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1992 South Dakota Corn Performance Trials

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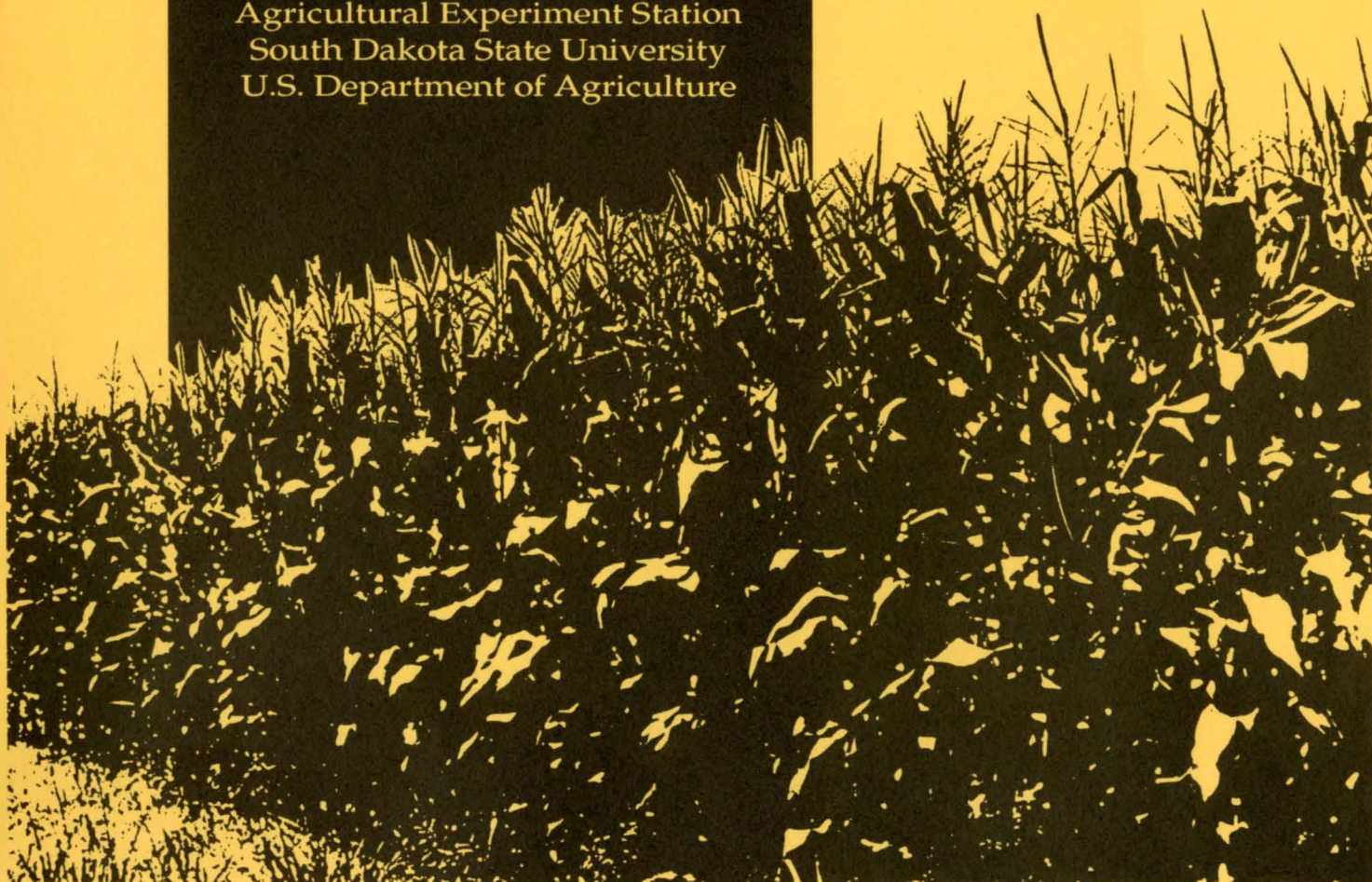
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South Dakota

CORN

**PERFORMANCE
TRIALS**

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



1 9 9 2
South Dakota

CORN

PERFORMANCE TRIALS

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The relative performance of corn hybrids grown under similar environmental conditions in 1992 is evaluated in this report.

Information in the tables includes both 1992 and 1991-92 grain yields in bushels per acre (bu/a); and 1992 test weight, moisture percentages of shelled corn at harvest, final plant populations per acre, and stalk lodging percentages.

The test trials reported in this publication were conducted by the Plant Science Department Crop Performance Testing Program, Agricultural Experiment Station, South Dakota State University.

Location, Weather, and Climatic Conditions

Test trials locations and their nearest post office designations are in Table 1.

Climatic data (Table 2) for the 1992 corn growing season, April-September, are based upon U.S. Monthly Climatological Data (NOAA) recorded at a weather sta-

tion reasonably near each trial site. The Milbank recording station is closest to the field north of Gary in Deuel County. The Watertown and Pierre airport data are used for the NE Farm and Dakota Lakes Research Farm trials, respectively. Stations are located at or near the other trial sites. Precipitation quantities would vary from the actual site to the recording station, but temperatures are similar over a much wider area and considered applicable to the trial area.

Field conditions varied in eastern South Dakota during most of the growing period. Spring was early and fairly dry, so seeding was completed by May 8. On Memorial Day weekend a severe freeze hit most of eastern South Dakota. The early trial at Pierre was reseeded on June 10.

April temperatures (Table 2) were 2 to 5° F below normal but were slightly above normal by the end of May. Temperatures dropped below normal about 3° in June, 9° in July, and 6° in August. Precipitation was fairly uniform for June, July, and August at most locations except Milbank. Precipitation began falling in mid-June and was fairly uniform except at Milbank.

Cool temperatures in June, July, and

August slowed growth which later gave pollination problems. The delayed growth caused silking and tasseling stages to be out of synch; some silks emerged after pollen shed was complete, resulting in some unfertilized silks and reduced yields.

In some cases, cool weather slowed silk growth. Short silks did not emerge before ear sheaths enclosed the ear; consequently, silks were trapped or formed silk balls under the ear sheath, resulting in unfertilized silks and reduced yields.

Hybrid Entry Procedure

Participating companies designated the locations where their entries were to be grown. Beginning in 1986, the entries were placed into early or late trials based upon maturity information supplied by the company. The arbitrary breaks at each site were 95 days for Watertown, Gary, and Brookings; 100 days for Frankfort and Pierre; and 110 days for Beresford and Armour. A fee was charged for every entry at each location. A listing of the participating firms and their hybrids is on the last pages of this circular.

Experimental Procedure

Entries 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, in seeds per acre:

Watertown	21,440
Gary	21,440
Frankfort	19,000
Brookings	21,440
Beresford	23,450
Armour	19,000
Pierre, irrigated	33,500

Soil types, starter fertilizer applications, and land preparation at each test trial site are outlined in Table 3. No insecticides were used for corn root-worm control this year. A recommended short-residue preemergence herbicide was banded over the row at seeding at most sites.

A 31-cell cone drill seeder was used for all plots. Cone units were mounted

The assistance of the following individuals is appreciated: Dwayne Beck, Loyal Evjen, Delbert Robbins, and Dale Sorensen of the Stations; technician Kevin Kirby and Darin Huber; Robert Clark, Eldon Schmidt, and Steve Masat, farmer-cooperators.

above commercial maxi-merge units. Seeding rate was 15% more than the desired number of plants harvested per plot. Seedbed preparation was good at all locations.

Final stands in most of the trials were near desired levels, except for six hybrids in the early trial at Watertown, five hybrids in the late trial at Frankfort, and seven hybrids in the early trial at Armour. These hybrids can be identified by comparing their final populations per acre to the minimum best value population at the bottom of the performance tables at these locations.

Measurements of Performance

Yield. Yields in all corn test trials are averaged from three replications and expressed as bushels per acre at 15.5% moisture and a bushel weight of 56 lb. Varieties of equal potential may yield differently because of variations in slope, soil fertility, and stand. Statistical tests were conducted to determine whether differences were caused by variations in environment or were true varietal differences.

The coefficient of variation (CV) for yield was greater than desired for the replanted early test trial at Pierre. Ideally, the CV value, which is a measure of experimental error, should not exceed 16%. **If the CV value exceeds 16%, the data should not be used to make hybrid comparisons because of the high degree of experimental error measured in the test trial.**

Experimental error may be the result of several factors, including test methods, or environmental factors such as moisture, temperature, 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.

To convert data in these tables to the metric system use the following methods. (The factor 1.121 converts from lb/a to kg/ha.)

I. 1 lb = 0.454 kilograms; 1 hectare = 2.471 a, so

$56 \times 0.454 \times 2.471 = 62.8 \times \text{bu/a} = \text{kilograms per hectare.}$

II. Or, assuming a yield of 62.8 bu/a from the tables;

Step 1 = $62.8 \text{ bu/a} \times 56 \text{ lb/bu} = 3516.8 \text{ lb/a}$
Step 2 = $3516.8 \text{ lb/a} \times 1.121 = 3942.3 \text{ kilograms/hectare or } 39.4 \text{ quintals/hectare.}$

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 of prime importance 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.

Stalk lodging. The stalk lodging percentage for each entry is expressed as the number of stalks lodged below the ear divided by the number of plants in each plot at harvest. The lodging percentages in both trials at Pierre were high for 1992. This was caused by extremely high winds on December 3 which broke many stalks below the ear.

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 like yield must differ between two hybrids for there to be 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 differences among the averages within a given column a "nonsignificant" (NS) difference designation is indicated.

The LSD value for a variable can be used in two ways. First, you can compare whether two hybrids really differ in yield. In this case the yield difference between two hybrids in the early trial at Watertown must be more than 11.3 bu/a; if not, there is no real yield difference between the two hybrids.

Second, you can use the same LSD value to identify which hybrids are the best yielders at a given location.

For example, in the early maturity test trial at Watertown the highest yield was 73.7 bu/a for Cargill 3427. To find whether Cargill 3427 is the only top

yielder at Watertown, use the LSD value of 11.3 bu/a at the bottom of the 1992 yield column. If hybrids are in the best yield group they will yield within 11.3 bu/a of Cargill 3427 (73.7 - 11.3), or yield 62.4 bu/a or more. Therefore, any hybrid yielding 62.4 bu/a or higher is in the top yielding group, or we can say 62.4 bu/a is the minimum best value for top yielding hybrids at Watertown in 1992. In this case the hybrids Cargill 3427 down through and including Pioneer 3921 are in the best yield group because they all yielded higher than 62.4 bu/a.

Likewise, the best minimum value for bushel weight is 43.5 lb and for final population per acre is 20,725. Only those hybrids with a final acre population of 20,725 plants should be compared with one another because there is no significant difference in population. If a hybrid's final acre population is less than 20,725, its yields should not be compared with other hybrids unless the difference between their final acre populations is equal to or less than 1,050 plants (the final acre population LSD value).

In the case of harvest moisture content and stalk lodging percentages, look for the maximum best value at the bottom of those table columns. For moisture content and stalk lodging percentages the appropriate LSD values are added to the lowest numerical value within a column to obtain the maximum best values. At Watertown the best harvest moisture percentages within the harvest moisture column are 20.4% or less. Since there were no significant difference among the hybrids for stalk lodging percentage no maximum best value was calculated.

In summary, in the early maturity test trial at Watertown, the best hybrids will have a yield higher than 62.4 bu/a, a bushel test weight of 43.5 lb or higher, a harvest moisture of 20.4% or less, and a final acre population of 20,725 plants or higher.

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

LOCATION	COUNTY	POST OFFICE	DATE SEEDED	DATE HARVESTED
N.E. RES. FARM, 15N	CODINGTON	WATERTOWN	MAY 5	DEC. 8
ELDON SCHMIDT FARM	DEUEL	GARY	MAY 8	OCT. 28
STEVE MASAT FARM, 6S, 2W	SPINK	FRANKFORT	APRIL 30	NOV. 11
SDSU AGRONOMY FARM, 2NE	BROOKINGS	BROOKINGS	APRIL 29	NOV. 18
S.E. RES. FARM, 7W, 3S	UNION	BERESFORD	MAY 1	NOV. 16
ROBERT CLARK FARM, 4W, 1S	DOUGLAS	ARMOUR	MAY 1	NOV. 11
DAK. LAKES RES. FARM, 17E, LATE	HUGHES	PIERRE	APRIL 30	DEC. 7
DAK. LAKES RES. FARM, 17E, EARLY	HUGHES	PIERRE	JUNE 10*	DEC. 7

*REPLANTED FOLLOWING LATE MAY FREEZE.

Table 2. Temperature and precipitation data for the 1992 South Dakota corn performance trials.

LOCATION	TYPE OF DATA	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	TOTAL
WATERTOWN (N.E. FARM) AIRPORT	PRECIPITATION*	1.28	0.41	6.67	3.21	2.16	2.89	16.62
	AVER. TEMP.**	40.4	58.0	62.7	62.3	63.0	58.4	
	TEMP. DIFF.	-4.4	+0.9	-4.1	-10.2	-7.3	-1.2	
	FIRST FREEZE -	SEPT. 22, 30 DEGREES, F.						
MILBANK (GARY) 2 SSW	PRECIPITATION	2.53	1.13	6.74	5.74	0.96	1.48	18.58
	AVER. TEMP.	40.4	59.9	64.3	64.2	64.7	58.8	
	TEMP. DIFF.	-3.2	+3.0	-2.5	-8.0	-5.1	-0.4	
	FIRST FREEZE -	SEPT. 28, 28 DEGREES, F.						
REDFIELD (SPINK CO.) 2 NE	PRECIPITATION	0.58	0.88	7.28	2.93	3.30	1.18	16.15
	AVER. TEMP.	42.4	58.9	63.6	63.9	64.5	58.1	
	TEMP. DIFF.	-2.6	+1.9	-3.3	-9.4	-6.2	-1.8	
	FIRST FREEZE -	SEPT. 28, 23 DEGREES, F.						
BROOKINGS 2 NE	PRECIPITATION	1.79	1.19	7.98	3.69	4.67	1.87	21.19
	AVER. TEMP.	38.7	58.3	62.8	62.0	62.8	56.9	
	TEMP. DIFF.	-5.3	+2.4	-2.8	-8.7	-5.2	-1.3	
	FIRST FREEZE -	SEPT. 28, 32 DEGREES, F.						
CENTERVILLE (S.E. FARM) 6 SE	PRECIPITATION	1.92	2.32	1.89	6.74	4.69	4.17	21.73
	AVER. TEMP.	42.2	60.0	66.4	65.7	65.2	59.4	
	TEMP. DIFF.	-5.3	+1.3	-2.7	-8.2	-6.2	-1.9	
	FIRST FREEZE -	SEPT. 28, 30 DEGREES, F.						
ARMOUR (DOUGLAS CO.)	PRECIPITATION	2.76	0.53	1.97	6.12	4.67	2.78	19.83
	AVER. TEMP.	47.0	62.1	67.1	67.4	67.9	62.7	
	TEMP. DIFF.	-2.0	+1.8	-2.9	-8.8	-5.6	-0.5	
	FIRST FREEZE -	SEPT. 28, 29 DEGREES, F.						
PIERRE (DLR FARM) AIRPORT	PRECIPITATION	0.47	0.54	4.74	4.52	1.70	0.93	12.90
	AVER. TEMP.	45.7	60.4	65.2	66.5	67.3	62.6	
	TEMP. DIFF.	-1.4	+2.1	-3.5	-9.5	-6.6	-0.2	
	FIRST FREEZE -	SEPT. 28, 26 DEGREES, F.						

*PRECIPITATION = INCHES, TEMPERATURE = DEGREES FAHRENHEIT.

Table 3. Soil classification, fertilizer applied and land preparation.

LOCATION	SOIL TYPE	STARTER, 2 X 2 FERTILIZER APPLIED (ACTUAL PER ACRE)	LAND PREPARATION
BROOKINGS	BRANDT SIL*	37 - 18 - 00	CONVENTIONAL
WATERTOWN	KRANZBURG SIL	37 - 18 - 00	CONVENTIONAL
FRANKFORT	BEOTIA SICL	37 - 18 - 00	NO-TILL, WHEAT STUBBLE
CENTERVILLE	EGAN SIL	37 - 18 - 00	CONVENTIONAL
ARMOUR	EAKIN SIL	37 - 18 - 00	NO-TILL, WHEAT STUBBLE
PIERRE	LOWRY SIL	37 - 18 - 00	NO-TILL, SOYBEAN STUBBLE
GARY	FORMAN SICL	37 - 18 - 00	CONVENTIONAL

SIL= SILT LOAM, SICL=SILTY CLAY LOAM.

Table 4. 1992 corn hybrid performance trial results--Watertown, SD, N.E. Research Farm, early maturity--95 days or less.

---- BRAND & HYBRID ----	YIELDS AT 15.5% MOIST.		1992 HARVEST MOIST. (%)	BUSHEL TEST WT. (LB)	FINAL POP. (AC)	STALKS LODGED (%)	TYPE CROSS
	1992 (BU/AC)	2-YR					
CARGILL 3427	73.7	108.4	24.7	35.8	21440	0	1X
DEKALB DK462	71.7	110.2	24.5	36.7	20882	0	1X
DEKALB DK401	71.2	101.4	19.2	42.9	21328	0	1X
ISC-PAYCO 531	70.6	.	25.1	36.9	20770	0	2X
PIONEER 3861	68.9	.	21.1	41.6	20770	0	1X
DAHLGREN D5962	66.8	.	25.0	35.1	21217	1	2X
SEXAUER SX450	66.4	.	24.5	38.1	20770	0	2X
ICI 8777	66.2	98.7	25.9	35.0	20993	0	2X
AGRIGENE AG3500	65.8	.	25.3	34.9	20993	0	2X
TOP FARM SX1194A	65.0	.	21.1	42.2	21440	0	2X
PIONEER 3921	62.6	92.0	19.5	46.9	20658	0	1X
DAIRYLAND ST1189	61.8	.	22.6	42.0	21217	0	2X
DEKALB DK381	61.0	.	18.8	41.3	21217	0	1X
NC+ 1991	60.1	.	25.2	35.2	21105	0	2X
JOHNSON SX417	59.5	.	25.1	37.7	20212	0	2X
ASGROW RX337	59.3	92.4	22.2	43.2	20993	1	2X
CARGILL 3637	59.2	103.7	24.9	36.6	21775	0	1X
N. KING N3808	58.6	.	24.5	37.1	20882	0	2X
AGRIGENE AG3920	57.3	.	22.8	40.3	19207	0	2X
NC+ 2190	57.3	.	25.9	36.2	20212	0	2X
PIONEER 3787	57.0	91.8	23.0	42.9	21217	0	1X
CIBA 4070	56.6	92.2	19.7	39.6	20993	0	2X
CIBA 4172	56.3	.	22.0	39.3	20993	0	2X
AGRIPRO AP 194	56.0	.	25.3	33.0	20658	0	2X
JOHNSON SX3952	55.1	.	20.3	40.6	20993	0	2X
ISC-PAYCO 402	55.0	.	23.6	36.9	21328	0	2X
CARGILL 2927	54.9	98.1	25.1	35.4	21663	0	1X
AGRIPRO AP 162	54.9	.	20.3	41.9	19988	0	2X
ASGROW RX406	54.4	95.7	22.9	40.1	20547	0	2X
ICI 8883	50.9	.	23.3	40.7	21105	0	2X
SEXAUER SX350	49.3	.	21.6	42.8	21775	0	2X
CIBA 4120	48.4	89.4	23.3	38.7	20770	0	2X
TOP FARM SX1195A	46.2	89.7	23.0	37.9	20993	1	2X
KAYSTAR KX-555	45.8	.	24.4	38.4	21105	1	2X
ISC-PAYCO 448	45.3	.	21.9	45.3	21328	0	2X
AGRIGENE AG3860	44.9	.	22.5	41.7	21217	0	M2X
CIBA 4202	40.4	.	22.6	38.9	20882	0	2X
TEST AVERAGE:	58.2	97.2	23.0	39.2	20963	0	
TEST LSD (5%) VALUE*:	11.3	NS**	1.6	3.4	1050	NS**	
MINIMUM BEST VALUE*:	62.4			43.5	20725		
MAXIMUM BEST VALUE*:			20.4				
TEST C.V.#:	11.9	7.6					

*SEE EXPLANATION ON USE OF TABLE ON PAGE 3.

**NS - INDICATES HYBRID DIFFERENCES WITHIN A COLUMN ARE NOT SIGNIFICANT.

#COEF. OF VARIATION - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16.0% DATA SHOULD NOT BE USED TO MAKE HYBRID COMPARISONS.

Table 5. 1992 corn hybrid performance trial results--Watertown, SD, N.E. Research Farm, late maturity--96 days or more.

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST.		1992 HARVEST MOIST. (%)	BUSHEL TEST WT. (LB)	FINAL POP. (AC)	STALKS LODGED (%)	TYPE CROSS
	1992 (BU/AC)	2-YR					
STINE 992	77.6	.	28.1	40.6	21328	0	2X
N. KING N4242	77.5	.	27.2	43.1	21663	0	2X
DEKALB DK485	74.7	107.1	29.5	39.4	20882	0	1X
ISC-PAYCO 687	70.0	.	27.2	41.2	21328	0	2X
KAYSTAR KX-610	69.6	.	27.6	41.6	20993	0	2X
JACQUES 5270	69.4	.	27.0	44.6	21217	1	1X
JOHNSON SX417A	69.2	.	27.8	41.2	21552	0	2X
TOP FARM SX1097A	65.1	.	28.1	41.2	21217	0	2X
G. HARVEST H-2404	64.6	.	27.8	45.4	21105	0	1X
SIGCO 1200	64.2	.	26.5	45.1	21552	0	2X
DAHLGREN D5002	63.5	.	28.0	41.3	21328	0	2X
ASGROW RX497	62.6	.	27.7	37.9	20770	0	2X
CARGILL 4327	62.2	110.9	29.3	39.6	20658	0	1X
ISC-PAYCO 531	61.9	.	28.6	40.6	20882	0	2X
SIGCO 1301	60.2	.	28.6	43.7	20993	0	2X
G. HARVEST H-2390	59.8	102.9	27.4	43.9	20658	0	1X
STINE 1033	59.1	.	26.4	42.9	20882	0	2X
CARGILL 5327	58.0	104.7	29.0	41.0	21440	0	1X
G. HARVEST H-2322	54.7	.	28.4	39.3	21552	0	1X
ASGROW RX510	53.7	.	29.2	39.2	20100	0	2X
JACQUES 5600	53.5	.	28.2	40.5	21105	0	1X
SIGCO 1799	50.0	97.1	24.9	44.3	21440	0	3X
PIONEER 3563	49.8	97.7	25.2	43.6	21887	0	1X
DEKALB DK535	49.6	.	29.7	38.7	20658	0	1X
DAIRYLAND ST1198	49.2	.	29.2	39.8	21217	0	2X
PIONEER 3699	47.2	.	29.1	41.0	21663	0	1X
TOP FARM SX1101A	42.5	88.1	29.2	40.5	20993	0	2X
ICI 8740	40.0	.	28.3	38.0	21440	0	2X
CIBA 4282	29.2	76.9	27.9	38.3	21440	0	2X
TOP FARM SX1199	18.8	.	26.0	39.3	21663	0	2X
TEST AVERAGE:	57.6	98.2	27.9	41.2	21187	0	
TEST LSD (5%) VALUE*:	8.9	17.8	NS**	2.5	NS**	NS**	
MINIMUM BEST VALUE*:	68.7	93.1		42.9			
MAXIMUM BEST VALUE*:							
TEST C.V.#:	9.5	6.8					

*SEE EXPLANATION ON USE OF TABLE ON PAGE 3.

**NS - INDICATES HYBRID DIFFERENCES WITHIN A COLUMN ARE NOT SIGNIFICANT.

#COEF. OF VARIATION - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16.0% DATA SHOULD NOT BE USED TO MAKE HYBRID COMPARISONS.

Table 6. 1992 corn hybrid performance trial results--Gary, SD, Eldon Schmidt farm, early maturity--95 days or less.

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST.		1992 HARVEST MOIST. (%)	BUSHEL TEST WT. (LB)	FINAL POP. POP. (AC)	STALKS LODGED (%)	TYPE CROSS
	1992 (BU/AC)	2-YR					
CARGILL 3477	131.0	.	18.0	56.3	21663	0	1X
DEKALB DK462	125.4	.	17.0	55.1	21552	2	1X
ICI 8777	123.5	102.4	16.8	54.2	21552	1	2X
AGRIGENE AG5480	119.7	.	19.4	57.3	21328	1	2X
DEKALB DK381	118.3	.	14.8	56.3	21440	1	1X
PIONEER 3787	116.1	.	17.1	59.3	21552	1	1X
G. HARVEST H-2295	115.8	110.3	16.6	57.6	21440	0	1X
JACQUES 5270	114.0	.	17.9	57.6	21328	3	1X
ISC-PAYCO 687	114.0	.	18.1	57.2	21440	3	2X
SEXAUER SX540	112.8	.	17.1	55.7	21440	2	2X
PIONEER 3861	112.7	.	15.7	58.4	21440	1	1X
TOP FARM SX1102	112.5	.	17.5	59.2	21440	4	2X
N. KING N3808	111.7	.	15.8	56.9	21440	1	2X
TOP FARM SX1195A	111.6	105.7	16.6	56.8	21552	4	2X
JACQUES 4440	111.4	.	16.6	56.4	21440	1	1X
SEXAUER SX450	110.2	.	17.1	54.4	21217	1	2X
G. VALLEY GVS298	109.7	.	17.7	59.5	21440	3	2X
DEKALB DK421	109.4	.	16.2	57.7	21328	0	1X
JACQUES 5170	109.3	108.1	16.9	58.9	21328	1	1X
CARGILL 3627	108.8	102.0	18.5	58.4	21440	1	1X
ISC-PAYCO 448	108.4	.	15.8	59.8	20658	4	2X
AGRIGENE AG3920	107.2	.	17.0	57.9	21105	1	2X
ISC-PAYCO 402	106.4	.	15.0	56.8	21440	1	2X
CIBA 4172	104.3	.	14.9	54.9	21440	2	2X
KAYSTAR KX-555	103.8	.	18.4	57.9	20882	4	2X
G. VALLEY GVS282	97.0	105.4	14.9	61.4	21328	4	2X
HORIZON 4545	93.8	.	15.3	60.1	21440	1	1X
HORIZON 8095	87.2	.	15.9	59.0	20770	3	1X
TEST AVERAGE:	110.9	105.6	16.7	57.5	21352	2	
TEST LSD (5%) VALUE*:	13.0	NS**	0.8	2.5	NS**	2.5	
MINIMUM BEST VALUE*:	118.0			58.9			
MAXIMUM BEST VALUE*:			15.6			2.5	
TEST C.V.#:	7.2	8.3					

*SEE EXPLANATION ON USE OF TABLE ON PAGE 3.

**NS - INDICATES HYBRID DIFFERENCES WITHIN A COLUMN ARE NOT SIGNIFICANT.

#COEF. OF VARIATION - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16.0% DATA SHOULD NOT BE USED TO MAKE HYBRID COMPARISONS.

Table 7. 1992 corn hybrid performance trial results--Gary, SD, Eldon Schmidt farm, late maturity--96 days or more.

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST.		1992 HARVEST MOIST. (%)	BUSHEL TEST WT. (LB)	FINAL POP. (AC)	STALKS LODGED (%)	TYPE CROSS
	1992	2-YR					
	(BU/AC)	(BU/AC)					
N. KING N4242	129.7	*	17.1	60.8	21440	0	2X
DEKALB DK485	127.6	*	18.4	57.9	21552	0	1X
PIONEER 3733	127.5	112.8	19.1	62.9	21440	0	1X
DEKALB DK512	126.6	*	18.6	57.4	21663	3	1X
CARGILL 4327	122.7	120.5	20.7	58.0	21663	1	1X
KAYSTAR KX-610	121.4	*	17.3	59.8	20882	1	2X
SIGCO 1301	121.2	*	18.4	60.9	21440	0	2X
ICI N9702	119.3	*	19.3	61.1	21440	1	2X
ISC-PAYCO 531	118.8	*	16.9	58.5	21440	1	2X
PIONEER 3563	118.0	114.1	18.3	61.6	21552	0	1X
PIONEER 3699	117.3	*	18.3	61.9	21440	0	1X
ISC-PAYCO 648	116.7	*	19.5	61.2	21440	2	2X
SIGCO 1200	116.6	*	18.1	61.1	21440	1	2X
ASGROW RX497	115.9	*	18.2	57.4	21440	1	2X
CARGILL 5327	115.5	109.1	21.9	58.2	21552	1	1X
SIGCO 1799	115.5	*	17.6	61.8	21440	3	3X
ASGROW RX510	115.1	*	20.1	57.3	20993	0	2X
TOP FARM SX1097A	113.5	*	16.3	60.4	21663	1	2X
G. HARVEST H-2390	113.3	118.4	19.8	58.1	20882	1	1X
TOP FARM SX1101A	107.0	*	18.1	61.1	20993	1	2X
G. HARVEST H-2322	103.3	*	17.6	57.8	21217	4	1X
TOP FARM SX1199	92.1	*	19.6	60.1	21440	0	2X
TEST AVERAGE:	117.0	115.0	18.6	59.8	21384	1	
TEST LSD (5%) VALUE*:	14.8	NS**	1.0	2.1	NS**	2.3	
MINIMUM BEST VALUE*:	114.9			60.8			
MAXIMUM BEST VALUE*:			17.3			2.3	
TEST C.V.#:	7.7	7.9					

*SEE EXPLANATION ON USE OF TABLE ON PAGE 3.

**NS - INDICATES HYBRID DIFFERENCES WITHIN A COLUMN ARE NOT SIGNIFICANT.

#COEF. OF VARIATION - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16.0% DATA SHOULD NOT BE USED TO MAKE HYBRID COMPARISONS.

Table 8. 1992 corn hybrid performance trial results (no-till)--Frankfort, SD, Steve Masat farm, early maturity--100 days or less.

---- BRAND & HYBRID ----	YIELDS AT 15.5% MOIST.		1992 HARVEST MOIST. (%)	BUSHEL TEST WT. (LB)	FINAL POP. POP. (AC)	STALKS LODGED (%)	TYPE CROSS
	1992 (BU/AC)	2-YR					
DEKALB DK462	104.2	113.7	22.6	48.2	18760	0	1X
DEKALB DK485	99.7	115.6	27.0	43.5	18313	0	1X
ISC-PAYCO 531	96.5	.	23.6	48.0	18313	0	2X
SIGCO 1301	96.3	.	23.9	47.7	18983	0	2X
CARGILL 3477	94.8	.	22.9	46.8	19207	0	1X
N. KING N4242	93.5	.	21.1	48.6	18648	0	2X
SIGCO 1200	93.1	.	23.5	47.1	18537	0	2X
G. HARVEST H-2322	92.3	.	22.7	45.4	18872	0	1X
KAYSTAR KX-610	91.8	.	24.3	44.0	18760	0	2X
SIGCO 1799	91.5	110.4	22.4	49.4	18425	0	3X
CARGILL 3427	91.2	102.5	21.7	45.8	18313	0	1X
PIONEER 3733	89.5	103.8	23.4	48.6	19207	0	1X
DAIRYLAND ST1198	89.0	.	24.2	44.1	17978	0	2X
LEGEND 8301	88.9	.	23.0	46.5	18537	0	2X
TOP FARM SX1102	87.7	104.4	22.9	48.9	18537	0	2X
ASGROW RX510	86.7	.	28.0	42.5	18425	1	2X
STINE 1121X	85.6	.	23.2	46.4	18537	0	2X
ASGROW RX497	85.2	.	27.4	40.7	18872	0	2X
KAYSTAR KX-555	84.2	99.6	23.9	47.5	18313	0	2X
ISC-PAYCO 687	83.2	.	24.2	46.6	17978	0	2X
ISC-PAYCO 448	80.9	.	21.4	49.4	18760	0	2X
LEGEND 8203	79.4	.	25.6	45.3	18760	0	2X
CIBA 4282	79.4	97.1	24.7	44.5	18760	0	2X
PIONEER 3563	76.2	103.7	24.6	45.1	19207	0	1X
TOP FARM SX1101A	70.7	90.5	24.1	45.5	17867	0	2X
TEST AVERAGE:	88.5	104.1	23.9	46.2	18595	0	
TEST LSD (5%) VALUE*:	12.4	NS**	1.4	2.8	NS**	NS**	
MINIMUM BEST VALUE*:	91.8			46.6			
MAXIMUM BEST VALUE*:			22.5				
TEST C.V.#:	8.5	7.6					

*SEE EXPLANATION ON USE OF TABLE ON PAGE 3.

**NS - INDICATES HYBRID DIFFERENCES WITHIN A COLUMN ARE NOT SIGNIFICANT.

#COEF. OF VARIATION - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16.0% DATA SHOULD NOT BE USED TO MAKE HYBRID COMPARISONS.

Table 9. 1992 corn hybrid performance trial results (no-till)--Frankfort, SD, Steve Masat farm, late maturity--101 days or more.

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST.		1992 HARVEST MOIST. (%)	BUSHEL TEST WT. (LB)	FINAL POP. (AC)	STALKS LODGED (%)	TYPE CROSS
	1992 (BU/AC)	2-YR					
DEKALB DK512	98.1	.	26.6	46.0	19318	0	1X
CARGILL 4327	92.4	107.7	29.4	44.6	18760	0	1X
PIONEER 3578	90.8	108.6	27.3	46.5	18090	0	1X
TOP FARM SX1097A	89.9	.	25.4	47.4	18648	0	2X
ISC-PAYCO 711	86.9	.	28.0	46.4	18872	0	2X
G. HARVEST H-2404	86.6	103.2	25.7	49.2	18425	0	1X
MCCURDY 5222	85.2	.	27.2	46.2	18537	0	2X
CARGILL 5327	84.5	103.0	28.8	44.7	18537	0	1X
ISC-PAYCO 648	84.2	.	25.8	49.6	18872	0	2X
TOP FARM SX1104A	84.1	105.2	26.8	48.9	18202	0	2X
G. HARVEST H-2390	83.9	101.6	24.1	49.4	18202	0	1X
HORIZON 5151	83.8	.	27.7	46.3	18648	0	1X
ASGROW RX623	82.8	.	28.1	45.6	19430	0	2X
MCCURDY 6660	82.6	.	29.5	44.2	18983	0	2X
N. KING N6560	82.5	.	29.4	45.0	18983	0	2X
DEKALB DK554	82.1	99.8	29.5	41.9	17755	0	1X
HORIZON 6101	81.1	.	26.0	48.9	17532	0	1X
PIONEER 3525	77.4	.	27.5	45.5	18872	0	1X
CIBA 4372	77.4	.	29.5	44.4	18983	0	2X
LEGEND 8104	74.7	.	26.9	47.9	18090	0	2X
N. KING N4545	73.8	88.0	28.3	42.8	18648	0	2X
SIGCO 1306	70.0	.	29.7	45.2	18313	0	2X
KAYSTAR KX-685	67.3	.	28.4	44.5	18760	0	2X
LEGEND 8205	67.3	.	28.8	44.2	17978	0	2X
STINE 1033	66.9	.	24.8	46.2	16415	0	2X
PIONEER 3503	65.5	100.7	27.4	47.7	17532	0	1X
CIBA 4393	65.5	94.6	28.7	45.6	17643	0	2X
LEGEND 9310	63.6	.	31.5	40.9	18983	0	2X
ASGROW RX653	62.0	.	28.8	43.3	18537	0	2X
DAIRYLAND ST1203	59.9	.	27.5	43.8	15075	0	2X
TOP FARM SX1199	44.7	.	25.8	47.2	18313	0	2X
TEST AVERAGE:	77.3	101.2	27.7	45.8	18321	0	
TEST LSD (5%) VALUE*:	10.5	NS**	1.3	2.3	1634	NS**	
MINIMUM BEST VALUE*:	87.6			47.3	17796		
MAXIMUM BEST VALUE*:			25.4				
TEST C.V.#:	8.3	7.1					

*SEE EXPLANATION ON USE OF TABLE ON PAGE 3.

**NS - INDICATES HYBRID DIFFERENCES WITHIN A COLUMN ARE NOT SIGNIFICANT.

#COEF. OF VARIATION - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16.0% DATA SHOULD NOT BE USED TO MAKE HYBRID COMPARISONS.

Table 10. 1992 corn hybrid performance trial results--Brookings, SD, SDSU Agronomy Farm, early maturity--95 days or less.

---- BRAND & HYBRID ----	YIELDS AT 15.5% MOIST.		1992 HARVEST MOIST. (%)	BUSHEL TEST WT. (LB)	FINAL POP. (AC)	STALKS LODGED (%)	TYPE CROSS
	1992	2-YR (BU/AC)					
DEKALB DK462	108.0	131.1	23.2	46.2	21552	0	1X
DEKALB DK512	107.7		23.5	46.5	21552	0	1X
TERRA TR1010	104.3	120.1	24.2	51.4	21440	0	2X
CROW'S 414	97.9		24.5	48.9	21552	0	2X
KRUGER K9203	97.6		22.9	50.1	20770	0	1X
SIGCO 1200	97.5		23.0	51.5	21440	0	2X
ISC-PAYCO 531	97.1		23.5	49.6	21440	0	2X
AGRIGENE AG3920	96.9		21.7	51.5	21328	0	2X
PIONEER 3699	96.5		21.9	52.3	21663	0	1X
ISC-PAYCO 648	96.2		24.3	50.4	21440	0	2X
TERRA TR910	95.6		20.5	52.5	21552	0	2X
SEXAUER SX540	95.3		22.9	48.0	21217	0	2X
CARGILL 3427	94.5	114.4	24.0	47.2	21440	0	1X
KRUGER K9304	94.4		21.9	47.3	21552	0	1X
G. HARVEST H-2322	93.9		23.8	48.0	21552	0	1X
CARGILL 3637	92.8	119.4	23.6	49.4	21440	0	1X
AGRIGENE AG3980	92.6	122.3	24.4	50.5	21440	0	2X
CURRY 4411	92.4		22.4	48.5	20770	0	2X
SEXAUER SX620	92.0		21.7	49.8	21217	0	2X
SANDS SOI9991	91.9		23.5	46.4	21440	0	1X
YIELD KING K9303	91.5		25.0	44.6	21328	0	1X
DAIRYLAND ST1198	91.2	120.2	23.1	49.2	21663	0	2X
LEGEND 8301	90.3		21.8	48.8	21328	0	2X
PIONEER 3733	89.5	120.6	24.5	51.5	21440	0	1X
TOP FARM SX1102	89.5		23.3	50.5	21552	0	2X
NC+ 2844	89.4		25.6	47.8	21440	0	2X
DEKALB DK485	89.0	111.5	25.8	46.0	21328	0	1X
ISC-PAYCO 687	88.7		23.3	49.7	20882	0	2X
ICI 8777	88.5	112.2	23.3	48.8	21440	0	2X
NC+ 1991	87.6		23.5	48.5	21440	0	2X
KAYSTAR KX-610	86.4		22.0	49.2	21440	0	2X
CENEX/LOL 429	86.3		22.1	48.9	21440	0	1X
SIGCO 1799	86.2	112.0	22.2	50.9	21440	0	3X
AGRIPRO AP 250	86.1		23.7	46.2	21105	0	2X
AGRIGENE AG3860	86.0		21.6	52.7	21328	0	M2X
KRUGER K9204	85.7		24.5	51.6	21440	0	1X
JACQUES 4440	85.5		23.2	47.9	21440	0	1X
SIGCO 1301	85.0		24.2	49.4	21440	0	2X
TOP FARM SX1195A	84.8	110.9	21.5	53.6	21328	0	2X
NC+ 2190	84.0		23.8	47.7	21440	0	2X
HOEGEMEYER 2564	83.8	104.5	24.0	49.6	21440	0	1X
ASGROW RX497	81.7		24.7	45.1	21440	0	2X
ASGROW RX510	81.5		27.2	45.0	21328	0	2X
N. KING N3808	80.5		20.4	50.6	21552	0	2X
MCCURDY 4800	79.6		21.9	50.8	21217	0	2X
JOHNSON SX417	76.1		24.3	49.9	21328	0	2X
HOEGEMEYER 2583	76.1		27.5	44.8	21440	0	1X
ICI 8740	75.8		24.0	48.2	21328	0	2X
CIBA 4202	75.8		21.0	48.8	21217	0	2X
LEGEND 7392	74.2		19.8	51.3	21440	0	2X
CROW'S 237	74.1		27.6	43.4	21440	0	2X
JOHNSON SX3952	71.3		19.6	51.8	20993	0	2X
CIBA 4282	68.3	106.4	24.0	48.8	20993	0	2X
CENEX/LOL 438	59.0		26.4	48.4	21440	0	1X
TEST AVERAGE:	87.9	115.8	23.4	49.0	21372	0	
TEST LSD (5%) VALUE*:	13.8	NS**	1.1	2.1	NS**	0	
MINIMUM BEST VALUE*:	94.2			51.5			
MAXIMUM BEST VALUE*:			20.7			0	
TEST C.V.#:	9.7	9.0					

*SEE EXPLANATION ON USE OF TABLE ON PAGE 3.

**NS - INDICATES HYBRID DIFFERENCES WITHIN A COLUMN ARE NOT SIGNIFICANT.

#COEF. OF VARIATION - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16.0% DATA SHOULD NOT BE USED TO MAKE HYBRID COMPARISONS.

Table 11. 1992 corn hybrid performance trial results--Brookings, SD, SDSU Agronomy Farm, late maturity--96 days or more.

---- BRAND & HYBRID ----	YIELDS AT 15.5% MOIST.		1992 HARVEST MOIST. (%)	BUSHEL TEST WT. (LB)	FINAL POP. (AC)	STALKS LODGED (%)	TYPE CROSS
	1992 (BU/AC)	2-YR					
CARGILL 4327	110.5	130.5	27.2	48.2	21440	0	1X
ASGROW RX623	106.2	.	28.9	47.7	21440	0	2X
TOP FARM SX1097A	104.8	.	23.1	50.0	21440	0	2X
JACQUES 5270	104.3	.	23.5	50.7	21440	0	1X
AGRIPRO AP 364	104.1	.	25.4	47.5	21552	0	2X
G. HARVEST H-2404	102.9	122.9	25.8	50.2	21440	0	1X
YIELD KING K9310	102.5	.	29.5	46.8	21440	0	1X
KRUGER K9007	102.2	129.2	26.0	50.9	21440	0	1X
CIBA 4372	101.3	.	27.7	46.0	21552	0	2X
CURRY 2142	101.1	.	26.1	48.5	21328	0	2X
G. HARVEST H-2390	99.2	124.5	26.1	49.8	21552	0	1X
SANDS SOI9061	99.0	.	28.5	47.5	21552	0	1X
N. KING N4242	98.7	.	24.3	50.0	21440	0	2X
JACQUES 4770	98.5	124.4	24.8	45.3	21440	0	1X
LEGEND 8102	98.1	125.2	25.5	50.8	21440	0	2X
AGRIPRO AP 328	97.5	.	25.0	48.3	21440	0	2X
CURRY 4458	97.5	.	27.6	48.4	21440	0	2X
ICI 8574	97.1	105.6	28.3	46.2	21440	0	2X
HORIZON 5151	96.8	124.2	29.3	46.0	21440	0	1X
JOHNSON SX417A	96.6	.	22.7	48.1	21440	0	2X
ISC-PAYCO 711	96.1	.	28.1	47.6	21440	0	2X
PIONEER 3563	96.0	121.7	23.8	49.2	21440	0	1X
CARGILL 6227	94.3	.	30.1	44.8	21663	0	1X
TERRA TR1030	94.2	.	27.3	46.5	21440	0	2X
CARGILL 5327	93.7	126.8	28.4	48.3	21440	0	1X
CROW'S 449	93.3	121.1	30.4	44.8	21775	0	2X
NC+ 3795	93.3	.	28.3	48.6	21328	0	2X
N. KING N4545	92.6	114.1	26.6	45.2	21663	0	2X
CROW'S 370	92.4	.	26.1	46.1	21217	0	2X
YIELD KING K9306	91.5	.	27.6	47.5	21440	0	1X
TERRA TR1090	91.4	129.9	30.6	44.3	21440	0	2X
NC+ 4275	91.1	.	28.6	44.3	21105	0	2X
CIBA 4393	90.9	115.3	28.4	45.2	21328	0	2X
HORIZON 6101	90.3	.	24.7	51.8	21440	0	1X
TERRA TR1101	88.7	.	31.7	43.0	21552	0	2X
MCCURDY 4925	88.6	.	29.1	45.1	21328	0	2X
PIONEER 3525	88.3	.	25.9	49.6	20770	0	1X
LEGEND 8205	88.3	.	28.6	48.0	21440	0	2X
HOEGEMEYER 2608	88.1	.	28.7	45.5	21105	0	1X
KRUGER K9104	87.4	121.5	26.4	50.8	21440	0	1X
DEKALB DK554	87.1	.	28.5	42.3	21440	0	1X
KAYSTAR KX-685	86.3	.	28.2	46.7	21440	0	2X
ICI N9702	86.2	.	25.9	50.6	21440	0	2X
CURRY 2165	86.0	119.1	28.8	47.3	21328	0	2X
YIELD KING K9308A	85.2	.	30.5	45.5	21440	0	1X
CROW'S 401	84.3	.	31.3	42.4	21440	0	2X
DEKALB DK535	83.1	119.8	28.7	43.9	21552	0	1X
HOEGEMEYER 2611	80.4	.	27.5	46.9	21440	0	1X
ISC-PAYCO 802	79.8	.	29.0	44.7	21552	0	2X
DAIRYLAND ST1203	79.7	112.9	27.8	45.7	21440	0	2X
LEGEND 8203	75.8	.	27.3	48.1	21552	0	2X
TOP FARM SX1101A	74.6	92.5	24.5	50.2	21552	0	2X
YIELD KING K9307	70.5	.	26.4	47.8	21217	0	1X
TOP FARM SX1199	65.6	.	26.8	49.8	21105	0	2X
TEST AVERAGE:	92.1	120.1	27.3	47.3	21423	0	
TEST LSD (5%) VALUE*:	8.5	NS**	1.2	2.1	NS**	0	
MINIMUM BEST VALUE*:	102.0			49.7			
MAXIMUM BEST VALUE*:			23.9			0	
TEST C.V.#:	5.7	6.2					

*SEE EXPLANATION ON USE OF TABLE ON PAGE 3.

**NS - INDICATES HYBRID DIFFERENCES WITHIN A COLUMN ARE NOT SIGNIFICANT.

#COEF. OF VARIATION - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16.0% DATA SHOULD NOT BE USED TO MAKE HYBRID COMPARISONS.

**Table 12. 1992 corn hybrid performance trial results--Beresford, SD,
S.E. Research Farm, early maturity--110 days or less.**

---- BRAND & HYBRID ----	YIELDS AT 15.5% MOIST.		1992 HARVEST MOIST. (%)	BUSHEL TEST WT. (LB)	FINAL POP. (AC)	STALKS LODGED (%)	TYPE CROSS
	1992	2-YR (BU/AC)					
JACQUES 6970	178.5	.	22.8	53.1	23450	##	1X
DEKALB DK512	177.8	.	19.7	53.8	23673	.	1X
SEXAUER SX750	177.2	.	23.2	51.4	23338	.	2X
CURRY 4458	177.1	.	21.9	55.7	23562	.	2X
PIONEER 3525	176.9	.	20.5	57.9	23562	.	1X
ISC-PAYCO 802	176.7	.	20.9	54.7	23450	.	2X
NC+ 3795	174.0	.	22.1	55.9	23338	.	2X
TOP FARM SX1107	173.8	.	21.7	54.5	23338	.	2X
KAYSTAR KX-685	172.7	.	21.4	54.0	23450	.	2X
FONTANELLE 4232	172.5	.	22.9	51.6	23338	.	1X
CIBA 4372	171.9	.	21.0	55.8	23450	.	2X
ASGROW RX510	168.6	.	21.8	54.7	23562	.	2X
ASGROW RX623	167.2	.	21.4	56.2	23450	.	2X
PIONEER 3563	166.0	.	20.2	58.7	23338	.	1X
CARGILL 4327	164.3	.	21.9	55.4	23450	.	1X
CIBA 4393	163.7	120.6	21.2	54.1	23562	.	2X
YIELD KING K9308A	163.6	.	23.1	50.2	23338	.	1X
G. HARVEST H-2390	163.3	130.2	20.9	58.9	23450	.	1X
TERRA TR1030	162.8	.	21.5	56.7	23450	.	2X
HOEGEMEYER 2611	162.5	.	22.3	56.0	23338	.	1X
YIELD KING K9307	161.7	.	21.9	56.0	23450	.	1X
DEKALB DK584	161.4	129.2	22.6	55.3	23450	.	1X
ISC-PAYCO 711	161.4	.	21.8	52.6	23562	.	2X
NC+ 4616	161.3	.	23.8	53.0	23785	.	2X
CENEX/LOL 556	160.3	.	21.7	54.4	23450	.	1X
AGRIGENE AG6450	160.0	129.8	24.8	54.1	23450	.	2X
LEGEND 8205	159.9	.	21.8	55.2	23562	.	2X
HOEGEMEYER 2608	159.3	.	21.5	55.2	23450	.	1X
CARGILL 5877	158.3	.	21.4	53.0	23450	.	1X
WILSON 1140	158.1	129.3	19.7	55.4	23450	.	2X
YIELD KING K9306	157.8	.	21.0	56.8	23450	.	1X
N. KING N4242	157.6	.	19.6	55.4	23450	.	2X
CROW'S 237	156.2	132.9	20.9	53.2	23450	.	2X
DEKALB DK554	155.8	132.3	20.8	54.4	23562	.	1X
KAYSTAR KX-755	155.7	.	23.4	50.8	23450	.	2X
CURRY 4411	155.7	.	19.9	55.5	23562	.	2X
KRUGER K9310	155.2	.	22.2	57.3	23115	.	1X
DAIRYLAND ST1207	154.8	.	21.8	55.5	23450	.	2X
ICI N9702	154.8	.	20.5	58.2	23227	.	2X
CROW'S 179	154.6	123.1	19.8	57.4	23450	.	2X
NC+ 4275	154.6	.	22.8	50.7	23562	.	2X
LEGEND 8106	154.2	119.8	22.0	54.6	23450	.	2X
N. KING N4545	153.9	.	21.3	55.2	23562	.	2X
TERRA TR1010	153.9	128.5	20.4	57.5	23562	.	2X
SANDS SOI9991	152.2	.	19.1	55.8	23450	.	1X
JACQUES 7770	152.2	.	24.6	54.8	23338	.	1X
CROW'S 414	150.4	.	20.9	55.4	23338	.	2X
KRUGER K8107++	148.3	128.3	21.3	55.9	23338	.	1X
DAHLGREN D5057	148.3	124.5	20.3	58.4	23227	.	2X
FONTANELLE 3992	148.2	.	19.5	54.9	23450	.	1X
STINE 2071X	147.5	.	24.0	55.4	23562	.	2X
MCCURDY 5222	147.4	.	22.0	55.8	23338	.	2X
SEXAUER SX720	147.4	.	21.9	55.5	23450	.	2X
SIGCO 1306	143.7	.	21.0	54.3	23338	.	2X
G. HARVEST H-2404	142.8	128.0	20.2	59.0	23562	.	1X
CENEX/LOL 522	141.4	.	21.1	53.9	23338	.	1X
AGRIPRO AP 420	140.7	.	20.8	56.0	23338	.	2X
CURRY 2142	139.4	.	21.8	54.9	23562	.	2X
FONTANELLE 4180	137.6	116.3	20.9	57.1	23562	.	1X
SEXAUER SX777	137.1	.	25.3	52.9	23227	.	2X
TOP FARM SX1104A	131.1	.	21.7	56.1	23338	.	2X
KALTENBERG K5909	127.0	110.8	21.6	54.7	23450	.	2X
KRUGER K9007	126.1	.	21.4	55.2	23450	.	1X
TEST AVERAGE:	157.1	125.6	21.6	55.1	23443	.	
TEST LSD (5%) VALUE*:	16.9	NS**	0.7	2.5	NS**	.	
MINIMUM BEST VALUE*:	161.6	.	.	56.5	.	.	
MAXIMUM BEST VALUE*:	.	.	19.8	.	.	.	
TEST C.V.#:	6.6	8.0	

*SEE EXPLANATION ON USE OF TABLE ON PAGE 3.

**NS - INDICATES HYBRID DIFFERENCES WITHIN A COLUMN ARE NOT SIGNIFICANT.

#COEF. OF VARIATION - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS

16.0% DATA SHOULD NOT BE USED TO MAKE HYBRID COMPARISONS.

##HIGH WINDS ON JULY 22, 1992 CAUSED MUCH LODGING WHICH MADE IT TOO DIFFICULT TO MAKE VALID STALK LODGING DETERMINATIONS.

**Table 13. 1992 corn hybrid performance trial results--Beresford, SD,
S.E. Research Farm, late maturity--111 days or more.**

---- BRAND & HYBRID ----	YIELDS AT 15.5% MOIST.		1992 HARVEST MOIST. (%)	BUSHEL TEST WT. (LB)	FINAL POP. (AC)	STALKS LODGED (%)	TYPE CROSS
	1992 (BU/AC)	2-YR					
PIONEER 3362	184.6	147.8	23.5	55.2	23450	##	1X
LEGEND 9113	182.5	.	26.2	53.8	23450	.	2X
CARGILL 7997	178.3	144.2	25.6	58.0	23450	.	1X
PIONEER 3357	176.7	143.0	25.7	54.9	23450	.	1X
WILSON E4332	175.9	.	22.4	57.5	23450	.	1X
HOEGEMEYER SX2628	175.7	.	24.1	56.1	23673	.	1X
CURRY 2187	175.5	.	24.2	56.0	23450	.	2X
YIELD KING K9315A	175.0	.	26.3	55.8	23450	.	1X
N. KING N6330	174.1	.	23.4	56.7	23450	.	2X
YIELD KING K9314A	173.9	.	24.7	55.5	23338	.	1X
CIBA 4472	173.6	.	24.3	56.6	23450	.	2X
KALTENBERG K7109	172.1	.	22.9	55.6	23338	.	2X
DEKALB DK646	171.2	.	24.6	56.8	23562	.	1X
ASGROW RX707	171.2	.	23.5	56.4	23338	.	2X
ASGROW RX653	171.1	.	24.0	58.0	23450	.	2X
KALTENBERG K7500	170.7	133.8	25.1	59.1	23338	.	2X
SANDS SOI9081	170.5	.	23.8	56.2	23450	.	1X
TERRA TR1101	168.4	.	24.7	55.5	23450	.	2X
STINE 1115	168.2	.	24.9	55.5	23450	.	2X
PIONEER 3417	166.9	133.1	22.9	57.1	23450	.	1X
PIONEER 3398	166.8	137.2	24.9	57.2	23450	.	1X
CURRY 2176	166.7	136.8	23.3	55.2	23450	.	2X
DEKALB DK623	166.7	.	24.8	54.4	23338	.	1X
TERRA TR1090	166.6	120.8	24.7	54.9	23450	.	2X
ICI 8532IT	166.4	130.9	24.3	57.9	23450	.	2X
ISC-PAYCO 829	164.8	.	24.6	56.3	23562	.	2X
G. HARVEST H-2485	164.3	128.5	23.0	56.8	23338	.	1X
TERRA TR1125	163.8	127.3	24.6	57.4	23450	.	2X
TOP FARM SX1112	163.0	.	24.9	57.1	23562	.	2X
ICI 8543	162.9	125.8	23.1	56.5	23562	.	2X
KRUGER K9315B	162.4	.	25.3	56.2	23450	.	1X
ISC-PAYCO 909	161.5	.	25.1	56.6	23562	.	2X
LEGEND 9310	161.3	.	23.2	54.9	23450	.	2X
LEGEND 9112	161.2	135.0	24.6	58.8	23450	.	2X
WILSON 1540	160.5	.	24.7	54.6	23338	.	2X
DAIRYLAND ST1116	158.5	.	23.4	57.5	23450	.	2X
CIBA 4432	158.3	.	23.4	58.8	23450	.	2X
STINE 1130	158.2	.	24.5	57.7	23450	.	2X
MW GENETIC G84601	157.6	.	26.6	56.0	23338	.	2X
CARGILL 7177	156.0	.	25.2	58.2	23338	.	1X
ICI 8539	155.8	.	22.4	58.5	23450	.	2X
FONTANELLE 1339	154.7	.	22.3	59.9	23338	.	1X
ISC-PAYCO 802	153.5	.	21.5	58.0	23450	.	2X
TOP FARM SX1113	153.0	.	24.3	55.6	23450	.	2X
CROW'S 498	152.8	124.7	24.9	56.5	23562	.	2X
SIGCO 1814	152.5	.	24.1	59.5	23450	.	1X
MW GENETIC G77501	152.2	.	24.0	58.3	23450	.	2X
SANDS SOI9100	151.7	125.5	25.3	56.0	23450	.	1X
G. HARVEST H-2540	151.4	127.5	24.5	58.0	23562	.	1X
HORIZON 7115	150.5	123.5	24.6	57.3	23562	.	1X
HORIZON 7878	150.3	.	25.4	54.2	23450	.	1X
KRUGER K8111A	150.3	126.3	24.8	57.0	23338	.	1X
CURRY 1481	150.2	.	24.9	58.7	23450	.	2X
HORIZON 9110	149.8	114.4	24.3	56.1	23338	.	1X
MCCURDY 6660	149.6	.	24.6	57.0	23338	.	2X
CROW'S 488	149.4	.	23.3	56.3	23562	.	2X
N. KING N6560	149.0	.	25.0	57.0	23450	.	2X
CIBA 4490	148.4	121.6	25.3	57.9	23450	.	2X
FONTANELLE 4280	143.7	121.1	25.0	57.1	23562	.	1X
HOEGEMEYER SX2632	141.0	123.0	25.6	57.5	23338	.	1X
DAHLGREN DC-541	139.9	120.1	27.0	56.7	23562	.	2X
TEST AVERAGE:	161.9	129.2	24.4	56.8	23448	.	
TEST LSD (5%) VALUE*:	18.1	NS**	1.2	2.3	NS**	.	
MINIMUM BEST VALUE*:	166.5	.	.	57.6	.	.	
MAXIMUM BEST VALUE*:	.	.	22.7	.	.	.	
TEST C.V.#:	6.9	8.1	

*SEE EXPLANATION ON USE OF TABLE ON PAGE 3.

**NS - INDICATES HYBRID DIFFERENCES WITHIN A COLUMN ARE NOT SIGNIFICANT.

#COEF. OF VARIATION - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS

16.0% DATA SHOULD NOT BE USED TO MAKE HYBRID COMPARISONS.

##HIGH WINDS ON JULY 22, 1992 CAUSED MUCH LODGING WHICH MADE IT TOO DIFFICULT TO MAKE VALID STALK LODGING DETERMINATIONS.

Table 14. 1992 corn hybrid performance trial results--Armour, SD, Robert Clark farm, early maturity--110 days or less.

---- BRAND & HYBRID ----	YIELDS AT 15.5% MOIST.		1992 HARVEST MOIST. (%)	BUSHEL TEST WT. (LB)	FINAL POP. (AC)	STALKS LODGED (%)	TYPE CROSS
	1992 (BU/AC)	2-YR					
PIONEER 3525	159.0	.	21.6	53.6	18983	0	1X
CARGILL 4327	148.4	81.2	24.3	51.8	18760	0	1X
ISC-PAYCO 711	148.0	.	22.8	52.1	18983	0	2X
KAYSTAR KX-685	143.5	.	22.6	52.1	18537	0	2X
KRUGER K9310	143.3	.	24.0	52.2	18872	0	1X
DEKALB DK512	141.7	.	20.4	52.6	18872	0	1X
PIONEER 3563	139.7	82.0	21.6	55.7	18760	0	1X
ASGROW RX623	137.4	.	23.1	54.8	19318	0	2X
ASGROW RX510	135.2	.	23.0	51.6	17420	0	2X
CARGILL 5877	133.9	.	23.6	49.3	18983	0	1X
G. HARVEST H-2404	133.8	80.8	22.1	53.4	18872	0	1X
DEKALB DK554	133.7	83.5	24.0	48.8	18872	0	1X
HOEGEMEYER 670	132.2	.	21.4	54.0	18760	0	3X
G. HARVEST H-2390	130.5	77.1	22.4	54.0	18872	0	1X
ISC-PAYCO 648	130.0	.	22.2	54.0	19095	0	2X
KRUGER K9308A	127.3	.	23.8	51.0	18760	0	1X
TOP FARM SX1097A	127.0	75.1	20.3	52.9	18760	0	2X
CROW'S 237	126.9	81.8	22.6	50.6	18760	0	2X
ICI N9702	126.6	.	22.3	55.4	18983	0	2X
WILSON 1140	126.1	76.8	21.8	54.0	18648	0	2X
N. KING N4545	124.5	.	22.6	50.8	18760	0	2X
CROW'S 414	124.4	.	20.8	52.3	18760	0	2X
SANDS SOI9040	123.9	77.4	21.5	54.7	18760	0	1X
CIBA 4172	123.8	.	18.9	55.4	18760	1	2X
HOEGEMEYER 2571	123.5	.	19.5	53.8	18760	0	1X
ICI 8599	123.2	.	21.1	51.1	18872	0	2X
CROW'S 179	122.8	70.7	20.7	54.6	18872	0	2X
YIELD KING K9308	122.4	.	24.5	50.4	18760	0	1X
YIELD KING K9306	122.3	.	23.3	51.2	18760	0	1X
YIELD KING K9307	121.7	.	22.6	52.9	18313	0	1X
STINE 1068	119.9	.	20.9	56.0	18537	0	2X
DAHLGREN D5057	118.3	.	20.6	56.4	18425	0	2X
TOP FARM SX1199	111.6	.	21.0	56.3	18537	0	2X
HOEGEMEYER 2583	106.8	.	23.2	50.5	18760	0	1X
KAYSTAR KX-680	105.0	68.5	21.8	53.8	16415	0	2X
TEST AVERAGE:	129.1	77.7	22.1	53.0	18683	0	
TEST LSD (5%) VALUE*:	19.2	NS**					
MINIMUM BEST VALUE*:	139.8			53.8	18609		
MAXIMUM BEST VALUE*:			20.4				
TEST C.V.#:	9.1	14.6					

*SEE EXPLANATION ON USE OF TABLE ON PAGE 3.

**NS - INDICATES HYBRID DIFFERENCES WITHIN A COLUMN ARE NOT SIGNIFICANT.

#COEF. OF VARIATION - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16.0% DATA SHOULD NOT BE USED TO MAKE HYBRID COMPARISONS.

Table 15. 1992 corn hybrid performance trial results--Armour, SD, Robert Clark farm, late maturity--111 days or more.

---- BRAND & HYBRID ----	YIELDS AT 15.5% MOIST.		1992 HARVEST MOIST. (%)	BUSHEL TEST WT. (LB)	FINAL POP. (AC)	STALKS LODGED (%)	TYPE CROSS
	1992 (BU/AC)	2-YR					
WILSON 1540	148.4	.	25.6	49.5	19095	0	1X
ASGROW RX653	145.1	.	24.6	51.1	18760	0	2X
PIONEER 3357	137.9	85.9	25.9	51.8	19095	0	1X
ASGROW RX623	137.7	.	25.1	51.1	18760	0	2X
CARGILL 6927	136.6	85.6	25.8	52.9	18983	0	1X
WILSON E4332	136.6	.	23.7	51.9	18760	0	1X
PIONEER 3398	136.5	83.8	25.1	51.6	18872	0	1X
ISC-PAYCO 711	136.4	.	24.5	51.2	18648	0	2X
HOEGEMEYER 2681	135.6	.	27.6	49.2	18537	0	1X
YIELD KING K9315A	135.6	.	26.7	50.1	18983	0	2X
TOP FARM SX1107	134.8	80.3	23.3	51.7	18983	0	2X
KRUGER K9315B	134.5	.	25.8	50.0	18872	0	1X
STINE 1100	133.0	.	26.7	49.9	18983	0	2X
CIBA 4472	132.8	.	26.5	50.2	18983	0	2X
HORIZON 7878	129.6	.	27.8	47.8	19318	0	1X
PIONEER 3417	129.3	93.7	23.7	53.0	18983	0	1X
N. KING N6330	126.4	.	26.8	48.9	19095	0	2X
HOEGEMEYER SX2632	126.2	76.5	27.2	49.3	18983	0	1X
ISC-PAYCO 829	125.7	.	25.9	49.5	17755	0	2X
DEKALB DK623	125.6	.	26.2	50.3	18760	0	1X
YIELD KING K9314A	125.5	.	27.1	48.4	18983	0	2X
KAYSTAR KX-755	125.3	.	26.0	48.7	18648	0	2X
N. KING N6560	125.2	.	26.5	49.6	18872	0	2X
CARGILL 7177	124.9	.	26.3	49.7	18872	0	1X
G. HARVEST H-2540	124.1	.	26.1	50.1	18760	0	1X
DEKALB DK646	123.9	.	28.6	49.1	18760	0	1X
CIBA 4490	123.7	80.6	26.3	51.2	18872	0	2X
SANDS SOI9081	123.5	.	26.4	49.8	18760	0	1X
KRUGER K9316	122.4	.	27.3	52.0	18760	0	1X
TOP FARM SX1104A	121.6	.	24.7	52.9	18983	0	2X
ISC-PAYCO 802	121.4	.	24.1	49.8	18872	0	2X
STINE 1130	120.1	.	26.8	50.5	18872	0	2X
HORIZON 7115	119.0	79.2	26.4	49.7	18872	0	1X
DEKALB DK584	118.2	79.5	26.2	51.7	18872	0	1X
DAHLGREN DC-541	118.0	87.9	27.0	50.9	19095	0	2X
SANDS SOI9080	117.1	84.9	25.5	51.8	19207	0	1X
KRUGER K9118	115.6	.	27.0	50.4	18537	0	1X
TEST AVERAGE:	128.5	83.5	26.0	50.5	18860	0	
TEST LSD (5%) VALUE*:	NS**		1.5	2.3	NS**	NS**	
MINIMUM BEST VALUE*:				50.7			
MAXIMUM BEST VALUE*:			24.8				
TEST C.V.#:	9.2	15.7					

*SEE EXPLANATION ON USE OF TABLE ON PAGE 3.

**NS - INDICATES HYBRID DIFFERENCES WITHIN A COLUMN ARE NOT SIGNIFICANT.

#COEF. OF VARIATION - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16.0% DATA SHOULD NOT BE USED TO MAKE HYBRID COMPARISONS.

Table 16. 1992 corn hybrid performance trial results (irrigated no-till)--Pierre, SD, Dakota Lakes Research Farm, early maturity--100 days or less.

---- BRAND & HYBRID ----	YIELDS AT 15.5% MOIST.		1992 HARVEST MOIST. (%)	BUSHEL TEST WT. (LB)	FINAL POP. (AC)	STALKS LODGED (%)	TYPE CROSS
	1992 (BU/AC)	2-YR					
N. KING N4242	77.1	.	18.4	48.1	13177	24 ##	2X
JACQUES 6970	58.5	.	24.2	39.6	3350	35	1X
TOP FARM SX1097A	56.2	120.4	20.8	44.2	13177	44	2X
DAHLGREN D5002	56.0	.	21.3	41.5	9380	34	2X
DEKALB DK512	52.3	.	25.3	34.3	20993	15	1X
ISC-PAYCO 531	50.2	.	21.7	39.3	3350	22	2X
LEGEND 8301	48.6	.	21.6	41.2	11837	45	2X
LEGEND 8104	48.2	119.7	23.5	43.2	28252	36	2X
DEKALB DK535	47.6	113.0	24.8	36.6	3350	8	1X
DEKALB DK554	46.7	116.1	25.2	35.5	12172	17	1X
G. HARVEST H-2390	44.4	107.3	22.5	40.2	12842	75	1X
ISC-PAYCO 687	44.3	.	22.7	40.5	12953	23	2X
KAYSTAR KX-610	43.6	.	22.9	38.7	11167	31	2X
CIBA 4202	41.9	.	19.7	40.5	29703	9	2X
ISC-PAYCO 711	40.7	.	24.9	38.2	3350	3	2X
PIONEER 3563	36.3	112.3	23.8	38.3	11167	16	1X
WILSON 1140	36.2	.	22.7	36.4	20658	21	1X
SEXAUER SX540	36.2	.	23.1	36.0	11725	30	2X
CARGILL 5327	35.7	119.3	25.3	37.1	21998	5	1X
JACQUES 5600	35.6	.	22.1	38.0	21887	9	1X
PIONEER 3525	34.8	.	25.1	37.9	3350	44	1X
LEGEND 8205	34.8	122.8	25.0	39.3	10943	16	2X
ASGROW RX510	34.5	.	24.8	36.7	25460	5	2X
DAIRYLAND ST1198	32.6	.	23.0	34.3	30820	18	2X
N. KING N4545	31.5	111.6	23.5	34.4	12283	16	2X
CIBA 4282	31.5	109.3	22.9	36.7	12283	18	2X
TOP FARM SX1101A	26.7	101.4	22.5	40.7	12842	39	2X
SEXAUER SX750	24.1	.	25.9	35.2	3350	34	2X
LEGEND 8203	22.6	111.0	24.1	38.3	3350	23	2X
TEST AVERAGE:	41.7	113.7	23.2	38.6	13489	25	
TEST LSD (5%) VALUE*:	16.2	NS**	1.6	4.7	NS**	32.1	
MINIMUM BEST VALUE*:	60.9			43.4			
MAXIMUM BEST VALUE*:			20.0			35.4	
TEST C.V.#:	23.8	12.3					

*SEE EXPLANATION ON USE OF TABLE ON PAGE 3.

**NS - INDICATES HYBRID DIFFERENCES WITHIN A COLUMN ARE NOT SIGNIFICANT.

#COEF. OF VARIATION - THE 1992 YIELDS CONTAIN ALOT OF EXPERIMENTAL ERROR; AND SHOULD NOT BE USED TO MAKE HYBRID COMPARISONS. HIGH EXPERIMENTAL ERROR WAS LIKELY THE RESULT OF REPLANTING THIS TEST ON JUNE 10TH FOLLOWING THE SEVERE FREEZE OF MAY 25, 1992.

##EXTREMELY HIGH WINDS HIT THIS TEST TRIAL ON DECEMBER 3 RESULTING IN HIGH STALK LODGING PERCENTAGES.

Table 17. 1992 corn hybrid performance trial results (irrigated no-till)--Pierre, SD, Dakota Lakes Research Farm, late maturity--101 days or more.

---- BRAND & HYBRID ----	YIELDS AT 15.5% MOIST.		1992 HARVEST MOIST. (%)	BUSHEL TEST WT. (LB)	FINAL POP. (AC)	STALKS LODGED (%)	TYPE CROSS
	1992 (BU/AC)	2-YR					
G. HARVEST H-2493	130.5	.	21.9	49.8	12953	19 ##	1X
MCCURDY 6222	121.0	.	21.3	52.5	21887	23	2X
N. KING N6873	114.3	.	20.7	52.6	12283	86	2X
ISC-PAYCO 802	106.5	.	21.8	49.2	12395	15	2X
DEKALB DK646	103.6	.	25.2	46.8	29703	57	1X
ICI 8513	103.4	.	21.9	51.5	20547	71	2X
CARGILL 6227	101.9	143.6	22.2	52.3	12842	20	1X
CARGILL 5877	101.5	.	17.2	52.0	20882	76	1X
CARGILL 7697	101.3	.	25.3	50.6	3350	88	1X
ICI 8543	99.8	137.2	22.2	52.0	20212	37	2X
G. HARVEST H-2485	97.7	139.6	21.4	51.3	3350	42	1X
N. KING N6560	97.0	145.5	21.7	54.8	29815	67	2X
CIBA 4393	96.3	143.0	20.7	52.7	29145	24	2X
LEGEND 8106	96.2	.	21.1	52.0	29703	6	2X
CARGILL 6927	95.9	136.9	25.2	52.3	18983	62	1X
HORIZON 6101	92.0	.	20.6	54.5	27247	64	1X
DEKALB DK623	91.9	.	25.4	47.4	29480	50	1X
TOP FARM SX1104A	91.7	137.0	22.5	54.3	20100	34	2X
PIONEER 3357	90.6	140.6	24.0	54.0	21887	65	1X
SIGCO 1814	89.8	134.1	22.0	54.3	20658	81	2X
KAYSTAR KX-755	89.5	.	21.1	50.7	24567	48	2X
CIBA 4372	88.8	.	21.8	52.7	25348	46	2X
PIONEER 3398	87.4	132.7	23.0	54.2	26912	14	1X
ISC-PAYCO 841	86.7	.	18.9	51.4	25125	6	2X
HORIZON 5151	86.7	.	20.1	52.2	16303	32	1X
DAHLGREN D5092	86.3	.	19.1	52.5	24567	13	2X
KAYSTAR KX-685	85.1	131.4	20.0	53.0	15410	43	2X
ASGROW RX623	84.8	.	22.4	52.1	28587	49	2X
WILSON E4332	81.0	.	19.4	52.6	23450	16	1X
PIONEER 3417	80.1	133.3	19.3	53.0	22557	27	1X
DAIRYLAND ST1205	77.8	.	21.4	51.6	14963	11	2X
SIGCO 1306	77.6	.	19.9	51.7	14628	57	2X
SEXAUER SX620	73.8	.	17.4	51.5	13288	14	2X
ASGROW RX653	68.6	.	18.6	51.5	15745	4	2X
TOP FARM SX1199	64.1	.	16.5	55.7	25683	16	2X
TEST AVERAGE:	92.6	137.9	21.2	52.1	20416	39	
TEST LSD (5%) VALUE*:	20.1	NS**	3.7	2.7	NS**	37.0	
MINIMUM BEST VALUE*:	110.4			53.0			
MAXIMUM BEST VALUE*:			20.2			41.0	
TEST C.V.#:	13.3	10.2					

*SEE EXPLANATION ON USE OF TABLE ON PAGE 3.

**NS - INDICATES HYBRID DIFFERENCES WITHIN A COLUMN ARE NOT SIGNIFICANT.

#COEF. OF VARIATION - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16.0% DATA SHOULD NOT BE USED TO MAKE HYBRID COMPARISONS.

##EXTREMELY HIGH WINDS HIT THIS TEST TRIAL ON DECEMBER 3 RESULTING IN HIGH STALK LODGING PERCENTAGES.

Entries in the 1992 South Dakota corn performance trials.

COMPANY (BRAND)	HYBRID	COMPANY (BRAND)	HYBRID	COMPANY (BRAND)	HYBRID	
AGRIGENE	AG3980	DAHLGREN	DC-541	ICI (CONTINUED)	8740	
	AG6450		D5057		8883	
	AG3500		D5002		N9702	
	AG3860		D5092	ISC-PAYCO	648	
	AG3920		D5962		402	
AGRIPRO	AG5480	HEFTY SEED CO. "DAIRYLAND"	ST-1189		448	
	AP 364		ST-1198	531		
	AP 250		ST-1203	687		
	AP 162		ST-1116	711		
	AP 194		ST-1205	802		
	AP 420		ST-1207	829		
	AP 328			841		
ASGROW	RX337	DEKALB	DK535		909	
	RX406		DK485	JACQUES	7770	
	RX497		DK584		4440	
	RX510		DK421		4770	
	RX623		DK401		5170	
	RX653		DK462		5270	
	RX707		DK554		5600	
			DK381		6970	
	DK512					
CARGILL	3477	FONTANELLE	DK564	JOHNSON	SX417	
	6227		DK623		SX417A	
	6927		DK646		SX3952	
	3627			KALTENBERG	K7500	
	4327		4280		K5909	
	3427		4180		K7109	
	3637		3992			
	5327		4232			
	2927				KAYSTAR	KX-555
	5877		JC ROBINSON			H-2404
7697	"GOLDEN HARVEST"	H-2295	KX-685			
7977		H-2540	KX-610			
7177		H-2390	KX-755			
CENEX/LOL	522		H-2485			
	429		H-2322			
	438		H-2493	KRUGER	K8107++	
	556	STENGEL SEED	GVS282		K811A	
		"GOLDEN VALLEY"	GVS298		K9007	
			K9104			
			K9118			
CIBA-GEIGY "CIBA"	4393	HOEGEMEYER	SX2632		K9203	
	4490		SX2628		K9204	
	4070		2564		K9304	
	4120		670		K9308A	
	4472		2571		K9310	
	4282		2583		K9315B	
	4172		2608		K9316	
	4202		2611	LEGEND	8102	
	4372		2681		8106	
	4432				8104	
					9112	
		7392				
CROW'S	488	HORIZON	6101		8203	
	414		7115		8205	
	237		8095		8301	
	449		4545		9310	
	498		5151		9313	
	179		9110			
	370		7878			
	401					
CURRY	1481	ICI	8332IT	MC CURDY	4925	
	2165		8599		6660	
	2176		8574		5222	
	2142		8543		6222	
	2187		8777		4800	
	4411		8513			
			8539			

Entries in the 1992 South Dakota corn performance trials (continued).

COMPANY (BRAND)	HYBRID	COMPANY (BRAND)	HYBRID	COMPANY (BRAND)	HYBRID
MIDWEST GENETICS	G8460 G7750	TOP FARM	SX1199 SX1102 SX1112		
NC+	4616 1991 2190 2844 3795 4275		SX1195A SX1101A SX1097A SX1104A SX1107 SX1113 SX1194A		
NORTHROP KING	N-4545 N-6560 N-3808 N-4242 N-6330 N-6873	WILSON	1140 1540		
PIONEER	3362 3578 3788 3921 3787 3503 3417 3563 3398 3357 3525 3861 3699	YIELD KING	K9303 K9306 K9307 K9308 K9310 K9314B K9315A		
SANDS "SOI"	9040 9080 9100 9061 9081 9991				
SEXAUER	SX350 SX450 SX540 SX620 SX720 S 92-73				
SIGCO	1799 1814 1200 1301 1306				
STINE	992 1033 1068 1100 1115 1121X 1130 2071X				
TERRA	TR1125 TR1010 TR1090 TR910 TR1030 TR1101				