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## 1996 South Dakota Corn Performance Trials

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(revised annually)

**1996**  
**SOUTH DAKOTA**  
**CORN**  
**PERFORMANCE**  
**TRIALS**

Agricultural Experiment Station  
College of Agriculture & Biological Sciences  
South Dakota State University  
U.S. Department of Agriculture



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# 1996 SOUTH DAKOTA CORN PERFORMANCE TRIALS

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This report evaluates the performance of entries in the 1996 South Dakota corn hybrid performance trials.

Information includes (1) 1996 and 1995-96 grain yields in bushels per acre and (2) 1996 test weight, moisture percentages of shelled corn at harvest, final plant populations per acre, and stalk lodging percentages. The trials were conducted by the Plant Science Department Crop Performance Testing (CPT) Program.

The assistance of the following is appreciated: CPT technicians Kevin Kirby and David DeLay, Brookings; Jim Smolik and Allen Heuer, Northeast Research Farm; Todd Bortnem and the Brookings Agronomy Farm staff; and Bob Berg and the Southeast Research Farm staff. Special thanks to Robert Clark (Armour), Scott Swanson (Crooks), and Steve Masat (Frankfort), farmer-cooperators.

**All entries and their location in the yield tables are indicated in table D near the end of this publication.**

## **1996 Test Trials Locations**

Test locations and seeding harvest dates are given in Table A.

Seeding of test trials started on April 24 and was completed by May 16. Trial results at most locations were good considering the low early seasonal temperatures this year.

## **Weather and Climatic Conditions**

Climatic data (Table B) for this year's growing season, April-September, are based upon U.S.

Monthly Climatological Data (NOAA) recorded at a weather station nearest each trial site. Watertown and Sioux Falls airport data were used for the NE Research Farm and the Scott Swanson farm trials, respectively. Stations are located at or near the other trial sites.

Precipitation quantities may differ between test sites and the recording station, but temperatures are generally similar over a much wider area and are considered applicable to the trial area.

April and May temperatures (Table B) were 2 to 5 degrees below normal across all locations. Temperatures were near normal in June but 3 to 6 degrees below average in July. In August and September, temperatures were near normal or 1 to 2

degrees below normal, depending on location.

Monthly precipitation totals were variable across locations. Monthly precipitation levels varied from a low of 0.46 inches at Redfield in April to a high of 5.70 inches at Redfield in May. Lowest total precipitation levels (April through September) were 12.91 and 13.43 inches, respectively, at Sioux Falls and Redfield. The highest precipitation level for this same time period was 22.17 inches at Centerville.

### Hybrid Entry Procedure

Participating companies pick the test locations where their entries are tested.

Entries are placed into "early" or "late" maturity trials. The arbitrary relative maturity breaks between the early and late tests are as follows: 95 days for Watertown; 100 days for Frankfort and Brookings; 105 days for Crooks and Armour; and 110 days for Beresford. Hybrids are assigned to maturity trials based on relative maturity ratings defined by the participating company.

**This testing program does not guarantee that all entries are placed in the proper maturity trial. In some trials, borderline entries with relative maturity ratings at or near the arbitrary break between the early and late trials may cross over at a given location.**

In some cases this may be indicated by exceptionally high or low grain moisture contents at harvest. A higher than average moisture may indicate the hybrid is later in relative maturity than indicated. Likewise, a lower than average moisture may indicate the hybrid is earlier in relative maturity than indicated.

A fee was charged for all entries at each location. Participating seed companies are listed in table E at the end of this publication.

### Experimental Procedure

All entries were seeded in three replications with each hybrid randomly located within a replication. A plot consisted of two 30-inch rows that were 26 feet long. Final plant populations include:

<i>Location</i>	<i>Plants per acre</i>
Watertown	24,120
Frankfort	24,120
Brookings	24,120
Crooks	26,130
Armour	24,120
Beresford	26,130

Soil type, land preparation, and previous crop at each test site are given in table C. A starter fertilizer of 100 pounds / ac of 37-18-00 was applied 2 inches below and 2 inches to the side (2 x 2) of the seed row. Force insecticide was T-banded at label rates for corn rootworm control this year. Recommended herbicides (pre-emergence and post-emer-

gence) were broadcast at labeled rates where needed.

A 31-cell cone drill seeder was used for all plots. Cone units were mounted above commercial maxi-merge units. Seeding rate was 15% more than the desired number of plants to be harvested per plot. Plots were later thinned to the desired population. Seedbed preparation was good at all locations.

### Measurements of Performance

**Yield.** Yields obtained in all test trials are averaged from three replications and are expressed as bushels per acre at 15.5% moisture and a bushel weight of 56 pounds.

Hybrids of equal potential may yield differently because of variations in slope, soil fertility, and stand. Statistical tests were conducted to determine whether these yield differences were caused by variations in environment or were true variety differences.

In 1996 the coefficient of variation (CV) for yield was 9% or less among the 12 test trials located at six test sites.

The CV value in a given test trial at each location is a measure of experimental error associated with the test trial. Ideally, this value should not exceed 15%. In cases where the CV value exceeds 15% it is recommended that the

test data be used with caution in making hybrid selection decisions. Experimental error may be the result of several factors including test methods; environmental factors such as moisture, temperature, or soil variations; or agronomic factors like seeding date, reseeding, or seed quality factors; all of which may or may not be controllable in a given year.

In 1996, CV values were low and experimental error was not a major factor in any test trials.

**Moisture Content.** Moisture content is expressed as the percentage of moisture in the shelled corn at harvest. Moisture is inversely related to maturity.

Because maturity is critical in South Dakota, moisture figures are of considerable importance in the evaluation of the trial entries. Hybrids that provide satisfactory yields and can be stored without additional drying are desirable.

**Use of tables.** Check for the “least significant difference” (LSD) value at the bottom of each column of data averages. The LSD value indicates how much a variable such as yield must differ between two hybrids before there is a real yield difference.

An LSD value is given at the bottom of every column where there is significant difference among the averages within that column. If there are no real differences among the averages within a given column a “non-significant” (NS) difference designation is indicated.

In this publication the LSD value is used primarily to identify the top-yielding group for each test trial.

For example, at Watertown the highest yield was 129 bu / ac for Garst 8751. To find if Garst 8751 is the only top yielder at Watertown, use the LSD value of 14 bu / ac at the bottom of the 1996 yield column. For hybrids

to be in the top-yield group they must yield 115 bu / ac (129 - 14) or higher. All yields and LSD values are rounded to the nearest whole number. We can say 115 bu / ac is the minimum value for top-yield hybrids at the “early” maturity test at Watertown in 1996. This value is indicated as the minimum top-yield value at the bottom of the 1996 yield column.

In all trial tables the top-yield group for 1996 is indicated by those hybrids which appear above the line denoted as **ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1966.**

In addition, the minimum top-yield value is indicated for the 2-year (1995-96) average unless there were no significant yield differences. Top-yield hybrids in the 2-yr column are those hybrids which are equal to or higher than the minimum top-yield value indicated at the bottom of the 2-yr yield column.

• **Table A. Test trial locations and 1996 seeding and harvest dates.**

LOCATION	POST OFFICE	DATE SEEDED	DATE HARVESTED
ROBERT CLARK FARM, 4W,0.5S	ARMOUR	APRIL 24	OCT. 4
S.E. RESEARCH FARM, 7W,3S	BERESFORD	APRIL 26	OCT. 23
SDSU AGRONOMY FARM, 2NE	BROOKINGS	APRIL 30	OCT. 25
SCOTT SWANSON FARM, 7N,2W	CROOKS	MAY 1	OCT. 21
N.E. RESEARCH FARM, 15N*	WATERTOWN	MAY 14	OCT. 24
STEVE MASAT FARM, 6S,2W	FRANKFORT	MAY 16	OCT. 22

\* MILEAGE AND DIRECTIONS FROM NEAREST POST OFFICE.

• **Table B. Nearest station temperature and precipitation data - 1996.**

STATION	DATA	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	TOTAL
ARMOUR	TOTAL PRECIP.	1.41	3.76	2.68	1.04	2.55	5.27	16.72
AIRPORT	AVER. TEMP.	45.5	55.9	70.1	70.7	71.6	61.3	
	TEMP. DIFF.	-3.5	-4.3	0.1	-5.1	-1.9	-1.9	
BROOK- INGS	TOTAL PRECIP.	1.02	6.03	2.84	0.86	3.02	2.61	16.38
	AVER. TEMP.	42.6	51.9	66.9	67.4	67.8	57.5	
2 NE	TEMP. DIFF.	-1.3	-3.9	1.3	-3.3	-0.2	-0.7	
CENTER- VILLE#	TOTAL PRECIP.	1.06	5.06	3.89	3.87	2.93	5.36	22.17
	AVER. TEMP.	45.6	55.3	70.1	68.9	69.3	59.5	
6 SE	TEMP. DIFF.	-1.9	-4.0	1.1	-4.9	-1.5	-1.6	
RED- FIELD	TOTAL PRECIP.	0.46	5.70	1.15	0.65	0.61	4.86	13.43
	AVER. TEMP.	42.9	53.0	67.5	67.5	71.0	60.0	
2 NE	TEMP. DIFF.	-2.1	-3.9	0.6	-5.8	0.3	0.2	
SIOUX FALLS	TOTAL PRECIP.	0.90	5.27	1.11	1.02	1.79	2.82	12.91
	AVER. TEMP.	44.6	54.9	68.7	69.1	70.0	59.4	
AIRPORT	TEMP. DIFF.	-2.3	-3.4	0.4	-5.2	-1.4	-1.5	
WATER- TOWN	TOTAL PRECIP.*	1.28	5.03	1.57	1.64	3.04	3.54	16.10
	AVER. TEMP.**	42.5	52.2	66.7	67.7	69.4	58.1	
AIRPORT	TEMP. DIFF.	-2.3	-4.8	-0.1	-4.7	-0.9	-1.5	

\*TOTAL PRECIP. = INCHES, \*\*TEMPERATURE = DEGREES FAHRENHEIT.

#NEAREST RECORDING STATION TO S.E. RESEARCH FARM AT BERESFORD.

• **Table C. Soil classification and land preparation.**

LOCATION	SOIL TYPE	SEEDBED, PREVIOUS CROP
BROOKINGS	BRANDT SIL. CL.	CONV., SPRING WHEAT
WATERTOWN	BROOKINGS SIL. CL. LOAM	CONV., OATS
FRANKFORT	BEOTIA SILT LOAM	NO-TILL, SPRING WHEAT
BERESFORD	TRENT SILTY LOAM	CONV., SOYBEAN
ARMOUR	EAKIN-ETHAN COMPLEX	NO-TILL, SOYBEAN STUBBLE
CROOKS	TRENT SIL. CL. LOAM	MIN.-TILL, SOYBEAN STUBBLE

SIL. = SILT, CL. = CLAY, CONV. = CONVENTIONAL TILLAGE,  
NO-TILL = NO TILLAGE, MIN.-TILL = MINIMUM TILLAGE.

• Table 1. 1996 corn hybrid performance trial results:  
Watertown, NE Research Farm, early maturity (95 days or less).

BRAND & HYBRID	YIELDS AT 15.5% MOIST.		1996			
	1996 (Bu/A)	2-YR	GRAIN	BU.	PLANTS	STALKS
			MOIST. (%)	WT. (lb)	PER ACRE	LODGED (%)
Garst 8751	129	.	22	53	24120	4
Mycogen 2395	128	.	24	54	24120	2
Dekalb DK385	127	114	21	53	24120	5
Payco 516	126	.	22	49	24120	2
Domestic DX403	125	.	23	51	24120	2
Dairyland ST-1495	124	120	23	53	24120	3
Seed Mart 2088	123	.	19	55	24120	5
Pioneer P3893	122	122	22	55	24120	4
Top Farm TFSX 2101	120	.	22	52	24120	5
Kaltenberg K4400	120	118	24	50	24120	1
Domestic DX307	119	.	21	52	24120	4
Kaltenberg K4709	119	113	26	49	24120	4
Kaystar X690	118	.	19	51	24120	3
Dairyland ST-1297	118	.	26	50	24120	3
Ciba 4144	117	116	24	52	24120	2
Croplan Genetics 282	116	101	21	52	24120	2
Garst 8814	115	112	23	52	24120	3
Mycogen 2420	115	.	23	54	24120	4
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1996						
Dekalb DK412	114	111	22	52	24120	4
Seed Mart 2098	114	.	22	52	24120	7
Dairyland ST-1289	113	100	21	52	24120	7
Kruger K9898	113	.	26	49	24120	5
Payco 402	111	112	23	51	24120	3
Golden Harvest H-2308	110	102	22	53	24120	5
Domestic DX306	109	110	23	49	24120	3
Pioneer P3914	108	.	20	55	24120	2
NC+ 1366	107	.	23	53	24120	2
Payco 407	106	.	23	54	24120	7
Mycogen 2250	104	.	22	53	24120	6
Cargill 2411FQ	103	.	23	55	24120	4
Dairyland ST-1296	102	.	25	48	24120	1
Croplan Genetics 357	100	102	25	49	24120	6
Cargill 2827	100	.	22	54	24120	4
Kruger K9600A	94	.	27	47	24120	8
Dekalb DK442	91	102	23	51	24120	4
Sands SOI 9956	87	93	25	52	24120	8
Dyna-Gro UAPX15092	83	.	23	51	24120	5
AVERAGE:	112	109	23	52	24120	4
LSD (5%):	14	NS**	1	3		4
MIN. TOP YIELD VALUE*:	115					
COEF. OF VARIATION#:	8	10				

\*TOP YIELD - YIELDS WITHIN ONE LSD VALUE OF HIGHEST YIELD.

\*\*DIFFERENCES WITHIN A COLUMN ARE NOT SIGNIFICANT (NS).

#A MEASURE OF EXPERIMENTAL ERROR; A VALUE OF 15% OR LESS IS DESIRABLE.



• Table 2. 1996 corn hybrid performance trial results:  
**Watertown, NE Research Farm, late maturity (96 days or more).**

BRAND & HYBRID	YIELDS AT		1996			
	15.5% MOIST.		GRAIN MOIST. (%)	BU. WT. (lb)	PLANTS PER ACRE	STALKS LODGED (%)
	1996	2-YR (Bu/A)				
Cargill 3797	127	122	25	57	24120	6
Dekalb DK471	127	124	24	51	24120	5
Payco 635	127	126	27	48	24120	4
Kruger K9802A	126	.	27	50	24120	1
Sands SOI 9027	125	.	26	50	24120	2
Top Farm TFSX 2101A	121	.	23	52	24120	6
Dekalb DK493	120	121	26	49	24120	3
Mycogen AG3965	120	121	24	49	24120	3
Dairyland ST-1401	120	.	26	51	24120	2
Mycogen 2500	119	.	26	50	24120	4
Cargill 4127	119	126	27	51	24120	2
Kruger K9501A	118	.	28	49	24120	5
Payco 606	118	.	23	51	24120	5
Cargill 3677	118	120	27	50	24120	2
Golden Harvest H-2382	117	114	27	48	24120	4
Garst 8746	116	111	26	50	24120	2
Dekalb DK477	116	.	24	51	24120	2
Mycogen 4970	115	118	27	50	24120	3
Kruger K9703	114	.	29	48	24120	4
Garst 8773IT	114	.	26	53	24120	3
Golden Harvest H-2377	113	115	28	50	24120	6
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1996						
Dyna-Gro UAPX15094	112	.	29	53	24120	6
Kruger K9608A	111	.	29	50	24120	1
Croplan Genetics 402	110	.	26	52	24120	1
Epley EX1450	110	.	30	48	24120	4
Golden Harvest H-2339	110	.	24	55	24120	4
Top Farm TFSX 2100	108	.	28	49	24120	4
Pioneer P3730	108	106	26	51	24120	5
Kaystar KX-600	105	114	29	48	24120	6
Sands SOI 9045	104	115	37	48	24120	1
Garst 8771	104	.	24	49	24120	3
Top Farm TFSX 2103	104	105	35	49	24120	6
Payco 633	103	.	34	49	24120	5
Kruger EX-104	103	.	31	50	24120	2
Payco 546	102	.	27	49	24120	2
Payco 605	101	113	28	48	24120	4
Payco 531	101	105	30	49	24120	1
Seed Mart 2100	99	.	26	51	24120	2
Payco 636	96	.	32	49	24120	3
Kruger K9704	95	.	29	51	24120	8
Epley EX1400	91	.	27	49	24120	3
Ciba 4214	69	.	37	52	24120	6
AVERAGE:	111	116	28	50	24120	4
LSD (5%):	14	NS**	2	4		NS
MIN. TOP YIELD VALUE*:	113					
COEF. OF VARIATION#:	8	8				

\*TOP YIELD - YIELDS WITHIN ONE LSD VALUE OF HIGHEST YIELD.

\*\*DIFFERENCES WITHIN A COLUMN ARE NOT SIGNIFICANT (NS).

#A MEASURE OF EXPERIMENTAL ERROR; A VALUE OF 15% OR LESS IS DESIRABLE.

• Table 3. 1996 corn hybrid performance trial results:  
**Frankfort, Steve Masat farm, no-till, early maturity (100 days or less).**

BRAND & HYBRID	YIELDS AT 15.5% MOIST.		1996			
	1996	2-YR	GRAIN	BU.	PLANTS	STALKS
	(Bu/A)		MOIST. (%)	WT. (lb)	PER ACRE	LODGED (%)
Dekalb DK471	130	125	20	52	24120	0
Dekalb DK493	130	127	21	51	24120	0
Dekalb DK477	125	.	20	53	24120	0
Kruger K9501A	123	.	22	52	24120	1
Top Farm TFSX 2101A	122	.	19	53	24120	1
Cargill 3677	119	115	20	54	24120	0
Kaystar KX-600	119	103	23	49	24120	0
Kruger K9898	118	.	22	53	24120	0
Payco 531	118	109	23	50	24120	0
Pioneer P3730	117	120	21	53	24120	1
Mycogen 2500	117	.	21	54	24120	0
Cargill 3797	115	115	21	53	23785	0
Kruger K9802A	115	.	22	52	24120	0
Kruger K9704	115	.	22	53	24120	1
Croplan Genetics 428	115	.	22	54	24120	0
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1996						
Ciba 4273	114	115	23	52	24120	0
Kruger K9600A	114	.	22	52	24120	0
Payco 606	113	.	19	53	24120	1
Seed Mart 2098	113	.	20	53	24120	0
Dyna-Gro UAPX15094	113	.	24	52	24120	0
Dairyland ST-1401	111	.	22	53	24120	0
Golden Harvest H-2339	111	.	20	57	24120	0
Payco 516	110	.	19	50	24120	0
Kruger K9700	110	112	21	51	24120	0
Golden Harvest H-2382	109	113	24	52	24120	0
Top Farm TFSX 2100	109	.	22	48	24120	0
Golden Harvest H-2308	109	88	20	56	24120	2
Dairyland ST-1296	108	.	22	50	24120	0
Mycogen 4970	107	111	23	53	24120	0
Dairyland ST-1297	107	.	21	53	24120	0
Croplan Genetics 357	106	.	20	55	24120	1
Kruger K9703	106	.	22	49	24120	0
Dairyland ST-1495	104	102	21	52	24120	0
Payco 635	103	117	22	50	24120	1
Payco 605	103	103	24	50	24120	0
Seed Mart 2100	103	.	22	55	23227	0
Mycogen AG3965	102	111	20	51	24120	1
Garst 8771	102	.	20	52	24120	0
Garst 8746	99	113	21	56	24120	0
Payco 546	99	.	22	49	24120	0
Garst 8773IT	96	.	22	53	24120	0
Dyna-Gro UAPX15092	95	.	20	54	24120	0
Croplan Genetics 402	91	.	21	55	24120	1
Ciba 4214	75	91	29	48	24120	0
AVERAGE:	110	110	22	52	24092	0
LSD (5%):	15	NS**	2	2		NS
MIN. TOP YIELD VALUE*:	115					
COEF. OF VARIATION#:	8	8				

\*TOP YIELD - YIELDS WITHIN ONE LSD VALUE OF HIGHEST YIELD.  
 \*\*DIFFERENCES WITHIN A COLUMN ARE NOT SIGNIFICANT (NS).  
 #A MEASURE OF EXPERIMENTAL ERROR; A VALUE OF 15% OR LESS IS DESIRABLE.

• Table 4. 1996 corn hybrid performance trial results:  
**Frankfort, Steve Masat farm, no-till, late maturity (101 days or more).**

BRAND & HYBRID	YIELDS AT		1996			
	15.5% MOIST.		GRAIN MOIST. (%)	BU. WT. (lb)	PLANTS PER ACRE	STALKS LODGED (%)
	1996	2-YR (Bu/A)				
Pioneer P3559	129	.	23	51	24120	0
Dekalb DK512	128	127	24	48	24120	0
Dekalb DK527	124	129	22	47	24120	0
Sands SOI 9027	119	.	23	49	24120	0
Mycogen 2616IMI	117	.	25	49	24120	0
Cargill 4127	115	119	23	48	24120	0
Kruger K9606A	113	121	26	46	24120	1
Payco 633	112	116	26	47	24120	1
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1996						
Payco 636	111	.	23	50	24120	1
Sands SOI 9045	110	110	24	46	24120	0
Pioneer P3568	110	.	25	49	24120	0
Croplan Genetics 499	110	.	23	48	24120	1
Mycogen 5250	109	.	25	46	24120	1
Kruger K9806	109	.	27	47	23785	0
Garst N3580	108	.	24	48	24120	0
Mycogen 5480	108	114	25	49	24120	0
Sands SOI 9074	108	.	26	47	24120	2
Ciba 4306	107	.	24	50	24120	0
Cargill 4277	107	120	26	49	24120	0
Dekalb DK560	106	118	25	48	24120	0
Garst 8690IT	106	113	23	50	24120	0
Payco 646	106	.	22	48	24120	0
Kruger K9608A	106	.	25	48	24120	1
Cargill 4177	105	112	22	48	24120	1
Kaystar X6101	104	.	23	46	24120	0
Kruger K9506	103	103	24	45	24120	0
Pioneer P3489	103	.	26	48	24120	0
Kaystar KX-711	99	112	27	49	24120	0
Golden Harvest H-2377	99	115	24	46	24120	0
Top Farm TFSX 2103	95	106	27	47	24120	0
AVERAGE:	110	116	24	48	24109	0
LSD (5%):	17	NS**	2	NS		NS
MIN. TOP YIELD VALUE*:	112					
COEF. OF VARIATION#:	9	9				

\*TOP YIELD - YIELDS WITHIN ONE LSD VALUE OF HIGHEST YIELD.

\*\*DIFFERENCES WITHIN A COLUMN ARE NOT SIGNIFICANT (NS).

#A MEASURE OF EXPERIMENTAL ERROR; A VALUE OF 15% OR LESS IS DESIRABLE.

• Table 5. 1996 corn hybrid performance trial results:  
**Brookings, SDSU Agronomy Farm, early maturity (100 days or less).**

BRAND & HYBRID	YIELDS AT 15.5% MOIST.		1996			
	1996 (Bu/A)	2-YR	GRAIN	BU.	PLANTS	STALKS
			MOIST. (%)	WT. (lb)	PER ACRE	LODGED (%)
Golden Harvest H-2382	189	171	20	55	24120	1
Seed Mart 1097	189	.	19	55	24120	0
Payco 531	186	165	19	54	24120	1
Payco 606	185	.	19	56	24120	0
Domestic DX552	183	.	20	54	24120	0
Pioneer P3730	181	164	19	55	24120	1
Payco 516	181	.	19	56	24008	2
Kruger K9703	181	.	21	51	24120	0
Kruger K9600	180	166	19	56	24120	1
Terra TR 990	179	161	19	58	24120	1
NC+ 1585	178	.	20	55	24120	0
Payco 635	178	157	20	54	24120	1
Kaltenberg K5009	178	.	20	56	24120	0
Sands SOI 9991	177	161	20	56	24120	0
Garst 8746	177	160	19	54	24120	0
Dekalb DK493	176	162	20	52	24120	1
Kruger K9802A	176	.	20	54	24120	0
Dairyland ST-1401	176	.	20	56	24120	0
Domestic DX550	174	156	19	55	24120	1
Golden Harvest H-2339	174	.	18	59	24120	0
Dairyland ST-1200	173	159	20	55	24120	1
Jacobsen JS14	173	.	19	53	24120	0
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1996						
Mycogen 2500	172	.	20	54	24120	0
Kruger K9501	172	158	19	55	24120	0
Domestic DX403	171	.	18	55	24120	0
Croplan Genetics 428	171	.	20	56	24120	1
Kaystar KX-600	170	156	20	55	24120	1
Cargill 3797	169	144	21	54	24008	0
Terra E966	166	.	19	55	24120	0
Cargill 3677	166	156	19	59	24120	0
Dekalb DK471	165	157	20	54	20993	1
Mycogen 3560	164	151	19	58	24120	3
Dekalb DK477	163	.	20	53	20323	1
Dairyland ST-1297	163	.	20	56	24120	1
Dairyland ST-1495	163	151	18	58	24120	0
Mycogen 4970	163	153	19	56	24120	1
Top Farm TFSX 2100	162	.	21	52	22222	0
Golden Harvest H-2308	161	147	19	55	24120	1
Dairyland ST-1202	157	145	19	55	24120	2
Dyna-Gro UAPX15094	157	.	20	56	24120	1
Ciba 4273	152	146	21	57	23673	2
Terra E906	142	.	17	57	21775	2

**Table 5 (continued). SDSU Agronomy Farm, early maturity.**

BRAND & HYBRID	YIELDS AT 15.5% MOIST.		1996			
	1996	2-YR	GRAIN	BU.	PLANTS	STALKS
	(Bu/A)	(Bu/A)	MOIST. (%)	WT. (lb)	PER ACRE	LODGED (%)
Dyna-Gro UAPX15092	141	*	19	55	24120	3
Payco 605	140	138	20	54	17085	0
Croplan Genetics 402	139	*	21	57	21998	0
Mycogen 2420	137	*	19	56	19207	1
Top Farm TFSX 2101A	137	*	19	56	17755	2
Dairyland ST-1296	134	*	20	55	19877	1
Seed Mart 2100	122	*	20	56	16973	3
Payco 546	121	*	20	55	17643	2
Croplan Genetics 357	100	*	21	55	13065	1
Epley EX1400	99	120	20	56	10943	0
AVERAGE:	163	154	20	55	22690	1
LSD (5%):	16	NS**	1	3		NS
MIN. TOP YIELD VALUE*:	173					
COEF. OF VARIATION#:	6	7				

\*TOP YIELD - YIELDS WITHIN ONE LSD VALUE OF HIGHEST YIELD.

\*\*DIFFERENCES WITHIN A COLUMN ARE NOT SIGNIFICANT (NS).

#A MEASURE OF EXPERIMENTAL ERROR; A VALUE OF 15% OR LESS IS DESIRABLE.

**• Table 6. 1996 corn hybrid performance trial results:  
Brookings, SDSU Agronomy Farm, late maturity (101 days or more).**

BRAND & HYBRID	YIELDS AT 15.5% MOIST.		1996			
	1996	2-YR	GRAIN	BU.	PLANTS	STALKS
	(Bu/A)	(Bu/A)	MOIST. (%)	WT. (lb)	PER ACRE	LODGED (%)
Kaystar KX-777	194	*	25	51	24120	0
Terra E1066	189	*	25	51	24120	0
Pioneer P3559	181	*	21	56	24120	0
Sands SOI 9045	180	158	22	53	24120	0
Kruger K9507PT	179	165	25	53	24120	1
Terra TR 1087	179	175	24	51	24120	0
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1996						
Kruger K9609	177	165	22	51	24120	0
Epley EX2417	175	149	22	53	24120	0
Epley EX2422	173	*	22	51	23897	0
Garst N3580	173	*	21	54	24120	1
Kruger K9709	172	*	22	50	24120	0
Cargill 4177	172	152	21	54	24120	0
Pioneer P3568	171	*	22	55	24120	0
Dekalb DK527	170	154	22	51	24120	0
Terra E1026	170	*	21	54	24120	0
Mycogen 2550	169	*	20	52	24120	0

**Table 6 (continued). SDSU Agronomy Farm, late maturity.**

BRAND & HYBRID	YIELDS AT 15.5% MOIST.		1996			
	1996	2-YR (Bu/A)	GRAIN	BU.	PLANTS	STALKS
			MOIST. (%)	WT. (lb)	PER ACRE	LODGED (%)
Mycogen 5480	168	151	23	54	24120	1
Domestic DX602	168	147	23	53	24120	0
Dekalb DK560	168	.	23	51	24120	1
Sands SOI 9027	167	.	20	55	24120	0
Cargill 4127	167	153	22	54	24120	1
Epley EX1500	167	158	21	54	24120	0
Cargill 4277	166	160	22	52	24120	2
Golden Harvest H-2377	165	148	20	55	24120	0
Kaltenberg K6301	163	.	23	51	23003	1
Mycogen 2616IMI	163	.	25	54	24120	0
Garst 8690IT	162	.	22	55	23562	0
Seed Mart 1104	162	.	23	52	23897	0
Croplan Genetics 499	160	.	20	52	24120	0
Kaystar KX-711	160	157	23	53	24120	1
Epley EX1450	159	147	20	55	24120	2
Dairyland ST-1405	159	.	23	52	24120	0
Kruger K9608A	158	154	22	52	24120	0
Kruger K9806	158	.	23	53	23897	0
Payco 633	158	146	21	53	24120	1
Top Farm TFSX 2103	157	144	21	55	24120	0
Dairyland ST-1407	157	.	22	51	21887	0
M-W Genetics G 7380	156	.	23	51	23897	0
M-W Genetics G 7370	156	145	22	51	23897	1
Payco 734	156	140	23	50	24120	0
Payco 636	155	.	21	54	24120	0
Payco 646	143	.	22	51	21552	0
Terra TR 1091	135	134	29	48	21663	2
AVERAGE:	166	152	22	53	23886	0
LSD (5%):	16	NS**	1	3		NS
MIN. TOP YIELD VALUE*:	178					
COEF. OF VARIATION#:	6	7				

\*TOP YIELD - YIELDS WITHIN ONE LSD VALUE OF HIGHEST YIELD.

\*\*DIFFERENCES WITHIN A COLUMN ARE NOT SIGNIFICANT (NS).

#A MEASURE OF EXPERIMENTAL ERROR; A VALUE OF 15% OR LESS IS DESIRABLE.

• Table 7. 1996 corn hybrid performance trial results:  
**Crooks, Scott Swanson farm, early maturity (105 days or less).**

BRAND & HYBRID	YIELDS AT 15.5% MOIST.		1996			
	1996 (Bu/A)	2-YR	GRAIN	BU.	PLANTS	STALKS
			MOIST. (%)	WT. (lb)	PER ACRE	LODGED (%)
Asgrow RX601	200	*	20	53	26130	2
Pioneer P3559	200	*	20	58	26130	3
Golden Harvest H-2377	193	139	20	55	26130	1
Sands SOI 9045	192	142	21	54	26130	2
Pioneer P3730	191	*	20	56	26130	1
Cargill 4127	188	145	20	53	26130	1
Kruger K9709	184	*	20	55	26130	3
Kruger K9806	184	*	21	55	26130	0
Payco 646	184	*	20	51	26130	0
Garst N3580	184	*	20	56	26130	1
Mycogen 5250	183	*	21	52	24343	2
Cargill 4177	183	141	21	55	25013	1
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1996						
Kruger K9507PT	181	146	22	55	26130	2
Dekalb DK493	178	138	19	52	26130	1
Payco 636	178	*	19	53	26130	1
Asgrow RX623T	177	135	21	53	26130	6
Payco 606	177	*	17	56	26130	3
Domestic DX550	175	*	20	54	26130	1
Dekalb DK471	174	136	19	55	26130	1
Pioneer P3568	172	*	20	56	26130	4
Asgrow RX490	172	130	20	56	26130	2
Mycogen 4970	171	132	20	56	26130	4
Croplan Genetics 428	171	*	20	58	26130	0
Mycogen 2500	170	*	19	57	26130	1
Terra E1026	169	*	20	55	26130	0
Payco 531	168	129	20	56	26130	2
Asgrow RX510	167	133	22	54	26130	1
Ciba 4306	166	*	21	56	26130	1
Croplan Genetics 499	166	*	19	55	26130	0
Hoegemeyer 2592	165	*	20	55	26130	1
Payco 633	165	*	20	55	26130	1
Croplan Genetics 542	164	*	21	56	26130	0
Ciba 3195	164	*	21	55	26130	1
Cargill 3797	164	127	19	57	26130	0
Payco 635	164	130	19	54	26130	3
Dairyland ST-1407	163	*	21	53	26130	4
Dekalb DK477	161	*	18	54	25237	2

**Table 7 (continued). Scott Swanson farm, early maturity.**

BRAND & HYBRID	YIELDS AT 15.5% MOIST.		1996			
	1996	2-YR	GRAIN	BU.	PLANTS	STALKS
	(Bu/A)		MOIST. (%)	WT. (lb)	PER ACRE	LODGED (%)
Sands SOI 9057	161	*	21	57	26130	1
Croplan Genetics 534	159	130	21	54	26130	3
Jacobsen JS21	158	*	20	55	26130	0
Hoegemeyer 2591	157	*	18	52	26130	1
Cargill 4277	157	130	22	54	26130	1
Cargill 3677	156	130	18	57	26130	5
Kaystar KX-600	156	130	19	57	26130	6
Seed Mart 1107	155	*	20	55	26130	0
Domestic DX403	154	*	18	56	26130	0
Top Farm TFSX 2100	154	*	20	53	22110	1
Mycogen 2550	153	*	21	53	26130	3
Domestic DX602	151	124	20	57	26130	1
Dekalb DK512	151	131	21	52	22222	1
Ciba 4273	149	116	19	56	26130	1
Top Farm TFSX 2103	149	128	21	56	26130	3
Kruger K9506	149	125	21	51	26130	1
Domestic DX522	149	117	19	56	26130	5
Croplan Genetics 402	144	*	19	58	26130	3
Kruger K9501	139	123	19	56	26130	4
Top Farm TFSX 2104	132	115	21	54	26130	2
Payco 546	121	*	19	52	21105	1
AVERAGE:	167	131	20	55	25841	2
LSD (5%):	18	NS**	1	4		3
MIN. TOP YIELD VALUE*:	182					
COEF. OF VARIATION#:	7	7				

\*TOP YIELD - YIELDS WITHIN ONE LSD VALUE OF HIGHEST YIELD.

\*\*DIFFERENCES WITHIN A COLUMN ARE NOT SIGNIFICANT (NS).

#A MEASURE OF EXPERIMENTAL ERROR; A VALUE OF 15% OR LESS IS DESIRABLE.



• Table 8. 1996 corn hybrid performance trial results:  
**Crooks, Scott Swanson farm, late maturity (106 days or more).**

BRAND & HYBRID	YIELDS AT 15.5% MOIST.		1996			
	1996	2-YR	GRAIN	BU.	PLANTS	STALKS
	(Bu/A)		MOIST. (%)	WT. (lb)	PER ACRE	LODGED (%)
Garst N3526	200	*	24	54	26130	0
Pioneer P3489	194	143	24	53	26130	0
Pioneer P3411	194	*	24	54	26130	2
Dekalb DK566	192	*	23	53	26130	3
Seed Mart 1112	192	*	23	54	26130	0
Kruger K9711	191	*	24	53	26130	1
Dekalb DK560	190	144	21	53	26130	3
Kaystar KX-777	187	147	24	51	26130	0
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1996						
Terra TR 1087	184	*	24	50	26130	0
Payco 734	183	138	21	52	25683	0
Terra E1066	182	*	23	51	26130	2
Northrup King N6423	182	*	26	52	26130	1
Golden Harvest H-2478	181	*	22	52	26130	1
Mycogen 2689	180	138	23	53	26130	2
Northrup King N6800	177	*	24	55	26130	1
Golden Harvest H-2468	176	*	22	55	26130	0
Jacobsen JS4575	175	*	22	52	26130	3
Sands SOI 9061	174	140	21	55	26130	1
Asgrow RX701	171	*	23	51	26130	1
Mycogen 2674	171	*	21	56	26130	0
Kruger K9714PT	168	*	24	53	26130	2
Garst 8541	167	135	23	51	26130	0
Great Lakes GL 5849	167	*	25	53	26130	1
Terra TR 1091	166	*	28	51	26130	1
M-W Genetics G 7480	165	132	21	56	26130	0
Kaystar KX-711	162	129	21	55	26130	1
Mycogen 2677	161	*	22	52	26130	0
Ciba 4375	161	*	22	58	26130	0
M-W Genetics G 7380	158	*	21	52	24120	2
Kruger K9712	155	*	24	55	26130	2
Cargill 6303	152	*	22	55	26130	0
Dekalb DK569	150	120	22	53	18313	1
M-W Genetics G 7370	142	*	22	54	26130	0
Sands SOI 9115	136	*	22	55	20770	2
AVERAGE:	173	136	23	53	25670	1
LSD (5%):	15	NS**	2	2		NS
MIN. TOP YIELD VALUE*:	185					
COEF. OF VARIATION#:	5	7				

\*TOP YIELD - YIELDS WITHIN ONE LSD VALUE OF HIGHEST YIELD.  
 \*\*DIFFERENCES WITHIN A COLUMN ARE NOT SIGNIFICANT (NS).  
 #A MEASURE OF EXPERIMENTAL ERROR; A VALUE OF 15% OR LESS IS DESIRABLE.

• Table 9. 1996 corn hybrid performance trial results:  
**Armour, Robert Clark farm, no-till, early maturity (105 days or less).**

BRAND & HYBRID	YIELDS AT		1996			
	15.5% MOIST.		GRAIN MOIST. (%)	BU. WT. (lb)	PLANTS PER ACRE	STALKS LODGED (%)
	1996	2-YR (Bu/A)				
Kruger K9709	186	•	27	50	24120	4
Hoegemeyer 2612	179	•	26	54	24120	1
Asgrow RX623T	177	•	25	55	24120	2
Asgrow RX601	171	•	27	54	24120	3
Dekalb DK477	166	•	21	56	24120	2
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1996						
Cargill 4127	165	•	24	56	24120	1
Payco 633	164	•	23	55	24120	0
Dekalb DK493	164	•	21	55	24120	2
Dekalb DK527	163	•	21	55	24120	1
Kaystar X6106	163	•	23	55	24120	2
Kruger K9507PT	161	•	24	54	24120	0
Pioneer P3568	158	•	25	54	24120	1
Hoegemeyer 2613	155	•	25	55	24120	2
Pioneer P3559	151	•	21	59	24120	2
Payco 646	150	•	22	54	24120	2
Ciba 3195	150	•	24	54	24120	1
Wilson 1371	149	•	26	54	24120	3
Sands SOI 9045	149	•	23	55	24120	2
Mycogen 2550	148	•	23	55	24120	1
Garst N3580	148	•	23	55	23785	4
Sands SOI 9057	146	•	22	58	24120	2
Asgrow RX490	146	•	21	57	24120	0
Asgrow RX510	144	•	25	53	23897	3
Domestic DX602	142	•	22	56	24120	2
Pioneer P3730	142	•	21	57	24120	2
Mycogen 5250	135	•	23	53	24120	4
Payco 636	134	•	21	56	23897	1
Cargill 4277	131	•	26	54	24120	3
AVERAGE:	155	•	23	55	24092	2
LSD (5%):	20	•	4	3		NS**
MIN. TOP YIELD VALUE*:	166	•				
COEF. OF VARIATION#:	8	•				

\*TOP YIELD - YIELDS WITHIN ONE LSD VALUE OF HIGHEST YIELD.

\*\*DIFFERENCES WITHIN A COLUMN ARE NOT SIGNIFICANT (NS).

#A MEASURE OF EXPERIMENTAL ERROR; A VALUE OF 15% OR LESS IS DESIRABLE.

Table 10. 1996 corn hybrid performance trial results:  
**Armour, Robert Clark farm, no-till, late maturity (106 days or more).**

BRAND & HYBRID	YIELDS AT		1996			
	15.5% MOIST.		GRAIN MOIST. (%)	BU. WT. (lb)	PLANTS PER ACRE	STALKS LODGED (%)
	1996	2-YR (Bu/A)				
Golden Harvest H-2547	187	*	34	53	24120	1
Dekalb DK566	187	*	25	55	24120	0
Pioneer P3489	181	*	34	56	24120	1
Cargill 6888	181	*	32	52	24120	1
Dekalb DK569	181	*	26	55	24120	4
Kruger K9614A	179	*	30	54	24120	1
Cargill 7770	179	*	36	53	24120	1
Mycogen 2616IMI	176	*	26	56	24120	2
Kruger K9714PT	174	*	35	55	24120	1
Hoegemeyer 2614	174	*	25	57	23897	1
Kruger K9513	173	*	34	55	24120	0
Pioneer P3411	173	*	35	56	24120	1
Northrup King N6800	171	*	33	56	24120	0
Hoegemeyer 2615	171	*	25	55	24120	0
Kaystar KX-711	171	*	28	57	24120	0
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1996						
Kaystar KX-777	170	*	32	58	24120	2
Mycogen 2689	170	*	32	55	24120	2
Jacobsen JS4476	169	*	25	55	24120	1
Golden Harvest H-2502	168	*	36	52	24120	1
Domestic DX720	167	*	31	54	23338	1
Sands SOI 9126	167	*	35	53	24120	2
Jacobsen JS4575	166	*	25	54	24120	1
Payco 734	165	*	26	55	24120	1
Asgrow RX701	164	*	32	53	24120	1
Dekalb DK591	164	*	34	53	24120	2
Kruger K9712	163	*	35	52	24120	1
Kruger K9614	163	*	35	54	24120	2
Golden Harvest H-2478	163	*	26	55	24120	2
Croplan Genetics 599	162	*	33	56	24120	0
Ciba 4394	162	*	31	56	24120	0
Wilson 1581	161	*	27	53	23673	1
Jacobsen JS4678	160	*	34	53	23673	1
Golden Harvest H-2468	160	*	31	54	24120	1
Sands SOI 9061	159	*	29	55	24120	0
Cargill 5677	158	*	32	55	24120	2
Kruger K9711	158	*	34	53	24120	2
Northrup King N6423	157	*	33	53	23897	1
Mycogen 2677	156	*	31	54	24120	0
Croplan Genetics 661	155	*	34	54	23562	1
Mycogen 2674	154	*	34	54	24120	2
Sands SOI 9074	153	*	25	54	24120	2
Sands SOI 9115	152	*	31	55	18648	1
Cargill 6303	147	*	34	55	24120	0
Garst 8541	145	*	31	55	23897	1
Cargill 6997	137	*	34	54	24120	0
AVERAGE:	166	*	31	54	23934	1
LSD (5%):	16	*	3	NS**		NS
MIN. TOP YIELD VALUE*:	171	*				
COEF. OF VARIATION#:	6	*				

\*TOP YIELD - YIELDS WITHIN ONE LSD VALUE OF HIGHEST YIELD.

\*\*DIFFERENCES WITHIN A COLUMN ARE NOT SIGNIFICANT (NS).

#A MEASURE OF EXPERIMENTAL ERROR; A VALUE OF 15% OR LESS IS DESIRABLE.

• Table 11. 1996 corn hybrid performance trial results:  
**Beresford, SE Research Farm, early maturity (110 days or less).**

BRAND & HYBRID	YIELDS AT 15.5% MOIST.		1996			
	1996	2-YR	GRAIN MOIST.	BU. WT.	PLANTS PER ACRE	STALKS LODGED
	(Bu/A)		(%)	(lb)		(%)
Seed Mart 1112	213	.	20	54	25795	.
Croplan Genetics 661	212	.	21	56	25683	.
Dekalb DK586	212	.	20	57	26130	.
Kruger K9614A	208	.	22	57	26130	.
Fontanelle 5306	207	.	22	56	26130	.
Terra TR 1087	207	188	20	55	26130	.
Pioneer P3411	206	.	20	57	26130	.
Stauffer 2436	204	.	20	55	26130	.
Kruger K9513	204	179	20	57	26130	.
Asgrow RX601	204	.	19	60	26130	.
Dekalb DK580	204	175	19	57	26130	.
Cargill 5677	202	171	20	55	26130	.
Domestic DX720	202	178	19	58	25795	.
Garst N3526	202	.	20	54	26130	.
Dekalb DK560	198	177	19	59	26130	.
Cargill 6303	197	176	20	58	26130	.
Pioneer P3489	197	178	18	59	25348	.
Dairyland DST-10803	196	.	20	56	26130	.
Pioneer P3568	196	.	17	60	26130	.
Dekalb DK566	194	185	19	59	26130	.
Golden Harvest H-2502	194	169	20	56	26130	.
Terra E1066	194	.	19	55	26130	.
Wilson 1581	194	166	20	58	26130	.
Sands SOI 9045	193	170	19	57	26130	.
Terra E1106	193	.	23	56	26130	.
Kruger K9714PT	193	.	21	58	26130	.
Asgrow RX701	193	.	20	57	26130	.
Kaystar KX-777	193	187	21	55	26130	.
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1996						
Jacobsen JS4678	191	.	20	56	26130	.
Epley EX2422	191	.	18	59	26130	.
M-W Genetics G 7610	190	172	20	57	26130	.
Northrup King N6800	189	.	21	59	26130	.
Asgrow RX623T	187	174	19	60	26130	.
Northrup King N6423	187	.	21	53	21887	.
Mycogen 2616IMI	187	.	19	59	26130	.
Garst N3525IT	187	.	19	59	26130	.
Payco 734	187	163	19	57	26130	.
Kaystar KX-711	186	.	18	61	26130	.

**Table 11 (continued). SE Research Farm, early maturity.**

BRAND & HYBRID	YIELDS AT 15.5% MOIST.		1996			
	1996 (Bu/A)	2-YR	GRAIN	BU.	PLANTS	STALKS
			MOIST. (%)	WT. (lb)	PER ACRE	LODGED (%)
Dairyland ST-1407	185	*	19	59	25572	*
Hoegemeyer 2614	185	*	18	60	26130	*
Mycogen 2674	185	*	18	61	26130	*
Garst 8565	184	*	18	58	26130	*
Cargill 4277	183	164	19	59	26130	*
Mycogen 2689	183	164	21	57	26130	*
Kruger K9711	182	*	19	57	26130	*
Jacobsen JS4575	181	*	19	57	25795	*
Ciba 4394	181	166	19	59	25795	*
LG Seeds NB471	180	*	20	59	26130	*
Golden Harvest H-2468	178	*	19	60	26130	*
NC+ 3588	178	*	18	63	26130	*
Asgrow RX510	178	160	19	56	26130	*
Sands SOI 9061	177	159	20	59	26130	*
Seed Mart 1107	177	*	18	61	26130	*
Wilson 1371	177	155	20	56	23115	*
Hoegemeyer 2591	176	*	17	61	26130	*
Hoegemeyer 2613	176	*	19	59	26130	*
Kruger K9612	175	165	21	57	26130	*
Cargill 5547	175	162	19	58	26130	*
Garst 8541	175	158	20	57	25907	*
M-W Genetics G 7480	175	161	18	60	26130	*
Pioneer P3559	174	*	19	61	26130	*
Sands SOI 9057	173	*	18	61	26130	*
Croplan Genetics 599	171	163	20	58	26130	*
NC+ 3869	171	*	19	61	26130	*
Jacobsen JS4476	171	*	19	60	26130	*
Garst N3580	170	*	17	58	26130	*
Kaystar X6103	168	*	19	59	26130	*
Epley EX1500	167	154	18	61	26130	*
Golden Harvest H-2478	166	*	21	56	26130	*
LG Seeds LG2511	162	*	20	59	26130	*
Epley EX2417	162	153	19	59	26130	*
Domestic DX602	162	155	19	59	26130	*
Kruger K9712	161	*	22	58	24902	*
Hoegemeyer 2575	153	*	18	60	26130	*
Terra TR 1091	145	137	22	57	22557	*
AVERAGE:	185	167	20	58	25925	*
LSD (5%):	20	19	1	3		*
MIN. TOP YIELD VALUE*:	193	169				*
COEF. OF VARIATION#:	7	7				*

\*TOP YIELD - YIELDS WITHIN ONE LSD VALUE OF HIGHEST YIELD.  
 #A MEASURE OF EXPERIMENTAL ERROR; A VALUE OF 15% OR LESS IS DESIRABLE.

• Table 12. 1996 corn hybrid performance trial results:  
**Beresford, SE Research Farm, late maturity (111 days or more).**

BRAND & HYBRID	YIELDS AT		1996			
	15.5% MOIST.		GRAIN MOIST. (%)	BU. WT. (lb)	PLANTS PER ACRE	STALKS LODGED (%)
	1996	2-YR (Bu/A)				
Fontanelle 5335	218	.	22	58	26130	0
Mycogen 7250	215	189	22	57	26130	0
Sands SOI 9126	213	.	22	57	26130	1
Epley EX3608	212	.	20	58	26130	1
Kaystar X6112	211	.	22	57	26130	1
Epley EX3242	211	.	20	58	26130	3
Croplan Genetics 674	208	192	20	57	26130	0
Stauffer 2207	208	.	22	57	26130	0
Golden Harvest H-2547	207	193	22	57	26130	0
Dekalb DK626	206	.	21	56	26130	4
Cargill 6888	205	.	22	57	26130	1
M-W Genetics G 7711	204	.	22	58	26130	0
Kruger EX-115	203	.	24	54	26130	2
Pioneer P3373	202	.	22	57	26130	0
Jacobsen JS56	198	.	22	57	26130	0
Mycogen 2725	198	.	22	57	25125	0
Great Lakes GL 591	197	.	22	58	26130	1
Ciba 4494	197	.	22	58	26130	1
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1996						
Kruger K9614	195	178	21	56	26130	0
M-W Genetics X 41131	195	.	21	55	26130	2
Kaltenberg K7001	194	186	21	56	26130	2
Cargill 7770	194	.	23	57	26130	0
Fontanelle 5325	192	.	23	57	26130	2
Terra E1136	183	.	22	54	26130	0
Cargill 6997	182	167	23	58	26130	1
Terra TR 1126	173	156	22	59	26130	1
Terra TR 1130	170	159	25	57	26130	1
Sands SOI 9115	151	153	21	59	16527	1
AVERAGE:	198	175	22	57	25751	1
LSD (5%):	21	25	1	2		2
MIN. TOP YIELD VALUE*:	197	168				
COEF. OF VARIATION#:	6	7				

\*TOP YIELD - YIELDS WITHIN ONE LSD VALUE OF HIGHEST YIELD.

#A MEASURE OF EXPERIMENTAL ERROR; A VALUE OF 15% OR LESS IS DESIRABLE.

**Table D. Entries in the 1996 corn hybrid performance trials**

BRAND & HYBRID	TABLE NO.	BRAND & HYBRID	TABLE NO.
Cargill 3677	2,3,5,7	Stauffer 2207	12
Cargill 3797	2,3,5,7	Jacobsen JS4476	10,11
Cargill 4127	2,4,6,7,9	Jacobsen JS4575	8,10,11
Cargill 4177	4,6,7	Jacobsen JS4678	10,11
Cargill 6997	10,12	Jacobsen JS56	12
Cargill 2411FQ	1	Jacobsen JS14	5
Cargill 2827	1	Jacobsen JS21	7
Cargill 6888	10,12	Sands SOI 9956	1
Cargill 7770	10,12	Sands SOI 9045	2,4,6,7,9,11
Cargill 4277	4,6,7,9,11	Sands SOI 9074	4,10
Cargill 5677	10,11	Sands SOI 9115	8,10,12
Cargill 6303	8,10,11	Sands SOI 9057	7,9,11
Cargill 5547	11	Sands SOI 9126	10,12
Dekalb DK385	1	Sands SOI 9027	2,4,6
Dekalb DK412	1	Sands SOI 9061	8,10,11
Dekalb DK477	2,3,5,7,9	Sands SOI 9991	5
Dekalb DK586	11	Asgrow RX490	7,9
Dekalb DK626	12	Asgrow RX623T	7,9,11
Dekalb DK591	10	Asgrow RX601	7,9,11
Dekalb DK512	4,7	Asgrow RX701	8,10,11
Dekalb DK471	2,3,5,7	Asgrow RX510	7,9,11
Dekalb DK493	2,3,5,7,9	Garst 8814	1
Dekalb DK569	8,10	Garst 8541	8,10,11
Dekalb DK580	11	Garst 8690IT	4,6
Dekalb DK442	1	Garst 8771	2,3
Dekalb DK527	4,6,9	Garst 8773IT	2,3
Dekalb DK560	4,6,8,11	Garst N3580	4,6,7,9,11
Dekalb DK566	8,10,11	Garst 8565	11
Great Lakes GL 591	12	Garst N3526	8,11
Great Lakes GL 5849	8	Garst N3525IT	11
LG Seeds LG2511	11	Garst 8746	2,3,5
LG Seeds NB471	11	Garst 8751	1
Northrup King N6423	8,10,11	Golden Harvest H-2308	1,3,5
Northrup King N6800	8,10,11	Golden Harvest H-2377	2,4,6,7
Pioneer P3730	2,3,5,7,9	Golden Harvest H-2502	10,11
Pioneer P3914	1	Golden Harvest H-2547	10,12
Pioneer P3559	4,6,7,9,11	Golden Harvest H-2339	2,3,5
Pioneer P3568	4,6,7,9,11	Golden Harvest H-2468	8,10,11
Pioneer P3411	8,10,11	Golden Harvest H-2478	8,10,11
Pioneer P3373	12	Golden Harvest H-2382	2,3,5
Pioneer P3893	1	Wilson 1371	9,11
Pioneer P3489	4,8,10,11	Wilson 1581	10,11
Seed Mart 2088	1	Top Farm TFSX 2101	1
Seed Mart 2098	1,3	Top Farm TFSX 2101A	2,3,5
Seed Mart 2100	2,3,5	Top Farm TFSX 2100	2,3,5,7
Seed Mart 1097	5	Top Farm TFSX 2103	2,4,6,7
Seed Mart 1104	6	Top Farm TFSX 2104	7
Seed Mart 1107	7,11	Kaystar KX-600	2,3,5,7
Seed Mart 1112	8,11	Kaystar X690	1
Dairyland ST-1289	1	Kaystar X6101	4
Dairyland ST-1495	1,3,5	Kaystar X6106	9
Dairyland ST-1296	1,3,5	Kaystar X6103	11
Dairyland ST-1297	1,3,5	Kaystar X6112	12
Dairyland ST-1401	2,3,5	Kaystar KX-711	4,6,8,10,11
Dairyland ST-1405	6	Kaystar KX-777	6,8,10,11
Dairyland DST-10803	11	Kaltenberg K7001	12
Dairyland ST-1202	5	Kaltenberg K5009	5
Dairyland ST-1200	5	Kaltenberg K6301	6
Dairyland ST-1407	6,7,11	Kaltenberg K4400	1
Stauffer 2436	11	Kaltenberg K4709	1

**Table D (continued). Entries in the 1996 corn hybrid performance trials.**

BRAND & HYBRID	TABLE NO.	BRAND & HYBRID	TABLE NO.
Kruger K9608A	2, 4, 6	Croplan Genetics 282	1
Kruger K9609	6	Croplan Genetics 357	1, 3, 5
Kruger K9612	11	Croplan Genetics 534	7
Kruger K9614	10, 12	Croplan Genetics 661	10, 11
Kruger K9614A	10, 11	Croplan Genetics 674	12
Kruger K9600	5	Croplan Genetics 402	2, 3, 5, 7
Kruger K9700	3	Croplan Genetics 428	3, 5, 7
Kruger K9606A	4	Croplan Genetics 499	4, 6, 7
Kruger K9506	4, 7	Croplan Genetics 542	7
Kruger K9709	6, 7, 9	Croplan Genetics 599	10, 11
Kruger K9501	5, 7	Terra TR 990	5
Kruger K9501A	2, 3	Terra TR 1087	6, 8, 11
Kruger K9507PT	6, 7, 9	Terra E966	5
Kruger K9513	10, 11	Terra E1026	6, 7
Kruger K9711	8, 10, 11	Terra E1066	6, 8, 11
Kruger K9712	8, 10, 11	Terra E1106	11
Kruger K9714PT	8, 10, 11	Terra E1136	12
Kruger EX-115	12	Terra E906	5
Kruger K9898	1, 3	Terra TR 1091	6, 8, 11
Kruger K9600A	1, 3	Terra TR 1126	12
Kruger K9802A	2, 3, 5	Terra TR 1130	12
Kruger K9704	2, 3	M-W Genetics G 7370	6, 8
Kruger K9703	2, 3, 5	M-W Genetics G 7480	8, 11
Kruger EX-104	2	M-W Genetics G 7610	11
Kruger K9806	4, 6, 7	M-W Genetics G 7380	6, 8
Fontanelle 5306	11	M-W Genetics G 7711	12
Fontanelle 5325	12	M-W Genetics X 41131	12
Fontanelle 5335	12	Dyna-Gro UAPX15092	1, 3, 5
Payco 402	1	Dyna-Gro UAPX15094	2, 3, 5
Payco 605	2, 3, 5	Epley EX2422	6, 11
Payco 635	2, 3, 5, 7	Epley EX2417	6, 11
Payco 646	4, 6, 7, 9	Epley EX1450	2, 6
Payco 636	2, 4, 6, 7, 9	Epley EX1400	2, 5
Payco 606	2, 3, 5, 7	Epley EX1500	6, 11
Payco 546	2, 3, 5, 7	Epley EX3608	12
Payco 516	1, 3, 5	Epley EX3242	12
Payco 407	1	Domestic DX306	1
Payco 531	2, 3, 5, 7	Domestic DX522	5, 7
Payco 633	2, 4, 6, 7, 9	Domestic DX602	6, 7, 9, 11
Payco 734	6, 8, 10, 11	Domestic DX720	10, 11
Ciba 4375	8	Domestic DX307	1
Ciba 4306	4, 7	Domestic DX403	1, 5, 7
Ciba 3195	7, 9	Domestic DX550	5, 7
Ciba 4273	3, 5, 7	Mycogen 3560	5
Ciba 4394	10, 11	Mycogen 4970	2, 3, 5, 7
Ciba 4494	12	Mycogen 7250	12
Ciba 4144	1	Mycogen 5480	4, 6
Ciba 4214	2, 3	Mycogen AG3965	2, 3
NC+ 1366	1	Mycogen 2250	1
NC+ 1585	5	Mycogen 2395	1
NC+ 3588	11	Mycogen 2420	1, 5
NC+ 3869	11	Mycogen 2500	2, 3, 5, 7
Hoegemeyer 2591	7, 11	Mycogen 2550	6, 7, 9
Hoegemeyer 2612	9	Mycogen 5250	4, 7, 9
Hoegemeyer 2614	10, 11	Mycogen 2616IMI	4, 6, 10, 11
Hoegemeyer 2613	9, 11	Mycogen 2674	8, 10, 11
Hoegemeyer 2592	7	Mycogen 2677	8, 10
Hoegemeyer 2575	11	Mycogen 2725	12
Hoegemeyer 2615	10	Mycogen 2689	8, 10, 11



**Table E. Mailing addresses of participating companies in the 1996 corn trials.**

BRAND	SEED COMPANY	MAILING ADDRESS
ASGROW	Asgrow	2605 E. Kilgore Rd, Kalamazoo, MI 49002
CARGILL	Cargill	PO Box 5645, Minneapolis, MN 55440
CIBA	Ciba	2030 Knollwood, Fairmont, MN 56031
CROPLAN	Croplan Genetics	PO Box 64098, St. Paul, MN 55164-0089
DAIRYLAND	Dairyland	PO Box 958, West Bend, WI 53095-0958
DEKALB	Dekalb Genetics Corp.	3100 Sycamore Rd, Dekalb, IL 60115
DOMESTIC	Domestic	PO Box 466, Madison, SD 57042
DYNA-GRO	UAP	PO Box 5015, Fargo, ND 58105
EPLEY	Epley Bros. Hybrids	22494 Yale Ave., Shell Rock, IA 50670
FONTANELLE	Fontanelle Hybrids	Rt 1, Box 18, Nickerson, NE 68044
GARST	Garst	PO Box 647, Brandon, SD 57005
GOLDEN HARVEST	J.C. Robinson	PO Box A, Waterloo, NE 68069
GREAT LAKES	Great Lakes Hybrids	PO Box 637, Ovid, MI 48866
HOGEMEYER	Hoegemeyer Hybrids	1755 Hoegemyer Rd, Hooper, NE 68031-2125
JACOBSEN	Jacobsen Hybrid Corn	Box 379, Lake View, IA 51450
KALTENBERG	Kaltenberg	PO Box 278, Waunakee, WI 53597
KAYSTAR	Kaystar	PO Box 947, Huron, SD 57350
KRUGER	Kruger	Box A, Dike, IA 50624
LG SEEDS	LG Seeds	PO Box 88, Tekamah, NE 68061
MIDWEST	Midwest Seed Genetics	PO Box 518, Carroll, IA 51401
MYCOGEN	Mycogen	720 St. Croix Street, Prescott, WI 54021
NC+	NC+ Hybrids	Box 4408, Lincoln, NE 68504
NORTHRUP KING	Northrup King	920 Holiday Drive Ste 231, Moorhead, MN 56560
PAYCO	Interstate Payco	Box 338, West Fargo, ND 58078
PIONEER	Pioneer Hi-Bred Intl.	1919 West 57th St., Sioux Falls, SD 57106
SEED MART	Seed Mart	PO Box 126, Prescott, WI 54021
SOI	Sand Seed Service	Box 648, Marcus, IA 51035
STAUFFER	Stauffer	PO Box 68, Aurora, NE 68818
TERRA	Terra Intl.	PO Box 6000, Sioux City, IA 51102-6000
TOP FARM	Top Farm Hybrids	Box 850, Cokato, MN 55321
WILSON	Wilson	PO Box 391, Harlan, IA 51537



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