	22	15.2	0	1
DeKalb	XL-12	22 (1380)	25	25	16	12.6	5	1
DeKalb	XL-18	23 (1440)	31	20	19	11.5	0	0
DeKalb	XL-25	27 (1700)	30	29	21	12.7	1	2
DeKalb	XL-321	25 (1570)	28	26	22	12.8	3	2
Fontanelle	350	25 (1570)	28	22	24	13.7	1	3
Fontanelle	400	24 (1510)	31	20	21	14.3	2	0
Funk	G-4224	26 (1630)	31	28	18	10.5	2	1
Keltgen	KS102	24 (1510)	29	20	23	14.3	2	0
Keltgen	KS106	18 (1130)	28	10	16	19.0	2	0
Keltgen	KS94	30 (1880)	33	33	25	10.1	2	2
Keltgen	KT103	23 (1440)	25	19	24	9.5	3	1
Lynks	LX4020	26 (1630)	28	27	22	10.1	2	1
Lynks	LX4120	23 (1440)	30	20	18	13.2	0	0
McCurdy	MSX 42	25 (1570)	30	20	25	14.4	1	2
McCurdy	MSX 44A	27 (1700)	32	20	29	13.2	2	2
McCurdy	MSX 46	17 (1070)	24	7	19	18.9	1	2
McCurdy	76-14	26 (1630)	30	22	27	10.3	0	1
NC +	2999	20 (1260)	28	13	20	19.8	1	0
NC +	33	27 (1700)	34	23	25	13.4	1	3
NC +	3990	20 (1260)	26	13	21	20.1	0	0
Northrup King	PX37	20 (1260)	20	23	16	17.4	0	1
Northrup King	PX45	19 (1190)	27	16	15	14.9	0	1
Northrup King	PX48	26 (1630)	32	18	27	14.5	0	0
Northrup King	PX49	19 (1190)	28	13	15	16.7	0	1
O's Gold	SX1020	28 (1760)	28	31	25	11.6	1	1
O's Gold	SX1101	17 (1070)	23	14	13	14.0	0	0
O's Gold	SX1107	16 (1000)	26	9	12	18.9	0	2
P-A-G	SX 189	24 (1510)	27	22	23	13.3	0	2
Pioneer	3713	25 (1570)	27	21	26	11.5	0	1
Pioneer	3720	30 (1880)	39	23	28	11.1	2	2
Pioneer	3780	22 (1380)	21	24	21	11.6	2	1
Pioneer	3901	34 (2130)	39	31	33	8.6	1	2
Prairie Valley	PV181	32 (2010)	32	39	25	8.5	1	1
Prairie Valley	PV198	27 (1690)	24	30	26	9.8	0	3
Prairie Valley	PV290	23 (1440)	29	18	23	14.9	1	1
Prairie Valley	PV430	20 (1260)	30	17	13	15.4	1	2
Tekseed	SPX 1A	27 (1700)	33	23	24	13.9	1	1
Tekseed	SPX 328	14 (880)	17	8	17	24.6	4	2
Tekseed	SPX 8	12 (750)	14	12	11	25.8	1	1
Tekseed	SPX 9	25 (1570)	33	18	25	14.3	1	1
Trojan	T-1008	18 (1130)	24	14	17	11.3	1	2
Trojan	T-1058	26 (1630)	30	23	24	14.2	0	1
Trojan	TXS 102	26 (1630)	35	18	24	13.7	0	1
Trojan	TXS 94	31 (1950)	34	33	25	9.7	4	1
Average all entries		23.1 (1450)	27.8	20.4	21.0	14.1	1.2	1.2
Dif. req. for sig.	5%	7.1 (446)	8.4	9.7	8.0	4.7	N.S.	N.S.
	25%	4.2 (264)	4.9	5.7	4.7	2.8	N.S.	N.S.

Table 9b. Southwest Ecofallow. Early Hybrids. 1977-1978.

Brand	Hybrid	Grain yield	Harvest moisture	Broken plants	Dropped ears
		bu/A (kg/ha)	%	%	%
		Two-year average			
-----	Nebr. 411	43 (2700)	24.3	1	0
ACCO	UC 3002	55 (3450)	16.8	2	2
Cargill	838	56 (3520)	13.2	1	1
Corn King	1122	60 (3770)	20.2	0	1
Fontanelle	400	59 (3700)	17.1	1	1
Lynks	LX4120	59 (3700)	15.9	1	0
McCurdy	MSX 44A	60 (3770)	15.6	2	2
McCurdy	MSX 46	51 (3200)	20.3	1	2
NC +	33	58 (3640)	15.9	1	2
Northrup King	PX48	57 (3780)	17.6	2	0
O's Gold	SX1020	48 (3010)	15.4	4	1
O's Gold	SX1101	55 (3450)	16.7	1	1
Pioneer	3780	55 (3450)	15.2	2	1
Prairie Valley	PV430	55 (3450)	17.3	1	3
Tekseed	SPX 1A	59 (3700)	17.3	0	1
Tekseed	SPX 9	61 (3830)	17.3	3	2
Trojan	TXS 102	62 (3890)	16.5	0	1
Average all entries		56.1 (3522)	17.2	1.4	1.2
Dif. req. for sig.	5%	N.S.	2.9	N.S.	N.S.
	25%	6.3 (396)	1.6	N.S.	0.9

Location of tests (counties):
1977 - Cheyenne
1978 - Lincoln, Dundy, Cheyenne

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.

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