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## 1995 South Dakota Corn Performance Trials

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**C 253**  
(revised annually)

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**SOUTH DAKOTA**

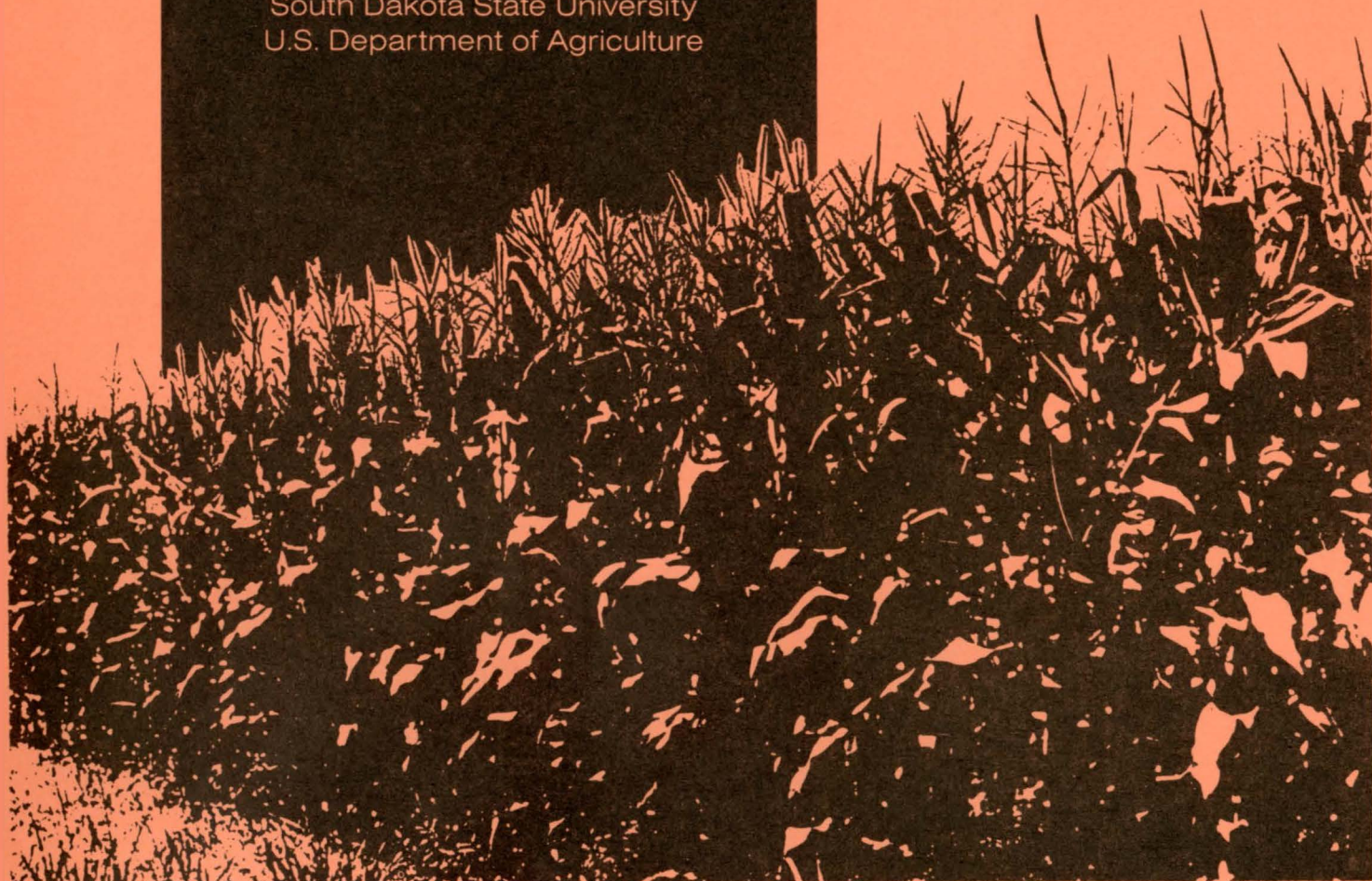
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**CORN**

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**PERFORMANCE**  
**TRIALS**

Agricultural Experiment Station  
South Dakota State University  
U.S. Department of Agriculture





# 1995 SOUTH DAKOTA CORN PERFORMANCE TRIALS

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This report evaluates the relative performance of corn hybrids grown under similar environmental conditions in 1995.

Information in accompanying tables includes both 1995 and 1994-95 grain yields in bushels per acre; and 1995 test weight, moisture percentages of shelled corn at harvest, final plant populations per acre, and stalk lodge percentages. Trials were conducted by the Plant Science Department Crop Performance Testing Program.

The assistance of the following is appreciated: technicians Kevin Kirby and Darin Huber; Dwayne Beck and the Dakota Lakes Research Farm staff, Jim Smolik and the Northeast Research Farm staff, Todd Bortnem and the Brookings Agronomy Farm staff, and Bob Berg and the Southeast Research Farm staff; Robert Clark (Armour), Kevin Crisp (Dell Rapids) and Steve Masat (Frankfort), farmer-cooperators.

## Location of 1995 Trials

Test trial locations and seeding harvest dates are in Table 1. Seeding started on April 26 and was completed by May 25.

Trial results at Watertown, Brookings, Pierre, and Beresford were good, considering the low early seasonal temperatures this year. Yields at Dell Rapids and Frankfort were low because of late seeding at Dell Rapids and a July 3 hailstorm (11% defoliation) at Frankfort. The trial at Armour was not seeded in 1995 because of wet seeding conditions persisting until late June.

## Weather and Climatic Conditions

Climatic data (Table 2) for this year's growing season,

April-September, are based upon US Monthly Climatological Data (NOAA) recorded at a weather station nearest each trial site. Watertown, Pierre, and Sioux Falls airport data are used for the NE Research Farm, Dakota Lakes Research Farm, and Kevin Crisp 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 temperatures (Table 2) were 6 to 7 degrees below normal across all locations. Temperatures were about 4 degrees below normal in May. In June and July temperatures

were near normal. In August temperatures were 2 to 3 degrees above normal. Finally, in September, temperatures dropped to 1 to 2 degrees below normal.

Monthly precipitation totals were variable across locations. However, all locations received at least 1.8 inches per month between April and August.

### Hybrid Entry Procedure

Participating companies designated the test locations where their entries were to be grown. Entries were placed into early or late trials based upon maturity information supplied by the company.

The arbitrary breaks between the early and late test were as follows: 95 days for Watertown; 100 days for Frankfort, Brookings, and Pierre; 105 days for Dell Rapids; and 110 days for Beresford.

A fee was charged for every entry at each location. The participating firms and hybrids entered are on the last pages of this circular.

### Experimental Procedure

Entries included in each trial were seeded in three replications. Plots of individual hybrids were located at random within each replication. Each plot consisted of two 30-inch

rows, 26 feet long. The target seeding population per acre for each location was:

<i>Location</i>	<i>Seeds per Acre</i>
Watertown	23,450
Frankfort	22,110
Brookings	23,450
Sioux Falls	23,450
Beresford	24,120
Pierre - irrigated	33,510
Pierre - dryland	22,110

Soil type, land preparation, and previous crop at each test site are in Table 3. A starter fertilizer of 100 lb / 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. Various recommended herbicides (pre-emergence and post-emergence) were broadcast at label rates at all sites when 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 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 expressed as bushels per acre at 15.5% moisture and a bushel weight of 56 lb.

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

In 1995 the coefficient of variation (CV) for yield was 12% or less among the 14 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—test methods; environmental factors such as moisture, temperature, soil variations; or agronomic factors like seeding date, reseeding, or seed quality. All may or may not be controllable in a given year.

In 1995, the CV values were low and experimental error was not a major factor in any test trials.

**Moisture Content.** The moisture content of each entry is expressed as the percentage of moisture in the shelled corn at the time of harvest. Moisture

content 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.** First 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 is no real difference among the averages within a given column, a “nonsignificant” (NS) difference designation is indicated.

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

For example, at Watertown the highest yield was 122 bu / ac for Pioneer 3893. To determine whether Pioneer 3893 is the only top yielder at Watertown, use the LSD value of 19 bu / ac at the bottom of the 1995 yield column. For hybrids to be in the top-yield group they must yield within 19 bu / ac of Pioneer 3893 ( 122 - 19), or yield more than 103 bu / ac.

Because yield and LSD values are rounded to the nearest whole number, we can say that all yields of 103 bu / ac and higher are in the top-yield group or that 103 bu / ac is the minimum value for top-yield early hybrids at Watertown in 1995. This value is indicated as the min. top-yield value at the bottom of the 1995 yield column.

In all trial tables the top-yield group are those hybrids above the line: **ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1995.**

Minimum top-yield value is given for the 2-year average unless there were no yield differences as indicated by the non-significant (NS) designation.

• Table 1. Test trial locations, seeding dates, and harvest dates.

LOCATION	POST OFFICE	DATE SEEDED	DATE HARVESTED
N.E. RESEARCH FARM, 15N*	WATERTOWN	MAY 4	NOV. 9
KEVIN CRISP FARM, 7E,1S	DELL RAPIDS	MAY 25	NOV. 8
STEVE MASAT FARM, 6S,2W	FRANKFORT	MAY 15	OCT. 21
SDSU AGRONOMY FARM, 2NE	BROOKINGS	APRIL 27	NOV. 3
S.E. RESEARCH FARM, 7W,3S	BERESFORD	APRIL 26	OCT. 21
DAKOTA LAKES RES. FARM, 17E	PIERRE	MAY 5	OCT. 26

\* MILEAGE AND DIRECTIONS FROM NEAREST POST OFFICE.

• Table 2. Temperature and total precipitation data, 1995 South Dakota corn performance trials.

LOCATION DATA		APRIL	MAY	JUNE	JULY	AUG.	SEPT.	TOTAL
WATER-TOWN AIRPORT	TOTAL PRECIP.*	2.49	3.55	2.29	3.58	2.89	3.71	18.51
	AVER. TEMP.**	38.3	53.5	67.6	71.1	72.8	58.8	
	TEMP. DIFF.	-6.5	-4.0	+0.2	-1.2	+2.5	-1.5	
SIOUX FALLS AIRPORT	TOTAL PRECIP.	5.83	4.76	2.70	2.55	5.11	1.86	22.81
	AVER. TEMP.	41.8	55.6	70.0	75.1	76.8	60.4	
	TEMP. DIFF.	-6.2	-4.8	-0.3	-0.3	+3.4	-1.6	
RED-FIELD 2 NE	TOTAL PRECIP.	2.98	4.15	3.94	3.51	1.96	0.99	17.53
	AVER. TEMP.	38.7	54.0	67.5	72.7	73.3	58.5	
	TEMP. DIFF.	-6.5	-4.0	+0.2	-1.2	+2.5	-1.5	
BROOKINGS 2 NE	TOTAL PRECIP.	2.71	4.52	2.73	6.85	4.46	3.93	25.20
	AVER. TEMP.	37.5	52.1	66.6	70.0	71.4	57.0	
	TEMP. DIFF.	-6.5	-4.0	+0.2	-1.2	+2.5	-1.5	
CENTER-VILLE 6 SE	TOTAL PRECIP.	4.45	5.23	1.77	3.80	3.22	2.39	20.86
	AVER. TEMP.	41.3	54.3	69.1	72.9	74.4	58.9	
	TEMP. DIFF.	-6.2	-4.8	-0.3	-0.3	+3.4	-1.6	
PIERRE AIRPORT	TOTAL PRECIP.	3.32	4.50	5.87	1.84	4.57	0.65	20.75
	AVER. TEMP.	40.2	55.0	67.4	75.1	76.1	62.7	
	TEMP. DIFF.	-7.1	-4.1	-1.4	-1.3	+2.6	+0.2	

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

• Table 3. Soil classification and land preparation.

LOCATION	SOIL TYPE	SEEDBED, PREVIOUS CROP
BROOKINGS	BRANDT SIL. CL.	CONV., SOYBEAN
WATERTOWN	BROOKINGS SIL. CL. LOAM	CONV., SPRING WHEAT
FRANKFORT	BEOTIA SILT LOAM	NO-TILL, SOYBEAN
BERESFORD	TRENT SILTY LOAM	CONV., SOYBEAN
ARMOUR	EAKIN-ETHAN COMPLEX	NOT SEEDED
PIERRE	LOWRY SIL. LOAM	NO-TILL, SOYBEAN STUBBLE
DELL RAPIDS	FLANDREAU LOAM	CONV., CORN

SIL.= SILT, CL.= CLAY, CONV. = CONVENTIONAL.

• Table 4. 1995 corn hybrid performance trial results:  
Watertown, NE Research Farm, early maturity (95 days or less).

BRAND & HYBRID	YIELDS AT		1995			
	15.5% MOIST.		GRAIN MOIST. (%)	BU. WT. (lb)	PLANTS PER ACRE	STALKS LODGED (%)
	1995	2-YR				
	(Bu/A)					
PIONEER 3893	122	127	19	60	23450	3
KALTENBERG K4400	116	128	19	58	23450	5
NORTHRUP KING N3013	115	.	19	58	23450	2
DAIRYLAND ST-1495	115	.	21	57	23450	3
CIBA 4144	115	126	20	59	23450	3
N.KING N-2555	114	126	19	62	23450	2
DYNA-GRO 5095	113	.	20	56	23450	3
PAYCO 402	113	.	19	59	23450	1
DEKALB DK442	112	128	19	57	23450	4
DOMESTIC DX306	110	120	19	59	23450	2
N.KING N-3030	109	122	20	58	23450	6
ICI 8814	108	.	19	59	23450	4
GOLDEN HARVEST H-2294	108	.	20	60	23450	3
DEKALB DK412	107	.	19	59	23450	3
CIBA 1121X	107	.	19	59	23450	6
KALTENBERG K4709	107	127	21	55	23450	3
SEXAUER SX265	106	.	18	58	23003	4
KRUGER K9797	106	.	21	57	23450	1
PIONEER 3905	105	117	19	61	23450	1
PAYCO 413	104	121	19	56	23450	4
CENEX/LOL 351	104	126	19	61	23450	2
SEXAUER SX440	104	.	19	60	23450	1
CENEX-LOL 357	104	.	20	57	23450	1
CENEX-LOL 288	103	.	19	58	23450	1
DEKALB DK401	103	122	18	58	23450	3
KRUGER K9700	103	.	20	55	23450	3
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1995						
DEKALB DK385	102	.	19	60	23450	5
DYNA-GRO UAPX15091	101	.	20	60	23450	8
KALTENBERG K3809	99	119	18	60	23450	4
NC+ 1005	99	.	19	59	23450	4
MYCOGEN 2880	99	111	19	56	23450	0
SANDS SOI 9956	99	.	19	59	23450	4
MYCOGEN 2990	98	.	20	58	23450	6
M-W GENETICS G 6964	98	.	19	60	23450	2
AGRIPRO AP 9186	97	.	20	59	23450	2

Table 4 (continued). NE Research Farm, early maturity.

BRAND & HYBRID	YIELDS AT 15.5% MOIST.		1995			
	1995	2-YR	GRAIN	BU.	PLANTS	STALKS
	(Bu/A)		MOIST. (%)	WT. (lb)	PER ACRE	LODGED (%)
NC+ 1585	97	.	20	55	23450	3
DEKALB DK381	96	118	19	59	23450	4
MYCOGEN 3440	95	115	20	55	23450	2
PAYCO 505	94	.	19	59	22557	2
CARGILL 2497	94	119	21	58	23450	3
CENEX-LOL 345	94	.	19	58	23450	5
DOMESTIC DX404	94	.	20	58	23450	1
GOLDEN HARVEST H-2308	94	.	20	59	23450	2
KRUGER K9600	92	.	20	57	23450	2
SEXAUER SX320	91	.	19	60	23450	5
KALTENBERG K4800	89	115	20	59	23450	6
KRUGER K9594	89	.	19	59	23450	2
TOP FARM SX2194	88	116	19	60	23450	4
KAYSTAR KX-420	87	.	19	60	22892	7
DAIRYLAND ST-1289	86	.	19	58	23450	2
CENEX-LOL 282	86	.	19	58	23450	4
DOMESTIC DX204	86	.	19	59	23450	4
DAIRYLAND ST-1193	85	.	19	59	23450	1
CIBA 4120	83	104	20	58	23450	2
PAYCO 344	82	.	19	59	23450	2
AGRIPRO AP139	79	.	19	57	23450	2
AVERAGE:	100	120	19	58	23416	3
LSD (5%):	19	NS**				
MIN. TOP YIELD VALUE*:	103					
COEF. OF VARIATION#:	12	9				

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

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

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



• Table 5. 1995 corn hybrid performance trial results:  
Watertown, NE Research Farm, late maturity (96 days or more).

BRAND & HYBRID	YIELDS AT		1995			
	15.5% MOIST.		GRAIN MOIST. (%)	BU. WT. (lb)	PLANTS PER ACRE	STALKS LODGED (%)
	1995	2-YR (Bu/A)				
CARGILL 4127	132	.	21	54	23450	2
CARGILL 4177	130	.	23	51	21105	6
SANDS SOI 9045	125	.	22	53	23450	1
PAYCO 605	125	.	21	53	23450	4
PAYCO 635	125	.	21	53	23450	5
KAYSTAR KX-600	122	.	21	53	23450	3
MYCOGEN 4970	122	128	20	56	23450	2
DEKALB DK493	121	143	21	54	23450	3
DEKALB DK471	121	141	20	54	23450	5
CARGILL 3677	121	.	21	57	23450	3
MYCOGEN AG3965	121	.	20	56	23450	1
CARGILL 3797	117	.	21	56	23450	3
KRUGER K9501	117	.	21	54	23450	2
TOP FARM SX2101	117	.	20	55	23450	2
GOLDEN HARVEST H-2377	116	.	21	54	23450	5
DYNA-GRO 5100	116	124	21	55	23450	3
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1995						
CENEX-LOL 424	115	.	22	54	23450	5
TOP FARM SX2199	113	.	21	55	21663	1
N. KING N-4242	113	130	20	58	21998	3
GOLDEN HARVEST H-2408	112	.	22	57	23450	2
GOLDEN HARVEST H-2382	111	127	22	58	23450	4
KALTENBERG K4609	111	.	21	54	23450	2
PAYCO 531	110	124	20	56	23450	2
PIONEER 3733	110	137	21	58	23450	2
AGRIPRO AP 9230	107	.	20	54	23450	4
TOP FARM SX2103	106	128	23	54	23450	3
CENEX-LOL 393	106	.	20	57	23450	2
ICI 8746	106	.	21	55	22333	3
DAIRYLAND ST-1200	105	.	21	54	23450	1
DAIRYLAND ST-1400	105	.	19	55	23450	3
PAYCO 614	105	123	20	55	23450	1
CENEX-LOL 375	105	.	20	58	23450	5
PIONEER 3730	104	.	21	57	22445	2
MYCOGEN 3560	101	115	20	60	21775	5
M-W GENETICS G 7121	97	.	21	56	23450	2
AVERAGE:	114	129	21	55	23182	3
LSD (5%):	15	NS**				
MIN. TOP YIELD VALUE*:	116					
COEF. OF VARIATION#:	8	7				

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

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

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

• Table 6. 1995 corn hybrid performance trial results (no-till):  
Frankfort, Steve Masat Farm, early maturity (100 days or less).

BRAND & HYBRID	YIELDS AT		1995			
	15.5% MOIST.		GRAIN MOIST. (%)	BU. WT. (lb)	PLANTS PER ACRE	STALKS LODGED (%)
	1995	2-YR (Bu/A)				
PAYCO 635	130	.	18	58	22110	3
ICI 8746	126	171	17	58	22110	2
CIBA 4303	125	.	19	63	22110	1
DEKALB DK493	125	166	17	57	22110	2
PIONEER 3730	122	.	18	60	22110	2
DEKALB DK471	120	164	17	59	22110	4
MYCOGEN AG3965	119	.	17	59	22110	3
GOLDEN HARVEST H-2382	117	147	18	61	22110	3
CIBA 4273	116	147	18	62	22110	2
KRUGER K9700	115	.	17	58	22110	4
CARGILL 3797	115	.	18	60	22110	2
MYCOGEN 4970	114	160	17	60	21552	4
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1995						
CENEX-LOL 351	113	.	17	62	22110	2
TOP FARM SX2194	111	.	16	62	22110	1
CARGILL 3677	110	.	16	63	22110	3
SANDS SOI 9956	110	.	17	62	22110	2
DEKALB DK442	109	141	17	60	22110	2
PIONEER 3733	108	163	18	62	22110	3
CIBA 4214	107	142	16	61	22110	2
DYNA-GRO 5100	106	143	17	61	22110	2
PAYCO 505	105	.	18	60	22110	2
DAIRYLAND ST-1198	105	145	17	58	22110	2
TOP FARM SX2199	105	.	18	58	22110	2
MYCOGEN 3560	104	141	18	63	21217	2
PAYCO 605	103	.	18	58	22110	2
CENEX-LOL 345	101	.	17	62	22110	5
PAYCO 531	101	136	17	60	22110	1
CENEX-LOL 375	101	.	17	61	22110	2
DAIRYLAND ST-1495	99	.	17	61	22110	6
GOLDEN HARVEST H-2294	99	.	18	64	22110	9
LEGEND LS7598	99	.	18	60	22110	3
DAIRYLAND ST-1202	98	.	17	61	22110	1
PAYCO 413	98	.	17	59	22110	2
DYNA-GRO 5095	98	.	17	59	22110	4
KALTENBERG K4909	98	.	18	60	21663	4

Table 6 (continued). Steve Masat Farm, early maturity.

BRAND & HYBRID	YIELDS AT 15.5% MOIST.		1995			
	1995	2-YR	GRAIN	BU.	PLANTS	STALKS
	(Bu/A)		MOIST. (%)	WT. (lb)	PER ACRE	LODGED (%)
CIBA 4285	96	.	18	59	22110	7
KALTENBERG K5109	95	.	18	59	22110	2
KRUGER K9600	95	.	18	59	22110	1
PAYCO 614	95	136	17	59	22110	4
KRUGER K9797	94	.	18	62	22110	1
KALTENBERG K4805	94	143	17	59	22110	2
KRUGER K9501	90	.	17	58	22110	2
N.KING N-4242	87	145	17	61	22110	2
KAYSTAR KX-600	86	.	18	59	22110	3
DAIRYLAND ST-1200	83	125	17	61	22110	2
DYNA-GRO UAPX15091	83	.	16	59	22110	5
TOP FARM SX2101	82	.	17	60	22110	1
GOLDEN HARVEST H-2308	67	.	18	61	22110	5
AVERAGE:	104	148	17	60	22070	3
LSD (5%):	16	24				
MIN. TOP YIELD VALUE*:	114	147				
COEF. OF VARIATION#:	10	8				

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

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

• Table 7. 1995 corn hybrid performance trial results (no-till):  
Frankfort, Steve Masat Farm, late maturity (101 days or more).

BRAND & HYBRID	YIELDS AT 15.5% MOIST.		1995			
	1995 (Bu/A)	2-YR	GRAIN	BU.	PLANTS	STALKS
			MOIST. (%)	WT. (lb)	PER ACRE	LODGED (%)
DEKALB DK527	134	168	18	56	22110	3
CARGILL 4277	134	.	19	56	22110	2
GOLDEN HARVEST H-2377	132	.	19	56	21775	3
DEKALB DK560	131	171	19	57	22110	2
PIONEER 3531	129	160	19	57	22110	3
KRUGER K9606A	129	.	19	57	22110	1
PIONEER 3556	127	160	20	57	22110	1
MYCOGEN 4760	127	.	19	59	22110	2
DEKALB DK512	126	175	18	56	22110	3
KAYSTAR KX-711	125	.	20	57	22110	1
CARGILL 4127	123	.	18	59	22110	2
PAYCO 633	121	159	19	58	22110	2
PIONEER 3563	120	151	18	59	22110	2
MYCOGEN 5480	120	152	20	58	22110	1
CARGILL 4177	120	.	19	56	22110	2
ICI 8690IT	120	.	19	55	22110	2
CENEX-LOL 534	119	.	19	55	22110	1
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1995						
TOP FARM SX2103	117	161	19	58	22110	1
KALTENBERG K5901	115	.	20	55	22110	1
DAIRYLAND ST-1407	112	.	18	56	22110	1
NORTHROP KING N4640	111	.	18	58	22110	1
SANDS SOI 9045	110	.	19	55	22110	1
DAIRYLAND ST-1108	108	.	19	57	22110	0
GOLDEN HARVEST H-2408	107	.	19	58	22110	1
KRUGER K9506	103	.	19	53	22110	1
TOP FARM SX2104	102	143	19	55	22110	2
CENEX-LOL 492	102	.	19	57	22110	3
KAYSTAR KX-667	95	122	19	56	22110	2
KALTENBERG K5809	84	.	18	58	22110	5
AVERAGE:	117	157	19	57	22098	2
LSD (5%):	16	21				
MIN. TOP YIELD VALUE*:	119	155				
COEF. OF VARIATION#:	8	8				

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

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

• Table 8. 1995 corn hybrid performance trial results:  
Brookings, SDSU Agronomy Farm, early maturity (100 days or less).

BRAND & HYBRID	YIELDS AT		1995			
	15.5% MOIST.		GRAIN MOIST. (%)	BU. WT. (lb)	PLANTS PER ACRE	STALKS LODGED (%)
	1995 (Bu/A)	2-YR				
EPLEY EX1400	152	.	16	59	23450	3
TERRA TR1014	148	107	17	59	23450	1
KRUGER K9600	146	.	15	60	23450	4
DEKALB DK471	145	109	15	59	23450	3
GOLDEN HARVEST H-2382	144	115	17	58	23450	2
CARGILL 3677	142	.	16	60	23450	5
DEKALB DK493	140	113	15	61	23450	5
DAIRYLAND ST-1200	139	105	16	61	23450	7
KRUGER K9501	138	109	16	58	23450	4
MALLARD UC-595A	138	.	16	60	23450	1
SANDS SOI 9991	138	111	15	58	23450	2
CIBA 4273	138	108	16	59	23450	4
PIONEER 3730	138	.	16	60	23450	7
MYCOGEN 4970	137	102	15	60	23450	5
DAIRYLAND ST-1198	137	107	15	60	23450	2
N.KING N-4242	136	114	15	60	21943	5
DYNA-GRO 5100	136	109	16	59	23450	2
STINE 9401	136	.	16	60	23450	2
ICI 8746	135	109	16	58	23450	3
AGRIPRO AP 9230	134	.	16	57	23450	5
KAYSTAR KX-600	134	.	15	60	23450	4
PAYCO 605	134	.	15	58	23450	5
TERRA TR 990	134	.	15	60	23450	4
PAYCO 531	133	106	16	60	23450	2
DYNA-GRO 5095	133	.	15	60	23450	3
DAIRYLAND ST-1495	132	.	15	59	23450	4
ASGROW RX450	132	.	15	58	23450	2
LEGEND LS7598	132	.	16	60	23450	4
MYCOGEN 3560	132	101	15	61	23450	5
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1995						
DOMESTIC DX522	130	98	16	61	23450	2
TOP FARM SX2199	130	.	16	59	23450	8
TOP FARM SX2101	130	.	15	59	23450	2
N.KING N-3030	129	108	16	60	23450	10
ASGROW RX444	129	.	16	57	23450	6
CENEX-LOL 393	128	.	16	59	23450	2



Table 8 (continued). SDSU Agronomy Farm, early maturity.

BRAND & HYBRID	YIELDS AT 15.5% MOIST.		1995			
	1995	2-YR	GRAIN	BU.	PLANTS	STALKS
	(Bu/A)		MOIST. (%)	WT. (lb)	PER ACRE	LODGED (%)
DOMESTIC DX404	127	.	16	61	23450	3
DAIRYLAND ST-1202	127	104	16	57	22948	2
SANDS SOI 9956	127	.	15	61	23450	4
CIBA 4120	127	.	15	60	23450	7
GOLDEN HARVEST H-2308	125	.	16	59	23450	6
DEKALB DK442	125	101	15	58	23450	8
KRUGER K9700	125	.	16	61	23450	4
PAYCO 635	125	.	15	58	23450	5
CENEX/LOL 424	124	102	16	56	23450	6
PAYCO 505	123	.	15	59	19765	4
NORTHRUP KING N3013	122	.	15	58	23450	2
STINE 993	121	101	15	60	22110	1
PAYCO 614	121	91	16	59	23450	1
DEKALB DK385	121	.	14	57	22613	3
TOP FARM SX2194	120	92	15	61	22613	3
CENEX-LOL 351	120	.	15	61	23450	4
AGRIPRO AP 9186	119	.	16	57	22613	6
MYCOGEN AG3965	118	.	15	60	22613	4
AGRIPRO AP139	118	.	15	62	23450	3
CENEX-LOL 375	118	.	15	61	23450	8
MYCOGEN 3440	117	100	16	59	23450	4
DEKALB DK412	116	.	15	59	23450	5
DYNA-GRO UAPX15091	116	.	15	60	23450	4
PIONEER 3733	116	94	16	61	23450	7
CENEX-LOL 345	116	.	15	60	19933	5
M-W GENETICS G 6964	115	.	15	61	23450	6
CIBA 4144	114	.	15	61	23450	4
ASGROW RX484	113	.	15	57	23450	5
CIBA 1121X	113	.	16	60	20770	3
GOLDEN HARVEST H-2294	112	.	16	60	23450	4
SEXAUER SX440	107	.	15	60	23450	3
CARGILL 3797	106	.	15	59	22445	4
AVERAGE:	128	105	15	59	23188	4
LSD (5%):	21	13				
MIN. TOP YIELD VALUE*:	131	102				
COEF. OF VARIATION#:	8	9				

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

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

• Table 9. 1995 corn hybrid performance trial results:  
Brookings, SDSU Agronomy Farm, late maturity (101 days or more).

BRAND & HYBRID	YIELDS AT 15.5% MOIST.		1995			
	1995	2-YR	GRAIN MOIST.	BU. WT.	PLANTS PER ACRE	STALKS LODGED
	(Bu/A)		(%)	(lb)		(%)
TERRA TR 1087	172	.	19	57	23450	3
CARGILL 4277	154	125	17	57	23450	5
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1995						
KAYSTAR KX-711	153	.	17	59	23450	2
KRUGER K9609	153	.	19	55	23450	4
PIONEER 3563	151	122	17	60	23450	4
KRUGER K9507PT	151	118	18	59	23450	4
KRUGER K9608A	150	.	17	59	23450	4
KRUGER K9509	149	121	17	60	23450	4
EPLEY EX1500	148	.	17	58	23450	4
NORTHRUP KING N4640	148	.	16	58	21998	2
KRUGER K9506	145	.	17	57	23450	3
ASGROW RX623T	145	.	18	60	23450	7
AGRIPRO AP 9400	143	.	17	57	23450	3
ASGROW RX510	142	.	17	57	23450	9
PIONEER 3556	140	123	17	60	22780	3
TERRA TR 1094	140	.	18	55	23450	2
NC+ 2844	140	.	16	57	22892	4
KRUGER K9407	139	113	17	57	23450	3
CARGILL 4127	139	.	16	59	23450	3
DEKALB DK527	139	115	17	56	23450	6
PIONEER 3531	137	112	17	59	22557	7
KRUGER K9609A	137	.	18	58	23003	4
AGRIPRO EX 9395	136	.	17	55	22892	2
SANDS SOI 9045	136	.	17	58	22892	6
SANDS SOI 9074	136	.	17	56	23450	2
KRUGER K9606	135	.	17	58	23450	3
PAYCO 633	135	.	17	58	23450	3
MYCOGEN 5480	134	110	17	59	23450	4
EPLEY EX 1450	134	108	16	56	23115	4
M-W GENETICS G 7370	134	.	17	56	23450	4
CENEX-LOL 492	133	.	17	60	23450	6
MYCOGEN 4760	133	.	16	60	23450	4
CARGILL 4177	132	.	17	56	19988	1
GOLDEN HARVEST H-2377	132	.	17	55	23450	6
TERRA TR1091	132	104	18	56	20100	3

Table 9 (continued). SDSU Agronomy Farm, late maturity.

BRAND & HYBRID	YIELDS AT 15.5% MOIST.		1995			
	1995	2-YR	GRAIN	BU.	PLANTS	STALKS
	(Bu/A)		MOIST. (%)	WT. (lb)	PER ACRE	LODGED (%)
TOP FARM SX2103	132	.	17	57	23450	3
M-W GENETICS G 7350	131	.	17	57	23450	4
ASGROW RX490	131	.	17	59	23450	4
MALLARD UC-6151	130	.	16	59	23450	6
EPLEY EX 1204	130	105	17	59	23450	3
GOLDEN HARVEST H-2408	129	107	17	58	23450	4
KRUGER K9607	129	102	17	58	22668	7
DAIRYLAND ST-1108	128	.	17	57	23450	3
SEXAUER SX620	126	.	16	58	21440	2
CENEX-LOL 534	126	.	17	57	21105	4
DOMESTIC DX602	126	105	17	57	23450	3
KRUGER K9606A	125	.	16	57	23115	4
EPLEY EX 2417	123	101	17	57	23450	4
PAYCO 734	123	.	17	58	23003	2
STINE 1033	119	105	16	59	23450	1
LEGEND LS8406	111	.	17	56	23450	3
ICI 8704	106	.	17	59	23450	4
AVERAGE:	136	112	17	58	23100	4
LSD (5%):	18	14				
MIN. TOP YIELD VALUE*:	154	111				
COEF. OF VARIATION#:	8	8				

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

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

• Table 10. 1995 corn hybrid performance trial results:  
Dell Rapids, Kevin Crisp Farm, early maturity (105 days or less).

BRAND & HYBRID	YIELDS AT		1995			
	15.5% MOIST.		GRAIN MOIST. (%)	BU. WT. (lb)	PLANTS PER ACRE	STALKS LODGED (%)
	1995 (Bu/A)	2-YR				
DEKALB DK512	111	158	15	57	23450	2
KRUGER K9507PT	111	156	17	56	23450	2
TOP FARM SX2103	108	153	16	59	23450	1
KRUGER K9501	108	151	15	56	23450	3
CENEX-LOL 492	104	.	16	57	23450	2
CARGILL 3677	104	.	15	58	23450	2
KAYSTAR KX-600	103	.	15	58	23450	2
CARGILL 4277	103	151	16	55	23450	2
CARGILL 4127	102	.	15	56	23450	6
CENEX-LOL 534	102	.	17	53	23450	1
N.KING N-4242	101	145	15	60	23450	4
CIBA 4394	101	.	16	57	23450	2
MALLARD UC-2680	101	.	16	58	23450	3
KRUGER K9506	100	.	16	54	23450	2
STINE 2017X	100	.	16	55	23450	1
CARGILL 4177	99	.	16	56	23450	7
STINE 9503	99	.	16	55	23450	2
TOP FARM SX2104	99	143	16	56	23450	3
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1995						
DEKALB DK471	98	150	13	56	23450	7
ASGROW RX510	98	148	16	54	23450	4
DEKALB DK493	98	.	14	56	23450	8
M-W GENETICS G 7370	98	.	16	55	23450	3
RENZE 6221	98	.	16	57	23450	4
RENZE 6246	98	.	17	56	23450	1
KRUGER K9607	98	155	17	54	23450	2
MYCOGEN 4760	97	.	15	58	23450	4
MYCOGEN 5150CB	97	140	16	57	23450	2
ICI 8690IT	97	.	15	56	23450	4
GOLDEN HARVEST H-2408	96	.	16	59	23450	3
PAYCO 635	96	.	15	56	23450	3
PIONEER 3563	96	142	16	57	23450	4
DOMESTIC DX602	96	145	16	56	23450	3
M-W GENETICS G 7350	96	.	16	58	23450	4
TOP FARM SX2101	95	.	15	58	23450	2
CIBA 4285	95	.	16	58	23450	1

Table 10 (continued). Kevin Crisp Farm, early maturity.

BRAND & HYBRID	YIELDS AT 15.5% MOIST.		1995			
	1995	2-YR	GRAIN MOIST. (%)	BU. WT. (lb)	PLANTS PER ACRE	STALKS LODGED (%)
	(Bu/A)					
ASGROW RX484	95	.	14	58	23450	2
PIONEER 3531	94	148	16	58	23450	3
MYCOGEN 4970	93	133	16	56	23450	4
ASGROW RX623T	93	.	16	54	23450	4
ASGROW RX450	93	.	14	55	23450	3
PAYCO 605	93	.	15	58	23450	3
NORTHROP KING N4640	92	.	15	59	23450	2
SANDS SOI 9045	92	.	16	53	23450	1
SANDS 9053	92	138	16	57	23450	4
ASGROW RX444	91	.	15	55	23450	3
KRUGER K9606A	91	.	17	56	23450	4
CARGILL 3797	90	.	15	59	23450	3
PAYCO 531	89	139	15	56	23450	2
KAYSTAR KX-667	89	.	16	57	23450	4
ASGROW RX490	88	.	16	59	23450	7
PAYCO 614	87	131	15	57	23450	3
PIONEER 3556	86	134	16	61	23450	5
DOMESTIC DX522	86	.	14	56	23450	3
DEKALB DK527	86	136	15	56	23450	2
GOLDEN HARVEST H-2377	86	.	15	59	23450	5
CIBA 4273	83	.	16	60	23450	4
CIBA 4375	82	.	17	59	23450	4
SEXAUER SX620	82	.	15	57	23450	2
AVERAGE:	96	145	16	57	23450	3
LSD (5%):	12	13				
MIN. TOP YIELD VALUE*:	99	145				
COEF. OF VARIATION#:	8	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 11. 1995 corn hybrid performance trial results:  
Dell Rapids, Kevin Crisp Farm, late maturity (106 days or more).

BRAND & HYBRID	YIELDS AT 15.5% MOIST.		1995			
	1995	2-YR	GRAIN	BU.	PLANTS	STALKS
	(Bu/A)		MOIST. (%)	WT. (lb)	PER ACRE	LODGED (%)
KAYSTAR KX-777	109	.	18	55	23450	0
SANDS SOI 9061	106	150	17	55	23450	1
ICI 8541	103	.	18	54	23450	2
CENEX-LOL 661	101	.	19	53	23450	1
M-W GENETICS G 7480	98	.	17	57	23450	2
DEKALB DK560	97	149	17	53	23450	1
KAYSTAR KX-711	96	.	17	55	23450	1
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1995						
MYCOGEN 6220	95	.	18	52	23450	1
TOP FARM SX2110	95	.	17	57	23450	1
MYCOGEN 6060	94	.	16	56	23450	1
DAIRYLAND ST-1407	94	.	16	53	23450	2
NORTHROP KING N5866	93	.	17	57	23450	2
DAIRYLAND ST-1108	93	141	17	55	23450	1
PAYCO 734	92	148	16	54	23450	1
PIONEER 3375	92	.	20	51	23450	1
CENEX-LOL 599	92	.	17	57	23450	2
PIONEER 3489	91	153	17	54	23450	2
DEKALB DK569	89	153	16	55	23450	2
DOMESTIC DX720	89	.	16	53	23450	0
CARGILL 5547	88	.	17	59	23450	2
MYCOGEN 5480	86	.	17	55	23450	3
M-W GENETICS G 7594	86	.	16	55	23450	2
PIONEER 3394	84	.	19	54	23450	3
SANDS SOI 9074	81	.	16	55	23450	2
MALLARD UC-2685	81	.	16	54	23450	2
STINE 9601	80	.	17	57	23450	2
SEXAUER SX730	79	.	16	56	23450	1
GOLDEN HARVEST H-2502	79	.	22	52	23450	2
AVERAGE:	92	149	17	55	23450	1
LSD (5%):	13	NS**				
MIN. TOP YIELD VALUE*:	96					
COEF. OF VARIATION#:	9	6				

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

• Table 12. 1995 corn hybrid performance trial results (irrigated, no-till):  
Pierre, Dakota Lakes Research Farm, early maturity (100 days or less).

BRAND & HYBRID	YIELDS AT		1995			
	15.5% MOIST.		GRAIN MOIST. (%)	BU. WT. (lb)	PLANTS PER ACRE	STALKS LODGED (%)
	1995	2-YR				
	(Bu/A)					
PIONEER 3730	188	.	16	63	35510	2
DEKALB DK493	184	173	15	59	35510	7
CIBA 4273	179	159	16	64	35510	3
KAYSTAR KX-600	177	.	16	62	35510	2
DEKALB DK471	175	.	15	61	35510	5
CIBA 4285	172	.	16	61	35510	1
PAYCO 531	172	172	15	61	35510	1
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1995						
MYCOGEN 4970	168	164	16	62	35510	4
CIBA 4214	167	147	15	63	35510	3
ICI N2901	165	.	15	62	35510	3
PAYCO 635	163	.	15	59	35510	3
DEKALB DK442	163	.	14	60	35510	4
PIONEER 3733	162	157	16	65	35510	5
PAYCO 605	158	.	15	63	35510	3
TOP FARM SX2101	157	.	14	61	34170	3
CENEX/LOL 424	155	149	15	59	35510	3
GOLDEN HARVEST H-2308	152	.	15	62	35510	2
TOP FARM SX2199	150	.	16	62	35510	2
GOLDEN HARVEST H-2294	148	.	16	64	35510	5
CENEX-LOL 357	145	.	15	64	35510	4
PAYCO 614	144	136	15	62	35510	2
CENEX-LOL 375	144	.	15	62	35510	3
MYCOGEN AG3965	142	.	15	61	35510	7
DYNA-GRO 5100	140	144	15	62	35510	5
WILSON E4103	138	.	16	63	35510	3
AVERAGE:	160	156	15	62	35456	3
LSD (5%):	20	NS**				
MIN. TOP YIELD VALUE*:	169					
COEF. OF VARIATION#:	8	8				

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

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

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

• Table 13. 1995 corn hybrid performance trial results (irrigated, no-till):  
Pierre, Dakota Lakes Research Farm, late maturity (101 days or more).

BRAND & HYBRID	YIELDS AT 15.5% MOIST.		1995			
	1995 (Bu/A)	2-YR	GRAIN	BU.	PLANTS	STALKS
			MOIST. (%)	WT. (lb)	PER ACRE	LODGED (%)
KAYSTAR KX-777	230	194	18	58	35510	1
PAYCO 734	215	173	17	60	35510	1
DEKALB DK580	211	182	16	59	35510	1
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1995						
CARGILL 7777	207	171	18	59	35510	2
PIONEER 3394	206	179	17	58	35510	1
KAYSTAR KX-711	205	182	17	62	35510	1
WILSON 1371	204	181	17	58	35510	1
MYCOGEN 6220	204	.	17	60	35510	2
CARGILL 6997	203	.	20	58	35510	1
CENEX-LOL 600	201	.	17	57	35510	1
PIONEER 3489	200	184	17	59	35510	0
KAYSTAR KX-909	200	124	18	56	35510	1
CENEX-LOL 534	197	.	17	57	35510	1
CENEX-LOL 599	196	.	17	60	35510	1
CARGILL 6303	196	175	17	59	35510	2
CARGILL 5677	195	165	14	60	35510	3
NORTHROP KING N6223	194	.	17	60	35510	2
PIONEER 3563	194	.	16	62	35510	3
PIONEER 3375	193	.	19	57	35510	3
CENEX-LOL 492	193	.	17	61	35510	2
MYCOGEN 6060	190	.	17	60	35510	1
NORTHROP KING N4640	189	.	15	61	35510	1
ICI 8541	188	.	17	58	35510	3
DEKALB DK560	188	168	16	62	35510	1
CENEX-LOL 581	186	.	17	60	34170	2
PIONEER 3531	186	160	16	60	35510	1
GOLDEN HARVEST H-2493	185	174	16	58	35510	2
GOLDEN HARVEST H-2502	185	.	19	59	35510	1
TOP FARM SX2104	184	.	16	60	35510	1
CENEX-LOL 434	183	.	15	59	35510	1
CIBA 4375	181	.	17	63	34728	3
TOP FARM SX2103	180	.	17	62	35510	1
LEGEND LS8409	179	147	17	60	35510	1
STINE 9601	179	.	17	60	35510	1
PAYCO 633	178	164	16	60	35510	1

Table 13 (continued). Dakota Lakes Research Farm, late maturity.

BRAND & HYBRID	YIELDS AT		1995			
	15.5% MOIST.		GRAIN MOIST. (%)	BU. WT. (lb)	PLANTS PER ACRE	STALKS LODGED (%)
	1995	2-YR (Bu/A)				
CARGILL 4277	178	.	16	61	35510	1
SEXAUER SX730	178	.	16	61	35510	1
NORTHROP KING N5866	177	.	18	60	35510	3
ICI N2660	177	.	17	61	35510	2
DEKALB DK527	176	151	15	60	35510	4
WILSON E4150	174	.	17	63	35510	3
STINE 94-486EX	174	.	17	58	35510	2
CENEX-LOL 550PT	173	.	17	58	35510	2
WILSON E4083	172	.	16	59	35510	1
GOLDEN HARVEST H-2408	166	.	17	63	35510	1
GOLDEN HARVEST H-2377	166	.	16	60	35510	2
SEXAUER SX675	165	155	17	60	33723	2
MYCOGEN 4760	159	.	16	61	35510	3
AVERAGE:	188	168	17	60	35429	2
LSD (5%):	19	NS**				
MIN. TOP YIELD VALUE*:	211					
COEF. OF VARIATION#:	6	8				

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

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

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

• Table 14. 1995 corn hybrid performance trial results (no-till, dryland):  
Pierre, Dakota Lakes Research Farm, early maturity (100 days or less).

BRAND & HYBRID	YIELDS AT		1995			
	15.5% MOIST.		GRAIN MOIST. (%)	BU. WT. (lb)	PLANTS PER ACRE	STALKS LODGED (%)
	1995	2-YR				
	(Bu/A)					
PIONEER 3730	103	.	14	59	22110	1
DEKALB DK471	100	.	13	57	22110	1
PIONEER 3733	99	.	14	61	22110	0
CENEX-LOL 375	95	.	14	58	22110	1
KAYSTAR KX-600	94	.	13	57	22110	2
GOLDEN HARVEST H-2308	93	.	14	60	22110	1
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1995						
PAYCO 531	90	.	14	59	22110	1
CENEX-LOL 424	88	.	13	56	22110	1
CENEX-LOL 345	84	.	13	58	22110	1
PAYCO 635	83	.	13	55	22110	1
PAYCO 605	79	.	14	60	22110	1
PAYCO 614	75	.	13	58	22110	1
ICI 8746	70	.	14	59	22110	1
AVERAGE:	89	.	14	58	22110	1
LSD (5%):	12					
MIN. TOP YIELD VALUE*:	92					
COEF. OF VARIATION#:	8					

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

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



• Table 15. 1995 corn hybrid performance trial results (no-till, dryland):  
Pierre, Dakota Lakes Research Farm, late maturity (101 days or more).

BRAND & HYBRID	YIELDS AT 15.5% MOIST.		1995			
	1995	2-YR	GRAIN	BU.	PLANTS	STALKS
	(Bu/A)		MOIST. (%)	WT. (lb)	PER ACRE	LODGED (%)
GOLDEN HARVEST H-2404	107	*	14	62	22110	2
PIONEER 3563	107	*	15	61	21217	1
PIONEER 3556	106	*	14	60	22110	0
PIONEER 3489	106	*	15	59	21775	0
GOLDEN HARVEST H-2408	103	*	15	61	22110	0
CARGILL 7777	102	*	17	60	22110	0
DEKALB DK512	102	*	14	58	22110	0
SEXAUER SX780	102	*	15	59	22110	1
PAYCO 633	102	*	14	59	22110	1
CARGILL 4277	93	*	14	59	22110	0
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1995						
CARGILL 6997	88	*	15	60	22110	0
SEXAUER SX730	87	*	14	58	22110	0
CARGILL 6303	86	*	14	58	22110	1
CENEX-LOL 534	86	*	14	57	22110	0
CENEX-LOL 492	84	*	14	60	22110	0
PAYCO 734	83	*	14	57	22110	1
CARGILL 5677	82	*	14	59	22110	1
AVERAGE:	96	*	14	59	22038	0
LSD (5%):	17					
MIN. TOP YIELD VALUE*:	91					
COEF. OF VARIATION#:	11					

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

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

• Table 16. 1995 corn hybrid performance trial results:  
Beresford, SE Research Farm, early maturity (110 days or less).

BRAND & HYBRID	YIELDS AT		1995			
	15.5% MOIST.		GRAIN MOIST. (%)	BU. WT. (lb)	PLANTS PER ACRE	STALKS LODGED (%)
	1995	2-YR (Bu/A)				
AGRIPRO AP 9560	177	.	17	58	24120	2
DEKALB DK566	176	181	17	58	24120	2
TERRA TR 1087	169	.	18	61	21998	5
CENEX/LOL 618	164	172	17	61	24120	2
ASGROW RX623T	160	.	17	60	23115	4
PIONEER 3489	159	182	17	59	23003	3
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1995						
KRUGER K9609	156	.	17	58	24120	3
KRUGER K9612	155	.	18	61	23673	2
DEKALB DK560	155	173	17	61	22668	2
AGRIPRO AP 9507	155	.	18	61	23673	3
CARGILL 6303	155	171	17	62	24008	2
KRUGER K9608A	155	.	17	62	23897	2
DOMESTIC DX720	155	.	17	62	22668	2
CENEX/LOL 599	154	172	18	62	23673	2
KRUGER K9513	154	.	18	58	22222	3
WILSON E4150	153	.	17	62	21775	2
KRUGER K9410	153	.	18	59	24120	2
M-W GENETICS G 7610	153	.	18	59	24120	2
CIBA 4394	152	176	17	62	22222	3
PAYCO 754	152	169	17	59	23450	3
KRUGER K9509	151	165	17	62	23897	1
CARGILL 5547	150	172	17	61	24120	5
STINE X2017	150	.	17	60	23115	2
MYCOGEN 6060	149	.	17	61	23003	3
PIONEER 3394	149	171	17	61	23227	4
NC+ 4919	149	.	18	60	22557	5
DOMESTIC DX602	149	.	17	61	24120	2
SANDS SOI 9045	147	.	17	60	22892	1
M-W GENETICS G 7480	147	.	17	62	23673	2
DEKALB DK580	146	171	17	60	23115	2
EPLEY EX 3600	146	167	17	59	22445	5
KRUGER K9609A	146	.	18	60	21552	5
KRUGER K9613A	145	.	18	60	22110	4
MYCOGEN 6220	145	166	16	60	20993	3
KRUGER K9507PT	144	166	18	63	23227	3

Table 16 (continued). SE Research Farm, early maturity.

BRAND & HYBRID	YIELDS AT		1995			
	15.5% MOIST.		GRAIN MOIST. (%)	BU. WT. (lb)	PLANTS PER ACRE	STALKS LODGED (%)
	1995	2-YR				
	(Bu/A)					
EPLEY EX 3480	144	165	17	62	22557	1
CARGILL 4277	144	.	16	60	24120	5
CIBA 4494	144	166	17	61	21887	3
LEGEND LS8409	144	168	17	61	24120	3
EPLEY EX 2417	143	157	18	60	24120	2
GOLDEN HARVEST H-2502	143	.	19	60	22333	1
CENEX-LOL 550PT	143	.	17	61	21775	3
CENEX-LOL 534	143	.	17	58	21552	3
WILSON E4079	143	.	17	59	21663	2
ASGROW RX510	142	.	16	60	22892	3
ICI 8541	142	.	17	60	24008	4
DEKALB DK512	141	166	16	61	22780	2
CARGILL 5677	141	162	16	62	21998	3
TOP FARM SX2104	141	160	17	61	24120	2
SANDS SOI 9074	141	.	17	59	24120	5
EPLEY EX1500	141	.	17	61	21998	3
RENZE 6323	141	.	17	60	21552	4
RENZE 6326	141	.	17	61	21440	2
SANDS SOI 9061	141	165	17	60	21998	5
DEKALB DK569	141	.	17	59	21440	5
KRUGER K9607	140	166	16	58	20882	2
PAYCO 734	140	163	17	59	20658	4
SEXAUER SX730	139	162	17	60	24120	3
WILSON E4083	139	.	16	60	23115	5
KRUGER K9610	139	.	17	60	22445	3
STINE 9601	139	.	17	60	22557	2
WILSON 1581	139	153	17	60	22333	1
NORTHRUP KING N6223	139	.	17	60	21552	10
KALTENBERG K6409	138	.	17	62	23450	2
RENZE 6246	137	163	17	59	18760	5
CENEX-LOL 492	137	.	17	63	19765	3
NORTHRUP KING N5866	136	.	18	61	22222	5
PIONEER 3531	136	.	17	61	20770	6
SEXAUER SX675	135	165	17	60	22445	6
NORTHRUP KING N4640	135	.	16	63	22110	1

Table 16 (continued). SE Research Farm, early maturity.

BRAND & HYBRID	YIELDS AT 15.5% MOIST.		1995			
	1995 (Bu/A)	2-YR	GRAIN	BU.	PLANTS	STALKS
			MOIST. (%)	WT. (lb)	PER ACRE	LODGED (%)
RENZE 6221	134	160	17	59	21887	5
WILSON 1371	132	162	17	59	18760	3
STINE 94-310EX	132	*	16	57	21998	4
FONTANELLE 4824	131	*	17	60	22892	3
PIONEER 3556	130	145	17	63	21663	3
TERRA TR 1094	130	*	16	59	23897	4
KRUGER K9506	130	*	17	60	19207	3
TERRA TR1091	130	165	16	59	20770	5
CENEX-LOL 600	128	*	17	59	20993	2
NC+ 4044	127	*	17	57	17085	3
M-W GENETICS G 7488	127	*	17	60	20212	3
GOLDEN HARVEST H-2408	125	146	17	60	23450	3
CIBA 4475	125	*	16	61	24120	5
FONTANELLE 4865	122	*	17	60	18537	3
CIBA 4365	119	*	17	64	17755	3
FONTANELLE 4193	111	*	18	62	17532	2
AVERAGE:	143	166	17	60	22340	3
LSD (5%):	20	17				
MIN. TOP YIELD VALUE*:	158	165				
COEF. OF VARIATION#:	9	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 17. 1995 corn hybrid performance trial results:  
Beresford, SE Research Farm, late maturity (111 days or more).

BRAND & HYBRID	YIELDS AT 15.5% MOIST.		1995			
	1995	2-YR	GRAIN	BU.	PLANTS	STALKS
	(Bu/A)	(Bu/A)	MOIST. (%)	WT. (lb)	PER ACRE	LODGED (%)
KAYSTAR KX-777	182	186	17	61	24120	1
GOLDEN HARVEST H-2547	178	.	18	62	22780	1
KALTENBERG K7001	177	.	18	61	23450	2
CENEX-LOL 674	177	.	18	62	24120	1
TOP FARM SX2115	175	.	18	61	23785	1
PAYCO 834	173	177	18	61	24120	3
CENEX-LOL 661	166	.	18	61	21887	1
KRUGER K9615	163	.	18	62	21775	2
MYCOGEN 7250CB	162	183	18	61	21552	2
CARGILL 7777	162	172	18	63	23227	2
RENZE 6395	162	172	19	61	22333	0
KRUGER K9614	161	.	17	60	21775	1
M-W GENETICS X 51120	160	.	18	61	22110	2
RENZE 6345	159	173	18	62	23338	0
RENZE 6386	158	.	18	62	22110	1
ENTRIES APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1995						
KRUGER K9315B/PT	156	.	19	63	22780	2
SANDS SOI 9115	156	.	18	61	24120	0
KRUGER K9614A	156	.	18	61	20882	3
CARGILL 6997	152	.	19	62	24008	1
KRUGER K9614W	152	.	19	62	20770	2
PAYCO 814	148	163	17	62	21328	2
MYCOGEN 7050CB	148	.	17	63	20323	0
TERRA TR1130	148	165	18	62	24120	1
SEXAUER SX780	143	144	18	63	24120	1
NORTHRUP KING N7070	143	.	18	61	21775	1
ICI 8481IT	143	.	20	62	23673	2
TERRA TR1126	138	162	18	61	22333	0
STINE 9702	137	.	18	62	19988	0
SANDS SOI 9150	137	.	19	62	21217	2
KRUGER K9514A	134	.	17	62	22780	3
PIONEER 3375	115	.	18	62	14070	11
AVERAGE:	156	169	18	62	22283	2
LSD (5%):	25	NS**				
MIN. TOP YIELD VALUE*:	158					
COEF. OF VARIATION#:	10	7				

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

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

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

## Entries in the 1995 corn hybrid performance trials.

BRAND & HYBRID	TABLE NO.	BRAND & HYBRID	TABLE NO.
Agripro AP139	4,8	Dekalb DK569	11,16
Agripro AP186	4,8	Dekalb DK580	13,16
Agripro AP230	5,8	Dekalb DK442	4,6,8,12
Agripro EX6395	9	Dekalb DK527	7,9,10,13
Agripro AP400	9	Dekalb DK560	7,11,13,16
Agripro AP507	16	Dekalb DK566	16
Agripro AP560	16	Domestic DX306	4
Asgrow RX444	8,10	Domestic DX522	8,10
Asgrow RX450	8,10	Domestic DX602	9,10,16
Asgrow RX484	8,10	Domestic DX204	4
Asgrow RX490	9,10	Domestic DX404	4,8
Asgrow RX623T	9,10,16	Domestic DX720	11,16
Asgrow RX510	9,10,16	Dyna-Gro 5100	5,6,8,12
Cargill 3677	5,6,8,10	Dyna-Gro 5095	4,6,8
Cargill 3797	5,6,8,10	Dyna-Gro UAPX15091	4,6,8
Cargill 4127	5,7,9,10	Epley EX1100	4
Cargill 4177	5,7,9,10	Epley EX2417	9,16
Cargill 6997	13,15,17	Epley EX3600	16
Cargill 4277	7,9,10,13,15,16	Epley EX1204	9
Cargill 2497	4	Epley EX3480	16
Cargill 5677	13,15,16	Epley EX1450	9
Cargill 6303	13,15,16	Epley EX1400	8
Cargill 7777	13,15,17	Epley EX1500	9,16
Cargill 5547	11,16	Epley EX3608	9
Cenex-LOL 282	4	Fontanelle 4193	16
Cenex-LOL 288	4	Fontanelle 4824	16
Cenex-LOL 345	4,6,8,14	Fontanelle 4865	16
Cenex-LOL 357	4,12	Golden Harv. H-2294	4,6,8,12
Cenex-LOL 393	5,8	Golden Harv. H-2308	4,6,8,12,14
Cenex-LOL 434	13	Golden Harv. H-2377	5,7,9,10,13
Cenex-LOL 534	7,9,10,13,15,16	Golden Harv. H-2502	11,13,16
Cenex-LOL 550PT	13,16	Golden Harv. H-2547	17
Cenex-LOL 581	13	Golden Harv. H-2404	15
Cenex-LOL 600	13,16	Golden Harv. H-2493	13
Cenex-LOL 661	11,17	Golden Harv. H-2382	5,6,8
Cenex-LOL 674	17	Golden Harv. H-2408	5,7,9,10,13,15,16
Cenex-LOL 375	5,6,8,12,14	ICI 8814	4
Cenex-LOL 424	5,8,12,14	ICI 8541	11,13,16
Cenex-LOL 351	4,6,8	ICI 8690IT	7,10
Cenex-LOL 599	11,13,16	ICI 8481IT	17
Cenex-LOL 618	16	ICI N2660	13
Cenex-LOL 492	7,9,10,13,15,16	ICI N2901	12
Ciba 1121X	4,8	ICI 8704	9
Ciba 4285	6,10,12	ICI 8746	5,6,8,14
Ciba 4375	10,13	Kaltenberg K4609	5
Ciba 4475	16	Kaltenberg K4909	6
Ciba 4365	16	Kaltenberg K5109	6
Ciba 4120	4,8	Kaltenberg K5809	7
Ciba 4273	6,8,10,12	Kaltenberg K6409	16
Ciba 4303	6	Kaltenberg K6809	16
Ciba 4394	10,16	Kaltenberg K7001	17
Ciba 4494	16	Kaltenberg K7309	17
Ciba 4144	4,8	Kaltenberg K5901	7
Ciba 4214	6,12	Kaltenberg K4400	4
Dairyland ST-1289	4	Kaltenberg K4800	4
Dairyland ST-1193	4	Kaltenberg K4805	6
Dairyland ST-1495	4,6,8	Kaltenberg K3809	4
Dairyland ST-1198	6,8	Kaltenberg K4709	4
Dairyland ST-1202	6,8	Kaystar KX-420	4
Dairyland ST-1200	5,6,8	Kaystar KX-600	5,6,8,10,12,14
Dairyland ST-1400	5	Kaystar KX-777	11,13,17
Dairyland ST-1108	7,9,11	Kaystar KX-667	7,10
Dairyland ST-1407	7,11	Kaystar KX-711	7,9,11,13
Dekalb DK385	4,8	Kaystar KX-909	13
Dekalb DK412	4,8	Kruger K9608A	9,16
Dekalb DK401	4	Kruger K9609A	9,16
Dekalb DK381	4	Kruger K9609	9,16
Dekalb DK512	7,10,15,16	Kruger K9610	16
Dekalb DK471	5,6,8,10,12,14	Kruger K9410	16
Dekalb DK493	5,6,8,10,12		

## Entries in the 1995 corn hybrid performance trials, continued.

BRAND & HYBRID	TABLE NO.	BRAND & HYBRID	TABLE NO.
Kruger K9612	16	Payco 531	5,6,8,10,12,14
Kruger K9613A	16	Payco 413	4,6
Kruger K9514A	17	Payco 633	7,9,13,15
Kruger K9614W	17	Payco 814	17
Kruger K9614	17	Payco 614	5,6,8,10,12,14
Kruger K9614A	17	Payco 734	9,11,13,15,16
Kruger K9615	17	Payco 754	16
Kruger K9594	4	Payco 834	17
Kruger K9797	4,6	Pioneer 3730	5,6,8,12,14
Kruger K9407	9	Pioneer 3375	11,13,17
Kruger K9600	4,6,8	Pioneer 3733	5,6,8,12,14
Kruger K9700	4,6,8	Pioneer 3563	7,9,10,13,15
Kruger K9606A	7,9,10	Pioneer 3394	11,13,16
Kruger K9506	7,9,10,16	Pioneer 3905	4
Kruger K9606	9	Pioneer 3893	4
Kruger K9501	5,6,8,10	Pioneer 3556	7,9,10,15,16
Kruger K9507PT	9,10,16	Pioneer 3531	7,9,10,13,16
Kruger K9608	9,10,16	Pioneer 3489	11,13,15,16
Kruger K9509	9,16	Renze 6221	10,16
Kruger K9513	16	Renze 6246	10,16
Kruger K9315B/PT	17	Renze 6345	17
Legend LS7598	6,8	Renze 6395	17
Legend LS8406	9	Renze 6323	16
Legend LS8409	13,16	Renze 6326	16
Mallard UC-595A	8	Renze 6386	17
Mallard UC-6151	9	Sands SOI 9956	4,6,8
Mallard UC-2680	10	Sands SOI 9045	5,7,9,10,16
Mallard UC-2685	11	Sands SOI 9074	9,11,16
M-W Genet. G6964	4,8	Sands SOI 9115	17
M-W Genet. G7121	5	Sands SOI 9150	17
M-W Genet. G7370	9,10	Sands SOI 9061	11,16
M-W Genet. G7350	9,10	Sands SOI 9991	8
M-W Genet. G7480	11,16	Sands SOI 9053	10
M-W Genet. G7594	11	Sexauer SX265	4
M-W Genet. G7488	16	Sexauer SX320	4
M-W Genet. G7610	16	Sexauer SX440	4,8
M-W Genet. X51120	17	Sexauer SX620	9,10
Mycogen 2880	4	Sexauer SX675	13,16
Mycogen 3560	5,6,8	Sexauer SX780	15,17
Mycogen 4970	5,6,8,10,12	Sexauer SX730	11,13,15,16
Mycogen 5150CB	10	Stine 9401	8
Mycogen 7250CB	17	Stine 1033	9
Mycogen 2990	4	Stine 9501	10,16
Mycogen 5480	7,9,11	Stine 9601	11,13,16
Mycogen AG3965	5,6,8,12	Stine 9702	17
Mycogen 4760	7,9,10,13	Stine 9503	10
Mycogen 6060	11,13,16	Stine 94-310EX	16
Mycogen 7050CB	17	Stine 94-486EX	13
Mycogen 3440	4,8	Stine 993	8
Mycogen 6220	11,13,16	Terra TR 990	8
NC+ 1005	4	Terra TR 1087	9,16
NC+ 1585	4	Terra TR 1094	9,16
NC+ 2844	9	Terra TR 1014	8
NC+ 3711	9	Terra TR 1091	9,16
NC+ 4044	16	Terra TR 1126	17
NC+ 4919	16	Terra TR 1130	17
Northrup King N3013	4,8	Top Farm SX2199	5,6,8,12
Northrup King N4640	7,9,10,13,16	Top Farm SX2101	5,6,8,10,12
Northrup King N5866	11,13,16	Top Farm SX2110	11
Northrup King N6223	13,16	Top Farm SX2115	17
Northrup King N7070	17	Top Farm SX2194	4,6,8
Northrup King N4242	5,6,8,10	Top Farm SX2103	5,7,9,10,13
Northrup King N2555	4	Top Farm SX2104	7,10,13,16
Northrup King N3030	4,8	Wilson E4103	12
Payco 344	4	Wilson E4083	13,16
Payco 402	4	Wilson E4150	13,16
Payco 505	4,6,8	Wilson E4079	16
Payco 605	5,6,8,10,12,14	Wilson 1371	13,16
Payco 635	5,6,8,10,12,14	Wilson 1581	16

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