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NEBRASKA CORN HYBRID TESTS 1990

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University of Nebraska–Lincoln
Institute of Agriculture and Natural Resources
Agricultural Research Division
Cooperative Extension

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EXTENSION CIRCULAR 90-105

NEBRASKA CORN HYBRID TESTS

JANUARY 1991

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METRIC EQUIVALENTS

1 centimeter = 0.394 inches	cm = inches x 2.54
1 hectare = 2.471 acres	ha = acres x 0.405
1 kilogram = 2.205 pounds	kg = pounds x 0.454
1 hectoliter = 2.838 bushels	hl = bushels x 0.352

Kilogram/hectoliter = lb/bu x 1.287
Kilograms/hectare = bu/A x 62.78 (56# bu)

EXTENSION CIRCULAR 90-105

CONTENTS

Introduction 5
Location of tests 6
Cooperators 7
Average performance 1990 8
Performance over years 9
Entrants 10
Discussion of results 11
Discussion of cultural practices 13

Performance data

Southeast Nonirrigated
1990 Two tests 16
1986-1990 18
East Central
1990 Two tests 20
1986-1990 22
South Central Irrigated
1990 Two test 24
1986-1990 26
Northeast Nonirrigated
1990 Dixon County 28
1986-1990 30
Northeast Irrigated
1990 Dixon County 32
1986-1990 34
Southwest Irrigated
1990 Two Tests 36
1989 - 1990 38
Southwest Ecofallow
1990 Two tests 39
West Central Ecofallow
1990 Three Tests 40
1986 - 1990 41
West Central Irrigated
1990 Two tests 42
1986-1990 43
Central Irrigated
1990 Two tests 44
North Central Irrigated
1990 Brown County 45
1989 - 1990 46
Southwest Central Irrigated
1990 Keith County 47
West Irrigated
1990 Two tests 48
1986-1990 49
Early Ecofallow
1990 Lincoln County. 50
1986-1990 50
White Corn Test
1990 Clay County 51
1988-1990 52
Hailed Corn Study
1990 Lincoln County 53

NEBRASKA CORN HYBRID TESTS
1990

The 1990 season was considerably better than the past two years for corn production but yields were less than expected on irrigated land due to extreme heat during grain fill and damage from insects, especially corn borers. Harvest was early because of a dry autumn.

Recent average yields were as follows (Bu/A):

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
State	115.0	110.0	97.0	115.0	126.0	133.0	130.0	124.0	120.0	130.0
Irrigated	129.0	122.0	116.0	133.0	140.0	144.0	147.0	146.0	142.0	148.0
Nonirrigated	79.1	83.1	58.4	77.4	97.7	100.4	91.5	73.4	67.6	89.6

Total acreage for harvest was 7,300,000 of which 5,050,000 was irrigated. Nonirrigated acreage was 2,250,000.

Corn planting proceeded ahead of normal early in the season but cool weather slowed the progress down later in the season. On May 6, 60% of the Nebraska crop had been planted. Average for this date is 47%. Cutworms caused concern for early planted corn in the Northeast. Emergence was slower than average.

Cool weather in June and July delayed the crop's progress. By July 22, 35% of the corn had silked compared to an average of 67%. Corn borers were causing concern over the eastern half of the state.

Corn matured ahead of normal primarily due to the excess heat at the end of August. Harvest generally was ahead of normal with 95% mature and 15% harvested on Oct. 1 compared to a normal of 88% mature and 12% harvested.

Twenty-six corn performance tests were planted in 1990. Test locations are shown on the map (Page 4), and cooperators and dates of planting and harvest are included in Table A. The plot in Cheyenne County was the only one not harvested although other plots had considerable hail damage.

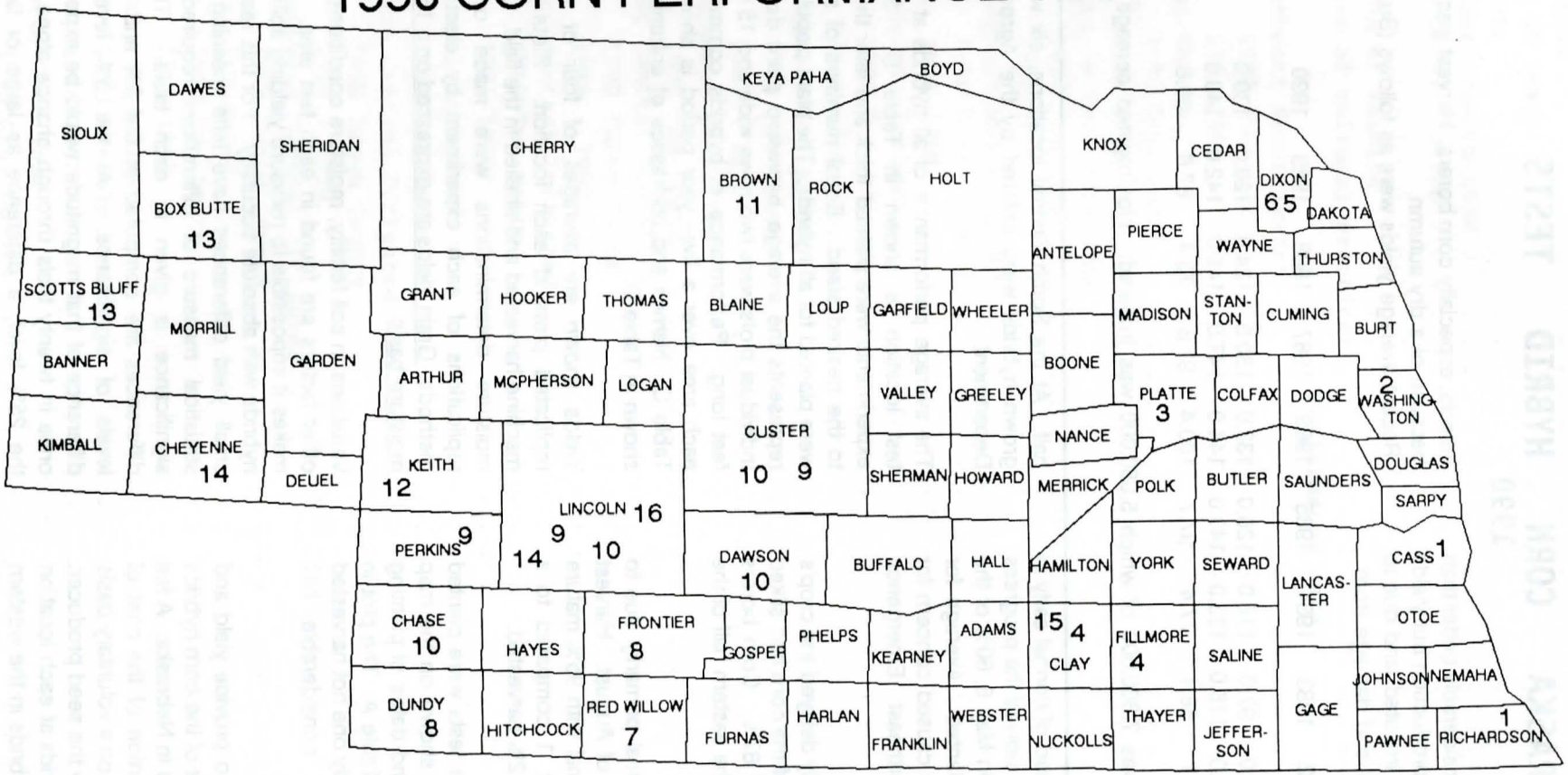
These trials are conducted to provide yield and other information about some of the corn hybrids which may be offered for sale in Nebraska. A fee was charged to cover a portion of the cost of establishing tests. Entry was on a voluntary basis and hybrids were selected by the seed producer. Each was limited to four hybrids at each location in the eastern half and six hybrids in the western half. At the South Central locations, six widely grown hybrids were entered by the Agronomy Department.

The average performance of all hybrids at each test location is shown in Table B. Some experiments were planted thick and later thinned to the desired stand. Equal numbers of seeds were planted for all hybrids. The plant population represents the average harvested plant density. Individual plots were two rows wide and 15 to 35 feet long. Performance of hybrids common to each area over a five- year period is shown in Table C. Names and addresses of entrants are shown in Table D.

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

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

NEBRASKA CORN TEST LOCATIONS
1990 CORN PERFORMANCE TESTS



1 Southeast Nonirrigated

2 East Central Nonirrigated

3 East Central Irrigated

4 Southeast Irrigated

5 Northeast Nonirrigated

6 Northeast Irrigated

7 Southwest Irrigated

8 Southwest Ecofallow

9 West Central Ecofallow

10 West Central Irrigated

11 North Central Irrigated

12 Keith Co Irrigated

13 West Irrigated

14 Early Ecofallow

15 White Corn

16 Hail Study

Table A. Locations, cooperators, soil types and planting and harvest dates. 1990.

Location	Cooperator	Soil Type	Planted	Harvested
Southeast Nonirrigated				
Richardson	Fred Brewer, Falls city	Kennebec silty clay loam	Apr.27,28	Sep.11-13
Cass	James Engelkemeier, Louisville	Sharpsburg silty clay loam	May 7-8	Oct. 2
East Central Nonirrigated				
Washington	Everett Holstein, Blair	Judson	Apr. 30	Sep.26-28
East Central Irrigated				
Platte	Tim Mueller, Columbus	Waukesha silty loam	May 3	Oct. 18
South Central Irrigated				
Clay	South Central Res. & Ext. Center	Hastings silt loam	Apr. 23	Sep. 27
Fillmore	Dan Hendrickson, Shickley	Crete silt loam	May 2	Oct. 22
South Central White Corn				
Clay	South Central Res. & Ext. Center	Hastings silt loam	Apr. 23	Sep. 26
Northeast				
Dixon Dryland	Kenneth Tuttle, Dixon	Moody silty clay loam	Apr. 30	Oct. 16-17
Dixon Irrigated	Boyd Ebberson, Belden	Moody silty clay loam	May 3	Oct. 19-20
West Central Irrigated				
Lincoln	West Central Res. & Ext. Center	Cozad silt loam	Apr. 25	Oct. 29-30
Chase	Bob Ahrens, Champion	Alliamce silt loam	Apr. 23	Oct. 18
Central Irrigated				
Custer	Don Fellows, Sargent	Cozad silt loam	Apr. 27	Oct. 19
Dawson	Graig Worrel, Cozad	Cozad silt loam	Apr. 24	Oct. 22
South West Central Irrigated				
Keith (hailed)	John Hardessen, Brule	Tripp loam	May 4,7	Oct. 24
West Central Ecofallow				
Lincoln	West Central Res. & Ext. Center	Hall Silt Loam	May 14	Nov. 13-14
Custer	Charles Foran, Arnold	Hord silt clay loam	May 24	Oct. 22
Perkins	Keith Olsen, Grant	Rose bud loam	May 15	Oct. 6
North Central Irrigated				
Brown	Steve Bejot, Ainsworth	Holdrege loam	May 5	Oct.16
Southwest Irrigated				
Furnas (hailed)	Todd Watson, Edison	McCook silt loam	Apr. 26	Oct. 13
Red Willow	Claude Cappel, McCook	Bridgeport silt loam	Apr. 25	Oct. 20
Southwest Ecofallow				
Dundy	Richard Keiser,	Keith silt loam	May 14	Oct. 10
Frontier	Jerry Peterson, Cambridge	Holdrege silt loam	May 11	Oct. 12
West Irrigated				
Scotts Bluff	Panhandle Res. & Ext. Center	Tripp very fine sandy loam	May 14	Oct. 19
Box Butte	Jim Irwin, Alliance	Janise loam	May 16	Oct. 31
Early Ecofallow				
Lincoln	West Central Res. & Ext. Center	Hall silt loam	May 14	Nov. 13-14
Cheyenne	High Plains Agricultural Lab	Keith silt loam	Drought destroyed crop	

Table B. Average performance of hybrids at each test location. 1990.

Location	Row Spacing inches	Plant Spacing inches	Plants per acre	Yield C.V. %	Grain 1 yield bu/a	Harvest moisture %	Broken plants %	Dropped ears %	Yield 2 moisture correlation
Southeast Nonirrigated									
Richardson	30	11.7	17462	10.6	153	19.2	0.9	0.3	0.2
Cass	30	11.4	17919	10.5	154	18.0	1.7	0.3	.24*
East Central Nonirrigated									
Washington	30	12.5	16379	14.0	127	19.8	1.0	0.5	0.1
East Central Irrigated									
Platte	30	9.2	22069	11.0	173	16.2	3.2	1.0	0.1
South Central Irrigated									
Clay	30	8.1	25279	7.0	174	23.6	3.1	0.8	.26**
Fillmore	30	8.1	25286	10.2	143	14.1	3.1	2.5	.58**
South Central White Corn									
Clay	30	7.8	26301	9.7	158	25.9	2.0	1.4	---
Northeast Nonirrigated									
Dixon	30	12.8	16000	21.6	80	13.9	0.5	0.8	0.0
Northeast Irrigated									
Dixon	30	8.5	24000	15.1	165	19.5	0.1	5.0	0.1
West Central Ecofallow									
Lincoln	30	15.6	13061	26.7	26	12.9	2.9	5.7	-.66**
Custer	30	16.5	12342	11.2	97	17.6	---	---	0.2
Perkins	30	18.7	10923	35.1	41	20.1	---	---	-.54**
North Central Irrigated									
Brown	30	6.2	32917	7.7	176	24.3	---	---	.57**
Southwest Irrigated									
Furnas (Hailed)	30	7.1	28589	12.3	71	20.9	---	---	0.1
Red Willow	30	6.6	31051	6.9	214	18.7	---	---	.61**
Southwest Ecofallow									
Dundy	30	18.6	10991	33.3	44	18.5	---	---	-0.2
Frontier	30	16.6	12315	20.6	82	15.8	---	---	.57**
West Central Irrigated									
Lincoln	30	8.7	23412	10.8	170	13.5	3.2	2.4	.60**
Chase	30	7.5	27117	11.1	159	18.9	1.2	0.5	0.0
Central Irrigated									
Custer	30	7.2	28197	8.0	165	19.9	---	---	0.3
Dawson	30	6.8	30157	4.5	220	21.5	3.7	0.4	.55**
Southwest Central Irrigated									
Keith (Hailed)	30	8.6	23842	10.2	148	20.5	---	---	0.4
West Irrigated									
Scotts Bluff	30	6.8	30164	18.2	186	17.5	0.0	---	-.58**
Box Butte	30	6.8	30000	14.8	106	20.2	---	---	-.64**
Early Ecofallow									
Lincoln	30	15.4	13234	19.5	31	9.2	0.5	10.1	-0.6
Cheyenne		Drought destroyed crop							

1 Machine harvest.

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

Table C. Corn performance. Average for entries over years within areas. Five years. 1986 – 1990.

Test	Year	Yield bu/a	Moisture %	Broken %	Dropped %	Bushel weight
Southeast	1986	150.1	20.0	3.5	0.6	57.6
(8 hybrids)	1987	170.6	16.0	4.5	0.4	59.4
	1988	103.9	14.6	4.9	0.8	57.5
	1989	98.4	17.7	24.6	0.4	56.9
	1990	152.6	18.7	1.5	0.3	57.1
East Central	1986	121.4	17.6	3.6	1.3	58.7
(11 hybrids)	1987	127.6	16.2	1.5	0.5	59.5
	1988	100.8	16.6	2.0	0.2	58.8
	1989	66.9	23.0	3.1	1.1	54.7
	1990	148.3	18.3	3.1	1.1	57.5
South Central irr.	1986	195.2	19.8	9.8	2.8	----
(16 hybrids)	1987	201.2	20.2	3.3	0.3	----
	1988	193.5	15.7	---	---	----
	1989	176.5	17.3	---	---	----
	1990	158.1	18.6	3.9	2.1	----
Northeast nonirr.	1986	148.3	20.5	1.1	0.6	----
(7 hybrids)	1987	139.9	18.0	0.4	0.9	----
	1988	86.6	17.3	2.0	0.0	----
	1989	71.0	23.5	4.0	0.3	----
	1990	77.0	14.6	0.7	1.1	----
Northeast irr.	1986	141.1	19.4	1.0	0.4	----
(7 hybrids)	1987	185.0	18.1	1.3	0.1	----
	1988	208.0	18.0	1.3	0.3	----
	1989	176.1	17.3	3.1	0.3	----
	1990	166.4	20.5	0.0	5.7	----
West Central ecofallow	1986	81.5	27.9	9.5	0.0	----
(2 hybrids)	1987	58.0	12.5	0.0	0.0	----
	1988	118.5	16.6	0.5	0.0	----
	1989	67.5	14.7	12.0	1.0	----
	1990	51.7	18.1	1.5	4.0	----
West Central irr.	1986	192.3	16.4	10.3	2.7	----
(3 hybrids)	1987	212.0	12.9	4.3	0.3	----
	1988	185.7	20.7	4.7	0.0	----
	1989	154.3	13.5	6.3	0.0	54.4
	1990	164.2	16.4	10.3	2.3	54.9
West irr.	1986	177.0	23.3	---	4.0	52.1
(1 hybrid)	1987	145.0	19.5	2.0	0.0	56.1
	1988	172.5	23.5	---	---	57.6
	1989	127.0	13.2	5.0	---	55.6
	1990	152.0	17.8	0.0	---	56.2

Table D. Entrants. Nebraska Corn Performance Tests. 1990.

Brand	Entrant	Address
-----	Agricultural Research Div., UNL	Lincoln, NE 68583
Asgrow	Asgrow Seed Company	Kalamazoo, MI 49001
Betagold	Betagold	Shokopee, MN 55379
Bo-Jac Hybrid Corn Co.	Bo-Jac Hybrid Corn Co.	Mt. Pulaski, IL 62548
Cargill	Cargill Hybrid Seeds	Minneapolis, MN 55440
Cheesman	Cheeseman Seed Co.	Lincoln, IL 62656
Crow's Hybrids	Crow's Hybrid Corn Co.	Milford, IL 60953
Curry	Curry Seed Company	Elk Point, SD 57025
Custom Farm Seed	Custom Farm Seed	Momence, IL 60954
DeKalb Plant Genetics	DeKalb Plant Genetics	DeKalb, IL 60115
Dyna Gro	United Agri Products	Lubbock, TX 79423
Excell	Excell Hybrids	Aurora, NE 68818
Federal Hybrids	Federal Hybrids	Marion, IA
Fontanelle Hybrids	Fontanelle Hybrids	Nickerson, NE 68044
Frye Hybrids	Frye Hybrids, Inc.	Lincoln, NE 68514
Funks G	Ciba-Giegy Seed Division	Greensboro, NC 27419
Golden Acres	Taylor-Evans Seed Co.	Tulia, TX 79088
Golden Harvest	The J.C. Robinson Seed Co.	Waterloo, NE 68069
Garrison SG	Garrison Seed Co.	Hereford, TX 79045
Germain's	Germain's Seed Inc.	Fresno, CA 93777
Hawkeye	Hawkeye Hybrids, Inc.	Pella, IA 50219
Hoegemeyer	Hoegmeyer Hybrids	Hooper, NE 68031
Horizon	Horizon Seeds, Inc.	Lincoln, NE 68501
HyPerformer	HyPerformer Seed Company	Memphis, TN 38137
Jacobsen	Jacobsen Hybrid Corn Co, Inc.	Lake View, IA 51450
Jacques	Jacques Seed Company	Prescott, WI 54021
Kaltenberg	Kaltenberg Seed Farms, Inc.	Waunakee, WI 53597
Kruger	Kruger Seed Company	Dike, IA 50624
Lewis	Lewis Hybrids, Inc.	Ursa, IL 62376
McCurdy	McCurdy Seed Company	Fremont, IA 52561
NC+	NC+ Hybrids	Lincoln, NE 68504
Noble Bear	Noble Bear, Inc.	Gibson City, IL 60936
Northrup King	Northrup King	Minneapolis, MN 55440
Ohlde	Ohlde Seed Farms	Palmer, KS 66962
ORO Hybrids	ORO Hybrids	Lubbock, TX 79424
Ottilie	Ottilie Seed	Marshaltown, IA 50158
Pfister	Pfister Hybrid Corn Co.	El Paso, IL 61738
Pioneer	Pioneer HiBred International, Inc.	Lincoln, NE 68505
Prairie Stream Hybrids	Prairie Stream Farms, Inc.	Frankfort, IN 46041
Renze Hybrids	Renze Hybrids, Inc.	Carroll, IA 51401
S-Brand	Schechinger Seed Co.	Harlan, IA 51537
Sigco	Sigco Research Inc.	Breckenridge, MN 56520
Super Crost	Edward J. Funk & Sons, Inc.	Kentland, IN 47951
Superior	Superior Hybrids Co., Inc.	North Bend, NE 68649
Terra	Terra International, Inc.	Champaign, IL 61820
Tri Valley	Tri Valley Seed	Council Bluffs, IA 51501
Triumph	Triumph Seed Co., Inc.	Ralls, TX 79357
Vineyard	Vineyard Seed Company, Inc.	Homer, IL 61849
Wilson	Wilson Hybrids, Inc.	Harlan, IA 51537

would be expected by chance alone in one of four trials.

In these experiments, many hybrids had essentially the same grain production. Performance of hybrids varies with seasonal conditions, and great care should be used in interpreting the results of a single year's tests.

Earlier-maturing hybrids are favored in some seasons while later ones perform best in others. Some hybrids are able to withstand unfavorable weather better than others which may do well under optimum growing conditions. Performance over a period of years should give a much better measure of adaptation. Harvest moisture, stalk strength, and resistance to insects and disease also are factors which must be considered in selecting hybrids.

RESULTS

Data tables for each zone are shown in sections. The 1990 zone performance is listed and followed by two-, three,- four- and five-year averages where available.

Relative hybrid performance often varies with locations within zones. Two experiments were conducted in each of the following zones: Southeast, East Central, South Central, West Central, Southwest, Central, and West Irrigated. In zone analyses, the hybrid x location mean square was used to calculate the differences required for significance shown in the tables.

The correlation or r value for the relationship between grain moisture and yield is shown in Table B. Higher grain moisture was significantly correlated with higher grain yield at eight locations. Higher grain moisture was significantly correlated with lower grain yield at four locations. There was little relationship between moisture and grain yield at 12 locations. Even though these relationships were significant, they do not indicate that maturity was the major factor in yield differences. Moisture at harvest is an important consideration in hybrid selection as it does affect time of harvest and drying costs.

Corn growing conditions in Nebraska vary greatly with years. In 1985, June and July were cooler than normal. Rainfall generally was adequate except in western Nebraska. The 1986 and 1987 seasons were very favorable for corn production. The 1988 and 1989 seasons were extremely dry which adversely affected performance of dryland plots. The 1990 season was relatively good for both dryland and irrigated corn, but problems with heat, drought, and insects appeared at various locations during the year. Period-of-years averages provide a measure of performance over a wide range of growing conditions. The effect of season on performance in each zone is shown in Table C.

Southeast Nonirrigated

Two trials were harvested with 88 hybrids (Table 1A). The Richardson County trial was planted early, made excellent early progress and ended with good yields. The Cass County trial was on upland. It had good moisture at planting and received adequate rainfall throughout the summer. There was good agreement between the two locations in 1990. Higher grain moisture was correlated with higher grain yield in Cass County. Period-of-years data are shown in Table 1B.

East Central

Two trials were planted in this area with 90 hybrids each (Table 2A). The Washington County plot was planted into dry soil and had some germination problems. Although the rains weren't plentiful, they were timely and adequate for a reasonable yield. The Platte County plot was irrigated with a center pivot and yields were quite good. Some standing water early in the season caused one replication to have lower yields. Agreement between the irrigated and dryland plots was quite good. Period-of-years data are shown in Table 2B.

South Central Irrigated

Reasonable yields were obtained in the trial in this area which had 113 hybrids (Table 3A). Five widely grown hybrids were entered in this test in both the Clay and Fillmore County plots. There was good agreement between the two locations. There is a strong relationships between moisture

and yield with increased yield from increased moisture at both locations. Period-of-years data for South Central tests are shown in Tables 3B.

Northeast

Ninety five hybrids were tested without and with irrigation (Tables 4A and 5A). The Dixon County nonirrigated test was on a notill field. The seedbed was good and excellent weed control made it unnecessary to cultivate. The dryland corn was under drought stress at times during the season. The irrigated test in Dixon County was planted into ideal seedbed conditions and was adequately watered all summer. Average 2-, 3-, 4- and 5-year yields are shown in tables 4B, and 5B for dryland and irrigated, respectively.

Southwest Irrigated

Fifty four hybrids were tested at two irrigated sites, one in Furnas County and one in Red Willow County. The yields at the Red Willow location were extremely high and the conditions there were excellent. The Furnas County plot was severely damaged by hail so the data from the two locations are not combined. There was good correlation of the grain moisture with yield at the Red Willow location. This is the second year for this location so 1990 data are shown in Table 6A for Red Willow, 6B for Furnas Counties, and Table 6C for the 1989 - 1990 data.

Southwest Ecofallow

Twenty five hybrids were tested in Dundy and Frontier Counties planted into wheat stubble from the 1989 harvest. Yields were relatively low at both locations due to lack of rainfall. There was good agreement between the two locations. Frontier County showed a good correlation between grain moisture and yield. This is the second year of this location, but hail destroyed the 1989 crop. The data from these two locations are shown in Table 7A.

West Central Ecofallow

This trial was seeded into stubble from a 1989 wheat crop (Table 8A). These trials were planted in Custer, Perkins, and Lincoln Counties and included 32 hybrids. Lincoln County suffered greatly from drought while Custer County had excellent yields and Perkins intermediate yields. Agreement between the three locations was worse that desired but adequate to show some hybrid differences. Period-of-years data are shown in Table 8B.

West Central Irrigated

Yield and other data from 52 hybrids tested in Lincoln and Chase Counties are shown in Table 9A. Seasonal growing conditions generally were good. All hybrids matured before frost. Responses at the two locations were similar. Lincoln County showed good correlation between moisture and yield. Period-of-years data are shown in Tables 9B.

Central Irrigated

Fifty nine hybrids were tested in Custer and Dawson County using irrigated conditions. Yields at the Dawson location were considerably higher than the Custer County location. The agreement between the two locations was poor so there was no significant difference between hybrids when both locations were averaged together. Only Dawson County showed a highly significant correlation between grain moisture and yield. The data from these plots are shown in Table 10A. No period-of-years data are available for these locations.

North Central Irrigated

Fifty nine hybrids were entered in an irrigated test in Brown County. Brown County is located in the northern part of the Sandhills. The yields were as high as most other irrigated plots and this was a good test of adaptation for this area. This is the second year of testing at this location so 1990 data are presented in Table 11A and the 1989 - 1990 data are presented in Table 11B. At this location, there was a strong correlation between grain moisture and yield.

Southwest Central Irrigated

Twenty hybrids were tested in Keith County in 1990. This was the first year for this location. Hail fell on this plot and influenced the performance of the hybrids even though the yields were still quite good. The 1990 results in Keith County are shown in Table 12A.

West Irrigated

West irrigated trials were in Scotts Bluff and Box Butte counties with 35 hybrids at each location (Table 13A). Yields were good in Scotts Bluff County but quite poor in Box Butte County due to rain delayed planting, cool summer, and early frost. Agreement between the two locations was poor and caused the differences between hybrids to be non-significant. There was a strong correlation between grain moisture and yield with the drier grain having the best yields at both locations. Period-of-years yield and other data are shown in Tables 13B.

Early Ecofallow

These trials are designed to test some of the earlier hybrids in an ecofallow system. The normal rotation would be wheat-corn- fallow with corn planted into standing wheat stubble. Results of two 1990 trials containing 11 hybrids each are shown in Table 14A. Growing season rainfall was below normal at both locations. Moderate summer temperatures resulted in below average yields at the Lincoln County and the Cheyenne County location was without any grain. Lincoln County showed significant yield differences between the 11 hybrids. One hybrid was all that was included in 3-year and 4-year averages(Table 14B).

South Central White Corn Test

A test of 39 white corn hybrids were tested in Clay County in 1990. They were compared with three yellow check hybrids. Yields of white hybrids are reported on a 54 pound per bushel basis in Table 15A. Some of the yields were quite comparable to yellow corn hybrids. The data from period-of-years 1988 - 1990 are found in Table 15B. White corn is used as human food for specialty products and command a premium for good quality. This test was conducted in cooperation with Dr. L.L. Darrah at the University of Missouri. The Nebraska Corn Development, Utilization, and Marketing Board also contributed financially to the project.

Hailed Corn Study

This study was initiated in Lincoln County to study the effects of late replanting of corn into corn stubble that had been clipped. Four hybrids were entered in this test. The influence of drought and late planting gave very low yields. The data from the 1990 hailed corn study are shown in Table 16A.

Cultural Practices

Richardson: After soybeans. 160 lbs. N preplant. 2 lbs. Boron. 2.2 pts. Dual. 2 pts. Marksman at 3 leaf stage with no cultivation. Thinned corn to 17 plants per row when possible.Yields were very good.

Cass: Previous crop was corn. 140 lbs. Anhydrous ammonia. Herbicides: Atrazine 1 lb., Bladex 2 lb., Lasso 1 qt., 2-4D 1 pt. Insectide: 3.5 oz. Pounce. Plants thinned to 17 per row. No cultivation was needed for weed control. Yields were very good.

Washington: After corn. Anhydrous ammonia 80 lbs. N, 7 lbs. N as starter, 21 lbs. phosphous. Herbicide: Sutan + Atrazine at 7.5 pts., 2,4-D at 3-4 inch width of 4 lbs. mixture 0.5 pt./acre. Insecticide: Thimet 7 lbs./acre. This plot was cultivated twice. Hand weeding to remove volunteer corn, milkweed, foxtail and shattercane was performed as needed. Yields were good.

Platte: Previous crop was soybeans. 140 lbs. N, 69 Lbs. P, 30 lbs. Potassium, 2 lbs. Zinc, 6 lbs. Sulfur. Herbicide: Bicep 6L 1 qt., 1 pt. Lasso, banding in 15 inch row. Insecticide: Lorsban 7 lbs./acre. Irrigated 4 times at 1.25 inches. Heavy rains in June of 10-13 inches flooded first replication which was removed from test. Cultivated twice. Some corn borer but control was good.

Clay: Previous crop was soybeans. Plot was planted in 2-30" rows. Plot was slot planted in soybean stubble. 150 lbs. N preplant. Bullet 3 qt./acre. No insecticide.

Fillmore: Previous crop was soybeans. Plot was Planted in 4-30" rows. Field was disked twice and blank planted with a white 5700 with furrow openers. There was a severe winstorm June 25 which snapped a lot of plants. There was a little hail with the wind. Some varieties had less than half a stand. 180 lbs. N preplant. 5 gal of 10-34-0 + Zn. Atrazine 4L 2.75 qt./acre.

Dixon Dryland: No-till planted into soybean residue. Lasso 2.25 + Blade 2.25 + 2,4-D 0.5 lb./a + 28% N at 1 gal/acre. 10-34-0 lb/a starter applied with planter. 45 lb/a dry nitrogen broadcast after corn emergence. Cultivation none. Encountered periods of drought stress. First brood corn borer were high so Furadan was aerially applied. During one high intensity rain storm, water ran across the first replication. Plant debris had to be removed by hand from some plots.

Dixon Irrigated: After soybeans. 18-46-0 + 2 lb/a zinc applied as a starter with the planter. 160 lb/a nitrogen fall applied as anhydrous. Cultivation none. Extrazine II at 3.5 lb/acre surface blended with field cultivator. Corn borer damage was evident accounting for most of stalk breakage.

Red Willow Irrigated: 1989 corn. 10-34-0 7.5 gallon at planting. Sidedressed 100 lbs./a as anhydrous ammonia. Insecticide none. Dual (1 pt.) + Atrazine (1 pt.) at planting. Buctril-Banvel postemergence.

Furnas Irrigated: Previous crop corn. Preemergence 140 lbs. N (liquid with herbicide). Bicep 6L 1.8 qt. No insecticide. Hailed on July 25 and Aug 3. Insurance adjustment 25% on hail. Trouble with irrigation wells limited early irrigations.

Dundy Ecofallow: Previous crop wheat. Preplant 75 lbs. N with herbicide. Fall 1989 1 lb. atrazine + 54 oz. landmaster. Spring of 1990 1.8 lb. bladex + 1.0 lb. atrazine + 0.5 pt. of 6 lbs./gal. 2,4-D LV ester. Lorsban 15 gm. (8 oz./1000 ft. of row).

Frontier Ecofallow: 1989 wheat. 70 lbs. actual N applied in April with herbicide. After wheat harvest 1989 2.4 lb. atrazine. April 1990 2 pt. Dual + 0.4 lb. Atrazine + 0.8 lb. Bladex + 0.5 pt. of 6 lb. 2,4-D LV ester.

Lincoln Ecofallow: Previous crop wheat. Atrazine and paraquat on wheat stubble with Landmaster. 60 lbs. N was applied to corn. Insecticide none.

Custer Ecofallow: 1989 wheat. Preplant 100 lbs. N with preemergence herbicide. Fall 1989 2 pts. cyclone + 2 lbs. atrazine + .75 pt. of 6 lbs. 2,4-D LV ester. Lorsban 15 gm. (8 oz. /1000 ft. of row).

Perkins Ecofallow: Previous crop wheat. 47.8 lbs. N with herbicide preplant. Late August 1989 1.5 lbs. Atrazine + Cyclone. May 1, 1990 Bladex (1.2 lbs. /A) + Atrazine (0.3 lb./A) + Banvel (8 oz.) + 28% N (16 gal.). Lorsban 15 G at 8 oz./1000 ft. row.

Lincoln Irrigated: After sorghum. 180 lbs. N as anhydrous. Atrazine at 2 lbs. and Buctril at 1.5 pts. are the herbicides used. Yields were good. No insecticides. Slow germination of seed but had good stand. Late in maturing but exceptional warm conditions later in season helped yields. Strong wind caused execessive ear drop on plants. All dropped ears lost by mechanical harvestor. Very good yields.

Chase Irrigated: After corn. Total N used 203 lbs. Prepland 45 lbs. N with herbicide. At planting 13 lbs. N, 35 lbs. P, 6 lbs. S, 1.5 lbs. Zinc. Sidedressed 145 lbs. N. 1 qt. Bicep + .75 lbs. Bladex + 0.5 pt. Dual. Insecticide 7.3 lbs. Counter at cultivation. Irrigation applied: 24.30 inches. Rainfall April 25-30 .82 in., May 3.35", June 1.18", July 3.10", Aug. 1.38", Sept. .65"

Custer Irrigated: Previous crop soybean. 180 lbs. N as anhydrous. At planting 10 gal. 10-34-0. No insecticide. Lasso 12 to 14" band with planter. Very good yields.

Dawson Irrigated: 1989 corn. Preplant 135 lbs. N + 30 lbs. N premergence with herbicide. At planting 30 lbs. N, 25 lbs. P banded as starter. Lasso + Atrazine on April 26. Insecticides Furadan on June 20, Penncap M 3 pts./a on April 26. Very high yields.

Brown Irrigated: Previous crop corn. 24 N + 29 P + 5.5 Sulfur banded with planter. 18 N + 5 S applied with 2.4 Qt. of Bicep as preemergence. 150 lbs. anhydrous ammonia sidedressed.

Rootworm insecticide put on at cultivation. Early development was slowed by cool weather but warmer than normal Sept. helped catch up. Overall season was 1 to 2 days shorter than normal.

Keith Irrigated: 1989 corn. 115 lbs. residual, at planting 40 lbs. N, sidedressed 55 lbs. N. Preplant 1 qt. atrazine + 0.5 pt. bladex. Insecticide counter used at cultivation. Hail on June 1, complete defoliation of plants. Very low yields.

Scotts Bluff Irrigated: Previous crop dry edible beans. 140 lbs. anhydrous. 7 lbs. N, 23 lbs. P as starter. Lasso-Bladex. Ditch irrigated. Good growing conditions with some heat stress right before pollination. Very good yields.

Box Butte Irrigated: 1989 crop beets. 10 lbs. N, 34 lbs. + micros starter, 140 lbs. Anhydous, 30 lbs. N in sprinkler system. Lasso-Bladex banded. Killed by freeze 9-30.

Lincoln Early Ecofallow: Winter wheat 1989. Atrazine and paraquat on wheat stubble with preplamt Landmaster gave good weed control. 60 lbs. N was applied to the corn. Insecticide none. Dry and run out of moisture which produce poor yields. Strong wind caused excessive ear drop and were loss to mechanical harvestor. Very low yields were reported.

Cheyenne Early Ecofallow: Drought destroyed crop.

Clay: White corn Previous crop was soybeans. Plot was planted in 2 30"rows. Planted density was 46 seeds per 30 feet of row. Field was disked once and then field cultivated before planting. 150 lbs. N preplant. Bullet 3 qt/a. No insecticide was used. Very good yields.

Lincoln Hailed Study: Winter wheat 1989. Atrazine and paraquat on wheat stubble with prepland Landmaster. 60 lbs. N. Insecticide none. Planted corn and than took it out and irrigated ground on June 25. Planted when ground was dry enough to plant on June 28. All hybrids would have made very good silage but not for corn. all ears including dropped were hand harvested.

Table 1A. Southeast Nonirrigated Corn. Two Tests. Richardson & Cass Counties. 1990

		Yield			1990 Average			
Brand	Hybrid	Average bu/a	Richardson bu/a	Cass bu/a	Moisture %	Broken %	Dropped %	Bushel weight
ASGROW	RX908	176	170	181	18.3	3	1	56.2
HYPERFORMER	HS 9773	175	172	177	17.3	4	0	57.3
LEWIS	7288	173	174	172	20.0	1	1	57.1
FUNKS G	4673B	171	168	174	20.0	3	0	55.2
OHLDE	372	170	171	169	20.2	2	1	56.3
WILSON	1890	170	168	172	20.8	1	0	56.2
GOLDEN ACRES	T-E 7055	169	171	167	19.6	3	2	57.7
AGRIGENE	AG 7720	168	176	159	20.2	2	1	57.3
MCCURDY	7477	168	167	168	19.4	2	1	57.2
CHEESMAN	600	167	168	165	19.9	1	0	57.2
JACQUES	8210	165	168	162	20.0	2	1	57.6
TRIUMPH	1270	165	168	161	16.8	1	1	58.0
SUPERIOR	SP 6289	164	158	169	18.8	1	1	57.5
CROW'S	488	164	164	164	17.1	1	0	57.1
CARGILL	8127	164	170	158	18.0	1	0	58.8
ORO	190	163	168	158	19.8	1	0	57.7
SUPERIOR	SP 7290	163	166	160	19.5	2	1	57.6
HORIZON	9118	162	157	166	19.2	2	0	57.4
CARGILL	7993	162	169	154	18.2	0	1	58.7
HORIZON	8115	162	156	168	18.4	1	0	58.9
HAWKEYE	SX75	162	166	157	18.8	2	0	59.2
BO-JAC	602	161	162	159	18.8	1	1	57.8
GOLDEN ACRES	T-E 6988	161	158	164	18.8	1	0	56.8
TERRA	TR 1090	161	157	165	17.4	1	1	57.7
JACQUES	7910	160	159	161	19.4	1	1	57.4
GOLDEN ACRES	T-E 7052	160	150	170	19.0	1	0	55.8
HAWKEYE	SX61	160	158	161	18.8	3	0	57.6
FUNKS G	4543	159	167	151	19.4	1	0	57.9
DEKALB Plant Gen	DK671	159	167	151	18.2	0	1	54.6
-----	N9072	159	151	167	19.6	1	1	56.2
CARGILL	7877	159	156	161	19.3	1	1	55.9
HYPERFORMER	HS 9663	158	155	161	18.9	1	0	55.8
DYNA GRO	5671	158	157	159	19.9	1	1	55.7
SUPERIOR	SP 7291	158	163	153	19.1	1	1	56.8
HYPERFORMER	HS 59	158	165	151	18.7	1	0	58.1
DYNA GRO	5655	158	158	157	20.3	1	0	56.1
NORTHRUP KING	CO8625	158	158	158	18.4	1	1	58.4
FONTANELLE	5230	158	156	159	18.1	1	1	58.4
RENZE	6520	157	156	157	20.2	1	1	56.9
BO-JAC	601	156	160	152	18.8	1	1	57.4
PIONEER	3162	156	159	152	19.3	1	0	58.5
BO-JAC	X585	155	148	162	18.2	3	2	57.5
RENZE	6412	155	154	156	18.8	2	0	58.1
PIONEER	3189	155	148	161	18.5	0	0	58.7
MCCURDY	7372	155	148	161	18.8	1	1	58.1
KRUGER	K8112	155	165	145	18.4	2	1	58.7

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Table 1A. Southeast Nonirrigated Corn. Two Tests. Richardson & Cass Counties. 1990 PAGE 2.

		Yield			1990 Average			
Brand	Hybrid	Average bu/a	Richardson bu/a	Cass bu/a	Moisture %	Broken %	Dropped %	Bushel weight
CHEESMAN	510	155	151	159	16.9	3	1	58.0
PIONEER	3379	154	151	156	16.6	1	0	59.1
FONTANELLE	6235	154	164	144	18.9	0	0	58.2
RENZE	6338	154	144	163	16.5	1	0	58.3
NORTHRUP KING	N 7816	154	139	169	19.8	1	1	56.0
KRUGER	K9018	153	153	152	19.3	3	0	56.4
S BRAND	SS-63B	153	148	157	18.8	2	0	58.1
CROW'S	682	153	155	150	18.5	3	0	55.9
OHLDE	501A	153	153	153	18.5	1	0	57.2
S BRAND	CB-1180	153	147	159	19.4	1	0	57.6
TRI VALLEY	114	152	150	153	17.5	1	0	58.8
TRI VALLEY	116	152	149	155	18.8	1	1	58.5
CROW'S	697	151	160	142	17.7	2	1	59.1
PFISTER	3380	151	148	153	19.2	1	1	57.3
HYPERFORMER	HS X9592	150	149	150	19.0	0	1	58.3
TERRA	TR 1120	150	149	150	18.6	2	0	58.4
-----	N9069	150	160	139	18.6	2	1	55.1
CHEESMAN	520	150	154	146	17.2	0	0	56.3
CARGILL	8027	149	153	145	19.4	1	0	57.5
NC+	6260	149	134	163	18.5	1	1	58.1
CHEESMAN	580	148	141	154	19.3	2	0	56.8
CUSTOM FARM SEED	W7877	148	144	152	18.6	1	0	58.6
PIONEER	3362	146	144	148	16.3	2	0	58.1
ASGROW	RX746	146	140	152	17.9	2	0	58.8
CROW'S	482	146	134	157	17.0	2	0	56.9
SUPERIOR	SP 6022	145	140	149	18.6	2	0	58.1
GOLDEN ACRES	T-E 6951	145	133	156	19.0	2	1	57.3
GARRISON SG	SG-8515	145	144	146	18.7	1	1	58.2
WILSON	2100	145	149	141	19.3	2	0	57.7
RENZE	6341	144	157	131	16.7	2	0	57.8
KRUGER	K8116	144	149	138	19.2	1	0	58.2
ORO	120	143	145	141	18.4	2	0	58.3
-----	NEBR. 61	142	148	135	18.2	4	0	55.3
-----	N9071	135	139	131	16.7	2	0	58.8
ORO	EX803	135	135	135	16.1	0	0	59.6
TERRA	TR 1125	132	138	125	17.1	2	0	59.4
GARRISON SG	SG-8215	132	140	124	19.0	2	1	56.4
CUSTOM FARM SEED	EW06063	131	147	115	19.1	2	1	59.3
CUSTOM FARM SEED	EW06055	129	131	126	18.9	4	0	58.2
AVERAGE ALL ENTRIE		153	153	154	18.6	1.3	0.3	57.5
DIF. REQ. FOR SIG.	5%	21	23	23	1.3	2.5	NS	1.3
	25%	13	13	13	0.8	1.5	NS	0.8

Table 1B. Southeast nonirrigated corn. 1986 - 1990.

Brand	Hybrid	Grain yield bu/a	Grain moisture %	Broken plants %	Dropped ears %	Bushel weight lb/bu
2 YEAR AVERAGE						
FUNKS G	4673B	143	19.2	14	0	56.4
JACQUES	8210	139	19.5	11	1	57.1
ASGROW	RX908	138	19.2	11	1	55.5
BO-JAC	602	137	18.5	9	1	57.3
MCCURDY	7477	136	19.4	13	1	56.6
GOLDEN ACRES	T-E 7055	136	19.7	10	1	56.8
AGRIGENE	AG 7720	136	19.6	8	1	57.1
FUNKS G	4543	134	19.2	13	0	57.2
WILSON	1890	133	20.3	8	0	56.0
CARGILL	8127	132	18.1	6	0	58.4
NORTHRUP KING	N 7816	132	19.3	10	1	56.3
CROW'S	488	131	16.9	9	1	57.1
PIONEER	3189	131	18.4	4	0	57.9
PIONEER	3379	130	16.5	8	0	58.6
RENZE	6338	130	16.4	10	1	57.7
CARGILL	7993	130	17.9	12	1	58.0
KRUGER	K8112	129	18.1	9	1	58.0
CARGILL	7877	129	18.8	14	1	56.1
TERRA	TR 1120	129	18.2	13	0	57.8
RENZE	6412	129	18.4	13	0	57.8
GOLDEN ACRES	T-E 6988	129	18.3	17	0	56.7
DYNA GRO	5671	129	18.8	11	1	56.5
TRI VALLEY	116	128	18.8	7	1	57.5
WILSON	2100	128	18.9	13	1	57.1
PIONEER	3162	127	19	9	1	58.0
HYPERFORMER	HS 59	127	18.4	9	0	57.4
FONTANELLE	5230	127	17.7	12	1	58.0
FONTANELLE	6235	126	18.7	9	0	57.7
CROW'S	482	126	16.9	5	1	56.9
RENZE	6341	125	16.8	8	0	57.7
CARGILL	8027	125	18.9	9	0	57.2
ORO	EX803	125	16.3	7	1	59.0
PFISTER	3380	125	19.1	13	1	56.8
TRI VALLEY	114	124	17.6	5	0	58.4
S BRAND	SS-63B	124	18.3	14	0	57.9
CUSTOM FARM SEED	W7877	123	18.6	11	0	57.5
SUPERIOR	SP 6022	121	18.2	11	0	57.3
ASGROW	RX746	121	18.1	6	0	58.0
KRUGER	K8116	120	19.2	9	0	57.4
-----	NEBR. 611	119	17.8	16	0	55.5
GOLDEN ACRES	T-E 6951	119	18.8	8	1	57.1
ORO	120	117	18.2	9	1	57.8
TERRA	TR 1125	114	17.2	7	0	58.5
JACQUES	7910	110	19	12	1	57.0
AVERAGE ALL ENTRIES		128	18.4	10	0.3	57.3
DIF. REQ. FOR SIG.	5%	NS	0.5	NS	NS	0.6
	25%	NS	0.3	NS	NS	0.4
3 YEAR AVERAGE						
FUNKS G	4673B	133	17.9	11	0	56.7
JACQUES	8210	132	18	10	0	57.6

CONTINUED ON NEXT PAGE

Table 1B. Southeast nonirrigated corn. 1986 - 1990.
PAGE 2

Brand	Hybrid	Grain yield bu/a	Grain moisture %	Broken plants %	Dropped ears %	Bushel weight lb/bu
PIONEER	3379	127	15.8	6	0	58.8
ASGROW	RX908	127	18.2	10	1	56.1
CROW'S	488	125	15.7	7	1	57.2
BO-JAC	602	125	17.1	7	1	57.6
GOLDEN ACRES	T-E 6988	124	16.9	13	0	56.8
FUNKS G	4543	123	17.8	11	0	57.6
TERRA	TR 1120	123	17.1	10	0	57.9
WILSON	2100	122	17.7	10	1	57.6
CARGILL	7993	122	17	8	1	58
FONTANELLE	6235	120	17.4	8	0	57.7
FONTANELLE	5230	120	16.8	9	0	58.1
DYNA GRO	5671	120	17.5	9	1	57
PFISTER	3380	119	17.6	10	1	57.2
TRI VALLEY	114	119	16.4	4	0	58.1
CROW'S	482	118	15.9	6	1	57
CARGILL	7877	118	17.3	12	1	56
S BRAND	SS-63B	118	17.3	10	0	58.1
KRUGER	K8116	117	17.9	7	0	57.6
GOLDEN ACRES	T-E 6951	115	17.5	7	0	57.4
-----	NEBR. 611	111	16.6	13	0	55.5
TERRA	TR 1125	107	16.2	5	0	58.5
AVERAGE ALL ENTRIES		120	17.1	9	0.4	57.4
DIF. REQ. FOR SIG.	5%	6	0.5	NS	NS	0.5
	25%	3	0.3	NS	0.2	0.3
			4 YEAR AVERAGE			
JACQUES	8210	145	17.9	8	0	57.9
CROW'S	488	138	15.7	7	1	57.6
WILSON	2100	137	17.3	8	1	58.2
BO-JAC	602	136	17	7	1	58.2
GOLDEN ACRES	T-E 6988	135	16.6	11	1	57.5
FONTANELLE	6235	134	17.1	7	0	58.4
DYNA GRO	5671	132	17.1	8	1	57.7
CROW'S	482	131	15.8	6	1	57.3
TRI VALLEY	114	131	16.1	3	0	58.3
S BRAND	SS-63B	130	17.1	9	0	58.6
GOLDEN ACRES	T-E 6951	128	17.3	7	0	57.9
-----	NEBR. 611	124	16.5	11	0	56
AVERAGE ALL ENTRIES		132	16.8	8	0.4	57.8
DIF. REQ. FOR SIG.	5%	4	0.3	NS	NS	0.5
	25%	2	0.2	NS	0.2	0.3
			5 YEAR AVERAGE			
CROW'S	488	141	16.4	6	1	57.7
WILSON	2100	140	17.8	7	1	58.2
FONTANELLE	6235	138	17.7	6	0	58.1
S BRAND	SS-63B	137	17.7	7	0	58.4
GOLDEN ACRES	T-E 6988	136	17.2	9	0	57.4
DYNA GRO	5671	134	17.6	6	1	57.9
-----	NEBR. 611	127	17.3	11	1	56.1
AVERAGE ALL ENTRIES		135	17.4	8	0.5	57.7
DIF. REQ. FOR SIG.	5%	6	0.3	NS	NS	0.5
	25%	3	0.2	1	0.2	0.2

Table 2A. East Central. Two Tests. Washington Co. Dryland & Platte Co. Irrigated. 1990

		Yield			1990 Average			
Brand	Hybrid	Average bu/a	Washington bu/a	Platte bu/a	Moisture %	Broken %	Dropped %	Bushel weight
CARGILL	7877	184	190	178	18.9	2	2	56.6
GERMAIN'S	86040	182	161	202	19.0	5	1	59.2
SUPERIOR	SP 7290	181	173	189	19.9	1	1	57.1
DYNA GRO	5470	173	149	197	16.8	1	1	57.9
RENZE	6520	171	148	194	19.6	4	1	57.4
AGRIGENE	AG 7450	170	148	192	18.3	3	1	58.1
PIONEER	3417	168	141	195	16.9	1	2	58.7
PIONEER	3362	167	151	183	17.3	2	2	57.8
OTTILIE	2445	167	138	195	16.4	2	0	58.2
PIONEER	3379	166	148	183	17.4	1	1	58.3
OHLDE	EXP300	166	127	205	21.8	1	0	56.1
CHEESMAN	588	166	141	190	18.2	2	1	58.0
RENZE	6341	165	134	196	16.7	2	0	57.8
GERMAIN'S	96007	164	138	189	18.2	6	1	59.6
TRIUMPH	1270	164	141	186	16.4	1	1	58.0
CROW'S	488	163	146	180	16.4	3	1	57.1
HYPERFORMER	HS X9592	162	133	190	18.3	1	1	58.4
NORTHRUP KING	N 6330	162	141	182	16.8	2	0	57.9
SUPERIOR	SP 5448	162	145	179	16.7	2	1	57.2
GERMAIN'S	GC5247	162	142	181	18.5	3	1	55.9
CROW'S	482	162	150	173	18.0	2	1	57.2
CHEESMAN	510	161	138	184	16.8	3	3	57.7
CHEESMAN	600	161	137	185	20.3	2	1	56.9
PIONEER	3467	160	145	174	16.8	1	0	59.8
AGRIGENE	AG 6450	159	142	175	18.4	2	1	57.6
GERMAIN'S	96008	159	141	176	19.1	0	4	58.2
CHEESMAN	520	158	139	177	16.2	3	1	56.7
CROW'S	697	158	145	171	17.1	5	1	57.6
SUPERIOR	SP 5527	155	134	175	17.5	1	0	58.9
KRUGER	K8109B	155	123	187	17.0	1	2	57.4
HORIZON	8115	155	106	204	18.1	2	1	58.4
TERRA	TR 1120	155	122	187	17.7	2	1	58.5
SUPERIOR	SP 6022	155	121	188	18.7	2	1	58.1
DYNA GRO	5671	154	112	196	18.7	3	1	56.6
-----	N9072	154	149	159	22.6	5	2	55.7
TRIUMPH	1265	153	125	180	16.5	1	2	57.8
-----	NEBR. 61	153	134	172	18.0	6	1	56.1
S BRAND	CB-1140	153	128	177	18.4	3	1	56.6
WILSON	1640	153	129	176	18.0	1	1	58.3
TERRA	TR 1090	152	119	185	17.0	1	1	57.5
FONTANELLE	4280	152	142	161	17.7	1	1	58.2
TERRA	TR 1190	152	115	188	21.9	5	1	54.4
JACOBSEN	JS55	151	130	171	18.1	2	0	58.4
JACQUES	7910	151	135	167	17.9	1	1	58.1
ASGROW	RX746	151	135	167	17.7	2	0	59.0

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Table 2A. East Central. Two Tests.
Washington Co. Dryland & Platte Co. Irrigated. 1990. PAGE 2.

		Yield			1990 Average			
Brand	Hybrid	Average bu/a	Washington bu/a	Platte bu/a	Moisture %	Broken %	Dropped %	Bushel weight
NORTHRUP KING	CO8625	150	120	179	18.0	2	1	58.8
CARGILL	7993	150	120	179	18.5	3	1	57.7
HORIZON	717	149	126	172	18.1	2	1	58.0
OTTILIE	2465	149	131	166	17.4	2	0	59.0
SUPER CROST	5460	149	122	176	18.5	3	1	58.3
FONTANELLE	5230	148	123	172	18.2	2	1	57.9
PFISTER	3340	148	130	165	18.9	3	1	57.3
JACOBSEN	JS48	148	115	181	18.1	2	1	58.0
CROW'S	682	148	117	179	16.9	2	2	56.9
HYPERFORMER	HS X9492	148	115	181	18.3	2	0	58.0
NORTHRUP KING	N 6560	147	130	164	18.5	1	0	57.7
FONTANELLE	X1220	147	127	167	17.2	2	1	56.8
JACOBSEN	JS45	146	134	157	17.4	3	1	58.5
GOLDEN ACRES	T-E 6951	146	114	177	17.3	1	0	58.1
CARGILL	6927	146	117	175	17.8	1	1	58.2
DYNA GRO	5491	146	112	180	18.0	1	1	58.3
GOLDEN ACRES	T-E 7016	146	132	160	17.2	3	1	57.9
HYPERFORMER	HS X9641	146	128	164	17.8	1	0	56.4
FEDERAL	FX39B	146	125	167	19.0	3	2	57.0
OHLDE	EXP301	145	110	179	20.3	2	1	56.6
TRI VALLEY	116	144	114	174	18.8	2	2	58.0
TRI VALLEY	114	144	118	169	17.9	1	0	58.5
OHLDE	353	144	117	171	18.5	2	0	57.9
RENZE	6352	144	122	166	17.2	1	2	58.9
WILSON	2100	144	118	169	19.3	3	1	57.7
S BRAND	SS-60C	143	127	159	18.5	2	1	58.0
KRUGER	K8112	142	105	178	18.4	3	1	58.0
ASGROW	RX706	142	117	166	16.5	2	1	57.4
MCCURDY	7372	141	118	164	19.8	5	2	56.8
ASGROW	RX788	141	104	178	18.2	2	1	57.9
DEKALB Plant Gen	DK612	141	119	162	18.0	3	0	58.2
KRUGER	K9008B	141	127	155	15.3	2	1	58.3
MCCURDY	6660	139	112	165	17.6	3	0	58.7
JACQUES	7820	138	113	162	18.7	3	1	57.8
-----	N9069	138	121	154	19.1	5	4	54.7
KRUGER	K9008A	136	111	161	15.6	1	1	58.3
TERRA	TR 1125	136	112	159	18.3	1	1	57.8
OHLDE	350	134	107	161	18.7	2	1	57.6
RENZE	6224	131	124	138	15.2	1	3	59.2
VINEYARD	V424w	130	114	146	19.4	2	1	57.8
HYPERFORMER	HS X9491	128	128	128	18.1	1	0	58.0
VINEYARD	V452w	127	111	143	18.6	4	1	57.9
-----	N9071	111	78	144	16.7	1	1	57.8
AVERAGE ALL ENTRIES		149	127	173	18.0	2.1	0.7	57.7
DIF. REQ. FOR SIG.	5%	24	24.8	27	1.6	2.8	1.3	1.5
	25%	14	14.6	16	0.9	1.6	0.8	0.9

Table 2B. East Central corn. 1986–1990.

Brand	Hybrid	Grain yield bu/a	Grain moisture %	Broken plants %	Dropped ears %	Bushel weight lb/bu
2 YEAR AVERAGE						
CARGILL	7877	128	21.4	4	2	55.1
PIONEER	3362	125	19.8	5	3	56.4
PIONEER	3379	121	20.8	2	2	56.6
RENZE	6341	119	19.0	5	0	56.4
PIONEER	3467	118	19.3	3	0	57.6
CROW'S	488	117	19.6	6	2	55.9
SUPERIOR	SP 5448	117	18.9	5	1	55.6
FONTANELLE	4280	115	19.2	4	1	57.1
AGRIGENE	AG 6450	115	20.0	4	1	56.5
KRUGER	K8109B	113	19.6	3	2	56.5
NORTHRUP KING	N 6560	113	19.7	5	0	56.7
DYNA GRO	5671	113	20.4	4	1	55.5
ASGROW	RX746	112	19.4	4	1	57.5
CROW'S	482	112	20.2	6	1	55.9
S BRAND	CB-1140	112	20.1	5	1	55.5
MCCURDY	6660	111	19.8	4	1	56.9
TERRA	TR 1120	111	20.2	5	1	56.8
TRI VALLEY	116	111	20.5	4	2	56.5
SUPERIOR	SP 6022	111	20.7	5	2	56.5
TERRA	TR 1125	110	19.9	3	1	56.7
MCCURDY	7372	110	21.5	7	2	55.8
JACOBSEN	JS45	109	19.6	3	1	56.9
CARGILL	7993	108	20.0	5	2	56.6
SUPER CROST	5460	107	21.0	5	2	56.3
-----	NEBR. 611	106	21.0	9	1	54.4
JACQUES	7820	105	20.7	5	2	56.6
CROW'S	682	105	20.0	6	2	55.6
KRUGER	K8112	104	20.7	6	1	56.4
FONTANELLE	5230	104	21.3	5	2	55.9
ASGROW	RX788	103	19.9	5	1	56.5
WILSON	2100	100	21.8	4	1	56.4
EK PREMIUM	EK7740	84	19.1	9	2	57.1
AVERAGE ALL ENTRIES		111	20.1	5	1	56.3
DIF. REQ. FOR SIG.	5%	NS	NS	1	0.6	0.5
	25%	5	0.5	0.7	0.3	0.3
3 YEAR AVERAGE						
CARGILL	7877	117	19.8	3	1	56.1
PIONEER	3379	115	19.3	2	1	57.4
CROW'S	488	111	18.1	5	1	56.7
SUPERIOR	SP 5448	111	17.9	4	1	56.5
SUPERIOR	SP 6022	110	19.4	4	1	57.4
AGRIGENE	AG 6450	109	18.7	3	1	57.2
CROW'S	482	109	18.9	4	1	56.7
FONTANELLE	4280	109	18.2	3	1	57.6
TERRA	TR 1120	108	19.3	3	0	57.4
MCCURDY	6660	107	18.5	3	0	57.5
MCCURDY	7372	107	20.0	6	1	57.0
SUPER CROST	5460	106	19.7	3	1	57.1
JACQUES	7820	106	19.6	3	1	57.4
CARGILL	7993	105	18.9	4	1	57.3

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Table 2B. East Central corn. 1986–1990. PAGE 2.

Brand	Hybrid	Grain yield bu/a	Grain moisture %	Broken plants %	Dropped ears %	Bushel weight lb/bu
DYNA GRO	5671	104	19.0	3	1	56.7
KRUGER	K8112	104	19.5	4	1	57.2
JACOBSEN	JS45	103	18.2	2	0	57.5
ASGROW	RX788	103	18.9	3	1	57.2
FONTANELLE	5230	103	19.7	5	1	56.9
-----	NEBR. 611	102	19.2	7	1	55.5
TERRA	TR 1125	102	18.6	2	1	57.3
CROW'S	682	101	18.7	4	1	56.7
WILSON	2100	100	19.9	3	1	57.3
AVERAGE ALL ENTRIES		107	19.0	4	1	57.0
DIF. REQ. FOR SIG.	5%	NS	0.6	1	NS	0.4
	25%	NS	0.3	0.6	NS	0.2
4 YEAR AVERAGE						
CARGILL	7877	121	19.0	3	1	56.6
MCCURDY	7372	116	19.1	5	1	57.8
CROW'S	488	115	17.5	4	1	57.3
CROW'S	482	115	18.2	4	1	57.5
TERRA	TR 1120	114	18.5	3	0	58.0
SUPERIOR	SP 6022	113	18.7	4	1	58.1
SUPER CROST	5460	113	18.8	3	1	57.9
DYNA GRO	5671	111	18.3	2	1	57.4
CARGILL	7993	110	18.2	3	1	57.9
JACQUES	7820	110	18.7	3	1	58.0
FONTANELLE	4280	109	17.7	2	1	58.1
KRUGER	K8112	109	18.7	3	1	57.8
ASGROW	RX788	109	18.2	3	1	57.8
FONTANELLE	5230	108	18.9	4	1	57.8
WILSON	2100	108	19.0	3	1	58.1
-----	NEBR. 611	107	18.6	7	1	55.7
AVERAGE ALL ENTRIES		112	18.5	3	1	57.6
DIF. REQ. FOR SIG.	5%	NS	0.5	0.7	NS	0.4
	25%	NS	0.3	0.4	NS	0.2
5 YEAR AVERAGE						
MCCURDY	7372	117	18.9	4	1	58.1
CROW'S	488	116	17.5	4	1	57.5
SUPERIOR	SP 6022	116	18.5	3	1	58.3
TERRA	TR 1120	115	18.3	3	0	58.3
JACQUES	7820	114	18.5	3	1	58.2
DYNA GRO	5671	113	18.1	2	1	57.7
ASGROW	RX788	113	18.1	3	1	57.9
KRUGER	K8112	111	18.4	4	1	58.0
WILSON	2100	110	18.7	3	1	58.3
FONTANELLE	5230	110	18.6	4	1	57.9
-----	NEBR. 611	109	18.4	7	1	55.9
AVERAGE ALL ENTRIES		113	18.4	4	1	57.8
DIF. REQ. FOR SIG.	5%	NS	NS	0.8	NS	0.3
	25%	NS	0.2	0.4	NS	0.2

Table 3A. Zone II. South Central Irrigated Corn. Two Tests. Clay County and Fillmore County. 1990.

		YIELD			1990 AVERAGE		
BRAND	HYBRID	AVERAGE BU/A	CLAY BU/A	FILLMORE BU/A	MOISTURE %	BROKEN %	DROPPED %
SUPERIOR	SP 7290	179	195	163	19.2	3	0
HAWKEYE	SX56	179	190	167	20.2	5	3
GOLDEN ACRES	T-E 7055	178	189	166	20.2	4	1
OHLDE	371	178	189	166	20.4	5	1
OHLDE	359	178	206	149	19.5	2	2
JACQUES	8210	177	194	159	19.8	4	1
CHEESMAN	600	176	181	171	20.6	5	2
CARGILL	7877	176	191	160	18.5	5	1
-----	N9069	174	174	**	23.0	3	2
-----	N9072	174	174	**	28.1	6	1
PIONEER	3162	173	195	151	20.3	3	0
CARGILL	7990	172	200	143	19.3	3	2
HORIZON	717	171	177	165	19.0	4	0
WILSON	1890	171	180	161	20.7	1	1
ORO	190	171	185	157	20.2	3	1
AGRIGENE	AG 7720	171	187	154	20.2	4	3
RENZE	6412	169	178	160	18.6	2	2
OHLDE	336	169	171	167	18.6	2	1
CROW'S	449	169	176	161	18.0	2	1
NOBLE BEAR	NB 484	168	183	153	17.8	2	2
OTTILIE	2465	168	165	170	18.6	5	1
RENZE	6520	167	180	154	20.4	3	1
NOBLE BEAR	NB 2562	167	180	153	18.9	3	1
HORIZON	9118	167	184	150	20.2	4	1
RENZE	6338	167	184	150	17.7	3	2
GOLDEN HARVEST	H-2572 ##	166	177	154	18.7	3	1
MCCURDY	7477	166	171	160	19.4	6	1
GOLDEN ACRES	T-E X9003	166	181	150	20.6	3	3
OTTILIE	2488	166	182	149	19.9	4	2
TRI VALLEY	116	166	185	146	19.4	3	3
S BRAND	SS-60C	165	159	170	18.9	6	1
FUNKS G	4513	165	184	145	18.9	5	1
RENZE	6341	164	181	147	17.8	3	1
TRIUMPH	1270	164	176	152	18.1	2	2
VINEYARD	FC540	164	176	152	19.9	5	2
MCCURDY	7300	164	181	146	18.9	3	2
TERRA	TR 1090	164	187	140	18.4	4	2
FONTANELLE	4435	163	176	149	18.1	4	1
HYPERFORMER	HS 9663	163	179	146	18.5	3	4
HOEGEMEYER	SX2680	162	171	152	19.1	3	2
TERRA	TR 1125	162	169	155	18.8	3	0
FONTANELLE	6235	162	183	141	18.8	3	2
TRI VALLEY	114	162	164	160	19.4	5	1
HAWKEYE	SX75	162	168	156	20.5	4	0
ASGROW	RX788	162	181	142	18.9	3	1
NC+	5990 ##	162	180	143	18.7	3	0
JACOBSEN	JS48	162	173	151	19.0	2	1
OHLDE	353	161	174	147	19.2	1	2
CROW'S	482	161	181	140	17.4	6	1
SUPERIOR	SP 5448	161	173	148	17.6	2	3
DYNA GRO	5561	161	183	138	19.2	2	2
ASGROW	RX807	161	179	143	19.7	4	3
NOBLE BEAR	NB 422	161	157	164	19.3	2	1
TERRA	TR 1120	160	167	153	18.9	3	2
JACOBSEN	JS45	160	165	154	18.7	5	0
CURRY	4480	160	180	139	18.7	7	4

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Table 3A. Page 2		YIELD			1990 AVERAGE		
BRAND	HYBRID	AVERAGE BU/A	CLAY BU/A	FILLMORE BU/A	MOISTURE %	BROKEN %	DROPPED %
DEKALB Plant Gen	DK671	160	173	146	18.9	3	2
CHEESMAN	580	159	174	144	18.8	5	4
PFISTER	3380	159	187	131	19.0	3	1
CHEESMAN	520	159	179	138	16.8	3	1
CHEESMAN	510	159	180	138	17.8	2	3
CARGILL	7993	159	180	137	18.8	3	2
CROW'S	488	159	183	135	16.5	7	1
CURRY	1492	158	177	139	19.2	3	3
PIONEER	3180	158	180	135	19.4	3	1
S BRAND	SS-63B	158	176	140	18.7	2	0
FUNKS G	4543	158	184	132	19.2	3	3
HYPERFORMER	HS X9492	157	159	155	18.5	2	0
NORTHRUP KING	N 7816	157	170	143	18.3	3	4
OTTILIE	2445	157	176	137	18.2	2	2
AGRIGENE	AG 7450	157	164	149	19.2	4	2
JACQUES	7910	157	164	150	19.7	6	1
HAWKEYE	SX61	157	189	124	19.5	3	2
NORTHRUP KING	CO8625	156	168	144	19.3	3	2
SUPERIOR	SP 6022	156	172	139	18.6	2	1
BO-JAC	520	156	173	139	17.6	2	2
BO-JAC	601	155	174	135	19.4	2	2
TERRA	TR 3400	155	171	138	18.9	4	6
HAWKEYE	SX32	155	180	129	17.9	3	3
GOLDEN ACRES	T-E 7081	155	176	133	22.1	5	6
HORIZON	8115	155	177	133	19.7	3	2
NORTHRUP KING	S 7751 ##	154	165	142	19.0	3	1
EXCELL	1190	154	170	138	19.1	2	1
BO-JAC	454	154	153	155	19.1	5	1
PIONEER	3379	153	182	123	17.6	2	1
VINEYARD	V424w	153	162	143	19.5	3	2
HORIZON	9116	153	176	130	18.6	4	3
DYNA GRO	5550	153	177	129	18.7	3	1
NORTHRUP KING	N 6330	153	169	137	17.9	5	2
PIONEER	3189	153	177	128	20.8	2	0
CROW'S	670	153	177	129	20.5	2	6
JACQUES	7820	153	177	128	18.8	4	2
DYNA GRO	5671	152	162	141	19.0	4	4
BO-JAC	X585	152	180	123	18.0	3	6
TRIUMPH	1595	151	171	130	18.9	3	3
HYPERFORMER	HS 59	151	169	133	18.4	4	4
CARGILL	8027	151	166	136	19.3	1	3
FONTANELLE	X1220	150	172	127	18.0	2	2
FONTANELLE	5230	150	166	134	18.5	4	2
HYPERFORMER	HS X9491	150	157	143	19.0	2	0
WILSON	2100	149	167	130	18.5	4	1
DEKALB Plant Gen	DK636 ##	149	162	136	18.7	3	1
CURRY	4475	148	170	125	16.6	2	4
-----	NEBR. 611	148	164	132	17.1	6	2
-----	N9071	148	168	127	17.7	3	2
ORO	120	148	156	140	18.9	4	1
ASGROW	RX746	147	155	139	19.3	4	1
EXCELL	1151	146	165	126	17.8	3	8
ORO	EX803	137	154	119	17.1	3	3
VINEYARD	V452w	135	146	123	18.4	6	1
SUPERIOR	SP 5908	134	172	96	17.3	3	2
AVERAGE ALL ENTRIES		159	174	143	18.9	3.1	1.6
DIF. REQ. FOR SIG.	5%	21	17	20	1.7	NS	2.9
	25%	12	10	12	1.0	1.9	1.7

Popular hybrid entered by Agronomy Department

Table 3B. South Central Irrigated Corn Tests - 1986 - 1990

Brand	Hybrid	Grain yield bu/a	Grain moisture %	Broken plants %	Dropped ears %
2 YEAR AVERAGE					
JACQUES	8210	187	19.2	4	1
GOLDEN ACRES	T-E 7055	184	19.3	4	1
CARGILL	7877	183	18.1	5	1
OHLDE	359	182	18.8	2	2
SUPERIOR	SP 7290	182	19.2	3	0
CARGILL	7990	181	19.0	3	2
AGRIGENE	AG 7720	179	19.6	4	3
HAWKEYE	SX56	177	18.9	5	3
RENZE	6341	177	17.2	3	1
WILSON	1890	176	20.0	1	1
TERRA	TR 3400	176	17.7	4	6
MCCURDY	7477	175	18.9	6	1
ASGROW	RX788	174	18.2	3	1
RENZE	6412	173	17.7	2	2
FUNKS G	4543	171	18.2	3	3
ASGROW	RX807	171	18.7	4	3
FUNKS G	4513	171	18.0	5	1
FONTANELLE	6235	171	18.0	3	2
GOLDEN HARVEST	H-2572 ##	170	18.0	3	1
HORIZON	717	170	18.2	4	0
TRI VALLEY	116	169	18.5	3	3
PFISTER	3380	169	15.9	3	1
HAWKEYE	SX32	169	17.1	3	3
PIONEER	3379	168	17.0	2	1
BO-JAC	454	168	18.5	5	1
SUPERIOR	SP 6022	168	18.0	2	1
TERRA	TR 1120	168	17.9	3	2
CROW'S	488	168	16.4	7	1
JACQUES	7820	167	18.1	4	2
S BRAND	SS-63B	167	18.1	2	0
BO-JAC	601	167	18.5	2	2
CARGILL	7993	167	18.2	3	2
TRI VALLEY	114	167	18.6	5	1
PIONEER	3189	166	19.3	2	0
NORTHRUP KING	N 7816	166	18.1	3	4

--- CONTINUED ON NEXT COLUMN ---

Brand	Hybrid	Grain yield bu/a	Grain moisture %	Broken plants %	Dropped ears %
FONTANELLE	5230	166	17.8	4	2
CARGILL	8027	166	18.5	1	3
TRIUMPH	1595	166	18.2	3	3
CURRY	1492	165	18.2	3	3
DYNA GRO	5671	164	18.4	4	4
NORTHRUP KING	S 7751 ##	164	18.3	3	1
TERRA	TR 1125	164	18.3	3	0
HYPERFORMER	HS 59	163	17.7	4	4
DEKALB Plant Gen	DK636 ##	163	18.0	3	1
NC+	5990 ##	162	18.1	3	0
WILSON	2100	161	18.2	4	1
NORTHRUP KING	CO8625	161	18.4	3	2
ORO	120	160	18.0	4	1
ASGROW	RX746	160	18.9	4	1
SUPERIOR	SP 5908	160	16.8	3	2
EXCELL	1151	160	16.7	3	8
ORO	EX803	150	16.6	3	3
-----	NEBR. 61	147	16.6	6	2
AVERAGE ALL ENTRIE		168	18.1	3	2
DIF. REQ. FOR SIG.	5%	8	0.6	NS	NS
	25%	5	0.3	NS	NS
3 YEAR AVERAGE					
JACQUES	8210	193	18.5	4	1
HORIZON	717	185	17.2	4	0
CARGILL	7990	185	17.9	3	2
CARGILL	7877	184	16.9	5	1
TERRA	TR 1120	184	17.4	3	2
AGRIGENE	AG 7720	181	18.6	4	3
FUNKS G	4543	180	17.2	3	3
FONTANELLE	6235	180	17.3	3	2
TERRA	TR 3400	179	17.2	4	6
FONTANELLE	5230	179	17.3	4	2
WILSON	2100	179	17.4	4	1
HAWKEYE	SX56	179	18.0	5	3

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Table 3B. South Central Irrigated Corn 1986 - 1990. Page 2.

Brand	Hybrid	Grain yield bu/a	Grain moisture %	Broken plants %	Dropped ears %
FUNKS G	4513	179	17.3	5	1
SUPERIOR	SP 6022	178	17.3	2	1
NORTHRUP KING	N 7816	178	17.4	3	4
TRI VALLEY	114	178	17.2	5	1
TRIUMPH	1595	178	17.4	3	3
GOLDEN HARVEST	H-2572 ##	177	17.3	3	1
S BRAND	SS-63B	177	17.2	2	0
CROW'S	488	175	15.8	7	1
EXCELL	1151	175	16.3	3	8
NORTHRUP KING	S 7751 ##	174	17.5	3	1
CARGILL	7993	174	17.4	3	2
PIONEER	3379	172	16.1	2	1
BO-JAC	454	172	17.5	5	1
NC+	5990 ##	172	17.3	3	0
DYNA GRO	5671	169	17.5	4	4
TERRA	TR 1125	166	17.4	3	0
ASGROW	RX746	163	17.6	4	1
DEKALB Plant Gen	DK636 ##	162	17.2	3	1
-----	NEBR. 611	154	15.9	6	2
AVERAGE ALL ENTRIE		176	17.2	4	2
DIF. REQ. FOR SIG.	5%	8	0.4	NS	NS
	25%	5	0.2	NS	NS
			4 YEAR AVERAGE		
CARGILL	7990	193	18.9	3	1
JACQUES	8210	193	19.2	6	1
CARGILL	7877	191	17.5	4	1
HORIZON	717	190	18.0	4	0
TERRA	TR 1120	188	18.3	3	1
SUPERIOR	SP 6022	187	18.0	3	1
TERRA	TR 3400	186	18.1	4	4
WILSON	2100	186	18.4	4	1
FONTANELLE	5230	186	18.2	3	1
ASGROW	RX788	186	18.2	3	1
FUNKS G	4513	185	18.1	4	1
FONTANELLE	6235	185	18.2	3	2
HAWKEYE	SX56	184	18.5	4	2

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Brand	Hybrid	Grain yield bu/a	Grain moisture %	Broken plants %	Dropped ears %
TRIUMPH	1595	184	18.3	4	2
S BRAND	SS-63B	183	17.9	4	1
CARGILL	7993	182	18.3	3	1
CROW'S	488	182	16.2	5	1
DYNA GRO	5671	176	18.2	4	2
BO-JAC	454	175	17.9	4	1
-----	NEBR. 61	159	16.5	5	1
AVERAGE ALL ENTRIE		186	18.0	4	1
DIF. REQ. FOR SIG.	5%	7	0.4	NS	NS
	25%	4	0.2	NS	NS
			5 YEAR AVERAGE		
CARGILL	7990	197	19.2	4	2
SUPERIOR	SP 6022	191	18.3	5	1
TERRA	TR 1120	189	18.6	4	1
FONTANELLE	6235	189	18.5	5	2
WILSON	2100	189	18.6	6	1
TERRA	TR 3400	189	18.5	5	4
FUNKS G	4513	189	18.5	6	1
HAWKEYE	SX56	187	18.7	5	2
FONTANELLE	5230	187	18.6	5	2
TRIUMPH	1595	187	18.6	5	2
CROW'S	488	187	16.8	6	1
HORIZON	717	184	18.3	6	1
S BRAND	SS-63B	183	18.3	6	1
DYNA GRO	5671	178	18.5	6	2
-----	NEBR. 61	163	17.1	10	2
AVERAGE ALL ENTRIE		185	18.3	6	2
DIF. REQ. FOR SIG.	5%	7	0.3	NS	0.6
	25%	4	0.2	0.7	0.3

POPULAR HYBRIDS ENTERED BY AGRONOMY DEPARTMENT

Table 4A. Northeast Nonirrigated Corn. Dixon County. 1990

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	DROPPED EARS PCT	BROKEN PLANTS PCT
KRUGER	K8111A	105	13.6	1	1
CHEESMAN	588	105	14.5	0	0
HOEGEMEYER	SX2628	102	13.3	1	1
FUNKS G	4450	97	14.1	1	0
CHEESMAN	535	95	13.8	0	1
TRI VALLEY	114	94	14.0	0	1
DYNA GRO	5470	92	13.5	0	0
CURRY	1480	92	14.1	0	0
CARGILL	7877	91	14.4	0	2
NC+	5212	91	13.5	0	1
WILSON	1640	91	13.7	0	1
SUPERIOR	SP 5527	90	14.0	0	0
HOEGEMEYER	SX2632	90	13.9	0	0
FUNKS G	4485	89	13.6	0	1
JACQUES	X8116	89	13.3	0	0
CURRY	1492	89	14.6	0	1
DYNA GRO	5351	89	14.1	1	1
FONTANELLE	4280	89	14.1	0	0
DEKALB Plant Gen	DK636	89	15.4	1	1
JACOBSEN	JS55	88	13.8	0	1
CROW'S	498	87	14.1	0	2
FONTANELLE	X1220	87	13.3	0	1
CURRY	1471	87	13.7	1	0
PIONEER	3503	86	13.8	0	0
S BRAND	SS-60C	86	13.6	0	0
OHLDE	359	86	14.4	0	1
MCCURDY	6660	86	13.7	1	0
CHEESMAN	520	86	12.8	0	1
WILSON	DEMAND 110	85	14.0	1	1
NORTHRUP KING	N 6560	85	13.7	0	1
HYPERFORMER	HS X9475	85	12.7	0	0
BETAGOLD	EXP.856	85	13.4	1	0
RENZE	6341	85	13.7	0	0
ASGROW	RX746	85	14.1	0	0
-----	N9071	84	13.8	2	1
OHLDE	336	84	13.9	0	0
SUPERIOR	SP 6022	84	14.4	0	0
AGRIGENE	AG 6450	84	14.2	1	0
NC+	4616	84	13.7	1	0
RENZE	6354	84	14.3	0	0
JACQUES	7770	84	14.1	0	1
-----	N9068	83	12.8	0	1
JACOBSEN	JS45	83	13.7	0	2
SUPERIOR	SP 5908	83	13.3	1	1
FUNKS G	4490	82	14.1	1	1
JACOBSEN	JS58	82	13.6	0	0
KRUGER	K8112	81	15.1	1	0
HYPERFORMER	HS X9492	81	13.7	0	0
OHLDE	339	80	14.0	2	1
TRI VALLEY	113	80	13.7	0	0
DEKALB Plant Gen	DK612	80	13.2	1	1
SUPER CROST	5415	79	15.7	1	1
NORTHRUP KING	PX 9540	79	14.1	0	0
TRI VALLEY	116	78	14.5	2	1

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Table 4A. Northeast Nonirrigated Corn. Dixon County. 1990 Page 2.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	DROPPED EARS PCT	BROKEN PLANTS PCT
TERRA	TR 1120	78	15.0	1	2
FUNKS G	4393	78	12.9	1	1
OHLDE	353	78	15.5	0	1
RENZE	6224	78	12.7	1	0
PIONEER	3467	78	13.9	1	1
FONTANELLE	5230	77	15.3	1	1
WILSON	1700	77	15.4	0	2
VINEYARD	V452w	76	14.5	0	2
TERRA	TR 1125	76	14.2	0	1
CHEESMAN	510	76	13.6	1	0
RENZE	6338	76	13.8	0	0
CARGILL	6227	75	13.5	1	0
FONTANELLE	4140	75	13.6	0	0
KALTENBERG	K6305	75	12.8	0	1
KRUGER	K9005	75	12.7	1	0
KALTENBERG	K7500	74	13.8	0	0
HYPERFORMER	HS 9471	74	13.0	0	1
CARGILL	7993	74	14.8	0	1
JACOBSEN	JS48	74	14.8	1	0
CROW'S	488	74	13.8	2	2
MCCURDY	6222	73	13.4	1	1
HOEGEMEYER	SX2680	72	14.9	0	3
PIONEER	3417	72	13.0	1	1
CROW'S	482	71	13.4	1	3
PIONEER	3362	71	13.5	0	0
BETAGOLD	HANNA	71	13.4	2	1
NORTHRUP KING	N 6330	71	13.7	0	1
KALTENBERG	K6902	70	13.0	1	2
TERRA	TR 1090	70	13.6	0	0
AGRIGENE	AG 7450	69	13.7	1	2
ASGROW	RX706	68	13.8	1	0
HYPERFORMER	HS X9491	68	14.4	0	0
S BRAND	SS-57A	66	13.4	0	0
KRUGER	K8108	65	13.0	0	1
-----	NEBR. 611	65	14.3	1	1
BETAGOLD	MARIA	63	13.1	0	0
BETAGOLD	MARTA	62	13.7	1	1
TERRA	TR 1190	61	15.5	4	1
CROW'S	682	61	13.3	2	3
VINEYARD	V424w	61	16.0	0	0
SUPERIOR	SP 5448	60	13.8	1	1
AVERAGE ALL ENTRIE		80	13.9	0.4	0.6
DIF. REQ. FOR SIG.	5%	NS	1.0	1.3	1.7
	25%	14	0.6	0.8	1

Table 4B. Northeast Dryland Corn Tests - 1986 - 1990

Brand	Hybrid	Grain yield bu/a	Grain moisture %	Broken plants %	Dropped ears %
		2 YEAR AVERAGE			
NORTHRUP KING	N 6560	94	17.3	1	1
KALTENBERG	K7500	92	18.2	2	0
TRI VALLEY	114	90	17.3	0	1
KRUGER	K8111A	89	17.9	1	1
CARGILL	7877	84	19.4	3	1
FUNKS G	4485	84	17.9	1	1
JACQUES	7770	83	17.5	1	1
WILSON	1700	83	18.6	2	1
SUPERIOR	SP 5527	82	17.6	1	0
TRI VALLEY	113	81	18.4	2	0
MCCURDY	6660	80	17.9	1	1
RENZE	6341	80	16.9	2	1
HOEGEMEYER	SX2628	79	18.6	1	1
JACOBSEN	JS58	78	18.5	1	0
NORTHRUP KING	PX 9540	78	19.4	2	0
FUNKS G	4393	78	16.7	1	1
DEKALB PLANT GENE	DK636	78	19.8	2	1
FONTANELLE	4280	76	17.5	1	0
FONTANELLE	5230	76	19.8	2	1
SUPERIOR	SP 5908	75	18.7	2	1
SUPERIOR	SP 6022	75	19.3	3	1
JACOBSEN	JS45	75	16.8	1	1
ASGROW	RX746	75	18.1	1	0
CROW'S	488	74	18.6	4	2
TERRA	TR 1120	74	20.2	2	2
PIONEER	3467	73	17.9	2	1
CARGILL	7993	73	19.8	3	1
PIONEER	3362	73	17.4	0	0
TERRA	TR 1125	72	18.0	1	1
HOEGEMEYER	SX2680	70	19.4	2	2
OHLDE	359	68	19.6	3	1
SUPER CROST	5415	68	20.9	2	1
RENZE	6338	68	19.1	2	0
CROW'S	482	68	17.3	1	2
KRUGER	K8108	66	16.1	1	1
S BRAND	SS-57A	62	18.4	1	0
-----	NEBR. 611	59	19.3	4	1
SUPERIOR	SP 5448	58	18.4	4	1
AVERAGE ALL ENTRIES		76	18.4	2	1
DIF. REQ. FOR SIG.	5%	NS	1.0	NS	NS
	25%	6	0.6	NS	0.4
		3 YEAR AVERAGE			
TRI VALLEY	114	88	16.8	0	0
SUPERIOR	SP 5527	87	17.2	0	0
KALTENBERG	K7500	86	17.9	1	0
JACQUES	7770	86	17.6	0	1
WILSON	1700	85	18.2	2	1
CARGILL	7877	85	18.7	2	1
KRUGER	K8111A	84	17.5	1	0
NORTHRUP KING	PX 9540	82	19.2	2	0

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Table 4B. Northeast Dryland Corn Tests - 1986 - 1990

PAGE 2.

Brand	Hybrid	Grain yield bu/a	Grain moisture %	Broken plants %	Dropped ears %
FONTANELLE	5230	82	19.2	2	0
MCCURDY	6660	82	17.5	1	0
JACOBSEN	JS45	81	16.8	1	1
CARGILL	7993	80	19.3	2	1
TERRA	TR 1120	80	19.3	2	1
ASGROW	RX746	80	17.7	1	0
FONTANELLE	4280	78	17.0	1	0
SUPERIOR	SP 5908	77	17.8	1	1
HOEGEMEYER	SX2680	76	18.7	1	1
CROW'S	482	76	17.1	1	1
CROW'S	488	75	17.6	5	1
TERRA	TR 1125	74	17.7	1	0
SUPER CROST	5415	74	20.0	2	1
S BRAND	SS-57A	68	17.5	1	0
SUPERIOR	SP 5448	65	17.3	3	1
-----	NEBR. 611	65	18.6	3	0
AVERAGE ALL ENTRIES		79	18.0	1	1
DIF. REQ. FOR SIG.	5%	NS	0.8	1	NS
	25%	4	0.4	0.6	NS
		4 YEAR AVERAGE			
KALTENBERG	K7500	100	17.4	1	0
SUPERIOR	SP 5527	99	17.0	1	0
WILSON	1700	99	18.4	2	1
FONTANELLE	5230	99	18.9	2	1
SUPERIOR	SP 5908	97	17.6	2	1
NORTHRUP KING	PX 9540	96	18.8	2	0
TERRA	TR 1120	94	19.0	1	1
FONTANELLE	4280	94	16.9	1	0
CARGILL	7993	94	19.1	2	1
HOEGEMEYER	SX2680	92	18.4	1	1
CROW'S	488	91	17.6	4	1
CROW'S	482	89	17.2	1	1
SUPER CROST	5415	87	19.4	2	1
S BRAND	SS-57A	83	17.2	1	1
-----	NEBR. 611	83	18.6	3	1
AVERAGE ALL ENTRIES		93	18.1	1	1
DIF. REQ. FOR SIG.	5%	NS	0.6	NS	NS
	25%	4	0.3	0.5	NS
		5 YEAR AVERAGE			
FONTANELLE	5230	110	19.3	1	0
WILSON	1700	108	18.9	1	0
NORTHRUP KING	PX 9540	106	19.1	1	0
CROW'S	488	105	18.0	3	1
FONTANELLE	4280	104	17.5	1	0
TERRA	TR 1120	103	19.3	1	1
-----	NEBR. 611	95	19.0	3	1
AVERAGE ALL ENTRIES		105	18.7	2	1
DIF. REQ. FOR SIG.	5%	5	0.6	0.9	NS
	25%	3	0.3	0.5	0.4

Table 5A. Northeast Irrigated Corn. Dixon County. 1990

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	DROPPED EARS PCT	BROKEN PLANTS PCT
CARGILL	7877	197	20.0	0.0	7
DEKALB Plant Gen	DK636	196	20.3	0.0	5
JACOBSEN	JS48	190	19.9	0.0	5
SUPERIOR	SP 5448	189	18.9	1.0	0
SUPERIOR	SP 5908	189	19.5	0.0	8
FONTANELLE	4280	189	19.8	0.0	5
DEKALB Plant Gen	DK612	189	19.9	0.0	3
FUNKS G	4485	186	18.7	0.0	4
TERRA	TR 1125	186	18.6	0.0	5
FUNKS G	4450	184	19.6	0.0	5
CHEESMAN	535	183	19.0	0.0	7
CHEESMAN	588	183	20.3	0.0	4
FUNKS G	4490	182	19.7	0.0	8
BETAGOLD	HANNA	180	18.1	0.0	4
CROW'S	682	180	21.0	0.0	6
CROW'S	498	179	20.5	0.0	5
RENZE	6338	179	19.0	1.0	6
JACOBSEN	JS45	179	19.4	0.0	4
KALTENBERG	K6305	178	17.9	0.0	5
MCCURDY	6222	177	19.2	0.0	6
HOEGEMEYER	SX2680	177	19.6	0.0	3
NORTHRUP KING	PX 9540	175	20.1	0.0	3
CURRY	1492	175	20.3	0.0	3
JACOBSEN	JS58	175	18.8	1.0	5
PIONEER	3467	174	19.8	0.0	4
SUPERIOR	SP 6022	174	19.7	0.0	8
TRI VALLEY	116	174	20.7	0.0	4
OHLDE	353	174	21.2	1.0	6
NORTHRUP KING	N 6560	174	20.0	0.0	3
BETAGOLD	MARTA	174	18.7	0.0	6
KRUGER	K8111A	173	20.1	0.0	6
OHLDE	359	173	19.5	0.0	4
CHEESMAN	520	172	18.4	0.0	4
KALTENBERG	K7500	172	18.9	0.0	5
FONTANELLE	5230	172	20.3	0.0	4
RENZE	6354	171	20.2	0.0	3
PIONEER	3503	171	19.2	0.0	3
FUNKS G	4393	170	17.2	1.0	2
CURRY	1480	170	19.8	0.0	6
CARGILL	6227	170	20.1	0.0	5
MCCURDY	6660	169	19.3	0.0	5
BETAGOLD	EXP.856	169	19.8	0.0	6
CROW'S	488	169	20.5	0.0	9
SUPERIOR	SP 5527	168	19.2	0.0	4
NC+	5212	168	19.7	0.0	5
WILSON	1640	168	19.5	0.0	5
CARGILL	7993	168	20.7	0.0	4
BETAGOLD	MARIA	168	17.6	0.0	7
VINEYARD	V424w	168	20.7	0.0	3
NORTHRUP KING	N 6330	164	19.4	0.0	5
ASGROW	RX746	164	20.8	0.0	6
RENZE	6341	164	19.5	0.0	6
HYPERFORMER	HS X9492	163	19.3	0.0	3
ASGROW	RX706	163	19.8	1.0	4

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Table 5A. Northeast Irrigated Corn.
Dixon County. 1990 Page 2.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	DROPPED EARS PCT	BROKEN PLANTS PCT
KALTENBERG	K6902	163	18.6	0.0	7
PIONEER	3362	162	18.2	0.0	6
JACOBSEN	JS55	162	19.0	1.0	4
KRUGER	K8112	162	20.2	0.0	5
JACQUES	7770	161	19.3	1.0	6
HOEGEMEYER	SX2628	160	19.9	0.0	6
TERRA	TR 1190	159	21.4	0.0	6
PIONEER	3417	159	18.5	0.0	3
S BRAND	SS-60C	159	19.6	0.0	6
DYNA GRO	5470	159	19.6	0.0	4
JACQUES	X8116	159	18.6	0.0	4
SUPER CROST	5415	158	20.5	0.0	3
WILSON	1700	157	21.8	0.0	4
RENZE	6224	157	18.6	0.0	6
OHLDE	336	157	19.8	0.0	4
FONTANELLE	X1220	156	19.1	1.0	4
AGRIGENE	AG 6450	156	19.5	0.0	4
TERRA	TR 1090	156	20.6	0.0	5
TRI VALLEY	113	156	19.6	0.0	3
CURRY	1471	155	19.6	0.0	3
CHEESMAN	510	155	20.2	0.0	5
TERRA	TR 1120	155	20.3	0.0	2
HYPERFORMER	HS 9471	154	18.3	0.0	6
S BRAND	SS-57A	153	19.5	0.0	4
TRI VALLEY	114	152	19.8	0.0	4
AGRIGENE	AG 7450	150	18.0	0.0	5
DYNA GRO	5351	150	19.4	1.0	3
FONTANELLE	4140	149	18.3	0.0	5
NC+	4616	149	19.5	0.0	5
HOEGEMEYER	SX2632	148	18.8	0.0	4
-----	NEBR. 611	148	20.7	1.0	3
-----	N9068	148	18.8	0.0	1
KRUGER	K8108	146	18.5	1.0	3
CROW'S	482	144	19.3	0.0	9
WILSON	DEMAND 110	140	20.9	0.0	8
OHLDE	339	139	21.2	1.0	4
KRUGER	K9005	136	16.7	0.0	7
HYPERFORMER	HS X9475	135	18.7	0.0	6
VINEYARD	V452w	133	20.8	0.0	9
-----	N9071	133	18.8	1.0	4
HYPERFORMER	HS X9491	132	20.1	0.0	3
AVERAGE ALL ENTRIES		165	19.5	0.2	5
DIF. REQ. FOR SIG.	5%	35	1.7	0.8	4
	25%	20	1.0	0.5	2

Table 5B. Northeast Irrigated Corn. 1986 - 1990.

Brand	Hybrid	Grain yield bu/a	Grain moisture %	Broken plants %	Dropped ears %
	2 YEAR AVERAGE				
CARGILL	7877	210	18.9	2	4
SUPERIOR	SP 5908	197	18.1	2	4
DEKALB Plant Gen	DK636	192	18.8	1	3
SUPERIOR	SP 5448	188	17.7	2	6
SUPERIOR	SP 6022	188	18.9	1	5
OHLDE	359	186	18.7	1	3
NORTHRUP KING	PX 9540	185	18.6	1	2
JACOBSEN	JS45	184	18.3	1	2
KALTENBERG	K7500	181	18.2	1	3
RENZE	6338	181	17.7	3	3
FONTANELLE	4280	179	18.5	1	3
HOEGEMEYER	SX2628	179	18.1	1	3
JACQUES	7770	179	18.3	1	3
TERRA	TR 1125	179	18.5	0	3
RENZE	6341	178	18.3	1	3
NORTHRUP KING	N 6560	178	18.6	1	2
MCCURDY	6660	177	18.0	1	3
FONTANELLE	5230	177	19.1	2	2
ASGROW	RX746	177	19.1	1	3
FUNKS G	4485	177	17.9	1	2
CROW'S	488	177	18.5	2	5
HOEGEMEYER	SX2680	177	18.4	1	2
CARGILL	7993	176	19.4	1	2
SUPER CROST	5415	175	19.2	1	2
PIONEER	3362	174	17.6	1	3
KRUGER	K8111A	172	18.6	1	3
PIONEER	3467	172	18.2	1	3
JACOBSEN	JS58	171	18.1	4	3
FUNKS G	4393	171	16.3	2	1
SUPERIOR	SP 5527	170	18.2	2	2
TRI VALLEY	113	170	18.1	1	2
TERRA	TR 1120	169	18.9	2	1
TRI VALLEY	114	167	19.1	1	2
WILSON	1700	164	20.1	2	2
S BRAND	SS-57A	156	18.2	1	2
KRUGER	K8108	151	17.3	1	2
-----	NEBR. 611	150	18.9	3	8
CROW'S	482	148	17.8	1	5
AVERAGE ALL ENTRIES		176	18.4	1	3
DIF. REQ. FOR SIG.	5%	11	0.6	NS	NS
	25%	6	0.3	0.5	0.9
	3 YEAR AVERAGE				
CARGILL	7877	209	18.5	2	2
SUPERIOR	SP 5908	199	17.9	3	3
FONTANELLE	5230	193	18.7	1	1
CROW'S	488	192	18.1	2	4
NORTHRUP KING	PX 9540	192	18.5	1	1
HOEGEMEYER	SX2680	188	18.3	2	1
CARGILL	7993	186	19.0	2	1
KALTENBERG	K7500	186	18.2	1	2

CONTINUED

Table 5B. Northeast Irrigated Corn. 1986 - 1990.

Page 2.

Brand	Hybrid	Grain yield bu/a	Grain moisture %	Broken plants %	Dropped ears %
SUPER CROST	5415	185	18.9	1	1
TERRA	TR 1120	184	18.5	1	1
JACOBSEN	JS45	183	18.2	1	1
SUPERIOR	SP 5448	182	17.6	1	4
TERRA	TR 1125	182	18.4	0	2
ASGROW	RX746	181	18.8	1	2
WILSON	1700	178	19.6	2	1
JACQUES	7770	178	18.1	1	2
FONTANELLE	4280	178	18.6	1	2
MCCURDY	6660	176	17.9	1	2
KRUGER	K8111A	175	18.6	1	2
TRI VALLEY	114	174	18.4	1	2
SUPERIOR	SP 5527	173	18.3	2	1
S BRAND	SS-57A	170	18.0	1	1
-----	NEBR. 611	168	18.4	3	5
CROW'S	482	160	17.8	1	3
AVERAGE ALL ENTRIES		182	18.4	1	2
DIF. REQ. FOR SIG.	5%	12	0.4	NS	NS
	25%	7	0.3	NS	1
		4 YEAR AVERAGE			
SUPERIOR	SP 5908	201	17.8	3	2
NORTHRUP KING	PX 9540	193	18.2	1	1
FONTANELLE	5230	191	18.6	1	1
HOEGEMEYER	SX2680	190	18.2	1	1
CROW'S	488	189	18.1	2	3
KALTENBERG	K7500	187	17.9	1	1
CARGILL	7993	186	18.7	2	1
TERRA	TR 1120	185	18.5	1	1
SUPER CROST	5415	184	18.5	1	1
WILSON	1700	181	19.5	1	1
FONTANELLE	4280	179	18.4	1	1
SUPERIOR	SP 5527	176	18.2	2	1
S BRAND	SS-57A	170	17.7	1	1
-----	NEBR. 611	170	18.3	3	4
CROW'S	482	166	17.9	2	2
AVERAGE ALL ENTRIES		183	18.2	1	1
DIF. REQ. FOR SIG.	5%	8	0.4	0.7	NS
	25%	4	0.2	0.4	0.6
		5 YEAR AVERAGE			
CROW'S	488	186	18.1	2	2
FONTANELLE	5230	183	18.9	1	1
NORTHRUP KING	PX 9540	181	18.5	1	1
TERRA	TR 1120	175	18.7	1	1
WILSON	1700	172	19.5	1	1
FONTANELLE	4280	168	18.5	1	1
-----	NEBR. 611	163	18.5	2	3
AVERAGE ALL ENTRIES		175	18.7	1	1
DIF. REQ. FOR SIG.	5%	NS	0.3	NS	NS
	25%	10	0.2	0.4	NS

Table 6A. Southwest Irrigated Corn Test. Red Willow County. 1990.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE %	BUSHEL WEIGHT LBS	PLANTS PER ACRE
SUPERIOR	SP 7291	257	18.9	60.0	31760
BO-JAC	601	253	19.4	58.4	31450
TRIUMPH	1595	238	19.2	60.1	31760
OTTILIE	2480	238	18.9	61.2	32230
SUPERIOR	SP 6022	236	18.9	60.6	32830
CROW'S	670	236	18.7	59.7	31350
FONTANELLE	5230	234	19.2	59.6	30390
MCCURDY	7300	234	19.1	60.9	31630
HORIZON	8115	234	19.0	61.1	31480
PIONEER	3180	231	18.3	57.7	31070
ASGROW	RX807	229	18.8	59.1	32230
WILSON	Exp.1352	229	20.6	58.7	31080
MCCURDY	7477	227	19.3	60.4	32310
SUPERIOR	SP 7290	226	19.7	60.9	31980
JACQUES	8210	225	19.0	59.8	32470
PRAIRIE STREAM	SX555	224	19.2	60.1	31290
NORTHRUP KING	CO8625	224	19.0	61.1	30790
WILSON	1890	224	20.5	59.2	29540
S BRAND	SS-63B	223	18.9	59.7	29680
HORIZON	717	223	19.1	60.8	31180
PRAIRIE STREAM	SX726	223	19.1	58.4	30450
CARGILL	8027	223	19.5	60.0	31170
S BRAND	SS-1180	222	19.6	60.3	30200
PIONEER	3162	222	20.8	61.2	29490
CARGILL	7993	220	19.3	60.6	31770
BO-JAC	X645	220	19.1	59.9	28420
HORIZON	9118	217	19.6	59.7	32710
CROW'S	697	217	18.1	61.5	30470
OTTILIE	2488	217	19.5	60.2	31960
SUPERIOR	SP 5448	217	17.6	59.9	32340
JACQUES	7910	216	18.7	60.2	31250
CARGILL	6227	216	17.3	58.8	29980
DEKALB Plant Gen	DK636	213	19.5	60.1	32610
NORTHRUP KING	N 7816	213	18.7	60.6	31410
PRAIRIE STREAM	SX704	212	17.8	58.3	32270
PRAIRIE STREAM	M7000	210	18.9	59.0	31380
BO-JAC	520	207	17.1	60.1	32190
HORIZON	9116	207	18.9	60.7	29510
VINEYARD	V424w	204	18.8	59.6	29760
AGRIGENE	AG 7450	203	19.7	60.6	31890
PIONEER	3379	200	16.0	61.4	29770
CARGILL	7877	200	17.2	59.2	31570
PIONEER	3379	200	16.0	61.4	29770
HORIZON	7113	200	17.1	60.9	31660
VINEYARD	V58w	196	18.8	60.7	32450
TRIUMPH	1270	195	17.3	60.8	30030
BO-JAC	X585	194	17.4	58.9	29280
ASGROW	RX727	189	18.1	60.7	31670
PIONEER	3362	186	16.9	61.1	28970
-----	N9071	182	16.0	61.9	28670
-----	NEBR. 611	181	17.8	58.8	31150
OTTILIE	2465	181	18.9	60.4	31640
AVERAGE ALL ENTRIES		214	18.7	60.0	31075
DIF. REQ. FOR SIG.	5%	19	0.6	1.8	1562
	25%	11	0.4	1.1	920

Table 6B. Southwest Irrigated Corn Test. Furnas County. 1990. (Hail Damage)

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN OISTURE PCT	BUSHEL WEIGHT LBS	PLANTS PER ACRE
PRAIRIE STREAM	SX704	95	21.6	55.5	31000
WILSON	1890	91	24.3	57.1	25630
JACQUES	8210	90	20.0	59.5	31860
PIONEER	3379	89	20.1	56.6	27960
PIONEER	3379	89	20.1	56.6	27960
FONTANELLE	5230	89	21.1	57.7	27250
BO-JAC	601	86	20.8	55.1	28590
MCCURDY	7477	85	20.1	58.5	28950
NORTHRUP KING	N 7816	85	22.1	55.3	26700
PIONEER	3362	85	17.9	58.3	27690
S BRAND	SS-1180	83	19.5	59.1	26500
HORIZON	9116	80	21.9	56.0	27130
MCCURDY	7300	80	21.6	56.7	28170
SUPERIOR	SP 6022	80	21.1	56.9	29510
SUPERIOR	SP 7290	79	19.7	58.0	30180
OTTILIE	2480	79	22.1	57.4	30010
AGRIGENE	AG 7450	79	19.8	56.8	28100
HORIZON	8115	78	22.5	57.0	27790
PIONEER	3180	77	21.2	57.7	29570
OTTILIE	2488	77	20.3	57.4	29800
BO-JAC	520	76	19.4	58.2	30440
CARGILL	7993	76	20.4	57.3	28000
PRAIRIE STREAM	SX555	76	22.4	56.9	29110
ASGROW	RX807	76	21.3	55.0	30450
TRIUMPH	1270	75	19.5	56.9	28580
SUPERIOR	SP 7291	75	21.4	54.7	29920
JACQUES	7910	75	19.5	56.8	26570
PIONEER	3162	74	22.0	57.3	26680
TRIUMPH	1595	72	21.9	56.1	29240
-----	NEBR. 611	72	21.1	55.4	28560
HORIZON	7113	71	19.2	57.8	28740
BO-JAC	X585	70	20.5	55.7	27110
ASGROW	RX727	70	20.4	56.6	30110
SUPERIOR	SP 5448	69	19.5	56.6	30220
S BRAND	SS-63B	69	22.1	56.2	28220
HORIZON	9118	68	19.5	58.3	28660
WILSON	Exp.1352	68	23.2	55.2	30620
HORIZON	717	68	21.2	56.2	30820
CARGILL	6227	67	19.5	55.5	29160
DEKALB Plant Gen	DK636	65	21.2	57.6	28710
CARGILL	8027	65	22.7	56.3	28930
NORTHRUP KING	CO8625	65	21.8	56.5	28930
CROW'S	670	64	25.6	54.8	29980
-----	N9071	62	16.8	58.1	28160
CARGILL	7877	62	18.2	56.5	28410
BO-JAC	X645	56	24.6	56.2	25970
OTTILIE	2465	56	19.1	57.4	30030
CROW'S	697	55	21.1	57.8	27680
PRAIRIE STREAM	SX726	51	22.4	53.7	29390
PRAIRIE STREAM	M7000	43	24.3	55.8	28570
VINEYARD	V424w	39	24.5	56.2	28500
VINEYARD	V58w	30	20.7	51.8	29770
AVERAGE ALL ENTRIES		71	20.9	56.6	28601
DIF. REQ. FOR SIG.	5%	12	1.3	3.0	3064
	25%	7	0.8	1.8	1804

Table 6C. Southwest Irrigated Corn Tests. 1989 - 1990.

Brand	Hybrid	Grain yield bu/a	Grain moisture %	Broken plants %	Dropped ears %	Bushel weight lb/bu
	2 YEAR AVERAGE					
SUPERIOR	SP 6022	223	16.8	1	0	61.7
ASGROW	RX807	216	16.7	3	0	60.4
WILSON	Exp.1352	214	18.4	3	0	59.6
JACQUES	8210	211	17.6	2	0	60.6
WILSON	1890	210	18.7	1	0	59.5
TRIUMPH	1595	210	16.8	2	1	61.3
CARGILL	7993	209	17.0	0	0	61.2
MCCURDY	7477	209	17.7	1	1	60.9
PIONEER	3180	208	16.6	2	0	59.4
NORTHRUP KING	CO8625	207	16.8	2	0	61.4
CARGILL	8027	206	17.3	2	0	61.3
PRAIRIE STREAM	SX555	206	16.9	1	0	61.4
SUPERIOR	SP 7290	205	17.7	0	0	61.2
S BRAND	SS-63B	204	16.7	0	0	60.8
PRAIRIE STREAM	SX726	204	17.3	2	2	60.0
NORTHRUP KING	N 7816	204	19.7	0	0	61.1
PRAIRIE STREAM	M7000	203	17.1	2	0	60.7
HORIZON	717	200	16.9	2	0	61.9
CARGILL	7877	196	15.5	4	0	59.9
PIONEER	3379	183	14.3	3	0	61.5
-----	NEBR. 611	170	15.9	2	1	59.3
AVERAGE ALL ENTRIES		205	17.0	2	1	60.7
DIF. REQ. FOR SIG.	5%	8	1.0	NA	NA	0.7
	25%	5	0.6	NA	NA	0.4

Table 7A. Southwest Ecofallow Corn. 2 Locations
Dundy and Frontier Counties - 1990

		Yield			1990 Average	
Brand	Hybrid	Average bu/a	Dundy bu/a	Frontier bu/a	Moisture %	Bushel weight
NORTHRUP KING	N 7816	82	54	109	20.3	55.0
PIONEER	3362	75	54	96	17.0	57.8
PIONEER	3379	71	57	84	17.1	58.4
HORIZON	7115	70	48	91	16.5	58.6
HYPERFORMER	HS X9592	70	49	91	20.3	55.8
HYPERFORMER	HS X9492	68	50	86	16.4	57.0
ASGROW	RX746	68	50	86	16.5	58.7
S BRAND	SS-60C	68	51	84	16.1	58.1
HORIZON	8115	68	42	94	19.4	55.6
PIONEER	3475	68	47	89	15.3	57.3
HORIZON	9107	64	48	79	15.2	60.5
HYPERFORMER	HS 59	63	44	82	18.6	55.7
-----	NEBR. 611	63	38	87	17.6	53.8
-----	N9071	63	45	80	15.9	58.2
ASGROW	RX706	63	32	94	18.5	56.6
PRAIRIE STREAM	SX702	60	36	83	17.7	57.3
HYPERFORMER	HS 9773	57	46	67	17.2	57.0
HYPERFORMER	HS X9491	57	46	67	17.2	57.3
HYPERFORMER	HS 9663	56	31	80	19.0	54.6
PIONEER	3417	52	33	70	14.3	59.9
HORIZON	9116	50	29	70	19.1	57.0
DEKALB Plant Gen	DK524	47	31	63	13.2	57.3
-----	N9070	37	19	55	18.4	56.2
AVERAGE ALL ENTRIES		60	43	82	17.3	57.2
DIF. REQ. FOR SIG.	5%	14	18	24	2.9	1.7
	25%	8	11	14	1.7	1.0

Table 8A. West Central Ecofallow Corn Test.
Three Tests: Lincoln, Custer, & Perkins. Counties. 1990.

		Yield				1990 Average			
Brand	Hybrid	Average bu/a	Lincoln bu/a	Custer bu/a	Perkins bu/a	Moisture %	Broken %	Dropped %	Bushel weight
SUPERIOR	SP 5527	67	37	111	52	16.7	1	1	55.5
HORIZON	7115	66	34	95	69	16.2	1	0	54.9
FUNKS G	4490	66	33	106	58	16.5	0	0	54.8
DEKALB Plant Gen	DK524	62	32	107	48	13.5	1	10	55.3
FUNKS G	4485	62	34	103	49	15.9	0	0	54.9
CARGILL	6927	61	37	94	53	16.6	1	0	54.3
S BRAND	SS-60C	61	30	101	53	16.8	0	1	54.2
HAWKEYE	SX61	61	23	111	50	19.5	3	14	52.8
CARGILL	5327	60	24	99	58	14.5	0	10	56.8
CROW'S	498	58	34	98	43	16.6	1	1	54.3
GERMAIN'S	GC5247	57	23	103	46	17.1	1	3	52.2
WILSON	1640	57	34	94	42	16.4	0	2	53.7
HORIZON	9107	54	28	83	51	14.0	2	4	58.6
GERMAIN'S	96007	54	23	93	45	19.1	6	6	54.5
GERMAIN'S	GC6255	53	24	98	37	19.9	5	7	54.0
CROW'S	449	53	22	94	43	15.4	3	2	55.1
PIONEER	3475	53	25	82	53	13.9	1	11	56.0
PIONEER	3569	53	21	92	46	13.9	1	15	56.3
-----	N9071	52	30	90	37	16.3	3	3	54.8
PIONEER	3417	52	20	99	37	14.3	1	3	56.6
MCCURDY	7400	52	24	107	25	18.6	4	14	52.4
GERMAIN'S	86040	50	22	94	35	18.7	2	8	54.2
PIONEER	3732	50	24	86	39	12.2	1	10	52.9
HAWKEYE	SX32	50	19	98	33	18.8	13	4	53.5
GERMAIN'S	96008	48	13	98	34	19.6	24	9	52.4
-----	N9068	48	30	82	33	15.1	0	4	55.7
-----	NEBR. 611	47	20	98	22	19.8	3	6	47.9
NORTHRUP KING	N 6330	45	17	103	14	18.8	3	1	53.2
MCCURDY	7372	44	19	95	17	20.6	2	18	53.3
GERMAIN'S	96001	39	13	87	16	20.4	3	5	52.7
AVERAGE ALL ENTRIES		54	26	97	41	16.4	2.9	5.8	54.8
DIF. REQ. FOR SIG.	5%	13	8	14	20	2.8	NS	NS	1.9
	25%	8	5	8	12	1.6	NS	NS	1.1

Table 8B. West Central Ecofallow Corn Tests. 1986 - 1990

Brand	Hybrid	Grain yield bu/a	Grain moisture %	Broken plants %	Dropped ears %	Bushel weight lb/bu
			2 YEAR AVERAGE			
WILSON	1640	69	15.0	1	2	55.8
SUPERIOR	SP 5527	68	15.4	1	1	56.6
FUNKS G	4485	68	14.5	1	0	56.4
DEKALB Plant Gen	DK524	68	13.0	2	6	56.7
PIONEER	3569	65	13.2	2	9	57.0
PIONEER	3475	63	13.1	1	7	56.7
HAWKEYE	SX32	62	16.8	8	2	54.7
-----	NEBR. 611	50	17.8	13	4	50.1
AVERAGE ALL ENTRIES		64	14.8	4	4	55.5
DIF. REQ. FOR SIG.	5%	NS	0.9	NS	NS	0.3
	25%	7	0.5	NS	2	0.2
			3 YEAR AVERAGE			
WILSON	1640	88	15.1	0	1	55.8
HAWKEYE	SX32	80	16.7	5	1	54.7
PIONEER	3475	76	13.1	1	5	56.7
PIONEER	3569	75	13.0	1	6	57.0
-----	NEBR. 611	70	17.7	9	2	50.1
AVERAGE ALL ENTRIES		78	15.1	3	3	54.8
DIF. REQ. FOR SIG.	5%	NS	0.7	NS	NS	0.8
	25%	5	0.4	NS	2	0.5
			4 YEAR AVERAGE			
WILSON	1640	81	14.3	0	1	55.8
-----	NEBR. 611	67	16.6	7	2	50.1
PIONEER	3569	67	12.7	1	5	57.0
PIONEER	3475	67	12.6	1	5	56.7
AVERAGE ALL ENTRIES		70	14.1	2	3	54.9
DIF. REQ. FOR SIG.	5%	NS	0.6	NS	NS	1.0
	25%	5	0.4	NS	1	0.5
			5 YEAR AVERAGE			
WILSON	1640	83	16.3	0	1	55.8
-----	NEBR. 611	68	19.6	9	1	50.1
AVERAGE ALL ENTRIES		75	17.9	5	1	52.9
DIF. REQ. FOR SIG.	5%	5	1.0	NS	NS	0.4
	25%	3	0.6	3	NS	0.2

Table 9A. West Central Irrigated Corn Test. Two Tests. Lincoln & Chase County. 1990.

		Yield			1990 Average			
Brand	Hybrid	Average bu/a	Lincoln bu/a	Chase bu/a	Moisture %	Broken %	Dropped %	Bushel weight
SUPER CROST	4877	191	195	187	15.5	12	2	54.4
FONTANELLE	4435	187	188	185	15.9	2	2	56.7
NORTHRUP KING	N 6560	183	180	185	17.2	4	2	56.4
BO-JAC	602	182	195	168	17.5	7	2	54.7
BO-JAC	520	180	182	178	15.8	6	1	56.7
BO-JAC	601	179	188	170	18.6	16	6	53.5
JACQUES	8210	177	196	158	18.3	5	1	54.9
OTTILIE	2465	176	168	183	17.8	4	1	55.7
HORIZON	7113	175	174	176	15.8	7	5	55.7
S BRAND	SS-63B	175	188	162	17.9	5	1	56.0
WILSON	1640	175	178	172	17.2	7	0	55.0
DEKALB Plant Gen	DK636	173	179	167	17.3	9	2	55.7
PIONEER	3362	173	178	167	15.3	6	1	57.4
SUPER CROST	5415	173	172	173	17.4	6	1	55.9
OTTILIE	2445	172	174	170	15.4	5	2	56.0
TRI VALLEY	116	171	183	158	18.2	3	1	55.4
PIONEER	3467	171	176	166	15.0	2	1	59.7
NORTHRUP KING	N 6330	170	173	166	15.7	6	2	55.9
GARRISON SG	SG-8515	170	164	175	17.4	5	2	57.0
S BRAND	CB-1140	170	183	157	16.4	5	1	55.3
SUPERIOR	SP 5448	170	174	166	15.9	5	2	55.7
JACQUES	7820	170	169	170	17.4	5	2	55.9
ASGROW	RX727	169	185	153	17.5	8	3	55.5
TRIUMPH	1270	169	176	161	15.4	3	1	55.4
CARGILL	6927	169	168	169	17.7	1	1	55.1
FUNKS G	4450	169	167	170	15.3	8	2	55.4
CROW'S	488	169	176	162	14.6	9	2	56.1
HORIZON	7115	168	178	157	18.0	3	1	56.9
WILSON	1890	168	185	151	20.8	5	1	53.4
TRIUMPH	1265	167	170	164	16.0	7	3	55.3
JACQUES	7910	166	187	145	18.4	10	2	54.0
PIONEER	3417	166	162	170	14.7	3	3	58.6
SUPERIOR	SP 5908	166	175	157	15.1	15	2	54.7
ASGROW	RX706	165	172	157	15.7	2	3	55.3
FUNKS G	4393	163	159	167	13.7	3	1	57.5
BO-JAC	X585	160	165	154	16.2	7	7	56.3
FONTANELLE	X1220	158	151	164	15.7	6	4	55.2
FUNKS G	4472	157	163	151	16.6	3	1	55.4
CARGILL	6227	156	170	142	15.6	7	3	55.4
CROW'S	670	154	188	119	18.3	9	10	53.5
CROW'S	449	154	170	137	15.0	3	0	56.8
-----	NEBR. 61	154	165	143	17.4	17	3	52.6
CARGILL	5327	153	152	154	13.8	3	4	57.6
-----	N9071	153	151	155	15.4	8	6	57.0
SUPERIOR	SP 5691	153	152	154	15.7	11	8	55.8
CROW'S	482	151	172	129	15.2	16	5	55.0
FUNKS G	4385	149	149	149	13.7	2	1	57.3
HORIZON	9107	145	150	140	15.0	7	1	59.3
HORIZON	6101	143	135	151	13.7	4	1	59.7
-----	N9068	136	134	138	13.4	3	1	57.1
PIONEER	3475	133	116	150	13.7	1	3	58.0
GARRISON SG	SG-8215	132	153	110	18.3	6	3	53.7
AVERAGE ALL ENTRIES		164	170	159	16.5	6	2	55.9
DIF. REQ. FOR SIG.	5%	26	26	22	1.2	NS	NS	NS
	25%	15	15	13	0.7	NS	NS	NS

Table 9B. West Central Irrigated Corn Tests. 1986 - 1990.

Brand	Hybrid	Grain yield bu/a	Grain moisture %	Broken plants %	Dropped ears %	Bushel weight lb/bu
			2 YEAR AVERAGE			
SUPER CROST	4877	178	14.1	12	1	54.2
SUPERIOR	SP 5908	172	13.9	12	1	55.4
FONTANELLE	4435	172	14.3	3	2	56.3
SUPER CROST	5415	170	16.0	4	1	56.2
JACQUES	8210	169	17.1	5	1	55.1
HORIZON	7113	167	14.3	6	3	55.6
CROW'S	488	167	13.5	8	1	55.7
PIONEER	3362	166	13.5	7	1	57.4
SUPERIOR	SP 5448	166	14.4	5	2	56.0
BO-JAC	601	165	16.7	10	4	54.6
JACQUES	7820	164	15.6	5	1	55.9
ASGROW	RX706	164	14.3	3	2	55.8
NORTHRUP KING	N 6560	164	15.7	7	1	57.2
FUNKS G	4393	162	12.5	5	1	57.9
WILSON	1890	162	19.1	7	1	52.8
S BRAND	CB-1140	161	14.6	5	1	55.3
PIONEER	3467	159	13.5	3	1	58.0
CROW'S	449	152	14.7	4	0	55.8
HORIZON	7115	151	15.9	6	1	57.2
FUNKS G	4385	148	12.3	4	1	57.4
-----	NEBR. 611	148	15.8	12	2	52.3
PIONEER	3475	136	12.5	3	2	58.8
AVERAGE ALL ENTRIES		162	14.7	6	1	55.9
DIF. REQ. FOR SIG.	5%	10	0.6	NS	NS	0.9
	25%	5	0.3	NS	NS	0.5
			3 YEAR AVERAGE			
SUPER CROST	4877	190	16.1	9	1	54.2
JACQUES	8210	180	19.6	4	1	55.1
JACQUES	7820	180	17.4	4	1	55.9
SUPER CROST	5415	175	17.9	4	0	56.2
CROW'S	488	169	15.2	7	1	55.7
HORIZON	7113	165	15.9	5	2	55.6
-----	NEBR. 611	156	18.0	11	1	52.3
PIONEER	3475	132	14.2	3	1	58.8
AVERAGE ALL ENTRIES		168	16.8	6	1	55.5
DIF. REQ. FOR SIG.	5%	13	0.6	2	NS	0.5
	25%	7	0.3	1	NS	0.3
			4 YEAR AVERAGE			
JACQUES	8210	191	18.5	4	1	55.1
JACQUES	7820	190	16.4	4	1	55.9
SUPER CROST	5415	184	16.6	4	0	56.2
CROW'S	488	178	14.5	6	1	55.7
-----	NEBR. 611	169	16.7	10	1	52.3
PIONEER	3475	138	13.5	2	1	58.8
AVERAGE ALL ENTRIES		175	16.0	5	1	55.7
DIF. REQ. FOR SIG.	5%	9	0.6	2	NS	0.6
	25%	5	0.3	1	NS	0.3
			5 YEAR AVERAGE			
JACQUES	7820	190	16.4	4	1	55.9
CROW'S	488	183	14.7	7	1	55.7
-----	NEBR. 611	172	16.8	10	2	52.3
AVERAGE ALL ENTRIES		182	16.0	7	1	54.6
DIF. REQ. FOR SIG.	5%	NS	0.5	3	NS	0.4
	25%	4	0.3	1	NS	0.2

Table 10A. Central Irrigated Corn Test. Custer & Dawson Co. 1990

		Yield			1990 Average			
Brand	Hybrid	Average bu/a	Custer bu/a	Dawson bu/a	Moisture %	Broken %	Dropped %	Bushel weight
HORIZON	7115	210	193	226	21.1	2	1	57.3
HAWKEYE	SX61	209	171	246	19.5	5	0	58.5
BO-JAC	601	208	178	237	22.6	4	1	56.4
JACOBSEN	JS48	206	169	243	22.2	4	0	54.2
SUPERIOR	SP 5448	206	164	247	20.1	4	0	57.8
HORIZON	7113	205	176	233	19.8	3	0	58.6
CURRY	4483	205	165	244	22.4	4	1	55.7
HAWKEYE	SX32	204	170	238	23.0	5	0	56.0
RENZE	6520	203	173	233	23.5	5	1	55.7
PIONEER	3417	202	186	217	19.3	6	0	58.4
ASGROW	RX746	202	185	219	21.5	4	0	58.4
BO-JAC	520	202	157	246	20.3	3	1	57.8
AGRIGENE	AG 7400	201	167	234	22.1	4	0	56.7
RENZE	6412	200	157	242	21.3	6	0	56.9
PIONEER	3467	200	178	221	19.0	4	0	59.6
S BRAND	CB-1140	199	178	219	20.6	3	2	56.5
CURRY	1492	199	161	236	22.1	0	0	56.7
OTTILIE	2465	198	182	214	21.7	1	0	57.4
BO-JAC	602	197	162	232	21.7	3	0	58.2
DYNA GRO	5550	197	158	235	21.3	4	1	58.1
RENZE	6338	197	168	225	20.6	6	1	58.1
CARGILL	7993	196	162	229	21.4	6	2	58.0
JACOBSEN	JS45	196	178	214	21.4	3	0	57.2
FUNKS G	4450	195	159	231	20.1	3	0	58.1
AGRIGENE	AG 7450	195	164	225	23.2	7	1	55.9
S BRAND	SS-63B	195	159	230	21.8	3	0	57.6
TRI VALLEY	114	195	181	208	21.5	4	0	57.3
OTTILIE	2445	195	164	226	20.2	7	1	57.9
WILSON	1640	195	178	211	20.7	3	0	58.3
FONTANELLE	X1220	194	175	213	21.4	2	0	57.0
PIONEER	3362	194	177	211	18.8	3	1	58.8
NORTHRUP KING	N 6330	193	165	221	20.2	6	1	57.7
CARGILL	6227	193	168	217	20.6	1	0	58.0
DYNA GRO	5470	193	156	230	20.0	1	0	59.0
SUPERIOR	SP 5527	193	178	208	22.6	2	0	56.8
JACOBSEN	JS55	193	169	216	21.9	3	0	57.3
BO-JAC	X585	193	152	234	21.0	3	1	56.2
NC+	4616	192	159	225	20.1	2	1	52.9
CARGILL	6927	191	185	197	21.0	4	0	57.9
WILSON	1700	190	157	222	21.8	4	1	57.7
CROW'S	488	190	176	203	19.3	18	0	56.0
FUNKS G	4385	190	166	213	17.8	1	0	59.3
FONTANELLE	4435	189	157	221	20.3	3	0	57.0
CURRY	4475	189	153	224	19.2	3	2	55.7
CROW'S	449	188	155	220	19.8	1	1	58.1
CROW'S	482	187	161	212	20.5	12	1	56.3
DYNA GRO	5671	186	149	222	22.0	3	0	56.5
ASGROW	RX626	181	168	194	18.5	1	1	58.3
CROW'S	670	178	153	203	23.4	11	2	53.4
FUNKS G	4393	178	159	197	17.8	3	0	59.8
HORIZON	9107	178	165	190	18.6	5	0	60.5
PIONEER	3475	174	160	188	17.9	2	0	60.6
FUNKS G	4472	174	152	195	21.1	2	0	57.8
-----	NEBR. 61	174	139	209	21.9	12	0	54.3
HORIZON	4111	171	164	178	17.3	3	0	61.4
-----	N9071	167	128	205	19.3	3	2	57.9
-----	N9068	154	139	168	16.7	3	0	59.2
AVERAGE ALL ENTRIES		189	165	219	20.6	4	0.4	57.3
DIF. REQ. FOR SIG.	5%	NS	16	20	1.3	NS	NS	2.7
	25%	NS	10	12	0.8	NS	NS	1.6

Table 11A. Irrigated Corn Test. Brown County. 1990

Brand	Hybrid	Grain yield bu/a	Grain moisture %	Bushel weight lb/bu	Plants per acre
SUPERIOR	SP 5448	206	26.4	54.6	35450
GERMAIN'S	850205	206	27.3	54.9	33430
SUPERIOR	SP 5527	204	26.4	55.6	36330
NC+	4275	198	25.3	54.4	36600
JACQUES	7770	198	26.4	55.2	33910
JACQUES	6770	197	26.1	55.1	31840
JACQUES	7700	196	25.8	55.6	27470
RENZE	6338	194	26.5	54.8	35480
PIONEER	3417	194	25.7	54.4	30100
CROW'S	498	192	26.2	55.9	32480
CURRY	1458	192	26.3	55.0	31910
AGRIGENE	AG 6450	192	26.6	53.9	32750
AGRIGENE	AG 4500	192	23.8	54.3	34170
WILSON	1640	191	26.5	54.1	30620
HOEGEMEYER	SX2628	191	26.6	55.4	34930
HOEGEMEYER	SX2632	190	26.3	55.0	32450
OTTILIE	2445	190	27.0	54.3	35530
NORTHRUP KING	N 6560	188	26.2	55.6	33840
NORTHRUP KING	N 6330	187	26.3	55.0	36840
PIONEER	3578	185	24.0	54.1	28230
GERMAIN'S	850185	185	26.7	53.2	34380
RENZE	6520	185	27.4	55.7	31220
DEKALB Plant Gen	DK550	184	22.1	55.1	34520
RENZE	6341	184	26.3	53.5	37230
PIONEER	3503	182	24.6	59.1	29930
FRYE HYBRIDS	FX-3121	179	26.3	55.2	37800
PIONEER	3475	179	22.3	56.4	26840
NC+	3813	179	25.1	54.0	34010
S BRAND	SS-57A	176	27.3	55.4	28330
-----	N9071	175	25.2	56.3	29010
CARGILL	5327	173	24.3	55.2	34220
SUPERIOR	SP 5291	173	25.8	55.0	31560
CROW'S	449	173	25.8	54.6	34480
SUPERIOR	SP 3459	171	20.6	56.6	32350
NC+	2661	171	22.2	55.4	33790
NORTHRUP KING	N 3624	169	17.6	56.1	35380
GERMAIN'S	855515	168	21.9	54.7	32330
CARGILL	5157	168	23.4	56.9	32520
DEKALB Plant Gen	DK535	166	22.2	54.5	33790
FONTANELLE	4140	166	22.2	58.0	35230
HORIZON	6101	162	21.4	56.6	31180
FONTANELLE	4030	161	20.6	57.0	35380
OTTILIE	2430	160	22.7	56.7	35940
S BRAND	SS-40	160	20.6	57.1	33390
CURRY	1447	159	22.9	58.5	35090
CROW'S	670	159	28.4	53.3	34400
CARGILL	3427	159	22.3	54.6	31640
FRYE HYBRIDS	FX-3040	158	19.6	51.5	34310
FRYE HYBRIDS	FX-3052	158	22.7	59.6	33900
CARGILL	4327	156	20.7	55.3	35050
HORIZON	9107	156	23.9	56.7	35210
JACQUES	X8116	151	27.4	52.8	23010
GERMAIN'S	842255	151	19.1	56.9	34710
JACQUES	7710	148	27.1	52.8	26080
HORIZON	8095	145	18.1	58.6	32560
WILSON	DEMAND 110	142	26.1	56.2	31460
-----	N9068	142	20.2	56.6	29470
AVERAGE ALL ENTRIES		176	24.3	55.4	32920
DIF. REQ. FOR SIG.	5%	17	1.4	2.5	2860
	25%	10	0.8	1.5	1690

Table 11B. North Central Irrigated Corn. 1989 - 1990

Brand	Hybrid	Grain yield bu/a	Grain moisture %	Broken plants %	Dropped ears %	Bushel weight lb/bu
			2 YEAR AVERAGE			
SUPERIOR	SP 5448	183	20.5	1	0	55.8
JACQUES	7770	180	21.2	1	0	56.0
SUPERIOR	SP 5527	178	22.3	1	0	55.7
WILSON	1640	177	21.2	0	0	54.9
NORTHRUP KING	N 6560	176	21.2	0	0	56.5
RENZE	6341	172	21.3	0	0	54.3
AGRIGENE	AG 4500	172	18.4	0	0	55.6
CROW'S	449	169	21.1	0	0	54.6
PIONEER	3475	164	18.2	3	0	57.7
S BRAND	SS-57A	163	21.1	0	0	55.7
FONTANELLE	4030	163	17.2	0	0	58.1
PIONEER	3578	162	18.4	2	0	55.5
CARGILL	4327	152	16.5	1	0	56.2
AVERAGE ALL ENTRIES		169	19.8	1	0	55.9
DIF. REQ. FOR SIG.	5%	11	1.1	NA	NA	0.6
	25%	6	0.6	NA	NA	0.3

Table 12A. Southwest Central Irrigated Corn Test.
Keith County. 1990. (Considerable hail damage)

Brand	Hybrid		Grain yield bu/a	Grain moisture %	Bushel weight lb/bu	Plants per acre
PIONEER	3475		167	23.4	52.7	26780
PIONEER	3714		164	19.5	58.0	23060
OTTILIE	2465		159	22.7	53.0	25230
WILSON	1640		158	18.7	56.0	26960
PIONEER	3569		156	23.0	53.8	24400
DEKALB Plant Gen	DK535		152	21.9	53.5	27570
-----	N9071		152	21.3	54.5	24100
OTTILIE	2445		152	20.9	54.3	25700
AGRIGENE	AG 5950		150	22.5	54.3	24450
WILSON	DEMAND 110		147	23.7	53.0	25210
PIONEER	3578		145	19.2	57.3	23240
DEKALB Plant Gen	DK547		145	18.6	54.9	26650
SUPERIOR	SP 5691		141	17.8	57.6	23100
SUPERIOR	SP 5448		136	18.3	57.4	19360
SUPERIOR	SP 3459		131	18.9	56.1	18520
-----	N9068		113	19.1	56.9	21350
AVERAGE ALL ENTRIES			148	21.0	54.9	24020
DIF. REQ. FOR SIG.		5%	21	1.7	2.1	3710
		25%	12	1.0	1.2	2160

Table 13A. West Irrigated Corn Test.
Scotts Bluff & Box Butte Counties. 1990.

		Yield			1990 Average			
Brand	Hybrid	Average bu/a	Scts Blf bu/a	Box Bt bu/a	Moisture %	Broken %	Bushel weight	Ear inches
PIONEER	3751	167	194	140	14.6	1	56.0	31
CARGILL	3427	166	201	131	14.7	1	55.0	32
CARGILL	3627	164	194	134	16.5	1	56.3	38
PIONEER	3714	163	200	125	16.6	1	57.3	35
GARRISON SG	SG-5757	160	208	111	17.5	1	55.3	32
SIGCO	1099	160	188	132	16.8	0	56.1	35
AGRIGENE	AG 4500	159	225	92	20.1	3	53.9	38
DEKALB PLANT GENE	DK485	159	212	105	16.4	0	54.0	31
NC+	1498	158	197	119	15.7	1	55.4	24
ASGROW	RX469	158	189	126	17.4	0	55.2	31
PIONEER	3779	158	189	126	14.3	0	57.5	34
NC+	2190	156	205	106	16.2	1	55.3	34
NORTHRUP KING	N 4545	154	187	121	19.6	0	53.5	39
CARGILL	3477	153	179	127	16.4	1	56.5	35
HORIZON	6101	152	203	101	17.8	4	56.3	34
NORTHRUP KING	N 4350	149	203	94	17.1	6	55.0	30
FUNKS G	4309	146	199	92	18.4	2	52.8	38
FUNKS G	4385	145	195	95	22.8	3	53.3	32
JACQUES	6770	144	207	80	21.4	2	53.6	39
MCCURDY	6222	144	217	70	31.5	2	49.3	37
HORIZON	9107	143	174	112	19.3	3	57.4	28
FUNKS G	4299	143	196	89	16.8	5	57.3	34
NORTHRUP KING	N 3624	143	189	96	18.3	0	53.2	30
-----	N9071	141	193	88	26.0	5	52.0	38
WILSON	1170	140	167	113	16.7	1	58.0	34
FUNKS G	4260	139	166	111	15.8	0	55.8	33
SIGCO	1095	139	164	113	14.1	1	57.8	34
PIONEER	3921	138	151	124	14.0	1	59.6	37
-----	N9068	137	183	91	20.0	1	54.4	37
HORIZON	8095	136	183	89	14.9	5	57.4	32
AGRIGENE	AG 4250	136	181	90	21.1	0	55.3	32
GARRISON SG	SG-5509	135	163	107	14.0	0	58.3	37
SIGCO	1190	134	167	101	13.7	1	57.8	34
JACOBSEN	JS17	130	164	96	19.1	1	57.6	39
JACQUES	X8116	126	166	85	32.4	1	46.8	37
AVERAGE ALL ENTRIES		148	186	107	18.2	0.3	55.3	34
DIF. REQ. FOR SIG.	5%	NS	48	22	5.3	NS	1.9	NS
	25%	NS	28	13	3.1	NS	1.1	NS

Table 13B. West Irrigated Corn Tests. 1986 - 1990

Brand	Hybrid	Grain yield bu/a	Grain moisture %	Broken plants %	Bushel weight lbs/bu	Ear height inches
			2 YEAR AVERAGE			
PIONEER	3751	151	13.4	2	55.4	31
AGRIGENE	AG 4500	147	16.7	3	53.6	38
ASGROW	RX469	146	15.4	3	55.2	31
NORTHRUP KING	N 3624	143	15.2	1	53.2	30
NORTHRUP KING	N 4545	143	16.4	2	53.2	39
PIONEER	3714	142	15.3	2	56.2	35
PIONEER	3779	141	14.3	0	56.2	34
HORIZON	6101	140	15.5	5	56.0	34
NORTHRUP KING	N 4350	139	15.1	4	54.3	30
FUNKS G	4385	139	18.9	3	53.1	32
DEKALB Plant Gen	DK485	137	14.7	1	53.2	31
JACOBSEN	JS17	136	16.9	2	56.8	39
FUNKS G	4309	133	15.7	3	52.3	38
HORIZON	8095	128	13.5	6	56.5	32
AVERAGE ALL ENTRIES		140	15.5	2	54.6	34
DIF. REQ. FOR SIG.	5%	NS	NS	NS	0.6	NS
	25%	NS	0.8	1	0.3	NS
			3 YEAR AVERAGE			
NORTHRUP KING	N 3624	159	16.1	1	54.4	
PIONEER	3779	156	15.4	0	57.2	
NORTHRUP KING	N 4350	156	17.2	4	55.3	
FUNKS G	4309	155	17.9	3	53.7	
HORIZON	6101	151	18.2	5	56.5	
AVERAGE ALL ENTRIES		155	17.0	2	55.4	
DIF. REQ. FOR SIG.	5%	NS	NS	NS	0.8	
	25%	NS	NS	1	0.4	
			4 YEAR AVERAGE			
PIONEER	3779	153	15.8	0	57.3	
HORIZON	6101	149	18.5	4	56.4	
AVERAGE ALL ENTRIES		151	17.2	2	56.8	
DIF. REQ. FOR SIG.	5%	NS	NS	NS	NS	
	25%	NS	0.8	1	0.4	
			5 YEAR AVERAGE			
HORIZON	6101	155	19.5	4	55.5	

Table 14A. Early Ecofallow Corn Test. Lincoln County. 1990.

Brand	Hybrid	Grain yield bu/a	Grain moisture %	Broken plants %	Dropped ear %	Plants per acre
HORIZON	8095	38	9.0	0	1	13250
HORIZON	9107	35	9.4	1	3	13070
NORTHRUP KING	N 4350	35	9.3	0	5	13430
PIONEER	3921	34	8.8	0	6	13250
GARRISON SG	SG-5757	32	9.2	1	4	13070
DEKALB Plant Gen	DK524	30	9.2	2	7	13070
PIONEER	3751	30	9.1	1	19	13160
PIONEER	3732	30	9.3	0	13	13250
GARRISON SG	SG-5509	28	9.4	1	10	13340
DEKALB Plant Gen	DK550	27	9.4	0	13	13430
PIONEER	3779	24	9.6	0	30	13250
AVERAGE ALL ENTRIES		31	9.3	0.5	10	13235
DIF. REQ. FOR SIG.	5%	7	0.7	1.5	6	NS
	25%	4	0.4	0.9	4	NS

Table 14B. Early Ecofallow Corn. 1986 - 1990.

Brand	Hybrid	Grain yield bu/a	Grain moisture %	Broken plants %	Dropped ears %	Bushel weight lbs/bu
			2 YEAR AVERAGE			
NORTHRUP KING	N 4350	37	15.3	2	3	50.1
PIONEER	3779	25	13.3	4	17	55.4
AVERAGE ALL ENTRIES		31	14.2	3	10	52.8
DIF. REQ. FOR SIG.	5%	NS	NS	NS	NS	NS
	25%	2	NS	NS	NS	NS
			3 YEAR AVERAGE			
NORTHRUP KING	N 4350	52	14.8	1	2	52.8
PIONEER	3779	44	14.5	2	9	57.8
AVERAGE ALL ENTRIES		47	14.6	2	6	55.8
DIF. REQ. FOR SIG.	5%	NS	NS	NS	NS	0.6
	25%	5	NS	NS	NS	0.2

Table 15A. Clay County White Corn Test. 1990

Brand	Hybrid	Grain yield bu/a	Grain H2O %	Root lodging %	Broken plants %	Drop'd ears %	Ear height inches	Plants per acre
Yellow Check	Pioneer 3377	208.2	21.1	0.0	1.2	1.7	41.3	26977
Hoegemeyer	1142W	195.4	30.9	0.0	0.4	0.4	44.0	27180
Taylor Evans	T-E EXP 9007W	186.8	30.4	0.0	0.0	0.4	42.7	25765
Noble Bear	NBX720W	180.5	28.4	1.3	2.3	1.3	45.3	24901
Sturdy Grow	87AE284	178.9	28.8	1.7	0.8	0.4	36.3	27764
Yellow Check	Hoegemeyer2680	178.0	22.4	0.0	1.7	0.8	39.0	27263
Whisnand	92AW	177.2	30.3	0.0	0.9	0.4	40.3	27046
IFSI	90-I	177.1	22.6	6.1	3.2	1.7	46.0	25367
Noble Bear	NB710W	173.0	23.4	4.9	5.3	1.3	37.7	25023
Vineyard	Vx458W	172.1	24.1	1.7	1.2	0.4	41.3	27657
Whisnand	73W	169.6	30.4	1.6	0.4	1.6	46.3	26575
Vineyard	V427W	169.6	26.8	0.0	3.8	0.9	38.3	26261
Vineyard	V424W	168.9	25.0	0.0	2.2	0.0	45.0	26108
Whisnand	73AW	165.5	29.0	2.0	0.8	1.0	41.3	25633
Sturdy Grow	87BE130	165.0	26.9	1.9	0.4	0.4	37.3	29294
Sturdy Grow	SG909W	163.2	25.6	0.0	1.3	0.4	43.0	27006
Noble Bear	NBX563W	161.7	21.2	0.4	4.7	2.6	34.3	26141
Yellow Check	B73 x Mo17	161.7	24.4	3.3	1.7	2.1	40.7	26127
Prairie	PPI90-1	160.0	26.1	1.7	1.3	1.7	41.7	26948
Vineyard	V423W	158.2	29.9	2.1	2.5	1.2	38.0	26221
Hoegemeyer	EXP3	158.2	30.6	1.9	3.9	1.6	43.0	23037
Pioneer Brand	3372W	157.1	23.6	0.0	0.9	0.0	36.3	24844
DeKalb	DK703W	156.7	26.1	8.5	3.5	3.1	46.0	24944
Whisnand	72W	152.0	27.7	4.2	4.9	0.0	40.7	27097
Whisnand	56W	151.6	27.5	0.0	3.8	6.2	44.0	27341
Vineyard	V452W	149.8	25.4	4.1	0.4	0.0	40.7	26151
Noble Bear	NBX739W	149.2	27.4	0.0	1.3	0.4	22.7	25009
Vineyard	V425W	148.9	23.4	1.2	0.9	1.8	38.7	26008
Noble Bear	NB747W	147.9	25.3	0.9	4.1	0.5	31.7	24198
Whisnand	51W	147.5	23.3	0.0	0.9	2.2	43.7	25604
Pioneer Brand	3463W	146.1	21.1	0.0	0.4	1.9	41.0	23555
Taylor Evans	T-E 1166W	145.6	30.4	3.4	2.2	1.3	46.3	26022
IFSI	84-2	144.2	23.1	1.7	2.1	1.2	43.7	27720
Zimmerman	Z61W	142.5	27.4	0.0	0.9	0.5	46.7	25132
Noble Bear	NB571W	141.4	21.4	0.0	6.4	1.3	30.3	26302
NC+	5313W	137.7	21.7	0.0	0.9	2.7	39.7	24169
Sturdy Grow	SG778W	137.2	26.3	0.0	0.9	2.5	35.0	27373
Sturdy Grow	SG793W	137.1	25.4	0.0	0.0	1.6	38.0	28719
Sturdy Grow	85AE141	136.5	27.2	2.0	2.1	3.0	38.7	26165
Zimmerman	Z17W	132.9	28.6	0.0	2.5	0.8	48.0	26962
Prairie	PPI90-2	128.3	22.7	0.4	3.2	3.2	34.7	28063
Prairie	PPI90-3	116.3	22.9	1.9	3.2	0.4	34.3	28981
AVERAGE ALL ENTRIES		158.0	25.9	1.4	2.0	1.4	40.1	26301
DIF. REQ. FOR SIG.	5%	21.6	2.3	3.5	3.6	2.7	4.3	2095
	25%	12.6	1.4	2.1	2.1	1.6	2.5	1220

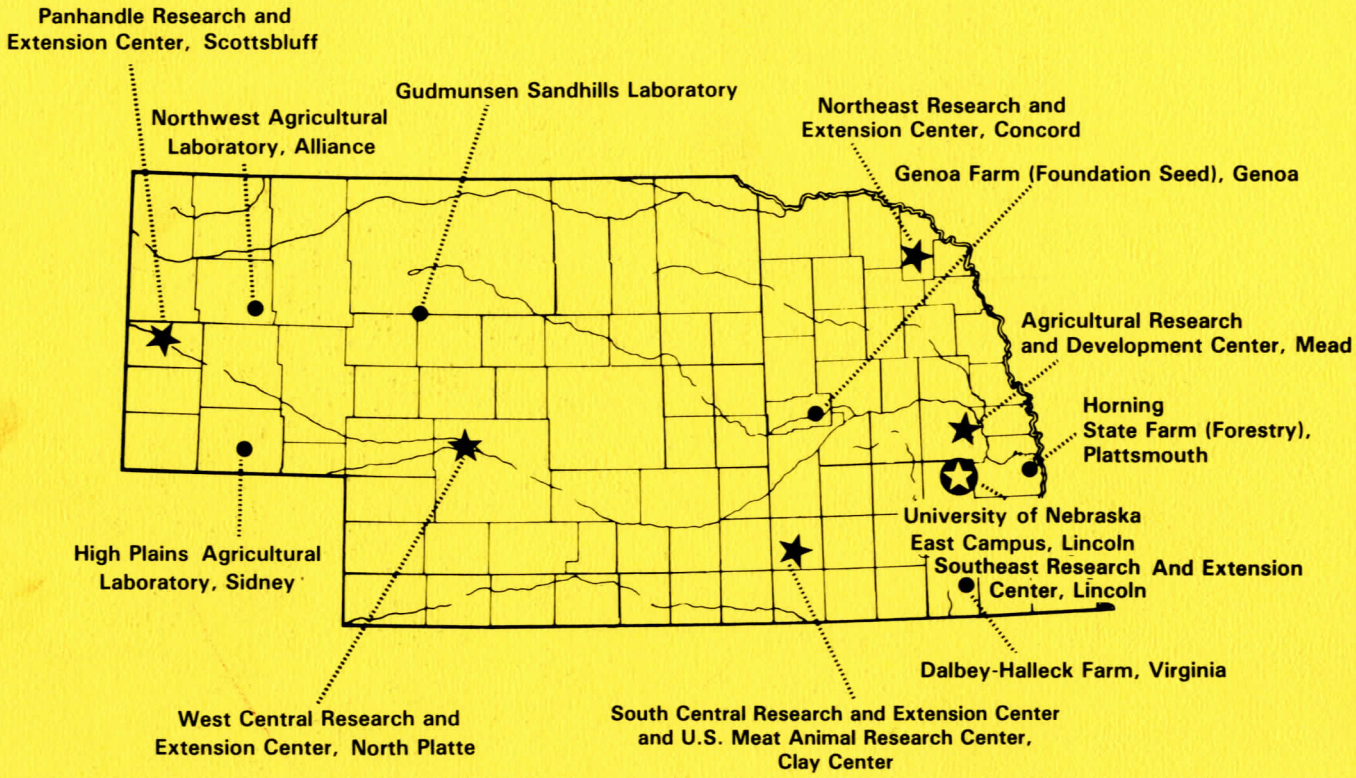
Table 15B. Early White Food Corn Tests. 1988 - 1990. Clay County.

Brand	Hybrid	Grain yield bu/a	Grain moisture %	Root lodged %	Broken plants %	Dropped ears %	Ear height inches	Plants per acre
				2 YEAR AVERAGE				
Yellow Check	Pioneer 3377	206.2	17.8	3.3	5.4	1.2	43.3	27141
Yellow Check	Hoegemeyer 2680	185.7	19.0	0.0	4.8	1.6	43.0	26763
Noble Bear	NB710W	184.4	18.7	3.1	6.2	1.8	40.7	24617
Vineyard	V424W	182.0	20.1	0.0	5.7	3.0	47.5	27059
Yellow Check	B73 x Mo17	178.1	19.7	2.7	3.2	3.9	44.3	26533
Sturdy Grow	87BE130	176.0	21.1	1.0	3.9	1.4	40.2	28541
Vineyard	V423W	171.7	23.1	1.0	5.8	2.1	42.3	27514
Noble Bear	NBX563W	168.8	17.8	0.2	4.8	3.1	34.7	26829
Noble Bear	NB571W	166.9	17.9	0.0	4.5	1.1	34.3	26044
Vineyard	V427W	165.4	21.0	0.0	4.6	2.6	40.8	26964
Sturdy Grow	SG909W	164.9	20.4	4.2	5.5	2.7	47.0	27285
Whisnand	73W	164.5	24.5	4.2	6.5	5.0	49.8	26693
Vineyard	V425W	164.1	19.2	2.7	5.1	2.6	42.3	26766
Pioneer Brand	3372W	162.5	19.1	0.0	1.4	0.7	41.5	25371
DeKalb	DK703W	162.4	21.2	7.7	3.9	3.2	46.3	25515
Noble Bear	NB747W	159.2	20.4	0.5	6.1	0.9	35.8	25719
Whisnand	73AW	158.3	23.5	2.6	5.1	4.0	45.5	25322
Whisnand	51W	155.2	19.2	1.3	2.0	4.1	46.8	25964
Whisnand	72W	152.8	21.3	2.9	9.5	5.5	43.5	26960
Pioneer Brand	3463W	151.1	17.8	0.0	0.6	1.5	41.2	22666
IFSI	84-2	149.9	19.0	7.6	4.1	4.9	45.7	27305
Sturdy Grow	SG778W	145.7	20.6	6.4	2.3	1.6	38.3	25015
Whisnand	56W	143.6	21.5	0.2	8.7	8.8	46.5	27141
AVERAGE ALL ENTIES		166.0	20.2	2.2	4.8	2.9	42.7	26336
DIF. REQ. FOR SIG.	5%	17.3	1.1	4.4	3.0	2.5	3.3	1462
	25%	10.1	0.6	2.6	1.7	1.5	1.9	852
				3 YEAR AVERAGE				
Yellow Check	B73 x Mo17	185.1	18.0	2.6	5.7		45.8	26697
Noble Bear	NB710W	179.9	17.2	3.0	9.1		42.2	25902
Vineyard	V424W	174.4	18.4	0.9	7.0		48.6	27244
Noble Bear	NBX563W	171.6	16.3	0.4	5.4		35.4	27324
Noble Bear	NB747W	166.9	18.6	1.1	6.9		36.9	26149
Vineyard	V423W	166.2	20.7	2.0	7.0		43.3	29238
Noble Bear	NB571W	166.0	16.4	0.2	4.4		34.4	26053
Whisnand	73W	165.3	22.5	4.3	6.2		50.3	27184
Sturdy Grow	SG909W	155.3	18.4	3.7	7.5		49.0	26903
Vineyard	V425W	152.7	17.7	3.7	6.5		43.0	27624
Whisnand	72W	143.2	19.8	2.6	13.9		42.1	26670
Whisnand	51W	142.1	17.3	1.9	5.5		46.4	26671
Sturdy Grow	SG778W	141.6	18.5	6.1	5.4		39.4	25004
IFSI	84-2	140.8	17.1	6.6	6.9		45.3	27623
AVERAGE ALL ENTRIES		160.8	18.4	2.8	7.0		43.0	26878
DIF. REQ. FOR SIG.	5%	14.9	0.7	3.5	2.9		2.4	1467
	25%	8.7	0.4	2.0	1.7		1.4	854

Table 16. Lincoln County Hailed Corn Study - 1990

Brand	Hybrid	Grain yield bu/a	Grain moisture %	Broken plants %	Dropped ears %	Bushel weight lb/bu	Plants per acre
PIONEER	3790	66	13.2	15	7	51.0	26230
PIONEER	3475	62	13.1	9	4	48.5	26230
HORIZON	8095	57	13.2	24	5	48.5	26040
PIONEER	3732	55	13.5	18	3	47.2	24880
AVERAGE ALL ENTRIES		60	13.2	16	5	48.8	25850
DIF. REQ. FOR SIG.	5%	NS	0.4	7	NS	1.1	NS
	25%	5	0.3	4	NS	0.6	NS

AGRICULTURAL RESEARCH AND EXTENSION FOR ALL OF NEBRASKA



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The Cooperative Extension Service transmits data and provides interpretation to users through Extension Agents and Specialists. Extension Agents may be contacted through 85 local Extension offices for additional information 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 less than 15 to more than 35 inches per year, and the soil types vary from sands to heavy clays. The research and extension programs thus are broad in subject matter and geography, resulting in the need for various centers, satellite locations, and local offices.