

1991

EC91-105-A Nebraska Corn Hybrid Tests 1991

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NEBRASKA CORN HYBRID TESTS

1991

UNIVERSITY OF NEBRASKA

FEB 28 1992



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



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EXTENSION CIRCULAR 91-105

NEBRASKA CORN HYBRID TESTS

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We also want to acknowledge the efforts made by our research technicians and technologists. Glen Frickel, Bob Hendrickson, George Hoffmeister, Jr., Scott A. Ferguson, John A. Eis, Patrick Tenopir, Ray Brentlinger, Bobby Skates, Tom O'Hare, and Don Thrallkill are to be commended for their efforts.

We acknowledge the State Climate Program at the University of Nebraska-Lincoln for providing the climate data used in this report. We also want to thank the Nebraska Agricultural Statistics Service for crop data.

METRIC EQUIVALENTS

1 centimeter = 0.394 inches
1 hectare = 2.471 acres
1 kilogram = 2.205 pounds
1 hectoliter = 2.838 bushels

cm = inches x 2.54
ha = acres x 0.405
kg = pounds x 0.454
hl = bushels x 0.352

Kilogram/hectoliter = lb/bux 1.287
Kilograms/hectare = bu/Ax 62.78 (56# bu)

EXTENSION CIRCULAR 91-105

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NEBRASKA CORN HYBRID TESTS 1991

The 1991 season was similar to 1990 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):

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
State	110.0	97.0	115.0	126.0	133.0	130.0	124.0	120.0	130.0	127.0
Irrigated	122.0	116.0	133.0	140.0	144.0	147.0	146.0	142.0	148.0	151.0
Nonirrigated	83.1	58.4	77.4	97.7	100.4	91.5	73.4	67.6	89.6	75.2

Total acreage for harvest was 7,900,000 of which 5,400,000 was irrigated. Nonirrigated acreage was 2,500,000.

Corn planting proceeded ahead of normal early in the season but heavy rains delayed later planting. On May 6, 30% of the Nebraska crop had been planted. Average for this date is 46%.

Good weather in June and July allowed the crop to progress ahead of normal. Some corn was treated for corn borers. Spraying occurred for both 1st and 2nd brood corn borers. Dryland corn had considerable drought stress.

Corn matured ahead of normal primarily due to the excess heat at the end of August. Harvest generally was about 10 days ahead of average on Sept 30. Ear droppage occurred due to corn borers. Over 50% of the corn was harvested by the first week in October.

Twenty-seven corn performance tests were planted in 1991. Test locations are shown on the map (page 12), and cooperators and dates of planting and harvest are included in Table A.

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

Graphs showing the deviation from 30 year averages for temperatures is on page 10 and rainfall on page 11.

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

Table A. Locations, cooperators, soil types and planting and harvest dates. 1991.

<u>Location</u>	<u>Cooperator</u>	<u>Soil Type</u>	<u>Planted</u>	<u>Harvested</u>
<u>Southeast Nonirrigated</u>				
Nemaha	Fred Gauchat Jr., Brock	Colo silty clay loam	Apr.26	Sep.11
Saunders	John Divis, Mead	Sharpsburg silty clay loam	Apr.30	Set.16
<u>Southeast Irrigated</u>				
Butler	Larry Pokorny, Bellwood	Muir silty clay loam	May 1	Sep.30
York	Jerry Stahr, York	Hastings silt loam	May 9	Oct.18
<u>South Central Irrigated</u>				
Clay	South Central Res. & Ext. Center	Hastings silt loam	Apr.26	Sep.27
Buffalo	Roger Wolford, Kearney	Blendon fine sandy loam	Apr.25	Oct.7
<u>South Central White Corn</u>				
Clay	South Central Res. & Ext. Center	Hastings silt loam	May 2	Sep.24
<u>Northeast</u>				
Dixon Dryland	North East Res. & Ext. Center	Moody silty clay loam	May 2	Oct.26,27
Pierce Irrigated	Gansebom Farms Inc., Osmond	Thurman sandy loam	May 8	Oct.5,7
<u>Central Irrigated</u>				
Custer (c.p.)	Cliff Whitney, Rt.1, Broken Bow	Hord silt loam	May 9	Oct.1
Dawson (ditch)	Craig Worrel, R.R.2, Cozad	Cozad silt loam	May 9	Oct.9
<u>South West Central Irrigated</u>				
Keith (ditch)	John Hardessen, Brule	Tripp loam	Apr.29	Oct.5
<u>West Central Irrigated</u>				
Lincoln	West Central Res. & Ext. Center	Cozad silt loam	May 1	Oct.17,18
Dundy	Doran Jessee, Box 23, Bankleman	Keith silt loam	May 13	Oct.22
<u>West Central Ecofallow</u>				
Lincoln	West Central Res. & Ext. Center	Cozad silt loam	May 1	Oct.17,18
Custer	Tom Dennis, Gothenburg	Hall silt loam	July 8	Oct.15
Perkins	Tom Kraus, Madrid	Keith silt loam	May 11	Oct.11
<u>North Central Irrigated</u>				
Brown (gravity)	Steve Begot, R.R.2, Ainsworth	Holdrege loam	May 10	Oct.7
Brown (c. pivot)	Marty Graff, Ainsworth	Sandose loamy fine sand	May 10	Oct.7,8
<u>Southwest Irrigated</u>				
Furnas	Steve Henry, Arapahoe	Hord silt loam	May 8	Oct.14
Red Willow	Claude Cappel, R.R.3, McCook	Bridgeport silt loam	Apr. 27	Oct.10
<u>Southwest Ecofallow</u>				
Hayes	Dennis Riener, Rt.1, Palisade	Kyma silt loam	June 3	Nov.11
Red Willow	Ervin Schaffert, Indianola	Holdrege & Keith silt loam	June 4	Oct.10
<u>West Irrigated</u>				
Scotts Bluff	Panhandle Res. & Ext. Center	Tripp very fine sandy loam	May 8	Oct.10
Cheyenne	Randy Sutton, R.R.1, Sidney	Bayard fine sandy loam	May 7	Oct.9
<u>West Early Ecofallow</u>				
Lincoln	West Central Res. & Ext. Center	Hall silt loam	May 23	Nov.12
Cheyenne	High Plains Agricultural Lab	Alliance silt loam	May 10	Oct.1

Table B. Average performance at each location.

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 CorrItN
Southeast Non—Irrigated									
Nemaha	30	11.3	18454	31.3	71	14.2	1.5	0.8	.40**
Saunders	30	11.2	18655	12.9	130	19.6	2.0	1.0	-.14NS
Southeast Irrigated									
York	30	7.2	28974	16.6	187	16.0	2.0	1.0	.30**
Butler	30	7.2	28840	7.5	232	16.6	0.8	0.1	.42**
South Central Irrigated									
Clay	30	8.0	26262	6.2	182	21.3	0.7	0.2	-.13NS
Buffalo	30	9.1	23077	5.7	204	19.9	3.4	0.1	.29**
South Central White Corn									
Clay	30	8.5	24486	—	179	24.6	2.3	0.8	—
Northeast									
Dixon Dryland	30	12.6	16540	15.1	94	—	0.0	0.0	—
Pierce Irrigated	30	8.0	26228	8.4	173	—	5.0	1.0	—
Central Irrigated									
Custer	30	6.6	31450	6.9	194	22.7	2.2	0.1	-.12NS
Dawson	36	6.4	26920	6.7	207	18.7	0.7	0.1	.37**
Southwest Central Irrigated									
Keith	36	5.3	33073	6.1	199	20.5	—	—	.76**
West Central Irrigated									
Lincoln	30	8.5	24456	10.4	190	10.7	—	1.1	.71**
Dundy	30	6.4	32443	8.7	210	17.6	3.0	0.0	.56**
West Central Ecofallow									
Lincoln	30	15.0	13960	9.6	57	9.1	—	1.1	-.90**
Custer	30	12.4	16857	10.7	98	19.1	1.0	0.1	-.42*
Perkins	30	16.7	12492	10.1	87	14.5	0.2	0.2	.27NS
North Central Irrigated									
Brown (gravity)	30	6.5	32030	6.7	183	19.0	1.0	0.3	.23NS
Brown (c.Pivot)	30	6.8	30834	9.3	173	21.4	2.0	0.1	.19NS
Southwest Irrigated									
Furnas	30	8.2	25478	9.3	205	16.2	1.2	0.1	.43**
Red Willow	36	6.0	29245	6.3	217	17.5	1.6	0.2	.30*
Southwest Ecofallow									
Hayes	30	15.6	13405	19.8	53	17.0	1.6	0.2	.21NS
Red Willow	36	12.5	13970	22.1	40	16.1	1.0	0.4	.16NS
West Irrigated									
Scotts Bluff	30	—	—	9.5	176	14.9	—	—	.67**
Cheyenne	30	—	—	10.3	206	16.9	—	—	.40*
West Early Ecofallow									
Lincoln	30	14.4	14470	11.9	61	8.1	1.3	1.0	-.19NS
Cheyenne	30	21.1	9915	27.0	24	13.7	—	1.0	.22NS

¹ Machine harvest.² Correlations between moisture at harvest and acre grain yield — NS,*,** = nonsignificant and significant at 5% and 1% levels, respectively. Negative values indicate that lower moisture was associated with higher yields.

Table C. Corn performance. Average for entries over years within areas. Five years. 1987 – 1991.

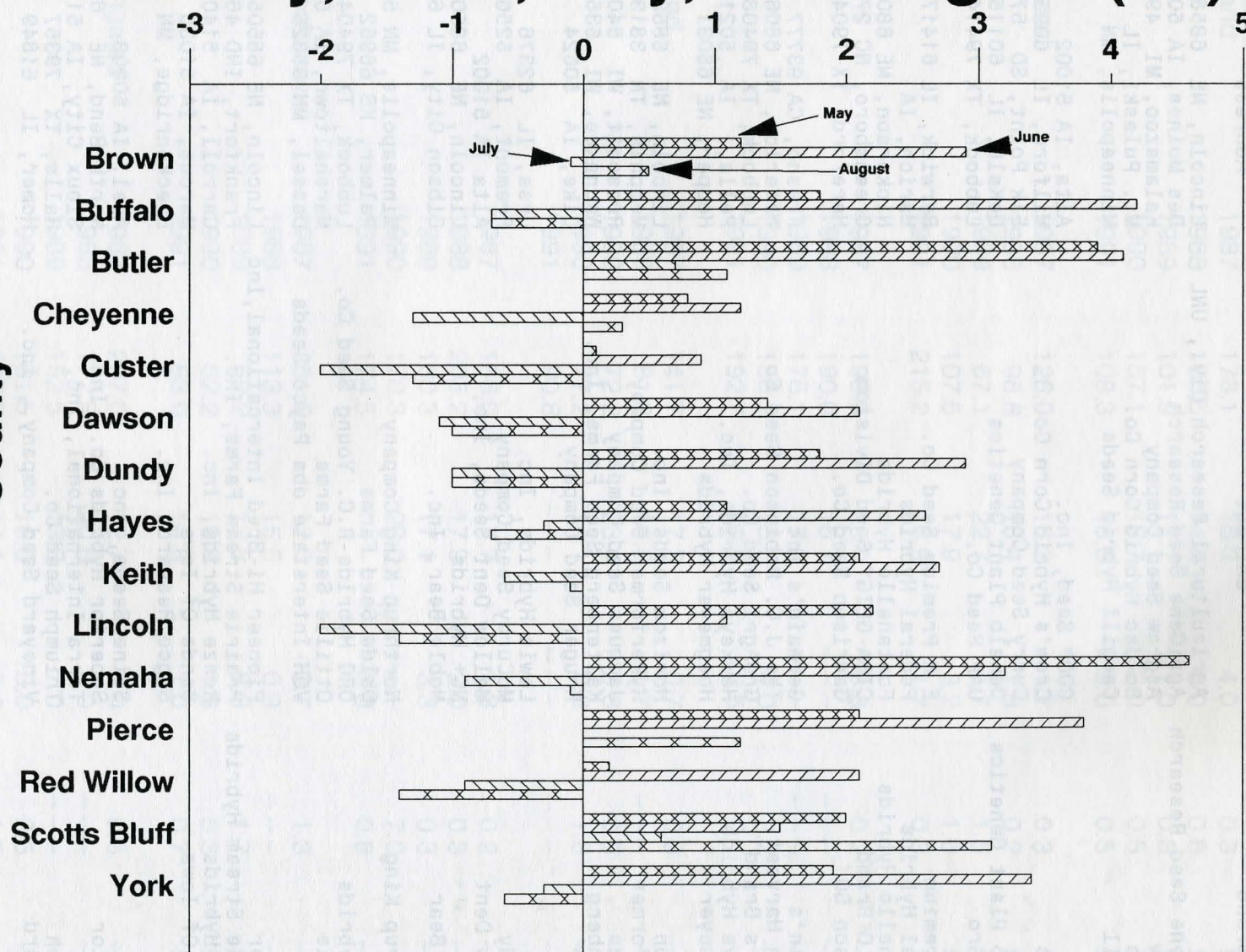
Test	Year	Yield bu/a	Moisture %	Broken %	Dropped %	Bushel weight
Southeast Dryland (4 hybrids)	1987	173.1	16.3	4.0	0.3	58.6
	1988	106.5	14.4	6.0	0.8	57.4
	1989	101.9	17.7	21.0	0.3	56.7
	1990	157.1	18.7	2.0	0.5	56.4
	1991	108.3	16.8	3.0	0.5	57.6
Southeast Irrigated (6 hybrids)	1987	126.0	16.2	1.7	0.3	59.1
	1988	98.8	16.4	1.8	0.2	58.6
	1989	67.1	22.7	7.7	1.5	54.6
	1990	107.5	17.9	3.2	1.0	57.3
	1991	215.2	16.9	1.7	0.3	59.8
South Central Irr. (10 hybrids)	1987	198.8	20.0	3.8	0.2	---
	1988	190.0	15.7	---	---	---
	1989	176.1	17.2	---	---	---
	1990	158.1	18.5	4.0	2.2	---
	1991	192.7	20.5	2.5	0.1	---
Northeast dryland (6 hybrids)	1987	141.7	17.3	0.7	0.8	---
	1988	81.3	16.6	1.7	---	---
	1989	72.2	23.4	3.8	0.5	---
	1990	77.2	14.1	0.8	1.0	---
	1991	90.8	---	---	---	---
Northeast Irri. (6 hybrids)	1987	186.0	17.7	1.8	0.2	---
	1988	203.2	17.9	2.0	0.3	---
	1989	180.3	17.1	3.3	0.3	---
	1990	170.3	20.0	---	7.0	---
	1991	174.5	---	3.8	0.8	---
West Central Ecofollow (3 hybrids)	1987	51.0	12.0	0.7	1.3	---
	1988	113.3	15.5	0.3	---	---
	1989	69.2	13.8	8.3	1.7	55.8
	1990	52.2	16.7	1.3	6.3	52.5
	1991	83.0	14.8	1.0	0.7	52.8
West Central Irrigated (2 hybrids)	1987	207.0	12.7	5.0	0.5	---
	1988	172.5	20.6	6.0	---	---
	1989	152.5	13.3	7.0	---	---
	1990	161.5	16.0	13.0	2.5	---
	1991	195.0	14.1	3.0	1.5	---
West Irrigated (1 hybrid)	1987	145.0	19.5	2.0	---	56.1
	1988	172.5	23.5	---	---	57.6
	1989	127.0	13.2	5.0	---	55.6
	1990	152.0	17.8	4.0	---	56.3
	1991	198.0	17.0	---	---	60.2

Table D. Entrants. Nebraska Corn Performance Tests. 1991.

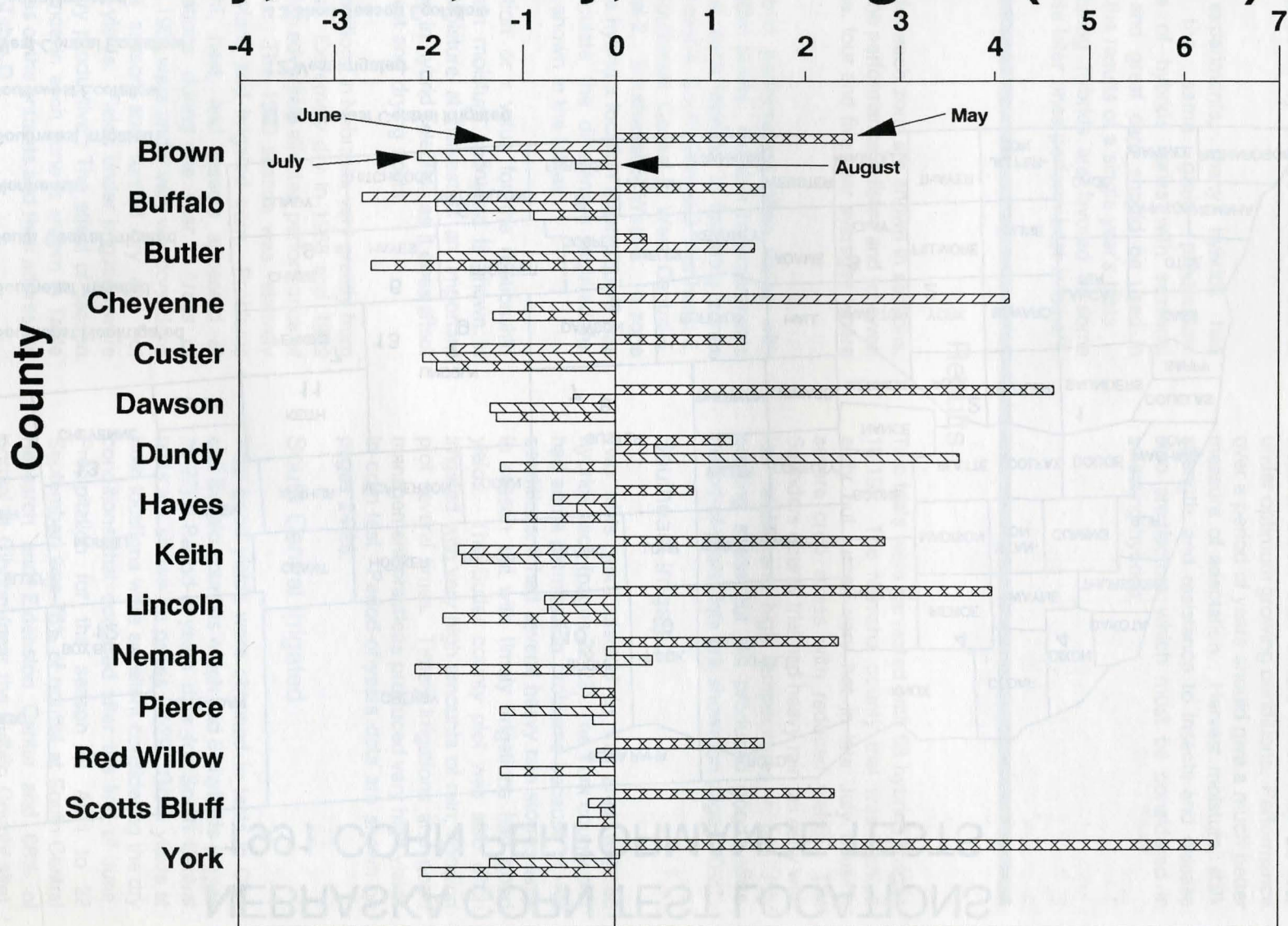
Brand	Entrant	Address
-----	Agricultural Research Div., UNL	Lincoln, NE 68583
AgriGene Seed Research	AgriGene Seed Research	Des Moines, IA 50322
Asgrow	Asgrow Seed Company	Kalamazoo, MI 49001
Bo-Jac	Bo-Jac Hybrid Corn Co.	Mt. Pulaski, IL 62548
Cargill	Cargill Hybrid Seeds	Minneapolis, MN 55440
COOP	COOP Seed, Inc.	Alta, IA 51002
Crow's	Crow's Hybrid Corn Co.	Milford, IL 60953
Curry	Curry Seed Company	Elk Point, SD 57025
DeKalb Plant Genetics	DeKalb Plant Genetics	DeKalb, IL 60115
Dyna Gro	UAP Seed Co.	Lubbock, TX 79414
E K Premium	E K Premium Seed Co.	Berwick, IL 61417
Federal Hybrids	Federal Hybrids	Marion, IA
Fontanelle Hybrids	Fontanelle Hybrids	Nickerson, NE 68044
Funks G Bramd	CIBA-GEIGY Seed Division	Greensboro, NC 27419
Garrison SG	Garrison Seed Co.	Hereford, TX 79045
Germain's	Germain's Inc.	Fresno, CA 93777
Golden Harvest	The J.C. Robinson Seed Co.	Waterloo, NE 68069
Growers Brand	GroAgri Seed Co.	Lubbock, TX 79408
Hawkeye Hybrids	Hawkeye Hybrids, Inc.	Pella, IA 50219
Hoegemeyer	Hoegemeyer Hybrids	Hooper, NE 68031
Horizon	Horizon Seeds, Inc.	Lincoln, NE 68501
HyPerformer	HyPerformer Seed Company	Memphis, TN 38137
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
Mellow Dent	Mellow Dent Seeds, Inc.	Alta IA 51002
NC+	NC+ Hybrids	Lincoln, NE 68504
Noble Bear	Noble Bear, Inc.	Gibson City, IL 60936
Northrup King	Northrup King Company	Minneapolis, MN 55440
Ohlde	Ohlde Seed Farms	Palmer, KS 66962
ORO Hybrids	ORO Hybrids-R.C. Young Seed Co.	Lubbock, TX 79404
Ottillie	Ottillie Seed Farms	Marshalltown, IA 50158
Payco	VDH-Interstate dba Payco Seeds	Dassel, MN 55325
Pioneer	Pioneer Hi-Bred International, Inc	Lincoln, NE 68505
Prairie Stream Hybrids	Prairie Stream Farms, Inc.	Frankfort, IND 46041
Renze Hybrids	Renze Hybrids, Inc.	Carroll, IA 51401
Sands Of Iowa	Sands Of Iowa	Marcus, IA 51035
Sigco	Sigco Research Inc.	Breckenridge, MN 56520
Stine	Stine Seeds, Inc.	Adel, IA 50003
Superior	Superior Hybrids Co., Inc.	North Bend, NE 68649
Terra	Terra International, Inc.	Sioux City, IA 51101
Triumph	Triumph Seed Co.	Ralls, TX 79357
Vineyard	Vineyard Seed Company., Inc.	Homer, IL 61849
Wilson	Wilson Hybrids	Harlan, IA 51537

Average temperature deviations from normal for May, June, July, and August (° F)

County



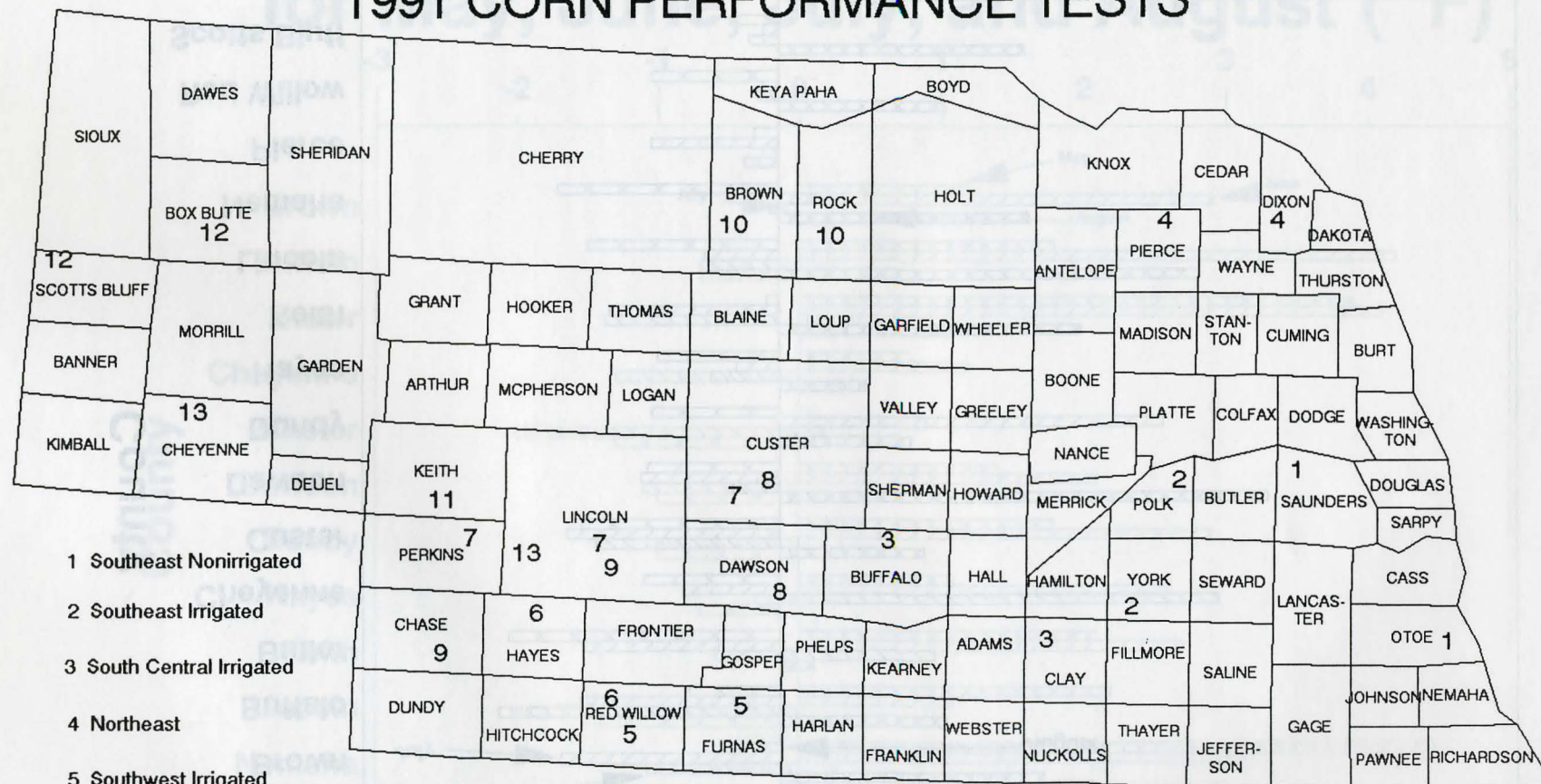
Average rainfall deviations from normal for May, June, July, and August (inches)



NEBRASKA CORN TEST LOCATIONS

1991 CORN PERFORMANCE TESTS

12



- 1 Southeast Nonirrigated
- 2 Southeast Irrigated
- 3 South Central Irrigated
- 4 Northeast
- 5 Southwest Irrigated
- 6 Southwest Ecofallow
- 7 West Central Ecofallow
- 8 Central Irrigated
- 9 West Central Irrigated
- 10 North Central Irrigated

- 11 Southwest Central Irrigated
- 12 West Irrigated
- 13 Short Season Ecofallow

the 25% level, a difference as large or larger would be expected by chance alone in one of four trials.

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

Earlier-maturing hybrids are favored in some seasons while later ones perform best in others.

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

Results

Data tables for each zone are shown in sections. The 1991 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. Number of experiments conducted at each location in following zones were: Southeast-4, South Central-3, Northeast-2, Central-2, Southwest Central-1, West Central-5, North Central-2, Southwest-5, West-3. 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. Moisture at harvest is an important consideration in hybrid selection as it does affect time of harvest and drying costs.

Growing conditions in Nebraska vary greatly from year to year. Extremely dry in 1988 and 1989 seasons which adversely affected performance of dryland plots. The 1990 season was relatively good for dryland and irrigated corn. Problems with drought, heat, and insects appeared at various locations during the year. Areas of Nebraska in 1991 were under very wet conditions early in the season and turned dry and hot causing low yields. Fields under irrigation were generally very productive. The effect of season on performance in each zone is shown in Table C. The names of the entrants and their addresses are listed in Table D.

Southeast Nonirrigated

Two trials were harvested with 68 hybrids (pages 18-19). The Nemaha county trial was planted early but turned very hot in late July causing severe crop stress with reduced yields. The Saunders county trial had heavy rain fall early with low rainfall and high temperatures in late July causing stress but still produced good yields. Period-of-years data are shown on pages 20-21.

Southeast Irrigated

Two trials were planted in this area with 86 hybrids each (pages 22-23). The York county plot had some germination problems because of wet conditions. It had several heavy rain storms early in season but with timely irrigations had good yields. The Butler county plot was also ditch irrigated with very high amounts of rain, flooding plot several times. Timely irrigations and good management practices produced very high yields in corn test. Period-of-years data are shown on pages 24-25.

South Central Irrigated

Very good yields were obtained in tests in Clay and Buffalo counties which had 84 hybrids (pages 26-27). Period-of-years data for South Central tests are shown on pages 28-29. Grain yields at both locations were excellent considering the dry conditions that occurred after the first of June. Precipitation for the season (1 April to 22 September) was 76% of normal at South Central Research and Extension Center and 68% of normal at Gibbon (near the Buffalo County site). Growing degree day accumulations were near normal during the season at both weather

stations. At the Clay county location potential ET for the season was lower than the long-term average. Decreased potential ET results in a decrease in crop water use. Since growing degree days and average daily temperatures were not significantly different from normal, the lower ET can be attributed to 1) higher than normal humidity, 2) lower solar radiation, and 3) less than normal winds. These all occurred during the season at South Central Research and Extension Center. (This ET analysis is by Joel Cahoon, Extension Water Management Engineer.) The growing season was abruptly terminated by an extremely early frost at both locations on 19 September. Temperatures were below freezing for six hours at South Central Research and Extension Center (a low of 25 degree F) and for eight hours at Gibbon (a low of 24 degree F). A few late hybrids at the Buffalo county plot may have not quite been physiologically mature.

Northeast

Eighty two hybrids were tested in both dryland and irrigated. The Dixon County nonirrigated test was on a notill field but cultivated for weed control. The dryland plot was under drought stress in late July and August which reduced yields. These data are on pages 30-31. The combined year averages are on pages 32-33. The irrigated test in Pierce county was planted into a good seed bed and was adequately watered all summer. The 1991 data are on pages 34-35. Average 2-, 3-, 4-, and 5-year yields are shown on pages 36-37.

West Central Irrigated

Yield and other data from 52 hybrids tested in Lincoln and Dundy counties are shown on pages 38-39. Dundy county test had high (wind 75 mph) green snap on hybrids just ready to tassel. Most damage was caused to 97-104 day corn. All hybrids matured before frost. Period-of-years data are shown on page 40.

Southwest Central Irrigated

Fifteen hybrids were tested in Keith county trial. This is the second year for this location. Irrigation pump was running most of the time because of the hot dry weather. This plot had very high yields. The 1991 results in Keith county are

shown on page 41. Two year averages are shown on page 41.

Central Irrigated

Fifty hybrids were tested in Custer and Dawson counties. Wet conditions delayed planting. Both plots had high yields and high moistures when harvested. The data from these plots are shown on pages 42-43. Two years of data are shown on page 43.

Southwest Irrigated

Sixty six hybrids were tested at two irrigated sites, one in Furnas county and one in Red Willow county. The yields at both locations were extremely high under excellent growing conditions. This is the third year for this location so 1991 data are shown on pages 44-45 and 46 for the 1989 - 1991 data.

North Central Irrigated

Forty hybrids were entered in both gravity and center pivot plots in Brown county which is located in the northern part of sandhills. Yields were high in both tests and showed a good adaptation for this area. This is the third year of testing at this location so 1991 data are presented on page 47 and 1989-1991 data is on page 48.

West Central Ecofallow

This trial was seeded into stubble from a wheat crop (page 49). These trials were planted in Lincoln, Custer, and Perkins counties and included 21 hybrids. Agreement between the three was less than desired but does show hybrid differences. Persistent rainfall in May and June delayed chemical application and planting in Custer county. Hot and dry conditions in July and August hurt yields. Early frost (Sept. 19 was 23 degrees F) prohibited many hybrids from reaching full maturity. Lincoln county suffered more from drought while Custer and Perkins county had excellent yields. Period-of-years data are shown on page 50.

Southwest Ecofallow

Twelve Hybrids were tested in Hayes and Red Willow counties. Red Willow county tillage program was ecofallow. Hayes county tillage

program was no-till. Rainfall in May and June delayed herbicide application and planting. Hot and dry in July and August depressed yields which included an early frost. The data from these two locations and two year test are shown on page 51.

West Irrigated

West irrigated trials were in Scotts Bluff and Cheyenne counties with 31 hybrids at each location (page 52). Yields were very good with adequate moisture and moderately warm temperatures through out the season caused the crop to mature ahead of normal. It was mature when killed by frost Sept. 19. Crop had excellent drying weather which led to quick drydown. Period-of-years yield and other data are shown on page 53.

South Central White Corn Test

Yields of white corn hybrids are reported on a 54 pound per bushel basis on pages 54-55. Some of

the yields were comparable to yellow corn hybrids. The data from period-of-years 1988 - 1991 are found on pages 56-57. 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.

Early Maturing Ecofallow

Plots planted in Lincoln and Cheyenne counties were 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 1991 trials containing 7 hybrids each are shown on page 58. Growing season rainfall was below normal at both locations. Lincoln county showed significant yield differences between 7 hybrids. Two hybrids was all that was included in 2-year average (page 58).

Cultural Practices

Nemaha: Dry land. No till. Crop history: 1989-wheat, 1990-soybeans. 100 lbs anhydrous ammonia/a, 8 gal/a 10-34-0 starter solution. 3.3 lbs. Extrazine II, 7 oz. Asana 1.9 EC insecticide. No cultivations. Corn was hand thinned to 18,000 plants/a. Late July hot weather caused severe stress and reduced yields.

Saunders: Dry land. No till. Previous crop was soybeans. 105 lbs. anhydrous ammonia with no other fertilizer, herbicide or insecticide applied. Hand hoed some weeds with no cultivations needed. Corn was hand thinned to 18,000 plants/a.

Butler: Irrigated. Previous crop was corn. 195 lbs. N as anhydrous ammonia was applied in fall of 1990. 10 gal/a of 10-34-0 as started solution. Herbicide used was 1.3 qt. Lariat in 7" band. Insecticide: 6.5 lbs./a Thimet at layby, 3 pt/a PennCap aerially on 7-23. A wet spring with flooding caused a delay in thinning to 26,000 plants/a. Field was cultivated twice and ditched. Very high grain yields.

York: Irrigated. 1989 and 1990 crops were corn.

170 lbs N applied plus 60 lbs 10-34-0 starter and 20 lbs N applied with irrigation. Herbicide used was Lasso/Atrazine. One cultivation and ditched with Furadan applied for heavy rootworm larvae infestation and for 1st generation European corn borer. PennCap M was applied aerially for rootworm beetle control on 7-17. Capture was aerially applied for spider mite control on 7-24. Grain yields were very good.

Clay: Irrigated. Ridge planted corn following soybeans. 120 lbs. Nitrogen/a sidedressed, 10 gal 10-34-0 broadcast preplant. Herbicide was Bullet. No insecticide was applied. Grain yields were excellent.

Buffalo: Irrigated. Plot was fall chiseled and field cultivated before planting. Previous two years were corn. Preplant 160 lbs/a N with 100 lbs. 10-34-0 at planting. Applied Force at planting time with Lariat + Banvil postemergence. Yields were excellent.

Dixon: Dryland. 75 lbs N/a preplant as anhydrous with 8-27-0 with planter. Lasso + Extrazine II + 2,4-D broadcast at 2 + 2.25 + 0.25

lb/a plus 1 qt 28% N. Applied Laddok at 1.0 lb/a postemergence. Pounce at .1 lb/a for first brood corn borer.

Pierce: Irrigated. Preplant fertilizer was broadcasted 3-16-60+10S; Anhydrous - 85 lbs/a; starter with planter 14-14-3 + 4-S + 1-Zn. Herbicide carrier used 24 lbs N/a. 45 lbs N with irrigation water. Herbicide banded using Bicep + Bladex at 1.5 + 0.3 lbs/a in 15 inch band on 30 inch rows. Insecticide used on corn borer 3.7 lbs/a Furadan for first brood, .125 lbs/a Pounce for second brood. Yields were very good.

Custer: Irrigated. Previous crop was corn. Seed bed preparation was two diskings. Preplant 140 lbs N as anhydrous ammonia. Planting time 9-32-0 + .24 Zn. 40 lbs N was used as herbicide carrier. Herbicide used was 3.2 qt Bullet preemergence. Insecticide at planting was Force. Furadan was applied aerially on 6-25.

Dawson: Irrigated. Past two years was corn. Ridge tilled and furrow irrigation. Preplant 148 lbs. Nitrogen with 32 lbs.P at planting. Lariat herbicide was banded. Lorsban 15g (8 oz./1000 ft of row) was used with Furadan at first cultivation for corn borer and PennCap for rootworm control.

Keith: Irrigated. Past two years was corn. Ridge tilled. 40 lbs Nitrogen was applied at planting. 55 lbs N at cultivation with 20 lbs N applied through water. Herbicide used as preplant 1 qt Atrazine + 8 oz Banvel. Planting time 1.5 qt Bicep banded in 12" band with 2 pt Dual in 20" band later.

Hayes: Ecofallow. Fallow-winter wheat were previous crops. No-till. Preplant 20 lbs N; 100-24-0 applied at planting time. Lorsban applied with planter. Previous July 18- applied 2.5 lbs of Atrazine, 1.5 pt. Roundup, 2,4-D .5 pt after wheat harvest. Bladex + Atrazine applied in spring before planting. Post-Banvel was applied.

Red Willow: Ecofallow. Previous 2 crops were fallow-wheat. Preplant 85 lbs. N; 5 lbs. Sulfur. Lorsban 15G was used. Preplant 0.5 lb. Atrazine + 2 pt. Dual + 0.5 pt. 2,4-D + 1.5 pt. cyclone.

Lincoln: Ecofallow. Crop history: Fallow-Wheat. Atrazine and Paraquat on stubble with

Landmaster. 60 lbs. N was applied to corn. Insecticide was not used.

Custer: Ecofallow. fallow-wheat. No-till. 80 lbs N with herbicide preplant. At planting 10 gal 10-34-0 fertilizer was used. Lorsban 15g in furrow at planting was applied. Herbicide 2 qt Bicep, 1 qt Atrazine, 1.5 pt Cycle was applied June 3.

Perkins: Ecofallow. Previous two crops were wheat-fallow. No-till. 70 lb N was applied at planting. No insecticide was used. Herbicide: 0.5 lb Atrazine preemergence, 1.5 lb Atrazine in fall of 1990.

Brown: Gravity irrigated. Continuous corn past two years. Starter fertilizer was 30-30-0 + 6 lb Sulfur. 160 lb N sidedressed. Herbicide: 2.2 qt Bicep premerge. Insecticide: 6.5 lb of Counter at planting. 6.7 lb Furadan applied for 1st brood corn borer June 26. Herbicide: 2.2 qt Bicep preemergence. Disked twice, one cultivation, one ditching.

Brown: Center pivot irrigated. Corn planted in field past two years. Starter fertilizer-7 gal of 10-34-0 plus 3 gal 12-0-0-26, at planting time 10 gal of 28-0-0 with herbicide. Sidedressed 108 lbs of N from anhydrous ammonia June 10 when corn was 15 inches tall. Applied 1 qt Bicep in 15 inch band at planting with 2 lb Atrazine in 5 gal of 28-0-0 at 3rd leaf. Tillage program was disked twice, planted, cultivated and side dressed in one operation. Some corn borer (2nd brood) not treated.

Dundy: Irrigated. 1989 sunflower; 1990 corn. Fertilizer: 100 lbs N, 22 lbs. K2O; 20 Sulfur; 18 Magnesium. At planting 18- 38-0 + 1.6 Zn, 9 Sulfur. 100 lbs N preemergence with herbicide. Insecticide: 8.7 lbs. Lorsban at planting. 1st brood 6.7 lbs. Furadan June 28, 2nd brood PennCap Aug. 9. Herbicide preplant 1 lb of Atrazine with N April 20, 1 lb of Atrazine preemergence with N May 18. Plot was disked two times.

Lincoln: Irrigated. After sorghum. 180 lbs. N as anhydrous ammonia. Bicep 1.8 qts/a. Aerial sprayed for 1 first brood borer with Lorsban. Had some late season spider damage. Good test.

Furnas: Irrigated. Previous crops: Corn-1989;

soybeans 1990. Ridge till. At planting 190 lbs of 10-34-0 and 110 lbs of N as anhydrous ammonia side dressed. 0.7 qt Bicep at planting in 14 inch band. Lorsban 15 G with planter in furrow 8 oz/1000 ft of row. Dipel sprayed for corn borer during ridging.

Red Willow: Irrigated. Ridge till. Continuous corn. 100 lbs N as anhydrous ammonia preplant. 7.5 gal of 10-34-0 at planting time. Lorsban 15G in furrow at planting 8 oz/1000 ft of row. Furadan granules at cultivation. Sutan banded using 4 pt/a. Banvel post using 1 pt/a.

Scotts Bluff: Irrigated. Previous crop was soybeans. At planting 12-40-0 + 1 lb Zn; side dressed 140 lb N. Herbicide used was Lasso-Bladex. Very good yields were recorded in this plot.

Cheyenne: Irrigated. Corn was planted the previous two years. At planting 20-94-0 + 3 lb Zn with 6 lb Counter applied. 150 lb N side dressed on June 23. Herbicide was Banvel and 2,4-D applied June 14.

Lincoln: Early Ecofallow. Previous crops: 1989-fallow; 1990-wheat. Atrazine and paraquat on wheat stubble with preplant Landmaster for weed control. 60 lbs N was applied to the corn. No insecticide was used.

Cheyenne: Early Ecofallow. Crop history: 1989-fallow, 1990-wheat. Fertilizer used at planting 7-23-0 with side dressed 60 lb N. Herbicide: Atrazine-Dual. No insecticide use. No tillage practices. Plot thinned to 10,500 plants/a.

Clay: White corn. sprinkler Irrigated. Ridge till following milo. Fertilizer was broadcast with 110-40-0.

Southeast District Dryland Corn Hybrid Test – 1991

Nemaha and Saunders Counties

BRAND	HYBRID	Yield			MOISTURE %	1991 Average		
		AVERAGE BU/A	LOC1 BU/A	LOC 2 BU/A		BROKEN PLANTS	DROPPED EARS	BUSHEL WEIGHT
CROW'S	488	121	104	137	16.0	3	1	58.2
CARGILL	7997	120	93	147	17.7	3	1	58.4
GROWERS BRAND	GSC-4192	114	90	137	18.1	2	1	58.2
SUPERIOR	SP 5691	113	96	130	15.9	2	1	58.9
-----	NEBR. 611	112	97	127	15.8	5	0	56.2
JACQUES	8210	111	82	140	18.5	2	0	57.7
CARGILL	7877	110	75	144	16.5	4	1	57.4
STINE	1180	109	75	143	18.0	1	1	58.3
FEDERAL	FX40A	108	69	146	16.4	4	2	56.7
PIONEER	3379	108	84	131	16.4	2	1	59.4
TERRA	TR353E	108	87	128	19.3	3	1	57.3
DEKALB Plant Gen	DK646	108	87	128	16.5	2	0	57.4
NC+	6414	108	70	146	17.2	2	0	57.0
TRIUMPH	1270	108	70	145	15.4	2	0	59.0
SUPERIOR	SP 6289	107	76	138	16.9	1	1	58.7
TERRA	TR1120	107	70	143	16.6	2	2	59.2
RENZE	6520	106	72	139	18.2	1	1	58.4
BO-JAC	612	106	69	143	16.2	0	1	60.1
CROW'S	682	106	78	134	16.3	1	1	58.2
NORTHROP KING	N 7768	106	72	139	18.2	4	1	58.5
AGRIGENE	AG 7720	106	80	131	17.8	4	0	58.5
NORTHROP KING	CO8625	106	74	137	16.5	1	1	59.1
KRUGER	K9010	106	78	133	16.2	1	0	58.0
RENZE	6412	106	90	121	16.2	1	1	59.1
ASGROW	RX899	106	79	132	18.9	1	0	57.8
UAP	X15015	105	93	116	19.5	0	0	58.0
COOP	2330	105	73	137	17.2	2	1	58.1
BO-JAC	6272	105	73	137	17.7	1	0	58.5
PIONEER	3362	104	67	141	15.7	2	0	58.5
DYNA GRO	5561	104	77	130	17.0	2	1	58.8
KRUGER	K8111A	104	64	144	16.0	1	1	58.6
COOP	2325	104	81	127	16.9	1	2	59.1
FUNKS G	4673B	103	65	141	17.4	0	1	58.2
MCCURDY	7477	103	70	136	18.2	2	0	57.7
NC+	5963	103	70	136	16.3	2	2	59.2
RENZE	6310	102	85	118	16.8	2	0	56.1
WILSON	1890	102	68	135	18.9	3	1	56.9

Continued on next page

Southeast District Dryland Corn Hybrid Test – 1991

Nemaha and Saunders Counties – Page 2.

BRAND	HYBRID	Yield			1991 Average			
		AVERAGE BU/A	LOC1 BU/A	LOC 2 BU/A	MOISTURE %	BROKEN PLANTS	DROPPED EARS	BUSHEL WEIGHT
TERRA	TR1090	102	76	128	16.3	2	1	58.7
CARGILL	6927	101	64	137	15.8	0	1	58.2
HYPERFORMER	HS 9773	101	78	123	15.6	4	2	58.9
KRUGER	K9019	100	78	121	16.9	2	1	58.4
ASGROW	RX908	100	61	138	16.6	2	2	58.5
HORIZON	9118	99	49	148	17.6	1	1	58.5
SANDS OF IOWA	SOI-9140	98	72	124	17.0	1	2	58.5
PIONEER	3189	98	55	141	17.9	1	0	59.2
LEWIS	7288	98	52	143	17.4	3	0	58.2
ORO	190	98	77	118	18.6	3	1	57.3
WILSON	EXP.4026	98	75	121	18.0	3	1	58.2
DYNA GRO	5671	97	90	103	19.7	1	3	56.8
HYPERFORMER	HS 9704	97	71	122	16.7	3	1	58.8
SANDS OF IOWA	SOI-1290	97	72	121	15.6	1	0	58.6
MCCURDY	7372	97	70	124	16.8	2	0	59.3
STINE	1125	95	62	128	16.0	4	0	58.0
ORO	120	95	76	113	16.9	2	1	58.5
EK PREMIUM	EK7772	94	46	141	15.8	2	1	59.3
FONTANELLE	6240	94	51	136	16.4	3	1	58.6
CROW'S	697	91	64	118	16.4	2	0	59.9
PIONEER	3159	91	52	129	17.0	2	0	58.2
EK PREMIUM	EK7796	90	61	118	16.9	2	1	58.4
SUPERIOR	SP 7290	89	44	133	17.8	2	0	58.0
FUNKS G	4651	89	62	116	17.5	2	0	58.2
FONTANELLE	6340	89	60	117	18.4	3	0	57.5
SANDS OF IOWA	SOI-915M	89	55	122	15.6	2	2	58.5
CROW'S	670	87	63	110	17.6	3	2	58.1
KRUGER	K9111	86	49	123	15.8	2	0	60.0
BO-JAC	467	86	49	123	15.4	2	0	60.1
RENZE	6410	83	59	106	17.4	2	2	58.2
HYPERFORMER	HS 9802	70	46	94	17.1	3	1	57.8
Average all entries		100	71	130	17.0	1.7	0.5	58.3
Dif. Req. for Sig. 5%		NS	31	23	1.8	NS	1.5	NS
25%		NS	18	14	1.1	NS	0.9	NS

Continued on next page.

Southeast District Dryland Corn Hybrid Tests. 1987 - 1991.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT	BUSHEL WEIGHT LBS
2 YEAR AVERAGE						
CROW'S	488	142	16.6	2	1	57.7
JACQUES	8210	138	19.2	2	1	57.7
ASGROW	RX908	138	17.4	3	2	57.4
HYPERFORMER	HS 9773	138	16.5	4	1	58.1
FUNKS G	4673B	137	18.6	2	1	56.7
AGRIGENE	AG 7720	137	19.0	3	1	57.9
TRIUMPH	1270	136	16.1	2	1	58.5
WILSON	1890	136	19.8	2	1	56.5
MCCURDY	7477	135	18.7	2	1	57.4
LEWIS	7288	135	18.7	2	1	57.7
SUPERIOR	SP 6289	135	17.8	1	1	58.1
CARGILL	7877	134	17.9	3	1	56.7
NORTHRUP KING	CO8625	132	17.4	1	1	58.8
TERRA	TR1090	132	16.8	2	1	58.2
RENZE	6520	131	19.1	1	1	57.7
PIONEER	3379	131	16.5	2	1	59.3
ORO	190	130	19.2	2	1	57.5
RENZE	6412	130	17.4	2	1	58.6
HORIZON	9118	130	18.4	2	1	58.0
CROW'S	682	129	17.4	2	1	57.0
TERRA	TR1120	128	17.6	2	1	58.8
-----	NEBR. 611	127	17.0	5	0	55.8
MCCURDY	7372	126	17.7	2	1	58.7
PIONEER	3189	126	18.2	1	0	59.0
SUPERIOR	SP 7290	126	18.6	2	1	57.8
PIONEER	3362	125	16.0	2	0	58.3
EK PREMIUM	EK7796	124	18.3	2	1	57.0
CROW'S	697	121	17.1	2	1	59.5
ORO	120	119	17.7	2	1	58.4
AVERAGE ALL ENTRIES		131	17.8	1.9	0.6	57.9
DIF. REQ. FOR SIG.		5%	NS	0.5	NS	0.6
		25%	NS	0.3	NS	0.3
3 YEAR AVERAGE						
JACQUES	8210	130	19.2	8	0	57.3
FUNKS G	4673B	130	18.5	9	0	57.0
CROW'S	488	128	16.6	7	1	57.5
AGRIGENE	AG 7720	126	19.0	7	0	57.6

Continued on next page

Southeast District Dryland Corn Hybrid Tests. 1987-1991

Page 2.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT	BUSHEL WEIGHT LBS
3 YEAR AVERAGE (Continued)						
MCCURDY	7477	125	19.0	9	0	56.9
ASGROW	RX908	125	18.3	8	1	56.5
CARGILL	7877	123	18.0	11	1	56.5
WILSON	1890	123	19.8	6	0	56.3
PIONEER	3379	123	16.5	6	0	58.9
TERRA	TR1120	122	17.6	9	1	58.3
RENZE	6412	121	17.6	9	0	58.2
PIONEER	3189	120	18.2	3	0	58.3
EK PREMIUM	EK7796	116	18.1	8	1	57.1
-----	NEBR. 611	116	17.1	12	0	55.7
ORO	120	109	17.7	6	1	58.0
AVERAGE ALL ENTRIES		122	18.1	7.8	0.5	57.3
DIF. REQ. FOR SIG.	5%	NS	0.5	NS	NS	0.6
	25%	4	0.3	1.5	NS	0.3
4 YEAR AVERAGE						
JACQUES	8210	126	18.2	8	0	57.6
FUNKS G	4673B	126	17.7	8	0	57.1
CROW'S	488	124	15.8	6	1	57.5
PIONEER	3379	122	16.0	5	0	59.0
ASGROW	RX908	120	17.8	8	1	56.7
TERRA	TR1120	119	17.0	8	1	58.3
CARGILL	7877	116	17.1	10	1	56.3
EK PREMIUM	EK7796	113	17.3	7	1	57.4
-----	NEBR. 611	111	16.4	11	0	55.7
AVERAGE ALL ENTRIES		120	17.0	7.9	0.5	57.3
DIF. REQ. FOR SIG.	5%	NS	0.5	1.7	NS	0.5
	25%	3	0.3	1.0	NS	0.3
5 YEAR AVERAGE						
JACQUES	8210	138	18.0	6	0	57.8
CROW'S	488	135	15.8	6	1	57.7
EK PREMIUM	EK7796	123	17.1	6	1	57.8
-----	NEBR. 611	122	16.3	10	0	56.0
AVERAGE ALL ENTRIES		129	16.8	7.2	0.5	57.4
DIF. REQ. FOR SIG.	5%	5	0.3	NS	NS	0.4
	25%	3	0.2	1.0	0.2	0.2

Southeast District Irrigated Corn Hybrid Test – 1991

York and Butler Counties

BRAND	HYBRID	Yield			1991 Average			
		AVERAGE BU/A	York BU/A	Butler BU/A	MOISTURE %	BROKEN PLANTS	DROPPED EARS	BUSHEL WEIGHT
NOBLE BEAR	NB 814	236	221	250	17.5	1	0	60.3
MCCURDY	7300	235	228	241	17.0	1	0	60.5
MCCURDY	7477	231	204	257	17.8	3	0	59.8
RENZE	6310	231	212	249	15.7	1	1	59.1
EK PREMIUM	EK7796	225	210	240	17.2	1	0	60.6
DYNA GRO	5550	225	214	235	17.7	1	0	60.3
BO-JAC	520	225	212	237	15.4	1	0	60.2
NORTHRUP KING	N 6330	224	221	226	15.0	1	1	59.8
OTILIE	2488	224	207	241	17.4	1	1	59.9
DYNA GRO	5561	224	202	245	17.1	1	0	60.9
HAWKEYE	SX61	223	190	256	17.3	2	0	59.9
HORIZON	8115	223	200	245	17.2	2	0	60.7
PIONEER	3379	222	195	249	15.1	1	0	61.0
OTILIE	2445	222	216	228	14.8	1	0	59.9
LEWIS	7288	222	198	245	17.7	4	0	59.8
PIONEER	3162	222	212	232	18.0	2	1	60.4
SUPERIOR	SP 6022	222	210	234	17.9	2	0	59.8
DEKALB Plant Gen	DK646	221	198	244	16.0	2	0	59.1
KRUGER -	K9019	220	193	246	17.3	2	0	59.7
AGRIGENE	AG 7720	220	200	240	17.3	5	0	59.9
PIONEER	3417	220	213	227	14.5	1	0	60.1
HYPERFORMER	HS 9802	219	199	239	17.8	1	0	59.2
ORO	190	219	193	244	17.7	3	0	59.7
CROW'S	488	219	193	245	15.1	2	1	59.8
WILSON	EXP.4224	218	198	238	15.2	0	0	58.8
RENZE	6410	218	183	252	17.2	2	0	59.9
OHLDE	371	218	176	260	16.4	3	0	60.5
OHLDE	280	218	214	222	14.9	2	0	59.1
CARGILL	7997	218	180	256	17.3	3	0	60.2
TERRA	TR353E	218	199	237	18.0	0	0	59.1
SUPERIOR	EXP.05593	217	204	229	15.0	1	0	61.2
WILSON	EXP.4026	217	183	250	17.5	2	0	59.7
NOBLE BEAR	NB 693	216	190	241	15.9	1	0	60.5
CURRY	2172	215	190	240	15.6	2	0	59.1
-----	NEBR. 611	215	193	236	16.4	2	1	58.2
HYPERFORMER	HS 9704	215	187	242	16.9	1	1	60.0
GROWERS BRAND	GSC-4192	215	189	241	18.0	3	0	59.9
HORIZON	7113	215	195	234	15.5	0	0	59.6
SUPERIOR	SP 7290	215	197	232	17.7	3	0	59.7
FONTANELLE	6340	214	185	243	17.8	7	1	59.9
NORTHRUP KING	N 7768	213	175	251	17.8	3	1	59.9
ORO	120	213	190	235	17.2	2	0	60.7
GERMAIN'S	GC6252	212	193	230	17.3	4	0	61.2
HYPERFORMER	HS 9592	212	186	237	17.3	1	1	60.7
TRIUMPH	1270	211	198	224	15.0	2	0	60.0

Continued on next page

Southeast District Irrigated Corn Hybrid Test – 1991

York and Butler Counties – Page 2

BRAND	HYBRID	Yield			MOISTURE %	1991 Average		
		AVERAGE BU/A	York BU/A	Butler BU/A		BROKEN PLANTS	DROPPED EARS	BUSHEL WEIGHT
CARGILL	7697	211	197	224	16.0	2	0	61.0
COOP	2325	210	195	225	17.4	1	1	60.4
OHLDE	359	210	192	227	17.7	3	0	59.6
CURRY	2183	210	182	237	14.5	1	0	61.2
OTILIE	2475	209	162	255	16.3	1	0	60.5
SUPERIOR	SP 7291	209	163	255	17.5	3	0	59.8
TERRA	TR1090	209	199	219	14.8	1	1	60.0
CROW'S	697	208	170	245	15.4	1	0	61.4
TERRA	TR1120	207	190	223	17.3	1	0	60.4
FUNKS G	4450	206	191	220	15.3	1	0	60.5
RENZE	6520	205	171	238	17.6	2	0	59.9
HAWKEYE	7272	205	178	232	14.9	1	0	60.9
KRUGER	K9010	205	190	220	15.2	1	0	59.6
CARGILL	7993	204	179	229	17.7	2	0	60.2
JACQUES	7970	204	166	242	17.4	2	1	59.9
BO-JAC	642	204	162	246	17.6	1	0	59.9
KRUGER	K8109B	203	176	230	15.0	1	0	60.4
BO-JAC	592	203	174	231	14.9	2	0	61.0
EK PREMIUM	EK7772	203	167	239	17.1	1	0	60.6
OHLDE	361	201	168	233	18.5	2	0	61.3
CURRY	2165	200	178	222	14.3	2	0	59.8
NOBLE BEAR	2562	199	171	226	17.5	1	0	60.3
ASGROW	RX727	197	178	216	15.8	3	0	59.7
KRUGER	K9111	197	179	214	15.4	1	0	61.7
FONTANELLE	6240	196	150	242	16.2	2	0	60.4
COOP	2244	196	180	212	16.0	2	1	59.9
PIONEER	3467	196	167	224	14.3	1	0	62.0
CURRY	2176	196	183	209	13.4	1	0	58.4
VINEYARD	FC540	196	194	198	15.8	1	0	63.1
GOLDEN HARVESTH-2485		193	183	203	14.2	0	0	59.9
PAYCO	909	190	177	202	16.1	2	1	59.6
CROW'S	449	188	163	213	14.7	2	0	60.6
VINEYARD	V417w	185	164	205	16.1	0	1	62.0
ASGROW	RX746	184	163	204	16.4	2	1	59.9
HAWKEYE	SX41	182	164	199	15.6	2	1	61.5
RENZE	6341	181	143	218	15.0	2	1	59.4
HORIZON	7115	181	156	206	16.5	2	0	59.7
NOBLE BEAR	422	180	161	199	16.3	2	1	60.2
NORTHRUP KING	N 6560	180	168	191	15.8	3	0	60.3
PAYCO	920	172	141	203	15.5	0	1	61.2
CROW'S	440	166	142	190	13.5	1	0	59.4
Average all entries		209	187	232	16.3	1.3	0.1	60.1
Dif. Req. for Sig. 5%		28	43	25	1.3	2.5	NS	0.8
25%		17	25	15	0.7	1.5	NS	0.5

East Central District Hybrid Corn Tests. Irrigated and Dryland. 1987 – 1991.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT	BUSHEL WEIGHT LBS
2 YEAR AVERAGE						
SUPERIOR	SP 7290	198	18.8	2	1	58.4
GERMAIN'S	GC6252	197	18.2	5	1	60.2
PIONEER	3379	194	16.2	1	1	59.7
OTILIE	2445	194	15.6	2	0	59.1
PIONEER	3417	194	15.7	1	1	59.4
NORTHRUP KING	N 6330	193	15.9	2	1	58.9
CROW'S	488	191	15.7	3	1	58.5
EK PREMIUM	EK7796	190	17.9	2	1	58.6
HORIZON	8115	189	17.6	2	1	59.6
SUPERIOR	SP 6022	188	18.3	2	1	58.9
RENZE	6520	188	18.6	3	1	58.7
TRIUMPH	1270	187	15.7	2	1	59.0
HYPERFORMER	HS 9592	187	17.7	1	1	59.5
-----	NEBR. 611	184	17.2	4	1	57.2
CROW'S	697	183	16.2	3	1	59.5
TERRA	TR1090	181	15.9	1	1	58.8
TERRA	TR1120	181	17.5	2	1	59.5
KRUGER	K8109B	179	16.0	1	1	58.9
PIONEER	3467	178	15.6	1	0	60.9
CARGILL	7993	177	18.1	3	1	59.0
RENZE	6341	173	15.9	2	1	58.6
ASGROW	RX746	167	17.1	2	1	59.5
NORTHRUP KING	N 6560	163	17.1	2	0	59.0
AVERAGE ALL ENTRIES		185	16.9	2.0	0.6	59.1
DIF. REQ. FOR SIG.		5%	NS	0.5	NS	0.5
		25%	5.9	0.3	0.6	NS
3 YEAR AVERAGE						
PIONEER	3379	155	18.9	2	1	58.1
CROW'S	488	151	18.1	4	1	57.2
EK PREMIUM	EK7796	150	19.3	3	1	57.2
SUPERIOR	SP 6022	148	19.8	4	1	57.6
PIONEER	3467	144	17.6	2	0	59.1
KRUGER	K8109B	143	18.1	2	1	57.8
TERRA	TR1120	143	19.2	3	0	58.0
-----	NEBR. 611	142	19.4	7	1	55.7

Continued on next page.

East Central District Hybrid Corn Tests. Irrigated and Dryland. 1987 – 1991.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT	BUSHEL WEIGHT LBS
3 YEAR AVERAGE – Continued						
CARGILL	7993	140	19.2	4	1	57.8
RENZE	6341	139	17.6	4	0	57.4
ASGROW	RX746	136	18.4	3	1	58.3
NORTHROP KING	N 6560	135	18.4	4	0	57.9
AVERAGE ALL ENTRIES		144	18.7	3.6	0.7	57.7
DIF. REQ. FOR SIG.	5%	NS	NS	1.0	NS	0.5
	25%	NS	0.4	0.6	NS	0.3
4 YEAR AVERAGE						
PIONEER	3379	142	18.3	2	1	58.4
SUPERIOR	SP 6022	138	19.1	3	1	58.0
CROW'S	488	138	17.3	4	1	57.5
EK PREMIUM	EK7796	134	18.5	2	1	57.7
TERRA	TR1120	132	18.8	3	0	58.2
-----	NEBR. 611	130	18.5	6	1	56.2
CARGILL	7993	130	18.6	3	1	58.0
AVERAGE ALL ENTRIES		135	18.4	3.3	0.8	57.7
DIF. REQ. FOR SIG.	5%	NS	NS	0.9	NS	0.3
	25%	2	0.4	0.5	NS	0.2
5 YEAR AVERAGE						
CROW'S	488	136	17.0	4	1	57.8
SUPERIOR	SP 6022	135	18.5	3	1	58.4
EK PREMIUM	EK7796	134	18.1	2	0	58.1
TERRA	TR1120	132	18.2	2	0	58.5
CARGILL	7993	129	18.1	3	1	58.4
-----	NEBR. 611	128	18.2	6	1	56.2
AVERAGE ALL ENTRIES		132	18.0	3.2	0.7	57.9
DIF. REQ. FOR SIG.	5%	NS	NS	0.7	NS	0.3
	25%	NS	0.3	0.4	0.2	0.2

South Central District Irrigated Corn Hybrid Tests – 1991

Clay and Buffalo Counties

BRAND	HYBRID	Yield			1991 Average		
		AVERAGE BU/A	Clay BU/A	Buffalo BU/A	MOISTURE %	BROKEN PLANTS	DROPPED EARS
CROW'S	488	213	200	225	19.0	3	0
PIONEER	3245	213	194	231	20.4	2	0
SUPERIOR	SP 7291	210	190	230	21.6	2	0
HAWKEYE	SX75	208	201	215	21.8	2	0
CARGILL	7997	208	206	210	21.2	2	0
BO-JAC	642	206	197	214	21.4	3	0
NORTHRUP KING	N 7768	205	206	204	21.2	3	0
AGRIGENE	AG 7720	205	200	210	21.8	3	0
WILSON	EXP.4026	205	197	212	21.5	3	0
JACQUES	8210	204	198	209	21.2	2	0
DEKALB Plant Gen	DK646	203	191	214	20.2	2	0
TERRA	TR353E	203	191	214	21.6	3	0
STINE	1180	203	198	208	21.5	2	0
RENZE	6412	202	192	211	19.9	3	0
RENZE	6520	201	190	212	21.4	2	0
HAWKEYE	7272	201	190	211	19.2	3	0
ASGROW	RX807	201	189	213	21.1	3	0
PIONEER	3189	201	184	217	21.8	1	0
OHLDE	371	200	197	203	21.2	4	0
AGRIGENE	AG 7550	200	191	209	21.0	2	0
HORIZON	9118	199	184	213	21.8	2	0
WILSON	1890	199	192	206	21.5	2	1
HAWKEYE	SX61	199	189	209	21.8	4	0
PAYCO	829	198	190	205	18.5	2	1
SUPERIOR	SP 5448	198	184	211	18.9	2	0
SUPERIOR	SP 7290	198	189	206	22.3	1	0
FONTANELLE	6240	198	180	215	20.8	6	0
CARGILL	6227	198	185	210	17.8	1	0
ASGROW	RX899	197	183	211	21.9	2	0
BO-JAC	592	197	186	208	19.2	2	0
NORTHRUP KING	N 6330	196	198	194	18.4	1	0
NOBLE BEAR	2562	196	174	218	20.8	2	0
NOBLE BEAR	NB 693	196	192	199	21.0	1	0
OHLDE	360	196	190	201	21.8	2	0
PIONEER	3162	196	175	216	22.8	1	0
TERRA	TR3400	195	182	207	21.4	3	0
OHLDE	359	195	184	205	21.8	2	0
BO-JAC	612	195	176	213	20.2	1	0
CARGILL	7993	195	182	207	20.2	1	0
JACQUES	7970	194	185	202	21.7	4	0
HYPERFORMER	HS 9704	194	188	199	20.2	2	0
PIONEER	3379	194	181	207	20.3	1	0
RENZE	6410	193	180	205	21.9	4	0
TRIUMPH	1270	193	182	203	18.8	0	0

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South Central District Irrigated Corn Hybrid Tests – 1991

Clay and Buffalo Counties – Page 2.

BRAND	HYBRID	Yield			1991 Average		
		AVERAGE BU/A	Clay BU/A	Buffalo BU/A	MOISTURE %	BROKEN PLANTS	DROPPED EARS
SUPERIOR	SP 6022	193	182	204	21.1	3	0
DYNA GRO	5561	193	174	211	20.8	3	0
TERRA	TR1120	193	176	209	21.0	2	0
VINEYARD	Vx4490w	193	187	198	22.7	2	0
NORTHRUP KING	S 7751 ##	192	179	205	20.7	2	0
TERRA	TR1090	192	185	199	18.3	2	0
RENZE	6310	192	179	205	18.8	2	0
GOLDEN HARVEST	TH-2572 ##	192	174	210	20.8	2	0
HOEGEMEYER	SX2680 ##	192	185	199	20.8	2	0
NOBLE BEAR	NB 471	191	188	193	18.1	1	0
NC+	5990 ##	191	173	208	21.1	2	0
CROW'S	697	191	182	199	20.2	2	0
STINE	1163	191	177	205	21.4	2	0
FUNKS G	4450	191	187	195	18.0	1	0
HYPERFORMER	HS 9802	190	182	197	21.3	3	0
PAYCO	920	190	179	201	19.8	1	0
DYNA GRO	5550	190	181	198	20.1	3	0
EK PREMIUM	EK7796	190	178	202	21.3	1	0
GERMAIN'S	GC5247	189	189	188	18.8	4	0
NORTHRUP KING	CO8625	189	168	210	20.6	2	0
HORIZON	8115	188	167	209	20.8	2	0
VINEYARD	V424w	187	167	206	21.4	1	0
BO-JAC	467	187	177	197	19.7	1	0
DEKALB Plant Gen	DK636 ##	186	176	196	19.9	1	0
CROW'S	449	186	163	208	18.7	1	0
FONTANELLE	6340	186	173	199	21.9	3	0
EK PREMIUM	EK8805	185	164	206	20.3	1	0
NOBLE BEAR	422	184	178	190	20.1	1	0
PAYCO	909	184	180	187	18.7	2	0
CROW'S	670	183	168	197	21.4	4	0
OHLDE	361	183	167	198	22.2	1	1
HORIZON	717	182	170	194	21.3	2	0
GOLDEN HARVEST	TH-2485	181	164	198	17.6	1	0
-----	NEBR. 611	180	175	184	19.0	7	1
ORO	190	179	172	185	22.3	3	1
HORIZON	7115	178	173	183	19.7	1	0
ASGROW	RX956W	177	151	203	25.6	8	1
HYPERFORMER	HS 9592	175	151	198	20.2	2	0
FUNKS G	4631	170	147	192	22.3	3	0
VINEYARD	V417w	166	152	180	20.4	1	0
Average all entries		193	182	204	20.6	2	0.1
Dif. Req. for Sig. 5%		17	16	16	1.3	2.9	NS
25%		9.9	9	10	0.7	1.7	NS

South Central District Irrigated Corn Hybrid Test 1987 – 1991.

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BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT	BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
2 YEAR AVERAGE						2 YEAR AVERAGE – continued					
JACQUES	8210	190	20.4	3	1	TERRA	TR1120	176	20.0	3	1
OHLDE	371	189	20.7	5	1	TERRA	TR3400	175	20.1	4	3
AGRIGENE	AG 7720	188	21.0	4	2	ORO	190	175	21.2	3	1
SUPERIOR	SP 7290	188	20.8	2	0	NORTHRUP KING	N 6330	175	18.1	3	1
CROW'S	488	186	17.7	5	1	SUPERIOR	SP 6022	174	19.8	3	1
OHLDE	359	186	20.6	2	1	PIONEER	3379	173	18.9	2	1
WILSON	1890	185	21.1	2	1	NORTHRUP KING	S 7751 ##	173	19.8	3	1
RENZE	6412	185	19.2	3	1	NORTHRUP KING	CO8625	173	19.9	3	1
HAWKEYE	SX75	185	21.1	3	0	NOBLE BEAR	422	172	19.7	2	1
RENZE	6520	184	20.9	3	1	HORIZON	8115	172	20.2	3	1
PIONEER	3162	184	21.6	2	0	EK PREMIUM	EK7796	171	20.2	3	2
HORIZON	9118	183	21.0	3	1	VINEYARD	V424w	170	20.4	2	1
ASGROW	RX807	181	20.3	4	2	DEKALB Plant Gen	DK636 ##	168	19.3	2	1
NOBLE BEAR	2562	181	19.9	3	1	CROW'S	670	168	20.9	3	3
SUPERIOR	SP 5448	179	18.3	2	2	EK PREMIUM	EK8805	166	19.5	2	2
GOLDEN HARVEST	H-2572 #	179	19.7	3	1	-----	NEBR. 611	164	18.0	7	2
TERRA	TR1090	178	18.3	3	1	AVERAGE ALL ENTRIES		178	19.9	2.6	0.9
HAWKEYE	SX61	178	20.6	4	1	DIF. REQ. FOR SIG	5%	6.8	0.5	0.9	NS
TRIUMPH	1270	178	18.4	1	1		25%	3.9	0.3	0.5	NS
PIONEER	3189	177	21.2	2	0	3 YEAR AVERAGE					
HORIZON	717	177	20.1	3	0	JACQUES	8210	192	19.8	3	1
CROW'S	449	177	18.3	2	1	AGRIGENE	AG 7720	188	20.3	4	2
CARGILL	7993	177	19.5	2	1	SUPERIOR	SP 7290	187	20.2	2	0
HOEGEMEYER	SX2680 #7	177	19.9	3	1	Continued on next page					
NC+	5990 ##	176	19.9	3	0	Continued on next column					

South Central District Irrigated Corn Hybrid Test 1987 - 1991.

BRAND	HYBRID	GRAIN	GRAIN	BROKEN	DROPPED	BRAND	HYBRID	GRAIN	GRAIN	BROKEN	DROPPED
		YIELD	MOISTURE	PLANTS	EARS			YIELD	MOISTURE	PLANTS	EARS
		BU/A	PCT	PCT	PCT			BU/A	PCT	PCT	PCT
3 YEAR AVERAGE - continued						4 YEAR AVERAGE - continued					
OHLDE	359	186	19.8	2	1	CROW'S	488	184	16.6	5	1
WILSON	1890	184	20.4	2	1	TERRA	TR3400	183	18.2	4	3
CROW'S	488	183	17.2	5	1	SUPERIOR	SP 6022	182	18.3	3	1
TERRA	TR3400	182	18.9	4	3	GOLDEN HARVESTH-2572 #		181	18.2	3	1
RENZE	6412	182	18.4	3	1	CARGILL	7993	179	18.1	2	1
ASGROW	RX807	181	19.5	4	2	NORTHRUP KING S 7751 ##		178	18.3	3	1
GOLDEN HARVESTH-2572 #		177	18.9	3	1	PIONEER	3379	178	17.2	2	1
PIONEER	3189	177	20.1	2	0	NC+	5990 ##	177	18.3	3	0
SUPERIOR	SP 6022	177	19.0	3	1	EK PREMIUM	EK7796	175	18.5	3	2
PIONEER	3379	176	18.1	2	1	DEKALB Plant Gen DK636 ##		168	17.9	2	1
TERRA	TR1120	176	18.9	3	1	EK PREMIUM	EK8805	165	17.9	2	2
CARGILL	7993	176	18.8	2	1	-----	NEBR. 611	160	16.7	7	2
HORIZON	717	174	19.2	3	0	AVERAGE ALL ENTRIES		179	18.1	2.9	0.9
NORTHRUP KING S 7751 ##		174	19.0	3	1	DIF. REQ. FOR SIG 5%		6.5	0.3	0.6	NS
EK PREMIUM	EK7796	173	19.4	3	2	25%		3.8	0.2	0.4	NS
NC+	5990 ##	171	19.1	3	0	5 YEAR AVERAGE					
NORTHRUP KING CO8625		170	19.1	3	1	JACQUES	8210	195	19.6	4	1
DEKALB Plant Gen DK636 ##		170	18.6	2	1	TERRA	TR1120	189	18.8	2	1
EK PREMIUM	EK8805	166	18.8	2	2	HORIZON	717	188	18.6	3	0
-----	NEBR. 611	158	17.4	7	2	CROW'S	488	188	16.7	4	0
AVERAGE ALL ENTRIES		177	19.1	2.7	0.9	SUPERIOR	SP 6022	188	18.6	3	0
DIF. REQ. FOR SIG 5%		5.8	0.4	0.7	NS	TERRA	TR3400	188	18.8	4	2
25%		3.3	0.2	0.4	NS	CARGILL	7993	185	18.7	2	1
4 YEAR AVERAGE						EK PREMIUM	EK7796	179	18.8	3	1
JACQUES	8210	196	19.1	3	1	EK PREMIUM	EK8805	169	18.2	3	1
AGRIGENE	AG 7720	187	19.4	4	2	-----	NEBR. 611	163	17.0	6	1
TERRA	TR1120	186	18.3	3	1	AVERAGE ALL ENTRIES		183	18.4	3.4	0.8
HORIZON	717	184	18.2	3	0	DIF. REQ. FOR SIG 5%		6.3	0.3	NS	NS
Continued on next column						25%		3.6	0.2	0.5	NS

Dixon County Dryland Corn Hybrid Test – 1991

BRAND	HYBRID	AVERAGE BU/A	BROKEN PLANTS	DROPPED EARS	PLANTS /ACRE
PIONEER	3467	119	0	0	16120
CURRY	2176	113	1	0	16700
NC+	4275	112	0	0	16700
MCCURDY	6222	109	0	0	16710
CARGILL	5877	108	0	0	16710
HYPERFORMER	HS 9502	108	0	0	16160
NC+	5717	107	1	0	16210
JACQUES	7970	106	0	0	16730
PIONEER	3362	106	0	0	16360
FUNKS G	4450	106	0	0	16680
BO-JAC	520	106	0	0	16700
CARGILL	7697	106	0	0	16650
MELLOW DENT	9550	105	1	0	16730
MELLOW DENT	9485	105	0	0	16730
GOLDEN HARVEST	H-2485	104	0	0	16680
KRUGER	K9010	104	1	0	16730
OHLDE	210	104	0	0	16290
HORIZON	7115	103	0	0	16500
PIONEER	3398	103	0	0	16730
DYNA GRO	5351	103	0	0	16700
FUNKS G	4472	103	0	0	16690
DYNA GRO	5470	103	0	0	16600
CARGILL	7997	103	0	0	16700
PIONEER	3417	102	0	0	15940
HORIZON	9110	102	0	0	16730
RENZE	6410	102	0	0	16730
SANDS OF IOWA	SOI-1290	99	0	0	16700
CROW'S	488	98	0	0	16260
CROW'S	449	98	1	0	16730
BO-JAC	467	98	0	0	16710
SUPERIOR	SP 5448	97	0	0	16730
SUPERIOR	EXP.05593	96	0	0	16680
KALTENBERG	K7504	95	0	0	16670
HYPERFORMER	HS 9484	95	0	0	16730
SUPERIOR	SP 5908	95	0	0	16640
FUNKS G	4393	94	0	0	16680
SUPERIOR	SP 5991	94	0	0	16450
TERRA	TR1125	94	0	0	16710
OHLDE	200	94	0	0	16210
DEKALB Plant Genetics	DK570	93	0	0	16150
PAYCO	920	92	0	0	16710
RENZE	6341	92	0	0	16690

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Dixon County Dryland Corn Hybrid Test – 1991

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BRAND	HYBRID	AVERAGE BU/A	BROKEN PLANTS	DROPPED EARS	PLANTS /ACRE
CURRY	2165	91	0	0	16490
KRUGER	K8109B	91	0	0	16700
KALTENBERG	K7201	91	0	0	16690
-----	NEBR. 611	91	0	0	16730
ASGROW	RX681	91	0	0	16680
NORTHRUP KING	N 4545	91	0	0	16730
TERRA	TR1120	91	0	0	15520
NORTHRUP KING	N 4242	90	0	0	16730
NORTHRUP KING	N 6330	90	0	0	16730
CURRY	2183	89	0	0	16710
DYNA GRO	5491	89	0	0	16680
STINE	1125	89	0	0	16700
PAYCO	829	89	0	0	16730
KALTENBERG	K7500	88	0	0	16700
TERRA	TR1090	88	0	0	16600
MCCURDY	6660	87	0	0	16700
OHLDE	336	86	0	0	16450
AGRIGENE	AG 6450	86	0	0	16710
CROW'S	498	85	0	0	16600
CROW'S	237	85	0	0	16650
NORTHRUP KING	N 6560	85	0	0	16700
HORIZON	5151	84	0	0	16700
KRUGER	K9111	84	0	0	16730
HYPERFORMER	HS 9492	84	1	0	16670
KRUGER	K8111A	83	0	0	16640
CURRY	2172	83	0	0	16700
HORIZON	9107	83	0	0	16230
RENZE	6338	83	0	0	16730
FONTANELLE	4180	82	0	0	16670
KALTENBERG	K7205	82	0	0	16730
FONTANELLE	4280	82	0	0	16730
SANDS OF IOWA	SOI-9080	81	0	0	15420
MELLOW DENT	9492	81	0	0	16550
WILSON	1444	81	0	0	16670
RENZE	6310	81	0	0	16700
WILSON	1640	80	0	0	16380
NC+	5212	80	0	0	16670
GOLDEN HARVEST	H-2390	78	0	0	16730
ASGROW	RX746	75	0	0	16650
SANDS OF IOWA	SOI-9100	70	0	0	12770
AVERAGE ALL ENTRIES		94	0	0	16540
DIF. REQ. FOR SIG. 5%		20	NS	NS	621
25%		12	NS	NS	366

Northeast District Dryland Corn Hybrid Tests. 1987 - 1991.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
2 YEAR AVERAGE					
FUNKS G	4450	102	14.1	1	0
PIONEER	3467	99	13.9	1	1
KRUGER	K8111A	94	13.6	1	1
MCCURDY	6222	91	13.4	1	1
PIONEER	3362	89	13.5	0	0
RENZE	6341	89	13.7	0	0
SUPERIOR	SP 5908	89	13.3	1	1
PIONEER	3417	87	13.0	1	1
MCCURDY	6660	87	13.7	1	0
NC+	5212	86	13.5	0	1
CROW'S	498	86	14.1	0	1
WILSON	1640	86	13.7	0	1
FUNKS G	4393	86	12.9	1	1
FONTANELLE	4280	86	14.1	0	0
CROW'S	488	86	13.8	1	1
OHLDE	336	85	13.9	0	0
AGRIGENE	AG 6450	85	14.2	1	0
NORTHRUP KING	N 6560	85	13.7	0	1
TERRA	TR1125	85	14.2	0	1
TERRA	TR1120	85	15.0	1	1
HYPERFORMER	HS 9492	83	13.7	1	0
NORTHRUP KING	N 6330	81	13.7	0	1
KALTENBERG	K7500	81	13.8	0	0
ASGROW	RX746	80	14.1	0	0
RENZE	6338	80	13.8	0	0
SUPERIOR	SP 5448	79	13.8	1	1
TERRA	TR1090	79	13.6	0	0
-----	NEBR. 611	78	14.3	1	1
AVERAGE ALL ENTRIES		86	13.8	0.3	0.3
DIF. REQ. FOR SIG.		5%	NS	NS	NS
		25%	NS	NS	NS
3 YEAR AVERAGE					
NORTHRUP KING	N 6560	91	17.3	0	0
KALTENBERG	K7500	90	18.2	1	0
PIONEER	3467	88	17.9	1	0
KRUGER	K8111A	87	17.9	1	0
PIONEER	3362	84	17.4	0	0
RENZE	6341	84	16.9	1	0
FUNKS G	4393	83	16.7	1	0
CROW'S	488	82	18.6	3	1

Continued on next page

Northeast District Dryland Corn Hybrid Tests. 1987 – 1991. Page 2.

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BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
3 YEAR AVERAGE – Continued					
MCCURDY	6660	82	17.9	1	0
SUPERIOR	SP 5908	81	18.7	1	1
TERRA	TR1120	79	20.2	1	1
TERRA	TR1125	79	18.0	0	0
FONTANELLE	4280	78	17.5	0	0
ASGROW	RX746	75	18.1	1	0
RENZE	6338	73	19.1	1	0
SUPERIOR	SP 5448	71	18.4	3	0
-----	NEBR. 611	69	19.3	3	0
AVERAGE ALL ENTRIES		81	18.1	1.1	0.33
DIF. REQ. FOR SIG.		5%	NS	NS	NS
		25%	NS	NS	0.2
4 YEAR AVERAGE					
KALTENBERG	K7500	86	17.9	1	0
KRUGER	K8111A	84	17.5	1	0
MCCURDY	6660	84	17.5	1	0
TERRA	TR1120	83	19.3	1	1
CROW'S	488	81	17.6	4	1
SUPERIOR	SP 5908	81	17.8	1	1
FONTANELLE	4280	79	17.0	1	0
TERRA	TR1125	79	17.7	1	0
ASGROW	RX746	79	17.7	1	0
SUPERIOR	SP 5448	73	17.3	2	1
-----	NEBR. 611	72	18.6	3	0
AVERAGE ALL ENTRIES		80.1	17.8	1.3	0.3
DIF. REQ. FOR SIG.		5%	NS	NS	NS
		25%	NS	0.3	0.2
5 YEAR AVERAGE					
KALTENBERG	K7500	98	17.4	1	0
SUPERIOR	SP 5908	96	17.6	1	0
CROW'S	488	93	17.6	3	1
TERRA	TR1120	93	19.0	1	1
FONTANELLE	4280	91	16.9	1	0
-----	NEBR. 611	84	18.6	2	0
AVERAGE ALL ENTRIES		93	17.8	1.4	0.5
DIF. REQ. FOR SIG.		5%	NS	NS	NS
		25%	NS	0.3	0.2

Pierce County Irrigated Corn Hybrid Test – 1991

BRAND	HYBRID	YIELD BU/A	BROKEN PLANTS	DROPPED EARS	PLANTS /ACRE
CARGILL	7997	209	1	1	26660
CURRY	2172	205	5	0	26360
KRUGER	K9010	202	0	2	26660
MELLOW DENT	9550	196	3	1	26400
NORTHRUP KING	N 6330	195	1	1	26040
KRUGER	K9111	195	1	0	25590
NORTHRUP KING	N 4242	195	1	1	26040
RENZE	6410	194	2	1	26140
DYNA GRO	5470	192	1	0	26090
NC+	5717	192	3	1	26130
HYPERFORMER	HS 9502	190	2	3	26380
CARGILL	7697	190	4	0	26140
KALTENBERG	K7504	189	2	0	25880
MELLOW DENT	9485	187	2	0	26120
PIONEER	3398	187	1	1	26120
-----	NEBR. 611	185	7	2	25270
JACQUES	7970	184	3	1	26100
TERRA	TR1090	184	2	2	26400
SANDS OF IOWA	SOI-1290	183	2	1	25960
PIONEER	3417	182	1	0	26120
SUPERIOR	SP 5908	182	4	0	26660
HYPERFORMER	HS 9484	182	2	0	26050
MCCURDY	6660	181	1	0	26090
PIONEER	3362	180	3	1	26130
RENZE	6310	180	1	0	26400
FUNKS G	4472	180	1	0	26140
SUPERIOR	EXP.05593	179	2	0	26400
DEKALB Plant Gen	DK570	178	1	0	26140
KRUGER	K8109B	178	2	0	26130
DYNA GRO	5491	177	1	0	26120
CURRY	2183	177	0	0	26650
PAYCO	920	177	1	0	25880
CROW'S	488	176	5	2	26120
RENZE	6338	176	1	1	26940
RENZE	6341	176	0	0	26380
TERRA	TR1120	176	3	1	26120
OHLDE	210	176	2	0	25890
PAYCO	829	176	2	1	26140
NC+	4275	175	2	1	26610
BO-JAC	467	175	2	0	26100
SUPERIOR	SP 5448	175	1	0	26400
CROW'S	498	174	3	0	26400
CURRY	2165	173	2	1	26080

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Pierce County Irrigated Corn Hybrid Test – 1991

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BRAND	HYBRID	YIELD BU/A	BROKEN PLANTS	DROPPED EARS	PLANTS /ACRE
CARGILL	5877	173	1	1	26140
AGRIGENE	AG 6450	172	1	0	26360
MCCURDY	6222	171	2	1	26940
CROW'S	449	170	1	0	26120
CURRY	2176	170	1	2	26100
BO-JAC	520	168	2	1	26100
KALTENBERG	K7500	168	1	0	26650
WILSON	1640	168	0	0	26380
NORTHRUP KING	N 6560	168	2	1	26480
SANDS OF IOWA	SOI-9100	168	3	1	26140
NC+	5212	166	2	2	26350
ASGROW	RX681	166	2	0	26680
SUPERIOR	SP 5991	166	1	0	26140
KALTENBERG	K7201	165	0	0	25880
PIONEER	3467	165	2	0	26140
ASGROW	RX746	164	2	0	26140
OHLDE	200	163	2	0	26130
FUNKS G	4450	163	4	0	25960
CROW'S	237	163	4	0	25790
KALTENBERG	K7205	162	0	1	26660
STINE	1125	162	1	0	26120
HORIZON	5151	161	3	1	26120
FONTANELLE	4280	161	3	0	26140
HORIZON	9110	161	1	0	26400
TERRA	TR1125	160	1	1	26330
HYPERFORMER	HS 9492	160	2	0	26490
GOLDEN HARVEST	H-2485	159	1	0	26380
KRUGER	K8111A	159	1	0	26340
HORIZON	7115	159	3	0	26660
FUNKS G	4393	158	0	0	26140
GOLDEN HARVEST	H-2390	157	2	0	26140
OHLDE	336	157	4	1	26400
MELLOW DENT	9492	156	2	0	26390
HORIZON	9107	155	3	1	25590
SANDS OF IOWA	SOI-9080	151	2	1	26400
WILSON	1444	147	5	1	26400
FONTANELLE	4180	143	1	0	26140
DYNA GRO	5351	138	6	2	26040
NORTHRUP KING	N 4545	133	1	1	26220
AVERAGE ALL ENTRIES		173	5	1	26228
DIF. REQ. FOR SIG. 5%		20	3	NS	NS
25%		12	2	1	NS

Northeast District Irrigated Corn Hybrid Tests 1987 – 1991.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
2 YEAR AVERAGE					
SUPERIOR	SP 5908	186	19.5	2	4
SUPERIOR	SP 5448	182	18.9	1	5
NORTHRUP KING	N 6330	180	19.4	1	3
RENZE	6338	178	19.0	1	4
CROW'S	498	177	20.5	2	3
FONTANELLE	4280	175	19.8	2	3
MCCURDY	6660	175	19.3	1	3
FUNKS G	4450	174	19.6	2	3
MCCURDY	6222	174	19.2	1	4
CROW'S	488	173	20.5	3	6
TERRA	TR1125	173	18.6	1	3
NORTHRUP KING	N 6560	171	20.0	1	2
PIONEER	3362	171	18.2	2	4
PIONEER	3417	171	18.5	1	2
PIONEER	3467	170	19.8	1	2
RENZE	6341	170	19.5	0	3
KALTENBERG	K7500	170	18.9	1	3
TERRA	TR1090	170	20.6	1	4
WILSON	1640	168	19.5	0	3
-----	NEBR. 611	167	20.7	4	8
NC+	5212	167	19.7	1	4
KRUGER	K8111A	166	20.1	1	3
TERRA	TR1120	166	20.3	2	2
ASGROW	RX746	164	20.8	1	3
AGRIGENE	AG 6450	164	19.5	1	2
FUNKS G	4393	164	17.2	1	1
HYPERFORMER	HS 9492	162	19.3	1	2
OHLDE	336	157	19.8	2	3
AVERAGE ALL ENTRIES		171	19.5	1.1	3.0
DIF. REQ. FOR SIG.		5%	NS	NS	NS
		25%	NS	NS	0.9
3 YEAR AVERAGE					
SUPERIOR	SP 5908	192	18.1	3	3
SUPERIOR	SP 5448	183	17.7	1	4
RENZE	6338	179	17.7	2	2
MCCURDY	6660	178	18.0	1	2
RENZE	6341	177	18.3	0	2
CROW'S	488	177	18.5	3	4
KALTENBERG	K7500	176	18.2	1	2
PIONEER	3362	176	17.6	2	2

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Northeast District Irrigated Corn Hybrid Tests 1987 – 1991. Page 2.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT
3 YEAR AVERAGE – continued					
NORTHRUP KING	N 6560	174	18.6	1	1
FONTANELLE	4280	173	18.5	1	2
TERRA	TR1125	173	18.5	0	2
ASGROW	RX746	172	19.1	1	2
TERRA	TR1120	171	18.9	2	1
PIONEER	3467	169	18.2	1	2
KRUGER	K8111A	168	18.6	1	2
FUNKS G	4393	167	16.3	1	1
-----	NEBR. 611	162	18.9	4	6
AVERAGE ALL ENTRIES		175	18.2	1.5	2.2
DIF. REQ. FOR SIG.	5%	NS	NS	1.0	NS
	25%	NS	0.3	0.6	0.7
4 YEAR AVERAGE					
SUPERIOR	SP 5908	195	17.9	3	2
CROW'S	488	188	18.1	3	3
KALTENBERG	K7500	182	18.2	1	1
TERRA	TR1120	182	18.5	2	1
SUPERIOR	SP 5448	181	17.6	1	3
ASGROW	RX746	177	18.8	1	2
MCCURDY	6660	177	17.9	1	1
TERRA	TR1125	176	18.4	1	2
FONTANELLE	4280	174	18.6	1	1
-----	NEBR. 611	172	18.4	4	4
KRUGER	K8111A	171	18.6	1	2
AVERAGE ALL ENTRIES		180	18.3	1.7	1.9
DIF. REQ. FOR SIG.	5%	NS	NS	0.9	NS
	25%	NS	NS	0.5	0.6
5 YEAR AVERAGE					
SUPERIOR	SP 5908	197	17.8	3	2
CROW'S	488	186	18.1	3	3
KALTENBERG	K7500	183	17.9	1	1
TERRA	TR1120	183	18.5	1	1
FONTANELLE	4280	175	18.4	1	1
-----	NEBR. 611	173	18.3	4	3
AVERAGE ALL ENTRIES		183	18.1	2.2	1.73
DIF. REQ. FOR SIG.	5%	NS	NS	0.8	NS
	25%	4.8	NS	0.5	0.6

West Central District Irrigated Corn Hybrid Test – 1991

Lincoln and Dundy Counties.

BRAND	HYBRID	Yield			1991 Average				
		AVERAGE BU/A	Lincoln BU/A	Dundy BU/A	MOISTURE %	BROKEN PLANTS	DROPPED EARS	BUSHEL WEIGHT	Early Stalk Breakage ¹
DYNA GRO	5470	234	219	249	13.9	5	2	59.0	3
PAYCO	829	231	211	250	14.0	5	1	59.7	2
MCCURDY	7372	231	218	243	15.9	2	1	60.7	4
BO-JAC	520	230	206	253	13.6	2	1	60.1	4
FONTANELLE	6240	226	223	228	14.7	0	1	58.8	11
PAYCO	920	226	212	239	15.3	1	1	58.7	6
TERRA	TR1120	226	222	230	15.1	4	1	59.5	4
RENZE	6412	226	210	241	15.0	2	1	62.0	4
BO-JAC	642	226	233	218	15.3	1	2	59.2	21
HAWKEYE	SX32	222	197	247	13.9	5	2	61.5	3
TERRA	TR353E	222	218	225	15.4	0	1	59.9	16
OTILIE	2445	221	196	245	13.7	3	2	59.3	4
HAWKEYE	SX61	220	214	226	15.5	1	1	58.1	16
RENZE	6410	218	220	216	15.8	2	1	58.6	13
HORIZON	9110	217	193	240	14.0	3	1	59.7	5
RENZE	6520	215	211	218	16.0	6	1	59.9	10
HAWKEYE	7272	214	208	219	14.0	2	1	60.5	14
FUNKS G	4450	213	192	234	14.4	6	2	60.4	3
MCCURDY	7366	213	213	212	15.3	4	1	59.5	14
CROW'S	697	211	213	208	15.1	0	0	58.8	16
HORIZON	7115	208	204	211	14.5	8	0	61.4	5
ASGROW	RX727	206	199	213	15.2	6	1	59.9	8
AGRIGENE	AG 6450	205	189	221	14.7	7	1	60.5	3
BO-JAC	592	205	207	203	14.1	8	1	59.9	18
AGRIGENE	AG 7550	203	195	211	15.5	6	1	59.2	14
DYNA GRO	5491	201	176	226	14.5	7	0	59.8	3
CROW'S	498	201	188	213	14.4	8	0	61.4	5
NORTHRUP KING	N 6560	200	194	205	14.4	4	1	62.7	7
BO-JAC	601	197	213	181	15.6	1	0	58.8	40
CROW'S	488	196	182	210	13.2	5	2	60.4	17
GERMAIN'S	GC6252	196	221	171	15.2	3	1	60.1	16
GERMAIN'S	GC85306	195	177	213	14.1	3	1	59.7	7
TERRA	TR1125	195	176	213	14.3	5	0	60.0	1
-----	NEBR. 611	194	184	204	14.9	1	1	57.5	7
OTILIE	2465	193	183	202	14.7	9	1	61.8	3
PAYCO	909	192	179	205	14.6	7	1	62.3	3

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West Central District Irrigated Corn Hybrid Test – 1991

Lincoln and Dundy Counties – Page 2.

BRAND	HYBRID	Yield			1991 Average				
		AVERAGE BU/A	Lincoln BU/A	Dundy BU/A	MOISTURE %	BROKEN PLANTS	DROPPED EARS	BUSHEL WEIGHT	Early Stalk Breakage ¹
PIONEER	3467	192	187	197	13.9	1	1	60.9	10
WILSON	1444	189	167	210	13.0	2	1	62.2	4
RENZE	6310	189	190	187	13.7	1	0	58.6	7
GOLDEN HARVESTH–2485		189	168	210	13.7	3	1	58.6	9
CROW'S	449	186	177	194	14.0	1	1	59.9	5
FUNKS G	4485	186	174	198	14.5	5	0	60.6	7
WILSON	EXP.4224	183	172	194	13.7	0	1	58.6	7
EK PREMIUM	EK8805	183	156	209	11.6	2	1	60.5	3
ASGROW	RX681	181	165	197	13.8	3	1	60.5	5
HORIZON	9107	178	164	192	14.1	1	0	62.7	5
HORIZON	5151	178	172	183	12.0	1	0	61.5	17
PIONEER	3417	175	179	171	13.2	0	1	60.1	22
DEKALB Plant Gen DK554		170	166	174	11.8	1	1	60.5	14
GOLDEN HARVESTH–2390		168	145	191	12.0	2	0	59.4	16
CROW'S	179	166	153	178	11.3	1	1	61.5	9
GOLDEN HARVESTH–2343		102	153	51	11.2	0	0	56.6	82
Average all entries		202	190	210	14.6	3.2	0.5	60.0	42
Dif. Req. for Sig. 5%		38.3	28	7	1.1	NS	NS	NS	NS
25%		22.3	16	4	0.6	NS	NS	NS	NS

¹ Severe stalk breakage in Dundy County early in season from strong wind

West Central Irrigated Corn Hybrid Tests. 1987 – 1991.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT	BUSHEL WEIGHT LBS
2 YEAR AVERAGE						
BO-JAC	520	205	14.7	4	1	58.4
OTILIE	2445	196	14.6	4	2	57.7
FUNKS G	4450	191	14.9	7	2	57.9
NORTHRUP KING	N 6560	191	15.8	4	2	59.6
HORIZON	7115	188	16.3	6	1	59.2
BO-JAC	601	188	17.1	9	3	56.2
ASGROW	RX727	188	16.3	7	2	57.7
OTILIE	2465	184	16.2	7	1	58.8
CROW'S	488	183	13.9	7	2	58.3
PIONEER	3467	182	14.5	2	1	60.3
-----	NEBR. 611	174	16.2	9	2	55.1
PIONEER	3417	171	14.0	2	2	59.4
CROW'S	449	170	14.5	2	1	58.4
HORIZON	9107	162	14.5	4	1	61.0
AVERAGE ALL ENTRIES		184	15.2	5.1	1.5	58.4
DIF. REQ. FOR SIG.		5%	0.7	0.4	NS	0.8
		25%	0.4	0.2	NS	0.4
3 YEAR AVERAGE						
CROW'S	488	176	13.4	7	1	57.3
NORTHRUP KING	N 6560	176	15.2	6	1	59.0
BO-JAC	601	175	16.3	7	2	56.0
HORIZON	7115	170	15.4	6	1	58.6
PIONEER	3467	170	13.6	2	1	59.0
-----	NEBR. 611	163	15.5	8	1	54.0
CROW'S	449	163	14.5	3	0	57.1
AVERAGE ALL ENTRIES		170	14.9	5.7	1.1	57.2
DIF. REQ. FOR SIG.		5%	NS	0.4	NS	0.7
		25%	NS	0.2	NS	0.4
4 YEAR AVERAGE						
CROW'S	488	176	14.8	6	1	57.3
-----	NEBR. 611	165	17.2	8	1	54.0
AVERAGE ALL ENTRIES		170	16.0	7.3	1	55.6
DIF. REQ. FOR SIG.		5%	NS	0.5	NS	0.2
		25%	2.5	0.2	NS	0.1
5 YEAR AVERAGE						
CROW'S	488	182	14.3	6	1	57.3
-----	NEBR. 611	174	16.4	8	1	54.0
AVERAGE ALL ENTRIES		178	15.3	6.8	0.9	55.6
DIF. REQ. FOR SIG.		5%	4.4	0.5	NS	0.2
		25%	2.1	0.2	NS	0.1

Keith County Irrigated Corn Hybrid Test. 1991.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BUSHEL WEIGHT LBS	PLANTS PER ACRE
HORIZON	9110	228	21.1	58.0	36830
OTILIE	2465	224	22.4	56.3	34340
COOP	2244	222	22.3	56.2	33600
NC+	4275	219	20.4	56.5	36510
PIONEER	3417	217	20.6	58.2	32120
WILSON	EXP.4224	214	21.4	55.9	31060
WILSON	1640	210	23.0	56.1	32820
ASGROW	RX681	194	21.4	57.8	33700
FUNKS G	4393	191	19.6	57.8	29450
FUNKS G	4385	190	19.7	57.7	29030
PIONEER	3563	189	19.0	60.0	34400
DEKALB Plant Gen	DK535	182	19.2	58.2	34270
COOP	2095	181	19.5	57.5	34460
HORIZON	5151	174	19.4	57.6	31290
PIONEER	3578	166	19.4	57.8	31270
AVERAGE ALL ENTRIES		199	20.5	57.5	33073
DIF. REQ. FOR SIG. 5%		15	0.6	1.2	2747
25%		9	0.4	0.7	1593

Keith County Irrigated Corn Hybrid Tests. 1990 – 1991.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BUSHEL WEIGHT LBS
2 YEAR AVERAGE				
OTILIE	2465	192	22.6	54.7
WILSON	1640	184	20.9	56.1
DEKALB Plant Gen	DK535	167	20.6	55.9
PIONEER	357E	156	19.3	57.6
AVERAGE ALL ENTRIES		175	20.8	56.0
DIF. REQ. FOR SIG. 5%		NS	NS	NS
25%		9.0	NS	NS

Central Irrigated Corn Hybrid Tests – 1991

Custer and Dawson Counties

BRAND	HYBRID	Yield			1991 Average			
		AVERAGE BU/A	Custer BU/A	Dawson BU/A	MOISTURE %	BROKEN PLANTS	DROPPED EARS	BUSHEL WEIGHT
JACQUES	8210	219	209	228	22.9	2	0	55.5
OTILIE	2445	217	214	220	20.5	1	0	56.8
BO-JAC	592	216	215	216	20.3	2	0	57.9
CARGILL	6227	215	208	221	21.1	1	0	56.9
SUPERIOR	SP 7290	214	204	224	22.9	2	0	56.8
CURRY	1496	214	204	223	22.2	2	0	55.2
BO-JAC	520	214	209	219	21.0	2	0	55.6
NORTHRUP KING	N 6330	212	208	216	20.9	2	0	56.8
BO-JAC	612	211	194	227	21.8	1	0	55.7
CURRY	2176	211	202	219	19.2	1	0	54.0
PIONEER	3417	211	219	202	19.1	1	0	57.9
FONTANELLE	6240	210	207	213	22.1	3	0	55.4
CURRY	2165	209	211	207	18.8	2	0	57.1
CURRY	2183	208	216	199	19.7	1	0	56.5
CROW'S	488	208	201	215	19.4	3	0	56.0
PAYCO	829	208	200	216	21.1	2	0	56.9
PIONEER	3398	208	202	213	19.7	1	0	58.2
NC+	4616	208	203	213	21.0	2	0	56.9
SUPERIOR	SP 7291	207	202	211	22.5	2	0	54.3
CARGILL	7697	206	198	213	21.3	3	0	58.6
NORTHRUP KING	N 7768	205	203	207	23.1	2	0	55.2
HORIZON	9110	205	197	213	20.8	1	0	56.3
SUPERIOR	SP 5448	204	196	211	21.3	1	0	55.6
HORIZON	7113	203	201	205	21.2	1	0	55.3
SUPERIOR	SP 6022	202	184	220	22.3	2	1	56.4
FUNKS G	4450	202	197	206	21.2	1	0	55.9
GARRISON SG	SG-8515	201	187	214	22.1	2	0	56.3
PAYCO	920	200	192	207	21.9	0	0	55.3
CROW'S	697	199	183	214	22.1	2	0	56.3
PIONEER	3394	199	192	206	18.8	1	0	57.8
GARRISON SG	SG-8545	199	189	209	21.6	3	0	56.4
PIONEER	3467	199	198	200	19.1	1	0	58.6
OTILIE	2465	198	198	197	20.2	1	0	56.4
WILSON	EXP.4224	198	199	197	19.8	2	0	55.1
PAYCO	909	197	193	201	20.7	1	0	57.4
HORIZON	8115	197	187	207	22.2	2	0	56.9
CROW'S	498	195	198	192	20.3	2	0	57.3
HORIZON	7115	194	196	191	20.3	1	0	57.0
ASGROW	RX746	193	186	199	20.7	2	0	56.1
CROW'S	449	192	192	192	20.1	0	0	56.4
CURRY	2172	189	168	210	20.1	2	0	55.6
WILSON	1444	188	195	181	18.8	2	0	58.2
FUNKS G	4485	186	183	188	19.2	2	0	57.7

Continued on next page.

Central Irrigated Corn Hybrid Tests – 1991

Custer and Dawson Counties – Page 2.

BRAND	HYBRID	Yield			1991 Average			
		AVERAGE BU/A	Custer BU/A	Dawson BU/A	MOISTURE %	BROKEN PLANTS	DROPPED EARS	BUSHEL WEIGHT
DEKALB Plant Ge	nDK570	186	185	186	18.6	1	0	56.1
HORIZON	9107	183	185	180	18.9	1	0	58.9
VINEYARD	Vx4490w	182	159	204	23.6	1	0	55.8
ASGROW	RX681	179	174	183	18.4	2	0	57.9
-----	NEBR. 611	179	167	191	22.0	4	0	52.9
VINEYARD	V424w	175	146	203	22.8	1	0	55.9
VINEYARD	V417w	174	162	185	19.7	2	0	59.1
Average all entries		200	194	207	20.8	1	0.1	56.5
Dif. Req. for Sig. 5%		21	17	17	2.3	1	NS	1.9
25%		12	10	10	1.4	1	NS	1.1

Central Irrigated Corn Hybrid Tests.

1990 – 1991.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT	BUSHEL WEIGHT LBS
2 YEAR AVERAGE						
BO-JAC	520	208	20.6	3	1	56.7
PIONEER	3417	206	19.2	4	0	58.2
OTTILIE	2445	206	20.3	4	1	57.4
SUPERIOR	SP 5448	205	20.7	3	0	56.7
HORIZON	7113	204	20.4	2	0	57.0
CARGILL	6227	204	20.8	1	0	57.5
NORTHRUP KING	N 6330	203	20.5	4	1	57.2
HORIZON	7115	202	20.7	2	1	57.2
NC+	4616	200	20.5	2	1	54.9
CROW'S	488	199	19.3	11	0	56.0
PIONEER	3467	199	19.0	3	0	59.1
OTTILIE	2465	198	21.0	1	0	56.9
FUNKS G	4450	198	20.6	2	0	57.0
ASGROW	RX746	197	21.0	3	0	57.3
CROW'S	449	190	19.9	1	1	57.3
HORIZON	9107	180	18.7	3	0	59.7
-----	NEBR. 611	177	21.9	8	0	53.6
AVERAGE ALL ENTRIES		198	20.3	3.1	0.2	57.0
DIF. REQ. FOR SIG		5%	5.2	0.4	NS	0.7
		25%	2.9	0.2	1.0	0.4

Southwest Irrigated Corn Hybrid Tests – 1991 Furnas and Red Willow Counties.

BRAND	HYBRID	Yield			1991 Average			
		AVERAGE BU/A	Furnas BU/A	Red Will BU/A	MOISTURE %	BROKEN PLANTS	DROPPED EARS	BUSHEL WEIGHT
SUPERIOR	SP 6022	239	230	247	17.2	2	0	61.9
SUPERIOR	SP 7291	235	219	250	18.0	3	0	60.6
BO-JAC	642	233	224	241	17.7	2	0	60.7
OTILIE	2475	231	217	244	16.6	3	1	60.7
ASGROW	RX899	231	228	233	17.9	2	0	61.4
VINEYARD	V58w	231	224	238	18.3	1	0	61.4
DYNA GRO	5561	230	221	239	17.1	2	1	61.8
NORTHRUP KING	CO8625	228	221	235	16.8	2	0	62.4
PIONEER	3245	226	212	239	16.8	1	1	62.4
WILSON	1890	225	213	236	18.4	2	0	60.1
COOP	2325	225	213	236	17.0	2	0	61.7
ASGROW	RX807	225	215	234	17.3	2	0	60.4
BO-JAC	601	225	206	243	17.4	2	0	60.6
HORIZON	8115	223	213	233	16.6	2	1	62.6
WILSON	EXP.4026	223	199	246	17.5	2	1	60.2
JACQUES	8210	223	217	228	17.8	1	0	61.5
PRAIRIE STREAM	SX726	222	212	232	18.1	1	1	60.8
DYNA GRO	5550	221	216	226	17.3	1	0	61.7
CARGILL	7997	220	217	223	17.0	2	0	61.6
OTILIE	2480	219	204	234	16.8	1	0	62.1
OTILIE	2488	219	214	224	17.8	2	0	61.5
AGRIGENE	AG 7720	218	207	228	17.6	1	0	61.0
NC+	5717	218	218	217	16.1	2	1	61.1
CROW'S	669	217	209	224	18.5	1	0	60.7
NC+	6414	216	199	232	16.2	1	0	59.3
SUPERIOR	SP 7290	215	200	230	18.0	1	0	60.8
PIONEER	3162	215	204	226	18.2	2	0	61.1
CARGILL	7697	215	208	222	16.4	2	0	61.9
HORIZON	9118	215	205	225	17.8	1	0	61.4
TRIUMPH	1595	214	228	200	17.2	1	0	61.9
STINE	1180	214	201	226	17.9	1	0	61.4
PAYCO	920	214	196	232	16.9	1	0	61.3
FONTANELLE	6240	214	193	234	16.6	2	1	60.3
BO-JAC	592	214	202	226	15.6	3	0	61.5
CROW'S	697	213	199	227	16.4	1	0	61.6
CROW'S	670	212	217	207	17.0	3	1	61.1

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Southwest Irrigated Corn Hybrid Tests – 1991

Furnas and Red Willow Counties. Page 2.

BRAND	HYBRID	Yield			1991 Average			
		AVERAGE BU/A	Furnas BU/A	Red Will BU/A	MOISTURE %	BROKEN PLANTS	DROPPED EARS	BUSHEL WEIGHT
VINEYARD	V424w	212	209	215	17.2	1	0	62.1
FONTANELLE	6340	212	208	215	17.9	1	0	61.4
NORTHRUP KING	N 7768	211	203	219	17.8	4	0	60.8
DEKALB Plant Ge	nDK646	211	201	220	15.8	2	0	60.2
PIONEER	3417	209	193	224	15.6	1	0	59.5
VINEYARD	Vx4490w	207	205	208	18.4	1	1	63.5
HORIZON	9110	206	202	209	14.9	1	0	60.7
PAYCO	829	206	202	209	14.6	2	1	61.1
PIONEER	3394	206	209	202	15.2	1	0	60.8
BO-JAC	612	206	186	226	17.1	0	1	60.9
SUPERIOR	SP 5448	204	208	200	15.3	2	0	59.6
OHLDE	280	204	190	218	14.3	1	0	59.2
ORO	190	204	216	191	17.9	1	0	61.6
OHLDE	210	202	194	209	15.1	1	0	60.3
AGRIGENE	AG 7550	201	204	197	17.9	1	0	60.5
GARRISON SG	SG-8545	200	201	199	16.8	1	0	61.1
PRAIRIE STREAM	SX704	199	198	199	16.6	0	0	61.2
PRAIRIE STREAM	SX555	197	198	196	16.6	1	0	61.7
GERMAIN'S	GC88101	196	205	187	17.0	5	1	60.0
SUPERIOR	EXP.05593	195	182	208	15.5	1	0	61.6
COOP	2244	195	193	196	16.5	2	0	60.9
-----	NEBR. 611	195	207	182	16.6	6	1	59.0
GARRISON SG	SG-8515	193	197	189	17.0	1	0	61.5
PAYCO	909	191	178	203	16.6	1	0	61.4
TRIUMPH	TRX1630	191	216	165	18.7	1	0	58.0
HORIZON	7115	189	188	190	16.7	1	0	61.3
CARGILL	5327	176	175	177	14.2	2	1	60.1
PRAIRIE STREAM	M7000	173	176	170	17.0	1	1	60.6
OHLDE	200	170	166	173	14.3	1	0	60.1
PRAIRIE STREAM	SX565	169	178	159	17.4	4	1	61.2
Average all entries		210	205	217	16.9	1.4	0.2	61.0
Dif. Req. for Sig. 5%		18.3	22	19	1.21	NS	NS	1.37
25%		10.6	13	11	0.7	1.4	0.3	0.8

Southwest Irrigated Corn Hybrid Test. 1989 – 1991.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT	BUSHEL WEIGHT LBS
2 YEAR AVERAGE						
SUPERIOR	SP 7291	246	18.5	3	0	60.3
BO-JAC	601	239	18.4	2	0	59.5
SUPERIOR	SP 6022	237	18.0	2	0	61.3
HORIZON	8115	229	17.8	2	1	61.9
OTILIE	2480	229	17.9	1	0	61.7
ASGROW	RX807	227	18.1	2	0	59.8
TRIUMPH	1595	226	18.2	1	0	61.0
NORTHROP KING	CO8625	226	17.9	2	0	61.8
JACQUES	8210	224	18.4	1	0	60.7
CROW'S	670	224	17.9	3	1	60.4
WILSON	1890	224	19.4	2	0	59.7
PRAIRIE STREAM	SX726	223	18.6	1	1	59.6
SUPERIOR	SP 7290	221	18.9	1	0	60.9
PIONEER	3162	219	19.5	2	0	61.2
OTILIE	2488	218	18.6	2	0	60.9
HORIZON	9118	216	18.7	1	0	60.6
CROW'S	697	215	17.3	1	0	61.6
VINEYARD	V58w	214	18.6	1	0	61.1
PRAIRIE STREAM	SX555	211	17.9	1	0	60.9
SUPERIOR	SP 5448	211	16.5	2	0	59.8
VINEYARD	V424w	208	18.0	1	0	60.9
PRAIRIE STREAM	SX704	205	17.2	0	0	59.8
PRAIRIE STREAM	M7000	192	18.0	1	1	59.8
-----	NEBR. 611	188	17.2	6	1	58.9
AVERAGE ALL ENTRIES		219	18.1	1.7	0.2	60.6
DIF. REQ. FOR SIG.		5%	7.3	0.2	NS	0.4
		25%	4.1	0.1	NS	0.2
3 YEAR AVERAGE						
SUPERIOR	SP 6022	228	16.9	2	0	61.8
ASGROW	RX807	219	16.9	3	0	60.4
WILSON	1890	215	18.5	2	0	59.7
JACQUES	8210	215	17.6	2	0	60.9
NORTHROP KING	CO8625	214	16.8	2	0	61.7
TRIUMPH	1595	211	16.9	2	1	61.5
PRAIRIE STREAM	SX726	210	17.5	2	2	60.3
SUPERIOR	SP 7290	208	17.8	1	0	61.0
PRAIRIE STREAM	SX555	203	16.8	1	0	61.5
PRAIRIE STREAM	M7000	193	17.1	2	1	60.7
-----	NEBR. 611	178	16.1	4	1	59.2
AVERAGE ALL ENTRIES		208.5	17.2	1.7	0.3	60.8
DIF. REQ. FOR SIG.		5%	5.7	0.2	NS	0.3
		25%	3.2	0.1	NS	0.2

North Central Irrigated Corn Tests – 1991

Brown County Gravity and Pivot Irrigation

BRAND	HYBRID	Yield			1991 Average			
		AVERAGE BU/A	Gravity BU/A	Pivot BU/A	MOISTURE %	BROKEN PLANTS	DROPPED EARS	BUSHEL WEIGHT
OTILIE	2445	201	205	197	20.8	2	0	56.6
CURRY	2165	196	208	183	19.7	1	0	57.4
COOP	2185	193	197	188	20.4	1	0	57.0
SUPERIOR	SP 5448	193	203	182	20.7	2	0	57.8
RENZE	6338	191	196	185	20.5	1	0	57.8
CARGILL	4327	191	193	188	19.4	2	1	58.4
OTILIE	2465	191	194	188	21.1	2	1	56.4
SUPERIOR	SP 4692	190	192	187	20.6	2	0	58.5
SUPERIOR	SP 5092	188	193	183	19.9	2	0	57.9
FUNKS G	4393	187	185	189	19.5	1	0	58.6
SUPERIOR	SP 5527	187	184	190	22.1	2	0	57.1
JACQUES	7770	186	189	182	21.1	2	0	57.3
NC+	4275	185	187	182	20.1	2	1	56.0
CURRY	4442	185	185	184	19.6	1	0	58.7
NORTHRUP KING	N 6560	183	195	171	21.1	2	0	57.7
AGRIGENE	AG 4500	183	190	176	19.4	1	1	57.2
OTILIE	2432	181	187	175	20.3	2	0	58.9
RENZE	6341	180	183	177	22.0	2	0	55.1
COOP	2095	179	185	173	20.1	1	0	57.1
WILSON	1640	178	178	177	21.2	2	0	57.2
ASGROW	RX681	177	182	172	20.7	3	0	57.3
CARGILL	5327	176	182	169	20.0	1	1	58.2
DEKALB Plant Gen	DK535	176	181	170	19.6	2	0	56.6
RENZE	6410	176	188	163	24.0	4	0	55.4
FUNKS G	4385	174	193	154	19.9	1	0	57.8
GOLDEN HARVESTH	2390	174	178	170	19.1	1	0	57.4
NC+	3795	173	176	170	19.8	1	0	58.2
CURRY	2149	173	180	165	19.1	2	0	59.7
FONTANELLE	4020	172	173	170	19.7	2	0	58.7
HORIZON	5151	172	184	159	19.8	1	1	57.8
NORTHRUP KING	N 4545	171	181	161	19.4	3	0	57.8
GOLDEN HARVESTH	2343	170	170	170	18.8	3	1	58.6
HORIZON	9107	170	175	164	20.0	2	0	60.2
SUPERIOR	SP 3459	168	169	166	19.5	2	1	57.9
SUPERIOR	SP 5291	168	173	162	20.1	2	1	56.8
WILSON	EXP.4224	165	175	155	20.1	3	0	56.9
HORIZON	6101	164	166	161	19.4	1	0	58.7
VINEYARD	V417w	159	165	153	19.9	2	0	58.8
RENZE	6310	155	162	148	20.2	3	0	56.0
CURRY	2172	154	159	148	20.4	2	0	55.0
Average all entries		179	183	173	20.1	1.5	0.2	57.6
Dif. Req. for Sig. 5%		12.6	15	23	0.8	1.5	NS	1.4
25%		7.3	9	13	0.5	0.8	NS	0.8

North Central Irrigated Corn Tests. 1989 – 1991.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT	BUSHEL WEIGHT LBS
2 YEAR AVERAGE						
SUPERIOR	SP 5448	199	23.6	2	0	56.2
OTILIE	2445	196	23.9	2	0	55.5
SUPERIOR	SP 5527	196	24.3	2	0	56.4
RENZE	6338	192	23.5	1	0	56.3
NC+	4275	191	22.7	2	1	55.2
AGRIGENE	AG 4500	188	21.6	1	1	55.8
NORTHRUP KING	N 6560	186	23.7	2	0	56.7
WILSON	1640	184	23.9	2	0	55.7
RENZE	6341	182	24.2	2	0	54.3
CARGILL	5327	174	22.1	1	1	56.7
CARGILL	4327	173	20.0	2	1	56.9
DEKALB Plant Ge	nDK535	171	20.9	2	0	55.6
SUPERIOR	SP 5291	170	22.9	2	1	55.9
SUPERIOR	SP 3459	169	20.1	2	1	57.3
HORIZON	6101	163	20.4	1	0	57.7
HORIZON	9107	163	22.0	2	0	58.5
AVERAGE ALL ENTRIES		181	22.5	1.8	0.4	56.3
DIF. REQ. FOR SIG.		5%	6.2	0.8	NS	0.3
		25%	3.5	0.4	NS	0.2
3 YEAR AVERAGE						
SUPERIOR	SP 5448	186	20.5	2	0	56.4
SUPERIOR	SP 5527	181	22.2	2	0	56.2
NORTHRUP KING	N 6560	178	21.1	1	0	56.9
WILSON	1640	177	21.2	1	0	55.7
AGRIGENE	AG 4500	176	18.7	1	1	56.1
RENZE	6341	174	21.5	1	0	54.5
CARGILL	4327	165	17.4	2	1	56.9
AVERAGE ALL ENTRIES		177	20.4	1.1	0.1	56.1
DIF. REQ. FOR SIG.		5%	NS	0.5	NS	0.3
		25%	NS	0.3	0.1	NS

West Central District Ecofallow Corn Hybrid Tests – 1991

Lincoln, Custer, and Perkins Counties.

BRAND	HYBRID	Yield				1991 Average			
		AVERAGE BU/A	Lincoln BU/A	Custer BU/A	Perkins BU/A	MOISTURE %	BROKEN PLANTS	DROPPED EARS	BUSHEL WEIGHT
GOLDEN HARVEST	H-2404	93	72	121	87	13.1	1	0	56.3
WILSON	1640	91	67	110	97	14.4	1	0	54.1
CARGILL	6927	90	68	105	97	14.8	0	0	54.6
SUPERIOR	SP 5527	89	66	107	95	14.6	0	0	55.2
PIONEER	3563	89	65	113	88	12.2	1	1	56.5
GOLDEN HARVEST	H-2390	89	64	109	94	13.0	1	0	55.8
DYNA GRO	5491	87	61	106	95	14.3	1	0	54.7
PIONEER	3475	87	64	109	88	13.2	1	1	54.7
ASGROW	RX746	87	67	98	96	14.8	1	0	54.6
DEKALB Plant Gen	DK554	82	67	101	79	13.9	0	0	53.2
CARGILL	5327	80	59	95	86	12.5	3	1	54.2
DYNA GRO	5470	80	56	96	89	14.7	0	0	52.2
HORIZON	9107	79	63	88	85	13.5	0	0	57.0
NC+	4616	79	60	88	90	14.4	1	0	52.5
HAWKEYE	7272	79	50	99	87	14.4	1	0	54.8
PIONEER	3417	78	58	101	76	13.2	0	1	54.5
HORIZON	4545	75	65	87	72	11.5	2	1	58.4
HAWKEYE	SX63	73	48	81	90	17.7	0	1	53.3
CARGILL	5877	72	54	92	70	13.5	1	2	50.4
-----	NEBR. 611	71	51	84	77	16.8	1	1	49.5
HAWKEYE	SX61	70	50	80	80	17.5	2	1	51.0
Average all entries		83.5	57	98	87	14.6	0.7	0.5	54.1
Dif. Req. for Sig. 5%		10.9	8	13	11	2.5	NS	NS	3.0
25%		6.1	4	8	6	1.4	NS	NS	1.7

West Central Ecofallow Corn Hybrid Test 1987 - 1991.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	DROPPED EARS PCT	BUSHEL WEIGHT LBS
2 YEAR AVERAGE						
SUPERIOR	SP 5527	78	15.7	1	1	55.4
CARGILL	6927	76	15.7	1	0	54.5
WILSON	1640	74	15.4	1	1	53.9
PIONEER	3475	70	13.6	1	6	55.4
CARGILL	5327	70	13.5	2	6	55.5
HORIZON	9107	66	13.8	1	2	57.8
HAWKEYE	SX61	66	18.5	3	8	51.9
PIONEER	3417	65	13.8	1	2	55.6
-----	NEBR. 611	59	18.3	2	4	48.7
AVERAGE ALL ENTRIES		69	15.3	1.1	3.1	54.2
DIF. REQ. FOR SIG.		5%	NS	0.3	NS	0.6
		25%	1.8	0.2	NS	0.3
3 YEAR AVERAGE						
WILSON	1640	77	14.8	1	1	55.2
SUPERIOR	SP 5527	75	15.1	1	0	56.2
PIONEER	3475	71	13.1	1	5	56
-----	NEBR. 611	57	17.5	9	3	49.9
AVERAGE ALL ENTRIES		70	15.1	2.8	2.3	54.3
DIF. REQ. FOR SIG.		5%	2.8	0.3	NS	0.4
		25%	1.5	0.2	NS	0.2
4 YEAR AVERAGE						
WILSON	1640	89	15.0	1	1	55.2
PIONEER	3475	79	13.2	1	4	56
-----	NEBR. 611	70	17.5	7	2	49.9
AVERAGE ALL ENTRIES		79	15.2	2.8	2.2	53.7
DIF. REQ. FOR SIG.		5%	3.5	0.3	NS	0.5
		25%	1.8	0.1	NS	0.3
5 YEAR AVERAGE						
WILSON	1640	83	14.3	0	1	55.2
PIONEER	3475	71	12.7	1	4	56
-----	NEBR. 611	68	16.7	6	2	49.9
AVERAGE ALL ENTRIES		74	14.6	2.3	2	53.7
DIF. REQ. FOR SIG.		5%	NS	0.3	NS	0.5
		25%	2.2	0.2	NS	0.2

Southwest Ecofallow Corn Hybrid Tests. Hayes and Red Willow Counties. 1991.

BRAND	HYBRID	Yield			1991 Average			
		AVERAGE BU/A	Hayes BU/A	Red Wil BU/A	MOISTURE %	BROKEN PLANTS	DROPPED EARS	BUSHEL WEIGHT
WILSON	1640	56	61	50	18.1	1	1	54.5
HORIZON	7115	54	56	51	16.8	1	0	55.1
NC+	4616	52	58	46	18.9	1	1	53.7
HORIZON	9107	51	56	45	15.7	1	1	57.1
DEKALB Plant Gen	DK554	46	54	38	13.6	1	0	52.0
WILSON	1444	46	50	42	13.3	3	1	53.6
NC+	5963	45	55	35	20.8	1	1	51.8
BO-JAC	612	45	52	38	20.1	1	0	53.1
PIONEER	3475	44	52	35	13.7	1	0	53.0
PIONEER	3362	44	50	37	16.9	1	1	54.6
PIONEER	3398	43	46	40	15.2	1	0	55.1
-----	NEBR. 61	41	46	35	19.8	2	0	49.6
Average all entries		47	53	40	16.9	1.1	0.3	53.6
Dif. Req. for Sig. 5%		7.0	NS	11	3.3	NS	NS	2.2
25%		3.8	NS	7	1.8	NS	NS	1.2

Southwest Ecofallow Corn Hybrid Tests 1990 - 1991.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTUR PCT	BROKEN PLANTS PCT	DROPPED EARS PCT	BUSHEL WEIGHT LBS
2 YEAR AVERAGE						
HORIZON	7115	62	16.7	1	0	56.9
PIONEER	3362	59	16.9	1	1	56.2
HORIZON	9107	57	15.5	1	1	58.8
PIONEER	3475	56	14.5	1	0	55.2
-----	NEBR. 61	52	18.7	2	0	51.7
AVERAGE ALL ENTRIES		57	16.4	1.2	0.4	55.7
DIF. REQ. FOR SIG. 5%		NS	NS	NS	NS	0.3
25%		NS	0.4	NS	NS	0.1

West District Irrigated Corn Hybrid Tests – 1991

Scotts Bluff and Cheyenne County

BRAND	HYBRID	Yield			1991 Average			
		AVERAGE BU/A	Scots Bluff BU/A	Cheyenne BU/A	MOISTURE %	BUSHEL WEIGHT	Tassel Date	Plant Height
DEKALB Plant Gen	DK501	225	221	229	17.1	57.9	18	96
DYNA GRO	5470	217	222	211	21.5	56.4	20	101
EK PREMIUM	EK8805	214	199	228	15.4	60.8	18	102
FUNKS G	4393	213	211	215	17.3	58.4	17	101
NC+	2190	212	206	218	15.8	60.7	19	93
SIGCO	1099	210	202	218	16.3	60.8	19	94
AGRIGENE	AG 4500	203	189	216	17.1	58.4	17	96
GOLDEN HARVEST	TH-2390	201	193	209	17.4	59.3	18	92
PIONEER	3714	200	182	218	16.1	60.2	18	99
HORIZON	6101	198	185	211	17.0	60.2	20	94
ASGROW	RX469	198	185	210	15.8	60.4	19	95
HORIZON	5151	198	192	203	17.3	58.6	17	94
GOLDEN HARVEST	TH-2343	197	172	221	16.2	59.7	14	100
NORTHRUP KING	N 4350	196	183	208	16.3	59.4	18	97
WILSON	1140	196	178	214	16.0	59.0	18	93
CARGILL	3427	196	177	215	14.9	58.4	15	95
CARGILL	3627	195	177	212	16.0	60.6	18	95
FUNKS G	4160	195	165	225	14.7	60.0	16	93
NC+	1498	190	163	216	14.7	58.0	15	95
NORTHRUP KING	N 4242	190	185	195	15.3	60.2	17	97
JACQUES	5170	187	165	209	15.5	61.3	15	95
DYNA GRO	5351	184	158	209	17.2	60.0	15	97
SIGCO	1701	183	161	204	16.4	59.9	20	89
PIONEER	3751	182	182	182	14.5	59.9	16	101
NORTHRUP KING	N 3624	181	169	192	14.1	58.5	18	96
SIGCO	1095	174	153	194	14.2	61.5	16	92
JACQUES	4770	174	153	195	16.2	58.0	17	98
FUNKS G	4260	170	162	177	14.8	60.4	17	99
HORIZON	9107	161	131	191	17.3	60.2	16	95
PIONEER	3921	151	135	167	14.0	61.4	15	90
HORIZON	4545	141	104	178	13.4	62.2	15	90
Average all entries		191	176	206	15.9	59.7	17	95
Dif. Req. for Sig. 5%		19	23	30	0.7	0.5	1	4
25%		11	14	17	0.4	0.3	1	2

West District Irrigated Corn Hybrid Tests.

1987 - 1991.

BRAND	HYBRID	GRAIN YIELD BU/A	GRAIN MOISTURE PCT	BROKEN PLANTS PCT	BUSHEL WEIGHT LBS	TASSEL DATE JULY	PLANT HEIGHT IN
2 YEAR AVERAGE							
SIGCO	1099	185	16.5	0	58.5	19	64
NC+	2190	184	16.0	1	58.0	19	64
AGRIGENE	AG 4500	181	18.6	3	56.2	17	67
PIONEER	3714	181	16.4	1	58.8	18	67
CARGILL	3427	181	14.8	1	56.7	15	64
CARGILL	3627	179	16.3	1	58.5	18	67
ASGROW	RX469	178	16.6	0	57.8	19	63
PIONEER	3751	175	14.6	1	58.0	16	66
HORIZON	6101	175	17.4	4	58.3	20	64
NC+	1498	174	15.2	1	56.7	15	60
NORTHRUP KING	N 4350	172	16.7	6	57.2	18	64
NORTHRUP KING	N 3624	162	16.2	0	55.9	18	63
SIGCO	1095	156	14.2	1	59.7	16	63
FUNKS G	4260	154	15.3	0	58.1	17	66
HORIZON	9107	152	18.3	3	58.8	16	62
PIONEER	3921	144	14.0	1	60.5	15	64
AVERAGE ALL ENTRIES		171	16.0	1.5	58.0	17	64
DIF. REQ. FOR SIG	5%	6.6	0.6	NS	0.6	NS	NS
	25%	3.7	0.4	NS	0.3	NS	NS
3 YEAR AVERAGE							
AGRIGENE	AG 4500	166	16.8	3	55.2	17	67
ASGROW	RX469	163	15.5	3	56.9	19	63
PIONEER	3751	161	13.7	2	56.9	16	66
PIONEER	3714	161	15.6	2	57.5	18	67
HORIZON	6101	159	16.0	5	57.4	20	64
NORTHRUP KING	N 4350	158	15.4	4	56.0	18	64
NORTHRUP KING	N 3624	155	14.8	1	54.9	18	63
AVERAGE ALL ENTRIES		160	15.4	2.5	56.4	18	65
DIF. REQ. FOR SIG	5%	NS	NS	NS	0.3	NS	NS
	25%	NS	0.3	NS	0.2	NS	NS
4 YEAR AVERAGE							
HORIZON	6101	162	17.9	5	57.4	10	70
NORTHRUP KING	N 3624	164	15.6	1	55.5	9	70
NORTHRUP KING	N 4350	166	17.0	4	56.3	9	70
AVERAGE ALL ENTRIES		164	16.8	3	56.4	9	70
DIF. REQ. FOR SIG	5%	NS	NS	NS	0.4	NS	NS
	25%	NS	0.4	NS	0.2	NS	NS

Clay County White Corn Test – 1991

South Central Research & Extension Center

Brand	Hybrid	Grain Yield bu/A	Grain H2O %	Plants/A	Dropped Ears %	Root Lodged %	Stalk Lodged %	Ear Height in.
Cargill	EXP59300	210	24.2	24464	1	0	2	48
Whisnand	51AW	208	25.1	25211	1	0	2	46
Yellow Check	Pion.3377	208	21.8	24297	0	0	1	45
Yellow Check	Hoeg.2680	202	21.9	26229	0	0	3	43
NC+	RE177	200	24.5	24404	3	0	2	46
Wilson	EXP4361	199	24.9	25548	1	0	2	48
Agrigold	R4004-W	199	24.4	25698	2	0	4	48
IFSI	90-1	199	24	25606	1	0	4	48
Vineyard	V424W	197	26.1	26496	0	0	1	49
Sturdy Grow	SG798W	197	27.4	25799	0	0	2	47
IFSI	90-3	196	26.7	25881	0	0	1	42
Vineyard	Vx4490W	196	25.2	25031	1	0	1	44
Sturdy Grow	91BE145	194	23.9	24987	0	0	1	48
Yellow Check	B73XMO17	194	23	24404	1	0	3	45
Zimmerman	X620W	192	24.8	25989	1	0	2	47
Pioneer	3372W	191	23.1	24900	0	0	2	44
Whisnand	92AW	190	28	23040	1	0	0	45
Ohlde	EX198W	189	24.8	25114	2	0	6	45
NC+	X6555W	188	25.4	25205	0	0	1	47
Hoegemeyer	1142W	188	27.7	23058	0	0	4	44
Asgrow	X9361W	186	27.4	25587	1	0	0	46
Asgrow	X8091W	185	24.8	23979	0	0	2	47
Hoegemeyer	OEXP5W	184	27.4	24484	0	0	0	45
Pioneer	3281W	184	23.8	24431	0	0	0	43
Noblebear	NB710W	182	23.1	22282	0	0	1	37
Pioneer	3463W	182	121.4	24622	0	0	1	41
Hoegemeyer	1EXP11W	181	25.2	24468	3	0	2	45
Ohlde	EX168W	180	28.2	22577	1	0	2	47
Noblebear	NB742W	177	24.2	25191	0	0	1	32
Vineyard	V458W	177	24.6	25700	0	0	3	45
Sturdy Grow	88AE284	177	25.9	23312	0	0	2	41
Sturdy Grow	SG909W	177	25.1	26022	0	0	3	46
Vineyard	V427W	176	23.7	25704	0	0	1	39
Sturdy Grow	SG781W	175	24.9	25294	0	0	0	44
Whisnand	73W	174	29.4	24483	2	0	5	48
Whisnand	73AW	172	27.5	23956	2	0	2	47
Asgrow	X9371W	171	26	20574	1	0	3	47
Noblebear	NB571W	171	21.4	24294	0	0	1	35
Noblebear	NBX01997	169	20.2	24902	0	0	0	28
Tennessee	TN900147	168	21.2	24005	1	0	4	42

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Clay County White Corn Test – 1991

South Central Research & Extension Center

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Brand	Hybrid	Grain Yield bu/A	Grain H2O %	Plants/A Dropped	Ears Lodged %	Root Lodged %	Stalk Lodged %	Ear Height in.
IFSI	91-1	168	24.7	26049	2	0	4	45
Whisnand	56W	167	27.1	24796	3	0	5	46
Noblebear	NB563W	166	21	24530	0	0	1	35
Vineyard	V417W	166	22.3	25169	0	0	1	45
Zimmerman	Z61W	165	25.7	25169	1	0	3	47
IFSI	91-3	164	25.9	21937	1	0	1	43
IFSI	91-2	164	22.2	23225	2	0	4	43
DeKalb	DK703W	161	24.9	20756	0	0	5	46
Asgrow	X701W	159	21.1	24001	1	0	3	40
Noblebear	NBX02002	158	22.9	25541	0	0	0	28
Whisnand	51W	158	22.8	22356	1	0	2	43
Vineyard	V452W	154	22.2	23618	0	0	0	47
Funk's G	EXP6152W	152	25.2	22558	0	0	7	49
Tennessee	TN900209	150	28.8	23756	3	0	2	38
Sturdy Grow	SG778W	144	22.4	24757	0	0	5	41
Zimmerman	Z17W	139	27.3	25801	1	0	5	49
Average all Entries		179	24.6	24486	0.8	0	2.3	44
Dif. Req. for Sig5%		16	2.1	2313	2	n.s.	3	4
20%		10	1.3	1504	1	n.s.	2	3

Clay County White Food Corn Tests. 1988–1991.

Brand	Hybrid	Grain Yield bu/a	Grain H2O %	Plants /a	Dropped Ears %	Root Lodged %	Stalk Lodged %	Ear Height in.
2–YEAR AVERAGE								
Yellow Check	Pioneer 3377	208	21.5	25637	1	0	1	43
Hoegemeyer	1142W	192	29.3	25119	0	0	2	44
IFSI	90–1	188	23.3	25487	2	3	4	47
Yellow Check	Hoegemeyer	187	22.2	26746	0	0	2	41
Vineyard	V424W	183	25.5	26302	0	0	2	47
Whisnand	92AW	183	29.1	25043	0	0	1	43
Yellow Check	B73XMO17	178	23.7	25265	1	2	3	43
Noblebear	NB710W	178	23.2	23653	1	2	3	38
Vineyard	V458W	175	24.3	26679	0	1	2	43
Pioneer	3372W	174	23.3	24872	0	0	1	40
Vineyard	V427W	173	25.2	25983	1	0	2	39
Whisnand	73W	172	29.9	25529	2	1	3	47
Sturdy Grow	SG909W	170	25.4	26514	0	0	2	45
Whisnand	73AW	169	28.2	24795	1	1	1	44
Noblebear	NB563W	164	21.1	25335	1	0	3	35
Pioneer	3463W	164	21.3	24089	1	0	1	41
Whisnand	56W	159	27.3	26068	5	0	4	45
DeKalb	DK703W	159	25.5	22850	2	4	4	46
Noblebear	NB571W	156	21.4	25298	1	0	3	33
Whisnand	51W	153	23.1	23980	2	0	1	43
Zimmerman	Z61W	153	26.5	25151	1	0	2	47
Vineyard	V452W	152	23.8	24884	0	2	0	44
Sturdy Grow	SG778W	141	24.4	26065	1	0	3	38
Zimmerman	Z17W	136	28	26382	1	0	4	49
Average All Entries		168	24.7	25321	1	0.7	2.3	42.6
Dif. Req. for Sig. 5%		20	2.4	1638	1.6	2.1	ns	3.1
20%		13	1.5	1066	1.3	1.4	ns	2

3–Year Average

Yellow Check	Pioneer 3377	207	19.1	26193	3	0	5	44
Yellow Check	Hoegemeyer	190	19.7	26585	0	1	5	43
Vineyard	V424W	187	22.1	26871	0	2	5	48
Yellow Check	B73XMO17	184	20.8	25823	2	3	4	44
Noblebear	NB710W	184	20.2	23839	1	3	5	40
Vineyard	V427W	169	21.9	26544	0	2	4	40
Sturdy Grow	SG909W	169	22	26864	3	2	5	47
Noblebear	NB571W	168	19.1	25461	1	0	3	35
Noblebear	NB563W	168	18.9	26062	1	2	4	35

Continued on next page

Clay County White Food Corn Tests. 1988–1991.

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Brand	Hybrid	Grain Yield bu/a	Grain H2O %	Plants /a	Dropped Ears %	Root Lodged %	Stalk Lodged %	Ear Height in.
3–Year Average – Continued								
Whisnand	73W	168	26.1	25956	3	4	7	49
Whisnand	73AW	163	24.8	24867	2	4	5	46
DeKalb	DK703W	162	22.4	23928	3	4	5	46
Whisnand	51W	156	20.4	24761	2	3	2	46
Whisnand	56W	151	23.4	26359	3	5	9	46
Sturdy Grow	SG778W	145	21.2	24929	5	0	4	39
Average All Entries		168	24.2	25334	1.3	0.7	2.6	41.7
Dif. Req. for Sig. 5%		21	2.3	1575	1.7	2	ns	3.2
20%		13	1.5	1022	1.1	1.3	ns	2.1
4–Year Average								
Yellow Check	B73XMO17	186	19.2	25957	1	4	5	46
Vineyard	V424W	179	20.3	26869	0	2	6	49
Noblebear	NB710W	179	18.7	24856	1	3	7	41
Noblebear	NB563W	169	17.5	26378	1	2	5	35
Whisnand	73W	166	23.6	26624	3	4	7	50
Noblebear	NB571W	166	17.6	26046	1	1	4	35
Sturdy Grow	SG909W	159	20.1	26683	2	2	7	48
Whisnand	51W	145	18.7	25721	2	3	4	46
Sturdy Grow	SG778W	141	19.5	25267	4	1	6	40
Average All Entries		162	20.9	25991	1.1	1.5	4.8	42.3
Dif. Req. for Sig. 5%		15	1.5	ns	ns	ns	ns	2.8
20%		10	1	ns	0.7	1.2	ns	1.8

West Corn Hybrid Tests – 1991

Early Maturing Ecofallow

Lincoln and Cheyenne Counties

BRAND	HYBRID	Yield		1991 Average				
		AVERAGE Lincoln	Cheyenne	MOISTURE	BROKEN	DROPPED	BUSHEL	
		BU/A	BU/A	BU/A	% PLANTS	EARS	WEIGHT	
PIONEER	3733	48	72	23	10.5	3	0	56.1
HORIZON	9107	44	62	25	12.3	1	2	56.3
HORIZON	4545	43	59	26	10	2	3	57.3
CARGILL	3627	43	59	27	11.4	1	2	54.1
CARGILL	4227	43	62	24	11.2	1	0	54.4
DEKALB Plant Gen	DK501	40	58	21	10.6	2	0	53.9
PIONEER	3751	38	54	22	10.4	1	0	55.2
Average all entries		41	61	24	11.1	1	1	55.4
Dif. Req. for Sig. 5%		NS	11	NS	NS	NS	NS	1.0
25%		NS	6	NS	NS	NS	NS	0.6

West Corn Hybrid Tests.

Early Maturing Ecofallow. 1990–1991.

BRAND	HYBRID	GRAIN	GRAIN	BROKEN	DROPPED	BUSHEL
		YIELD	MOISTURE	PLANTS	EARS	WEIGHT
		BU/A	PCT	PCT	PCT	LBS
2 YEAR AVERAGE						
HORIZON	9107	39	10.9	1	3	56.3
PIONEER	3751	34	9.8	1	10	55.2
AVERAGE ALL ENTRIES		37	10.3	1	6	55.8
DIF. REQ. FOR SIG 5%		1.0	NS	NS	NS	NS
25%		0.2	NS	NS	NS	NS

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