11-1994

1994 South Dakota Corn Performance Trials

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C 253
(revised annually)

1994 SOUTH DAKOTA CORN PERFORMANCE TRIALS

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

Tables, 1994 Corn Hybrid Performance Trials

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C 253: 3200 printed by Crop Performance Testing, SDSU, at 61¢ each. December 1994, AX062

1994 SOUTH DAKOTA CORN PERFORMANCE TRIALS

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This report evaluates the relative performance of corn hybrids grown under similar environmental conditions in 1994.

Information in the tables includes both 1994 and 1993-94 grain yields in bushels per acre; and 1994 test weight, moisture percentages of shelled corn at harvest, final plant populations per acre, and stalk lodge percentages.

The assistance of the following individuals 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.

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

Location of the 1994 Trials

Test trial locations and seeding and harvest dates are in Table 1.

Seeding started April 21 and was completed by May 12. Trial results at Watertown, Frankfort (Spink County), Dell Rapids, Armour, and Beresford were very good this year as a result of timely planting, adequate moisture, and adequate temperatures.

However, the test results at both Pierre trials were lower than expected. These lower yields were mainly the result of a wide variation in final stand among the varieties tested. In many cases the stands ranged from the teens to 30,000 plants per acre.

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 normal to 1 degree below normal. However, temperatures rose to 3 to 4 degrees above normal in May and normal to 1 degree above normal in June. In July, temperatures dropped to 5 degrees below normal, while in August, they dropped 2.5 to 3.5 degrees below normal. Finally, in September, temperatures rose again to about 2 to 2.5 degrees above normal. Monthly precipitation totals were generally the highest at all locations in either June or July.

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 at each site were 95 days for Watertown; 100 days for Frankfort, Brookings, and Pierre; 105 days for Dell Rapids; 108 days for Armour; and 110 days for Beresford.

A fee was charged for every entry at each location. A listing of the participating firms and hybrids entered is presented 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:

Location	Seeds per Acre
Watertown	22,100
Frankfort	20,800
Brookings	22,100
Sioux Falls	22,800
Beresford	24,100
Armour	20,100
Pierre - irrigated	33,500

Soil types, starter fertilizer applications, land preparation, and previous crop at each test trial site are in Table 3. No insecticides were used for corn rootworm control this year. A recommended short-residue pre-emergence 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 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 all trials were near desired levels, except for the early and late trials at Pierre.

Measurements of Performance

Yield. Yields 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 pounds.

Hybrids 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.

In 1994 the coefficient of variation (CV) for yield was 10% or less among the 14 test trials located at seven test sites. The CV value in a given test trial at each location is a measure of experimental error associated with the test. Ideally, this value should not exceed 16%.

In cases where the CV value exceeds 16% it is recommended that the test data not be used for making hybrid selection decisions. Experimental error may be the result of several factors including test methods; environmental factors such as moisture, temperature, and soil variations; or agronomic factors like seeding date, reseeding, or seed quality factors. All may or may not be controllable in a given year.

In 1994, the CV values were low. Experimental error was not a factor in any of the test trials.

To convert data in these tables to the metric system, use the factor 1.121 to convert lb/acre to kilograms/hectare. For example, a yield of 55 bu/acre from the yield tables would be converted to kilograms/hectare by:

55 bushels / acre X **1.121** = **61.7** kilograms / 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 concern in South Dakota, moisture figures are important 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 are 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, it compares whether two hybrids really differ in yield. For example, the yield difference between any two hybrids in the early trial at Watertown (Table 4) must be more than 13.2 bu/acre. If not, there is no real yield difference between the two hybrids.

Second, the same LSD value can be used to identify which hybrids are the best yielders at a given location. Again in the early maturity test trial at Watertown, the highest yield was 152.9 bu/acre for CIBA 4214. To determine whether CIBA 4214 is the only top yielder at Watertown, use the LSD value of 13.2 bu/acre at the bottom of the 1994 yield column. For hybrids to be in the best yield group they must yield within 13.2 bu/acre of CIBA 4214 (152.9 - 13.2) or yield more than 139.7 bu/acre. Therefore, any hybrid yielding 139.8 bu/acre or higher is in the top yielding group, or we can say 139.8 bu/acre is the minimum best value for top yielding early hybrids at Watertown in 1994.

In the tables the top-yield group is indicated by those hybrids which appear above the line denoted as "**HYBRIDS APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD GROUP FOR 1994**." Likewise, the best minimum value for bushel weight is 58.6 lb.

Except for the early and late maturity test trials at Pierre, all final stand populations were similar at a given test location. In both trials at Pierre there was a significant final stand effect. The test LSD (5%) values for final stands were 5,019 and 5,226 plants/acre for the early and late tests, respectively.

The highest population at Pierre in the early test was 33,277. The lower population had to be (33,277 - 5,109) or 28,168 plants/acre or less for there to be a real difference in the final stand.

In this case, it would be appropriate to compare yield of hybrids having a population higher than 28,168 plants/acre. However, it would be invalid to compare the yield of any hybrids when their respective final stands differed more than 5,109 plants/acre (the respective LSD value for final stand).

Likewise, in the late trial at Pierre the highest final stand was 35,175 plants/acre. Again, the lower population had to be (35,175 - 5,226) or 29,949 plants/acre or less for there to be a real difference in final stand.

It is appropriate to compare the yield of hybrids with populations higher than 29,949 plants/acre. However, it would again not be appropriate to compare the yields of hybrids when their respective final populations differed more than 5,226 plants/acre.

In the case of harvest moisture content and stalk lodge 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 in order to obtain the maximum best values. In the early test at Watertown (Table 4) the best harvest moisture percentages within the harvest moisture column are 18.0% or less. In Table 4 there were no significant stalk lodging differences among hybrids tested.

In summary, the best hybrids in the early maturity test at Watertown (Table 4) yielded 139.8 bu/acre in 1994, had test weights of at least 58.6 lb/bushel or higher, contained 18.0% moisture or less, and exhibited no significant difference in percentage of stalks lodged.

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

LOCATION	COUNTY	POST OFFICE	DATE SEEDED	DATE HARVESTED
N.E. RESEARCH FARM, 15N*	CODINGTON	WATERTOWN	MAY 11	OCT. 31
KEVIN CRISP FARM, 7E,1S	MINNEHAHA	DELL RAPIDS	MAY 12	NOV. 1
STEVE MASAT FARM, 6S,2W	SPINK	FRANKFORT	MAY 9	OCT. 28
SDSU AGRONOMY FARM, 2NE	BROOKINGS	BROOKINGS	MAY 3	OCT. 25
S.E. RESEARCH FARM, 7W,3S	UNION	BERESFORD	APRIL 25	OCT. 20
ROBERT CLARK FARM, 4W,1S	DOUGLAS	ARMOUR	MAY 10	OCT. 19
DAKOTA LAKES RESEARCH FARM, 17E	HUGHES	PIERRE	APRIL 21	OCT. 27

* MILEAGE AND DIRECTIONS FROM NEAREST POST OFFICE.

• Table 2. Temperature and precipitation data, 1994 South Dakota corn performance trials.

LOCATION	TYPE OF DATA	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	TOTAL
WATERTOWN	PRECIPITATION*	1.79	1.83	7.48	4.96	4.49	1.86	22.41
(N.E. FARM)	AVER. TEMP.**	43.5	60.5	67.1	68.5	66.5	61.3	
AIRPORT	TEMP. DIFF.	-0.7	+3.1	+0.3	-4.9	-3.4	+2.1	
SIOUX FALLS	PRECIPITATION	3.34	1.26	6.03	1.70	2.66	2.36	17.35
AIRPORT	AVER. TEMP.	46.5	63.9	71.6	70.7	69.4	65.2	
	TEMP. DIFF.	-0.9	+2.9	+1.1	-5.1	-2.8	+2.4	
REDFIELD	PRECIPITATION	2.37	1.00	1.45	7.33	1.57	1.28	15.00
(SPINK CO.)	AVER. TEMP.	44.7	60.0	67.6	68.3	66.6	61.1	
2 NE	TEMP. DIFF.	-0.7	+3.1	+0.3	-4.9	-3.4	+2.1	
BROOKINGS	PRECIPITATION	2.99	1.52	10.21	2.08	3.57	2.75	23.12
2 NE	AVER. TEMP.	42.2	58.7	66.1	66.5	65.0	60.7	
	TEMP. DIFF.	-0.7	+3.1	+0.3	-4.9	-3.4	+2.1	
CENTERVILLE	PRECIPITATION	2.47	1.51	4.39	3.39	1.41	2.30	15.47
(S.E.FARM)	AVER. TEMP.	45.9	61.9	70.7	68.2	68.0	64.0	
6 SE	TEMP. DIFF.	-0.9	+2.9	+1.1	-5.1	-2.8	+2.4	
ARMOUR	PRECIPITATION	2.97	1.84	2.98	3.56	1.12	1.53	14.00
(DOUGLAS CO.)	AVER. TEMP.	48.8	63.8	70.7	71.5	71.6	66.0	
	TEMP. DIFF.	-0.9	+2.9	+1.1	-5.1	-2.8	+2.4	
PIERRE	PRECIPITATION	1.29	2.21	3.00	4.53	2.30	1.22	14.55
(DLR FARM)	AVER. TEMP.	46.9	63.1	70.4	71.9	70.8	65.1	
AIRPORT	TEMP. DIFF.	-0.1	+3.9	+1.0	-4.8	-2.6	+2.5	

*PRECIPITATION = INCHES, TEMPERATURE = DEGREES FAHRENHEIT.

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

LOCATION	SOIL TYPE	STARTER FERTILIZER 2 X 2 APPLICATION (LBS PER ACRE)	LAND PREPARATION, PREVIOUS CROP
BROOKINGS	BRANDT SIL. CL.	37 - 18 - 00	CONV., SOYBEAN
WATERTOWN	BROOKINGS SIL. CL. LOAM	37 - 18 - 00	CONV., SPRING WHEAT
FRANKFORT	BEOTIA SILT LOAM	37 - 18 - 00	NO-TILL, S.WHEAT STUBBLE
BERESFORD	TRENT SILTY LOAM	37 - 18 - 00	CONV., SOYBEAN
ARMOUR	EAKIN-ETHAN COMPLEX	37 - 18 - 00	NO-TILL, SOYBEAN STUBBLE
PIERRE	LOWRY SIL. LOAM	37 - 18 - 00	NO-TILL, SOYBEAN STUBBLE
DELL RAPIDS	FLANDREAU LOAM	37 - 18 - 00	CONV., ALFALFA

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

• Table 4. 1994 corn hybrid performance trial results:
Watertown, NE Research Farm, early maturity (95 days or less).

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST. 1994 (BU/AC)	YIELDS AT 15.5% MOIST. 2-YR (BU/AC)	1994 HARVEST MOIST. (%)	BUSHEL WEIGHT (LB)	FINAL POP. PER ACRE	STALKS LODGED (%)
CIBA 4214	152.9	.	19.8	57.4	20993	3
PIONEER 3861	148.9	101.7	18.5	57.7	21887	3
CENEX/LOL 351	148.0	.	19.7	57.7	21998	1
CENEX/LOL 375	147.8	92.8	20.4	56.3	21440	3
KALTENBERG K4709	146.2	.	19.7	55.0	21217	4
CARGILL 2497	144.5	.	19.5	57.9	21440	4
DEKALB DK 442	143.6	.	19.5	56.9	22110	3
TOP FARM SX2194	143.1	.	20.0	58.7	22222	4
KALTENBERG K4800	142.0	87.0	22.3	56.3	21328	2
DEKALB DK 401	140.9	88.7	17.7	57.3	21998	3
---- HYBRIDS APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD-GROUP FOR 1994 ----						
SEXAUER SX450	139.7	85.5	21.5	51.9	21887	2
KALTENBERG K4400	139.7	95.9	19.4	57.7	21440	1
CENEX/LOL 5954	139.2	.	20.1	56.4	22110	4
DEKALB DK 381	139.1	92.5	17.8	56.4	22110	2
CENEX/LOL 289	139.0	.	20.1	58.9	22110	3
ASGROW RX350	138.8	78.7	18.3	58.4	21663	5
LEGEND LS7494	138.5	.	20.6	56.9	22110	2
G. HARVEST H-2292	138.1	92.5	19.2	56.7	22110	1
KALTENBERG K3809	137.9	.	19.6	57.8	22222	6
DYNA-GRO 15095	137.7	93.6	20.0	56.0	20993	2
N. KING N-2555	137.7	.	19.1	60.2	21775	3
PAYCO 413	137.4	86.1	19.8	56.0	22222	2
ICI N8910IT	137.2	.	19.6	57.8	22222	2
CIBA 4144	136.5	.	19.8	57.3	21663	4
CIBA 4172	136.5	86.0	19.4	57.4	22110	3
SANDS SOI9944	136.1	.	19.7	58.5	22222	3
ASGROW XP4102	136.0	.	19.6	56.7	21552	2
N. KING N-3030	135.5	.	19.2	57.5	21998	4
MYCOGEN 3440	134.5	.	20.4	56.1	21887	1
DAIRYLAND ST-1187	133.9	.	18.8	58.2	21887	6
MYCOGEN 4440	133.6	.	21.4	52.1	21998	1
SEXAUER SX420	131.3	77.4	20.4	57.9	21328	2
DYNA-GRO 5243	130.8	.	19.2	58.2	22222	3
PIONEER 3893	130.5	.	19.0	57.8	22110	4
TOP FARM SX1193	130.4	90.2	19.8	56.9	21328	5
DOMESTIC DX306	129.4	.	19.0	54.6	21440	1
AGRIPRO AP162	129.1	.	20.1	57.1	21663	3
PIONEER 3905	128.3	.	18.8	60.0	22110	1
G. HARVEST H-2295	128.0	84.7	19.9	58.5	22110	2
KAYSTAR KX-550	127.7	.	20.5	56.6	21440	3

Table 4 (continued). NE Research Farm, early maturity (95 days or less).

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST. 1994 (BU/AC)	YIELDS AT 15.5% MOIST. 2-YR (BU/AC)	1994 HARVEST MOIST. (%)	BUSHEL WEIGHT (LB)	FINAL POP. PER ACRE	STALKS LODGED (%)
N. KING N-2933	126.1	75.3	19.6	58.6	21552	6
CIBA 4120	125.7	.	19.4	55.7	21887	2
KAYSTAR KX-490	125.0	.	20.3	58.3	21887	4
CARGILL 2927	124.8	84.0	18.5	56.4	22333	4
MYCOGEN 2880	122.8	.	19.8	57.9	20100	0
TOP FARM SX2195	122.7	86.2	20.8	57.0	21440	8
DOMESTIC DX407	121.0	.	20.1	55.4	21440	2
PAYCO 444	120.5	.	19.3	55.4	22110	8
LEGEND LS5953	120.2	.	20.5	58.3	21440	6
CENEX/LOL 5862	117.2	.	20.8	59.9	21998	1
STINE 951	116.5	.	19.4	55.1	20770	2
DAIRYLAND ST-1284	111.3	.	17.9	57.6	22110	0
LEGEND LS6479	105.0	.	17.3	59.2	21328	2
TEST AVERAGE:	133.3	87.7	19.6	57.1	21756	3
TEST LSD (5%) VALUE:	13.2	*NS	0.8	1.7	NS	NS
MINIMUM BEST VALUE:	139.8			58.6		
MAXIMUM BEST VALUE:			18.0			
TEST C.V.#:	6.1	7.2				

*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. 1994 corn hybrid performance trial results:
Watertown, NE Research Farm, late maturity (96 days or more).

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST. 1994 (BU/AC)	YIELDS AT 15.5% MOIST. 2-YR (BU/AC)	1994 HARVEST MOIST. (%)	BUSHEL WEIGHT (LB)	FINAL POP. PER ACRE	STALKS LODGED (%)
CARGILL 4277	174.9	115.9	24.7	55.0	22110	1
DEKALB DK 493	164.7	.	21.4	58.6	21775	3
PIONEER 3733	163.9	.	22.7	60.4	22333	2
---- HYBRIDS APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD-GROUP FOR 1994 ----						
DEKALB DK 471	161.0	113.6	21.3	56.9	21775	3
CARGILL 4327	157.7	115.1	25.3	55.1	22110	0
TOP FARM SX2103	150.9	.	24.5	58.2	21998	1
G. HARVEST H-2390	149.0	106.7	24.3	56.9	21440	1
ICI 8751	148.2	.	20.7	58.6	22110	3
N. KING N-4242	146.9	93.9	22.8	57.7	21775	1
SEXAUER SX510	144.9	.	20.6	58.1	22110	2
DEKALB DK 512	144.2	99.3	22.9	55.6	21775	1
DYNA-GRO 15099	143.9	.	23.3	58.4	21552	2
G. HARVEST H-2382	142.8	.	24.3	58.1	21775	3
PIONEER 3769	142.5	93.2	21.4	57.1	21775	4
G. HARVEST H-2404	141.4	103.7	24.1	58.9	22333	2
SANDS SOI9031	141.1	.	21.2	57.5	21775	0
KALTENBERG K4805	140.5	93.4	21.6	58.3	21440	2
PAYCO 614	140.1	.	20.6	58.3	21663	2
PAYCO 531	137.3	94.0	21.2	57.4	22110	1
MYCOGEN 4970	134.5	.	22.9	58.4	22222	1
DYNA-GRO 5100	132.7	.	23.1	57.9	21887	2
SANDS SOI9991	131.7	.	21.4	56.6	21663	1
CIBA 4273	131.6	85.3	22.5	59.3	20882	2
STINE 993	130.4	.	21.6	56.2	21887	1
TOP FARM SX1097A	130.3	89.2	21.5	57.4	21552	0
SANDS SOI9980	129.9	.	22.9	58.9	22110	2
MYCOGEN 5270	128.0	.	23.5	57.5	21440	2
MYCOGEN 3560	127.9	.	22.6	60.1	21663	2
SANDS SOI9040	127.1	.	24.8	57.5	20993	2
TEST AVERAGE:	142.8	100.3	22.6	57.8	21794	2
TEST LSD (5%) VALUE:	13.8	17.7	1.0	1.8	*NS	NS
MINIMUM BEST VALUE:	161.2	98.3		58.7		
MAXIMUM BEST VALUE:			21.5			
TEST C.V.#:	5.9	7.6				

*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. 1994 corn hybrid performance trial results (no-till): Frankfort, Steve Masat farm, early maturity (100 days or less).

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST. 1994 (BU/AC)	YIELDS AT 15.5% MOIST. 2-YR (BU/AC)	1994 HARVEST MOIST. (%)	BUSHEL WEIGHT (LB)	FINAL POP. PER ACRE	STALKS LODGED (%)
PIONEER 3733	218.7	184.9	21.3	57.0	20100	2
ICI 8746	216.3	.	19.4	55.3	20100	0
DEKALB DK 471	208.7	179.6	19.2	54.5	20100	1
DEKALB DK 493	207.4	.	18.9	53.8	20100	0
MYCOGEN 4970	206.2	.	19.0	55.2	20100	1
N. KING N-4242	203.5	173.2	18.7	54.4	20100	2
---- HYBRIDS APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD-GROUP FOR 1994 ----						
KALTENBERG K4805	191.1	159.1	20.4	53.0	20100	1
KALTENBERG K5309	188.8	.	22.5	51.2	20100	1
MYCOGEN 5270	185.3	.	18.9	56.0	19988	4
DAIRYLAND ST-1198	184.0	155.9	20.2	53.6	20100	0
DYNA-GRO 5100	180.1	156.2	19.6	55.2	20100	1
LEGEND LS7196	179.7	160.4	19.4	53.1	20100	1
DYNA-GRO 15099	179.5	.	19.8	56.2	20100	3
MYCOGEN 3560	177.7	.	19.8	57.2	20100	1
CIBA 4273	177.5	156.3	19.9	57.7	20100	0
G. HARVEST H-2382	177.0	.	19.7	56.0	20100	1
PAYCO 614	176.9	.	19.6	57.5	20100	2
DAIRYLAND ST-1400	176.8	.	19.8	55.8	20100	0
CARGILL 3777	176.6	152.0	18.8	57.5	20100	1
CIBA 4214	176.2	.	18.3	57.7	20323	0
KALTENBERG K5200	175.3	.	21.1	54.5	20100	1
LEGEND LS7198	174.6	.	20.3	55.6	20100	0
SEXAUER SX450	173.8	153.2	20.2	52.6	20100	1
DEKALB DK 442	172.8	.	17.7	55.9	20100	0
SEXAUER SX510	172.6	.	19.4	54.6	20100	1
G. HARVEST H-2295	171.8	155.7	19.2	57.0	20100	1
KALTENBERG K5305	171.4	.	19.9	55.8	20100	0
PAYCO 531	170.9	154.5	20.4	54.2	20100	1
DAIRYLAND ST-1200	166.9	.	19.9	55.9	20212	1
LEGEND LS7194	166.1	.	20.1	56.0	20212	0
MYCOGEN 3440	164.6	.	18.7	55.7	20212	0
LEGEND LS7599	164.2	.	19.7	56.5	20100	1
TOP FARM SX1097A	164.2	140.8	19.8	54.9	20212	0
KAYSTAR KX-588	160.3	.	20.0	54.7	20212	1
LEGEND LS7494	159.2	.	20.2	55.8	20100	1
G. HARVEST H-2292	159.1	146.1	18.2	56.8	20323	0

Table 6 (continued). Steve Masat farm, early maturity (100 days or less).

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST. 1994 (BU/AC)	YIELDS AT 15.5% MOIST. 2-YR (BU/AC)	1994 HARVEST MOIST. (%)	BUSHEL WEIGHT (LB)	FINAL POP. PER ACRE	STALKS LODGED (%)
CIBA 4120	158.4	.	17.7	56.3	20100	1
ASGROW XP4102	156.2	.	18.1	55.7	20100	1
TOP FARM SX2195	153.1	140.5	19.9	54.6	20212	2
PIONEER 3769	150.8	146.0	19.6	56.8	20100	0
ICI 8751	148.8	.	18.6	56.8	20100	0
KAYSTAR KX-610	148.5	136.1	19.4	55.9	20100	1
KAYSTAR KX-550	147.6	.	19.7	55.7	20100	1
KELTGEN 2392	146.9	.	18.8	56.4	20100	0
TEST AVERAGE:	174.7	155.9	19.5	55.5	20123	1
TEST LSD (5%) VALUE:	20.4	24.1	1.1	2.7	*NS	NS
MINIMUM BEST VALUE:	198.4	160.9		55.1		
MAXIMUM BEST VALUE:			18.7			
TEST C.V.#:	7.2	6.6				

*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. 1994 corn hybrid performance trial results (no-till): Frankfort, Steve Masat farm, late maturity (101 days or more).

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST. 1994 (BU/AC)	YIELDS AT 15.5% MOIST. 2-YR (BU/AC)	1994 HARVEST MOIST. (%)	BUSHEL WEIGHT (LB)	FINAL POP. PER ACRE	STALKS LODGED (%)
DEKALB DK 512	224.1	177.2	21.4	55.1	20100	2
CARGILL 4327	217.8	174.8	21.5	56.0	20100	1
DEKALB DK 560	211.7	.	23.0	57.8	20212	1
N. KING N-5220	208.3	164.2	21.1	58.8	20100	1
TOP FARM SX2103	205.5	.	21.2	57.2	20100	1
DEKALB DK 527	200.7	.	21.0	56.5	20100	0
---- HYBRIDS APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD-GROUP FOR 1994 ----						
CARGILL 5677	200.0	.	22.1	56.0	20100	2
G. HARVEST H-2390	197.7	167.9	20.9	58.4	20100	1
PAYCO 633	196.2	165.6	21.8	55.9	20100	1
LEGEND LS8408	193.5	.	22.1	56.0	20212	0
PIONEER 3556	193.2	.	22.1	58.3	20100	0
PIONEER 3531	191.5	.	21.1	57.2	20212	0
CENEX/LOL 522	189.1	.	21.9	56.4	20100	0
TOP FARM SX1104A	188.0	161.1	21.7	58.8	20212	1
LEGEND LS8102	187.4	.	20.3	57.8	20100	0
G. HARVEST H-2404	186.4	159.5	20.6	59.9	20100	1
MYCOGEN 5480	183.7	157.1	21.7	56.9	20100	1
TOP FARM SX2104	183.4	.	21.1	56.6	20100	0
LEGEND LS8406	182.9	159.4	21.1	57.0	20323	2
PIONEER 3563	182.4	.	20.1	61.2	20100	0
CIBA 4303	182.1	.	20.9	60.4	20100	1
KELTGEN 2550	180.8	.	20.2	55.9	20100	1
CENEX/LOL 5073	176.4	.	21.6	54.9	20100	1
MYCOGEN 5150CB	169.8	.	19.3	57.5	20100	0
LEGEND LS8205	162.8	.	22.4	56.5	20100	1
CIBA 4372	152.9	135.0	21.8	58.0	19988	1
KAYSTAR KX-667	149.5	143.1	21.5	56.7	20212	0
LEGEND LS8407	144.6	.	21.6	57.8	20212	1
TEST AVERAGE:	187.2	160.4	21.3	57.3	20128	1
TEST LSD (5%) VALUE:	23.6	*NS	1.0	2.6	NS	NS
MINIMUM BEST VALUE:	200.6			58.7		
MAXIMUM BEST VALUE:			20.2			
TEST C.V.#:	7.7	7.3				

*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. 1994 corn hybrid performance trial results:
Brookings, SDSU Agronomy Farm, early maturity (100 days or less).

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST. (BU/AC) 1994	2-YR	1994 HARVEST MOIST. (%)	BUSHEL WEIGHT (LB)	FINAL POP. PER ACRE	STALKS LODGED (%)
N. KING N-4242	99.7	93.1	18.4	58.8	21998	2
G. HARVEST H-2382	96.6	.	19.4	61.0	21775	1
CROW'S 204	96.1	.	19.6	58.6	21998	0
DEKALB DK 493	94.8	.	17.5	56.5	21998	3
CENEX/LOL 491	94.7	.	18.5	57.6	22110	1
N. KING N-3030	94.5	.	16.7	60.0	22110	1
SANDS SOI9991	93.6	89.4	18.7	58.0	22110	1
ICI 8746	91.7	.	17.9	58.9	22110	0
DYNA-GRO 5100	90.8	84.8	18.9	57.7	22110	1
KELTGEN 2392	90.7	.	18.2	57.9	22110	0
KRUGER K9501	90.1	.	19.2	57.0	21887	1
DAIRYLAND ST-1202	89.6	85.2	18.3	57.3	21887	1
MYCOGEN 3440	88.9	.	16.7	57.2	21998	1
STINE 993	88.1	.	17.5	58.2	22110	0
PIONEER 3861	88.1	.	17.3	59.8	21887	3
CENEX/LOL 492	88.1	.	20.3	60.6	22110	0
CIBA 4273	87.8	81.6	18.5	59.6	21998	4
PAYCO 531	87.5	84.6	19.0	57.8	22110	1
CENEX/LOL 424	87.5	82.0	17.5	55.8	21887	1
---- HYBRIDS APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD-GROUP FOR 1994 ----						
PIONEER 3769	86.8	88.0	18.0	58.6	22110	2
DAIRYLAND ST-1198	86.5	82.0	17.7	57.2	22110	2
ICI 8751	85.1	.	15.8	58.0	21887	1
DEKALB DK 442	85.0	.	16.7	58.0	21775	2
KRUGER K9302	84.6	.	18.4	57.4	21887	0
SEXAUER SX540	84.4	.	18.6	58.7	22110	1
DEKALB DK 471	84.4	81.1	16.8	56.8	22110	3
KRUGER K9402	83.1	.	18.7	60.3	22222	1
DAIRYLAND ST-1200	82.7	.	18.6	59.5	22110	3
EPLEY EX 150	81.8	.	18.6	60.6	22110	1
CIBA 4214	81.8	.	16.7	60.2	21998	2
DYNA-GRO 15099	81.6	.	18.5	59.5	22110	1
MYCOGEN 3560	81.3	.	18.0	61.2	21887	1
AGRIPRO AP162	81.3	.	16.6	58.4	21998	1
SEXAUER SX510	81.2	78.2	17.0	58.4	22110	0
G. HARVEST H-2292	80.5	.	16.5	57.8	21998	1
TOP FARM SX2195	80.4	78.4	17.6	60.6	22222	1
CARGILL 3777	80.2	.	17.0	61.3	21998	0
TOP FARM SX1193	79.8	78.6	17.3	59.9	22110	1
TERRA TR1014	79.6	.	18.9	59.9	22110	1

Table 8 (continued). SDSU Agronomy Farm, early maturity (100 days or less).

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST. 1994 (BU/AC)	YIELDS AT 15.5% MOIST. 2-YR (BU/AC)	1994 HARVEST MOIST. (%)	BUSHEL WEIGHT (LB)	FINAL POP. PER ACRE	STALKS LODGED (%)
CARGILL 2497	79.2	.	17.2	58.5	22110	1
CROW'S 180	79.2	.	17.3	56.2	22222	2
MYCOGEN 4970	79.0	.	18.7	59.0	22110	1
PIONEER 3733	78.9	.	19.1	60.8	22110	2
SANDS SOI9944	78.4	.	15.7	62.3	22110	2
CURRY 2104	77.7	.	16.8	61.3	21998	1
KRUGER K9501A	77.5	.	18.6	58.4	21998	3
MYCOGEN 5270	77.0	.	18.5	59.2	22110	2
DOMESTIC DX522	76.3	.	19.2	58.7	22222	3
DEKALB DK 401	76.2	77.3	15.8	59.1	21998	2
CENEX/LOL 5954	75.7	.	17.4	59.3	21998	4
CROW'S 170	75.1	.	16.2	59.0	21998	0
TOP FARM SX2194	73.6	.	16.3	61.7	22110	1
ASGROW RX502	73.5	.	18.3	58.5	21887	1
PAYCO 614	71.2	.	18.2	58.0	22110	2
TERRA TR981	65.2	.	19.2	60.3	22222	1
TEST AVERAGE:	83.7	83.2	17.9	58.9	22047	1
TEST LSD (5%) VALUE:	12.8	7.6	1.6	1.8	*NS	NS
MINIMUM BEST VALUE:	87.0	85.6		60.6		
MAXIMUM BEST VALUE:			17.2			
TEST C.V.#:	9.4	9.5				

*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. 1994 corn hybrid performance trial results:
Brookings, SDSU Agronomy Farm, late maturity (101 days or more).

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST. (BU/AC) 1994	2-YR	1994 HARVEST MOIST. (%)	BUSHEL WEIGHT (LB)	FINAL POP. PER ACRE	STALKS LODGED (%)
PIONEER 3556	105.7	.	19.4	60.4	22110	1
G. HARVEST H-2390	96.1	88.6	18.6	56.8	22110	0
CARGILL 4327	96.0	87.4	19.5	57.1	22222	0
CARGILL 4277	95.9	85.6	19.0	56.9	21887	0
KRUGER K9509	93.9	.	22.4	57.8	22110	0
---- HYBRIDS APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD-GROUP FOR 1994 ----						
SANDS SOI9073	92.8	.	21.1	56.3	22110	1
KELTGEN 2550	92.6	.	18.1	56.0	22110	0
TOP FARM SX2104	92.1	.	21.4	56.8	22110	0
PIONEER 3563	91.6	81.4	19.1	58.8	22110	1
DEKALB DK 527	90.7	.	18.8	57.7	22110	1
STINE 1033	90.4	83.8	18.7	56.0	22110	0
CROW'S 370	89.9	.	20.8	57.3	22222	1
CIBA 4303	88.5	80.8	20.1	59.6	22110	1
CARGILL 5677	87.8	.	20.5	58.1	22110	1
N. KING N-5220	87.5	.	19.2	59.7	22110	0
PIONEER 3531	87.4	.	18.5	57.8	22110	1
KRUGER K9407	86.5	83.3	20.2	56.9	22110	2
MYCOGEN 5480	86.5	82.3	20.7	58.2	22110	0
CROW'S 414	86.5	83.1	20.0	56.3	22110	0
SANDS SOI9031	85.0	.	18.7	56.8	22110	1
KRUGER K9507PT	85.0	.	19.3	59.3	22110	0
KRUGER K9508	84.7	.	19.4	57.6	22110	0
DOMESTIC DX602	84.7	.	21.0	55.1	22110	0
G. HARVEST H-2408	84.6	.	19.5	59.4	22110	0
KRUGER K9007	84.4	78.9	21.0	57.3	22110	3
CROW'S 375	84.2	.	21.3	58.3	22110	0
G. HARVEST H-2404	83.9	83.6	19.3	59.0	22110	0
TERRA TR1031	83.6	.	17.4	55.9	22110	1
TERRA TR1070	82.4	.	20.4	56.9	22222	0
EPLEY EX 1450	81.5	.	18.2	57.5	22110	1
ASGROW RX515	81.1	70.2	18.0	56.4	22110	0
EPLEY EX 1204	79.8	.	18.1	59.9	22110	0
EPLEY EX 2417	79.5	.	20.2	56.0	22110	0
SANDS SOI9040	78.6	.	19.6	59.9	22110	2
EPLEY EX 1208	77.4	70.3	18.4	59.3	22110	0

Table 9 (continued). SDSU Agronomy Farm, late maturity (101 days or more).

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST. 1994 (BU/AC)	YIELDS AT 15.5% MOIST. 2-YR (BU/AC)	1994 HARVEST MOIST. (%)	BUSHEL WEIGHT (LB)	FINAL POP. PER ACRE	STALKS LODGED (%)
TERRA TR1091	76.7	.	24.0	55.1	22110	0
CURRY 2138	76.3	.	19.4	59.9	22110	1
DEKALB DK 512	74.6	78.2	17.2	55.9	22110	3
KRUGER K9607	74.0	.	20.2	58.3	22110	0
MYCOGEN 5150CB	72.6	.	18.4	57.1	22110	3
CURRY 2110	71.5	.	17.5	58.3	22222	1
TEST AVERAGE:	85.5	81.3	19.6	57.6	22115	1
TEST LSD (5%) VALUE:	12.9	*NS	1.3	1.5	*NS	NS
MINIMUM BEST VALUE:	92.9			59.0		
MAXIMUM BEST VALUE:			19.7			
TEST C.V.#:	9.3	9.4				

*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. 1994 corn hybrid performance trial results:
Dell Rapids, Kevin Crisp farm, early maturity (105 days or less).

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST. (BU/AC) 1994	2-YR	1994 HARVEST MOIST. (%)	BUSHEL WEIGHT (LB)	FINAL POP. PER ACRE	STALKS LODGED (%)
KRUGER K9607	213.1	.	21.6	58.0	22557	0
CARGILL 4327	210.5	.	20.1	57.4	22780	0
CARGILL 5677	209.6	.	20.2	54.5	22780	0
DEKALB DK 512	204.6	162.0	19.0	55.9	22780	0
PIONEER 3531	202.6	.	19.7	57.3	22892	0
DEKALB DK 471	202.4	.	17.8	58.4	22780	0
KRUGER K9507PT	199.9	.	21.2	57.8	22780	1
CARGILL 4277	198.7	.	19.4	56.0	22780	0
ASGROW RX510	197.3	163.4	19.8	56.6	22780	0
TOP FARM SX2103	196.7	.	19.3	58.4	22780	0
N. KING N-4342WX	196.1	.	17.2	59.6	22668	0
---- HYBRIDS APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD-GROUP FOR 1994 ----						
KRUGER K9501	193.9	.	18.8	57.5	22780	0
DOMESTIC DX602	193.5	.	20.1	56.2	22668	0
G. HARVEST H-2390	191.7	159.4	19.2	58.2	22780	0
ASGROW RX515	191.1	157.2	19.5	56.5	22780	0
CROW'S 370	190.9	.	19.5	57.3	22780	0
CIBA 4372	190.5	155.3	20.3	59.8	22780	1
DAIRYLAND ST-1203	189.8	.	22.0	55.9	22780	0
KRUGER K9407	189.2	.	20.5	57.4	22668	1
DEKALB DK 462	189.0	156.9	18.2	56.0	22780	0
PAYCO 531	188.8	160.8	18.4	56.8	22780	0
ICI 8612	188.6	.	19.7	56.5	22780	0
CROW'S 375	188.3	.	20.3	56.3	22780	0
N. KING N-4242	187.7	148.3	17.9	58.3	22780	0
PIONEER 3563	187.6	144.2	18.4	60.2	22780	0
KRUGER K9203	186.9	.	18.5	56.9	22780	0
ASGROW RX623	186.8	160.1	21.3	57.1	22780	0
TOP FARM SX2104	186.2	.	20.9	56.7	22892	0
DEKALB DK 527	185.2	.	19.4	59.3	22780	0
SEXAUER SX540	185.1	.	19.2	58.7	22780	1
SANDS SOI9053	185.0	.	20.5	58.0	22780	0
ASGROW RX502	184.6	.	19.5	58.1	22780	0
TOP FARM SX1104A	184.3	150.3	20.0	57.3	22780	1
KRUGER K9302	184.2	.	18.3	56.9	22780	0
SEXAUER SX510	183.9	.	17.8	58.9	22780	0
PAYCO 633	183.0	157.1	20.6	56.4	22780	0

Table 10 (continued). Kevin Crisp farm, early maturity (105 days or less).

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST. 1994 (BU/AC)	YIELDS AT 15.5% MOIST. 2-YR (BU/AC)	1994 HARVEST MOIST. (%)	BUSHEL WEIGHT (LB)	FINAL POP. PER ACRE	STALKS LODGED (%)
MYCOGEN 5270	182.8	.	18.0	60.0	22892	0
MW GENETIC G7150	182.5	.	18.6	59.3	22780	0
ICI 8704	182.4	158.1	20.5	57.6	22780	0
MYCOGEN 5150CB	182.3	.	19.2	57.8	22780	1
KRUGER K9501A	182.2	.	18.1	59.0	22780	0
PIONEER 3733	182.1	.	19.5	59.8	22780	0
PIONEER 3556	181.9	.	19.8	60.4	22668	0
MYCOGEN 5480	180.3	.	20.5	58.9	22780	0
CURRY 2110	178.8	.	18.0	58.3	22780	0
SANDS SOI9031	176.6	142.2	18.9	60.6	22780	0
SANDS SOI9040	176.0	.	18.8	60.3	22668	0
CIBA 4303	175.9	.	19.5	59.8	22780	0
PAYCO 614	174.8	.	18.0	60.2	22668	0
STINE 1033	174.4	.	18.9	59.1	22557	0
G. HARVEST H-2404	174.2	146.5	18.8	59.0	22780	0
HORIZON BT1000	173.3	.	18.3	56.8	22668	0
MYCOGEN 4970	172.5	.	18.1	58.2	22780	2
G. HARVEST H-2382	171.1	.	19.3	57.5	22780	0
CURRY 2104	169.4	.	17.3	60.9	22668	0
MYCOGEN 3560	166.1	.	17.9	63.0	22780	1
CARGILL 3777	152.9	141.7	17.9	61.8	22445	0
TEST AVERAGE:	186.3	153.9	19.3	58.2	22756	0
TEST LSD (5%) VALUE:	17.2	*NS	0.9	2.8	NS	NS
MINIMUM BEST VALUE:	196.0			60.3		
MAXIMUM BEST VALUE:			18.2			
TEST C.V.#:	5.7	6.8				

*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. 1994 corn hybrid performance trial results:
Dell Rapids, Kevin Crisp farm, late maturity (106 days or more).

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST. (BU/AC) 1994	2-YR	1994 HARVEST MOIST. (%)	BUSHEL WEIGHT (LB)	FINAL POP. PER ACRE	STALKS LODGED (%)
DEKALB DK 569	217.2	174.4	21.3	59.1	22780	0
PIONEER 3489	214.2	.	22.1	59.7	22780	0
CROW'S 490	206.3	.	26.3	55.2	22780	0
PAYCO 734	203.9	.	20.9	58.1	22892	0
DEKALB DK 560	200.2	.	21.1	60.2	22780	0
CURRY 2152	198.9	.	21.1	58.4	22780	0
---- HYBRIDS APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD-GROUP FOR 1994 ----						
PIONEER 3514	197.1	165.5	21.8	60.9	22668	0
N. KING N-5220	197.0	160.5	20.9	61.7	22780	1
CARGILL 6303	196.8	.	22.2	58.7	22780	0
G. HARVEST H-2441	195.4	.	21.7	58.7	22780	1
KRUGER K9511	194.4	.	22.7	59.7	22780	0
SANDS SOI9073	194.1	.	21.6	59.5	22780	0
SANDS SOI9061	194.0	164.3	19.9	60.2	22780	0
CIBA 4494	194.0	156.0	23.1	58.0	22780	0
KRUGER K9509	192.8	.	20.0	62.0	22892	0
ASGROW RX699	192.8	.	21.8	60.7	22780	0
MYCOGEN 6970	192.7	.	23.3	60.0	22780	0
HORIZON 6575	191.5	.	21.6	60.7	22780	0
PAYCO 814	191.4	.	23.1	57.6	22780	0
PAYCO 754	191.1	.	23.9	57.0	22780	1
CENEX/LOL 618	190.5	.	20.5	61.7	22668	0
DAIRYLAND ST-1108	188.6	.	21.7	60.0	22668	0
ASGROW RX644	187.2	.	23.3	59.8	22780	0
CURRY 2147	185.0	.	20.8	59.6	22780	0
TOP FARM SX1107	184.2	151.9	21.5	58.7	22780	0
CENEX/LOL 5073	182.0	.	22.9	60.6	22780	1
KRUGER K9508	177.8	.	21.2	61.4	22780	0
CURRY 2138	175.9	.	18.8	61.7	22780	0
MW GENETIC G7460	174.4	.	21.7	60.2	22557	2
DOMESTIC DX790	171.6	.	21.4	61.6	22780	0
TEST AVERAGE:	192.4	162.1	21.8	59.7	22769	0
TEST LSD (5%) VALUE:	19.2	*NS	1.3	2.2	NS	NS
MINIMUM BEST VALUE:	198.1			59.8		
MAXIMUM BEST VALUE:			20.0			
TEST C.V.#:	6.1	5.4				

*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. 1994 corn hybrid performance trial results (irrigated, no-till): Pierre, Dakota Lakes Research Farm, early maturity (100 days or less).

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST. 1994 (BU/AC)	YIELDS AT 15.5% MOIST. 2-YR (BU/AC)	1994 HARVEST MOIST. (%)	BUSHEL WEIGHT (LB)	FINAL POP. PER ACRE	STALKS LODGED (%)
PAYCO 531	172.3	163.0	15.9	59.9	31267	5
DEKALB DK 493	162.9	157.4	14.9	59.7	33277	6
G. HARVEST H-2407	162.3	158.2	14.4	56.4	31490	5
MYCOGEN 4970	160.7	.	16.3	60.9	30262	8
ASGROW RX502	159.2	.	16.5	60.9	32942	3
ICI 8746	158.9	.	15.9	59.0	30262	2
CENEX/LOL 492	156.7	.	18.9	59.2	29480	3
ASGROW RX510	156.4	.	16.6	58.1	33165	3
---- HYBRIDS APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD-GROUP FOR 1994 ----						
WILSON 1140	152.5	153.0	16.0	59.8	31490	4
PIONEER 3733	151.2	.	15.7	63.0	28475	9
DEKALB DK 462	148.2	154.0	15.6	57.2	31825	2
SEXAUER SX540	148.0	.	16.2	58.8	29592	7
DYNA-GRO 5100	147.7	154.1	16.6	60.0	28698	4
CENEX/LOL 424	143.7	.	14.9	56.9	32048	2
G. HARVEST H-2382	143.6	.	16.3	62.2	26912	2
CENEX/LOL 491	143.3	.	16.5	59.5	27917	4
N. KING N-4242	140.3	148.2	14.6	60.9	29257	4
CENEX/LOL 429	138.8	.	16.5	61.3	29927	4
LEGEND LS7599	138.2	.	16.0	60.2	26353	3
DAIRYLAND ST-1202	137.9	148.6	16.5	60.5	25237	2
CIBA 4273	137.4	144.6	16.0	60.2	27470	3
DYNA-GRO 15099	135.3	.	16.3	60.6	29145	13
SANDS SOI9991	133.5	.	16.0	58.7	22780	8
CARGILL 2927	133.3	.	14.4	60.2	30932	8
CARGILL 2497	131.2	.	14.4	60.9	31937	3
CURRY 2104	129.3	.	15.1	61.9	26018	5
PAYCO 614	128.6	.	15.3	60.4	21217	3
CIBA 4214	127.1	.	15.4	60.9	32383	4

Table 12 (continued). Dakota Lakes Research Farm, early maturity (100 days or less).

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST. 1994 (BU/AC)	YIELDS AT 15.5% MOIST. 2-YR (BU/AC)	1994 HARVEST MOIST. (%)	BUSHEL WEIGHT (LB)	FINAL POP. PER ACRE	STALKS LODGED (%)
LEGEND LS7196	125.3	131.3	14.8	57.5	31043	3
SANDS SOI9980	123.4	.	15.4	61.5	24790	16
DAIRYLAND ST-1400	117.5	.	15.3	59.8	21440	5
MYCOGEN 3440	114.1	.	14.5	59.2	21105	2
PIONEER 3769	111.6	.	14.8	60.2	25795	5
DYNA-GRO 15095	99.9	.	14.8	59.5	18760	0
MYCOGEN 3560	99.8	.	15.5	61.6	17532	6
TEST AVERAGE:	139.1	151.2	15.7	59.9	28063	5
TEST LSD (5%) VALUE:	19.4	*NS	0.8	2.1	5019	5
MINIMUM BEST VALUE:	153.0			61.0		
MAXIMUM BEST VALUE:			15.1			1
TEST C.V.#:	8.4	6.7				

*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 13. 1994 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. (BU/AC) 1994	2-YR	1994 HARVEST MOIST. (%)	BUSHEL WEIGHT (LB)	FINAL POP. PER ACRE	STALKS LODGED (%)
PIONEER 3489	167.3	.	17.4	60.5	32942	5
G. HARVEST H-2493	162.1	161.8	20.2	57.1	34840	3
KAYSTAR X-777	158.3	.	21.7	56.8	32383	2
CARGILL 7697	158.3	168.9	21.2	59.4	35175	3
KAYSTAR X-760	157.8	.	19.3	59.6	28140	1
WILSON 1371	157.2	.	17.6	56.0	31602	2
PIONEER 3514	155.4	159.6	19.6	61.3	32272	2
CARGILL 6303	155.0	.	18.0	59.8	34840	4
DEKALB DK 580	152.2	158.0	17.1	59.9	33723	3
PIONEER 3394	151.8	153.3	18.2	59.6	34952	3
G. HARVEST H-2390	151.1	.	15.9	60.9	32495	2
PAYCO 633	150.0	151.0	16.7	60.8	35063	2
DEKALB DK 560	147.5	.	18.4	60.8	33165	3
LEGEND LS9112	145.9	154.4	20.5	59.1	24008	4
ICI 8704	144.9	.	16.8	60.7	33723	1
SEXAUER SX675	144.8	.	17.6	59.9	32830	2
CURRY 2170	144.7	.	18.6	61.1	32383	1
---- HYBRIDS APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD-GROUP FOR 1994 ----						
SANDS SOI9061	144.5	.	16.9	60.0	33723	2
LEGEND LS8301	142.3	.	16.1	61.6	33500	2
G. HARVEST H-2441	141.8	.	16.3	59.6	34282	10
CURRY 2138	140.5	.	16.3	61.5	31713	3
CIBA 4394	139.6	147.9	18.5	60.1	32160	1
CIBA 4372	138.1	151.2	17.1	61.6	32830	2
ICI 8692	137.6	.	17.5	62.0	27358	3
CURRY 2152	137.3	.	17.9	59.0	30708	2
N. KING N-6560	137.0	.	20.9	59.3	25348	3
WILSON 1581	136.1	.	18.8	58.8	33388	3
CARGILL 5677	133.9	.	17.4	59.2	33388	5
CARGILL 7777	133.8	.	22.0	58.0	33947	3
PIONEER 3531	133.7	.	16.6	60.9	30373	2
SANDS SOI9073	133.4	.	16.9	59.5	32942	4
DAIRYLAND ST-1108	132.4	.	16.4	59.2	25795	1
PAYCO 734	131.5	.	18.4	57.6	28587	4
ASGROW RX515	131.3	134.6	16.9	59.1	33723	1
LEGEND LS8102	130.7	.	16.6	61.9	28810	5
LEGEND LS8205	129.3	145.1	17.9	60.9	29145	4
MYCOGEN 5480	129.3	.	18.1	61.5	24343	3

Table 13 (continued). Dakota Lakes Research Farm, late maturity (101 days or more).

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST. 1994 (BU/AC)	YIELDS AT 15.5% MOIST. 2-YR (BU/AC)	1994 HARVEST MOIST. (%)	BUSHEL WEIGHT (LB)	FINAL POP. PER ACRE	STALKS LODGED (%)
MYCOGEN 5150CB	128.3	.	16.1	62.5	27805	6
DEKALB DK 527	126.7	.	16.5	59.0	26577	7
N. KING N-5220	126.6	137.5	16.1	63.9	28810	4
DEKALB DK 512	123.2	.	15.1	58.4	32495	5
G. HARVEST H-2404	122.2	134.4	17.0	62.3	34393	5
MYCOGEN 6970	119.8	136.7	18.9	59.0	33835	3
LEGEND LS8409	114.9	.	19.6	58.5	26465	2
LEGEND LS8407	109.8	.	18.2	59.3	25013	6
KAYSTAR KX-909	48.4	.	22.1	55.8	6923	0
TEST AVERAGE:	137.8	149.6	18.0	59.9	30716	3
TEST LSD (5%) VALUE:	22.7	17.0	1.0	1.7	5226	3
MINIMUM BEST VALUE:	144.7	152.0		62.3		
MAXIMUM BEST VALUE:			16.0			2
TEST C.V.#:	10.2	7.1				

*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 14. 1994 corn hybrid performance trial results:
Armour, Robert Clark farm, early maturity (108 days or less).

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST. (BU/AC) 1994	2-YR	1994 HARVEST MOIST. (%)	BUSHEL WEIGHT (LB)	FINAL POP. PER ACRE	STALKS LODGED (%)
CARGILL 5677	170.5	.	19.5	61.9	20212	1
DEKALB DK 569	167.8	170.0	19.5	60.2	19988	2
DEKALB DK 566	164.3	.	18.1	60.1	20100	1
DEKALB DK 580	162.3	.	19.9	59.3	20100	1
ASGROW RX623	162.2	164.0	19.4	61.7	20100	1
KRUGER K9507PT	161.0	.	20.2	63.2	20100	1
SANDS SOI9061	158.8	157.2	20.0	61.3	20100	1
CARGILL 4327	158.4	159.7	20.5	61.7	20212	1
SANDS SOI9053	157.3	.	20.4	61.4	20100	1
CARGILL 5547	156.8	.	21.2	59.9	20100	1
SANDS SOI9100	156.1	.	21.3	61.2	20100	1
N. KING N-4242	155.3	.	17.5	63.0	20212	1
---- HYBRIDS APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD-GROUP FOR 1994 ----						
PIONEER 3489	154.2	.	19.5	63.7	20323	1
KRUGER K9607	154.2	.	20.8	62.1	20100	2
DEKALB DK 512	153.3	154.4	18.1	59.8	20100	2
PIONEER 3556	151.7	.	18.9	63.3	20100	1
PAYCO 734	151.5	.	19.5	61.5	20100	1
KRUGER K9007	149.9	.	18.8	63.0	20212	1
CENEX/LOL 618	149.8	.	20.3	62.8	20100	0
CROW'S 375	149.6	151.4	19.5	63.1	19988	1
WILSON 1371	149.4	.	19.2	59.7	20100	0
DAIRYLAND ST-1407	148.9	.	19.2	59.9	20100	0
HOEGEMEYER 2592	147.5	143.3	19.1	59.9	20100	1
TOP FARM SX1107	147.3	145.2	20.6	59.9	20212	1
ICI 8692	146.8	144.6	19.0	64.7	20100	1
PIONEER 3563	146.5	.	19.4	63.0	20212	1
HOEGEMEYER 2575	146.0	.	18.6	60.5	20100	1
EPLEY EX 2417	145.7	.	19.7	60.4	20100	1
KRUGER K9407	145.1	139.6	19.8	60.7	20100	1
HOEGEMEYER 2563	144.7	.	18.8	62.9	20212	2
SEXAUER SX730	144.6	.	18.9	61.4	20100	1
WILSON 1581	143.8	.	21.7	58.4	19988	1
CROW'S 440	143.5	145.7	20.3	60.8	20100	0
G. HARVEST H-2441	142.6	.	18.2	59.3	19988	1
PIONEER 3733	142.4	.	18.3	63.9	20100	0
SANDS SOI9073	142.1	.	19.3	61.2	19988	0
CIBA 4303	141.3	149.4	19.7	62.6	20100	1

Table 14 (continued). Robert Clark farm, early maturity (108 days or less).

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST. (BU/AC) 1994	2-YR	1994 HARVEST MOIST. (%)	BUSHEL WEIGHT (LB)	FINAL POP. PER ACRE	STALKS LODGED (%)
KRUGER K9509	141.2	.	19.7	63.0	20212	1
DAIRYLAND ST-1108	141.1	.	19.6	59.2	20212	0
CROW'S 370	140.4	.	18.8	59.9	20212	0
STINE 1080	139.9	.	19.6	63.1	20100	2
TOP FARM SX1104A	139.7	140.9	19.4	62.1	20100	3
SANDS SOI9081	139.7	.	21.5	61.7	20100	0
KRUGER K9508	137.6	.	20.4	61.8	20100	0
ICI 8704	137.2	147.1	20.3	59.8	20100	1
MYCOGEN 5150CB	135.6	.	18.7	63.0	20212	1
TOP FARM SX2104	133.6	.	19.6	59.6	20100	0
WILSON 1140	133.2	133.6	18.5	60.7	20100	1
CIBA 4214	132.3	.	18.1	62.4	20212	1
G. HARVEST H-2408	132.2	.	18.7	63.3	20100	0
EPLEY EX 1204	131.4	.	18.6	62.5	20100	2
KAYSTAR KX-667	131.2	.	18.7	61.0	20100	1
G. HARVEST H-2382	129.7	.	18.4	62.6	20212	1
SEXAUER SX645	116.4	.	17.9	63.2	20100	0
TEST AVERAGE:	146.4	149.7	19.4	61.5	20121	1
TEST LSD (5%) VALUE:	15.2	12.3	1.2	2.2	*NS	NS
MINIMUM BEST VALUE:	155.3	157.8		62.5		
MAXIMUM BEST VALUE:			18.6			
TEST C.V.#:	6.4	7.2				

*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. 1994 corn hybrid performance trial results:
Armour, Robert Clark farm, late maturity (109 days or more).

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST. 1994 (BU/AC)	YIELDS AT 15.5% MOIST. 2-YR (BU/AC)	1994 HARVEST MOIST. (%)	BUSHEL WEIGHT (LB)	FINAL POP. PER ACRE	STALKS LODGED (%)
CARGILL 7777	156.6	.	22.7	59.4	20100	1
KRUGER K9513	147.0	.	21.6	58.4	19988	1
PIONEER 3357	146.2	149.3	21.6	60.5	20212	0
CIBA 4494	144.8	146.7	21.8	60.3	20100	0
PAYCO 754	144.3	.	21.1	59.2	20100	1
ASGROW RX707	142.7	.	22.3	58.4	20100	0
---- HYBRIDS APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD-GROUP FOR 1994 ----						
CARGILL 7557	142.3	.	22.8	61.1	20100	1
KRUGER K9315B	142.2	151.9	22.5	58.9	20100	1
KRUGER K9315B/PT	141.7	.	22.9	58.6	20100	2
CARGILL 7697	140.5	152.3	23.3	59.0	20100	1
ASGROW RX644	139.9	.	21.4	60.7	20100	0
CENEX/LOL 599	137.6	.	21.3	59.0	20212	0
KRUGER K9415	136.1	151.4	24.0	56.4	20100	0
KRUGER K9415A	135.8	.	21.2	60.1	19988	1
CROW'S 490	134.1	.	24.7	55.2	20100	1
ASGROW RX699	133.8	.	20.6	61.4	20100	0
KRUGER K9511	132.3	148.7	21.1	58.2	20212	0
HOEGEMEYER 2615	132.0	.	20.4	62.5	20100	0
HOEGEMEYER 2641	131.5	143.6	21.1	60.7	20100	2
KRUGER K9311	130.4	.	22.0	61.0	20100	0
EPLEY EX 3482	129.7	.	20.8	58.9	20100	1
MYCOGEN 6220	122.6	.	21.9	58.0	20100	1
PAYCO 814	122.3	.	22.7	58.1	20100	0
PIONEER 3394	121.8	.	20.5	61.4	20100	2
TOP FARM SX2108	120.2	.	22.0	59.0	20100	1
KRUGER K9512B	111.6	.	22.4	61.1	20100	1
TEST AVERAGE:	135.4	149.1	22.0	59.4	20104	1
TEST LSD (5%) VALUE:	14.2	*NS	1.1	2.2	NS	NS
MINIMUM BEST VALUE:	142.5			60.4		
MAXIMUM BEST VALUE:			21.4			
TEST C.V.#:	6.4	4.3				

*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. 1994 corn hybrid performance trial results:
Beresford, SE Research Farm, early maturity (110 days or less).

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST. 1994 (BU/AC)	YIELDS AT 15.5% MOIST. 2-YR (BU/AC)	1994 HARVEST MOIST. (%)	BUSHEL WEIGHT (LB)	FINAL POP. PER ACRE	STALKS LODGED (%)
PIONEER 3489	205.2	.	18.6	60.4	24232	3
TERRA TR1091	200.2	.	19.5	57.3	24120	1
CIBA 4394	200.0	168.5	18.1	63.8	24008	0
SEXAUER SX675	194.7	.	17.6	59.3	24232	0
DEKALB DK 580	194.3	.	18.2	59.6	24120	0
PIONEER 3394	193.6	.	19.1	62.0	24008	1
CARGILL 5547	193.2	.	17.6	61.1	24120	0
ASGROW RX699	192.9	.	18.8	62.3	24120	2
WILSON 1371	192.2	.	18.4	60.7	23897	0
LEGEND LS8409	192.1	161.9	17.9	61.6	24120	0
DEKALB DK 512	191.1	161.3	17.3	60.1	24120	0
TOP FARM SX2108	190.8	.	19.9	58.3	24120	0
PIONEER 3563	190.6	.	18.6	62.3	24008	1
KRUGER K9607	190.6	.	18.4	62.2	24120	0
DEKALB DK 560	190.0	.	18.6	59.5	24232	1
CENEX/LOL 599	189.7	.	18.7	61.1	23897	1
SANDS SOI9061	189.5	165.9	17.2	61.0	24120	0
---- HYBRIDS APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD-GROUP FOR 1994 ----						
MW GENETIC X41080	188.7	.	17.8	64.6	24120	1
EPLEY EX 3600	188.3	161.1	18.6	58.7	24008	1
CARGILL 6303	188.1	.	18.4	59.7	24120	0
CROW'S 440	187.9	163.3	18.2	62.6	24120	0
ASGROW RX707	187.9	161.6	17.8	60.3	24008	3
RENZE 6246	187.8	.	17.4	60.8	24008	0
CIBA 4494	187.7	.	19.6	62.9	24120	0
KRUGER K9507PT	187.2	.	18.2	62.1	24120	1
MYCOGEN 6220	186.8	162.5	18.8	61.5	24232	1
CURRY 2152	186.7	.	17.6	59.4	24232	0
AGRIPRO AP429	186.6	160.3	17.6	60.7	24343	0
DEKALB DK 566	186.3	.	17.0	58.7	24232	0
CIBA 4372	186.2	158.6	18.0	63.0	24120	0
PAYCO 754	186.0	.	18.0	59.9	23673	0
LEGEND LS8205	185.8	160.6	18.0	62.0	24008	0
RENZE 6221	185.7	.	17.6	61.7	24120	1
AGRIPRO AP453	185.6	.	17.6	57.4	24232	0
EPLEY EX 3480	185.2	.	18.3	62.0	24232	1
PAYCO 734	185.1	.	18.1	58.4	24008	0
ASGROW RX623	184.6	163.3	17.1	62.0	24120	1

Table 16 (continued). SE Research Farm, early maturity (110 days or less).

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST. 1994 (BU/AC)	YIELDS AT 15.5% MOIST. 2-YR (BU/AC)	1994 HARVEST MOIST. (%)	BUSHEL WEIGHT (LB)	FINAL POP. PER ACRE	STALKS LODGED (%)
FONTANELLE X1005	183.9	.	17.5	60.3	24343	0
SEXAUER SX730	183.7	.	18.3	61.5	24120	0
CARGILL 5677	183.3	.	18.3	61.8	24120	1
HORIZON 6575	183.1	158.4	18.4	61.7	23897	0
ASGROW RX644	182.4	.	19.4	61.7	24120	2
KRUGER K9407	182.3	163.3	17.7	61.3	24120	0
KRUGER K9512B	182.0	.	19.4	62.4	24120	1
PIONEER 3514	181.5	158.3	18.4	63.5	23338	1
CROW'S 370	181.1	.	17.9	61.1	24120	0
HOEGEMEYER 2615	181.1	.	17.9	64.6	24120	0
N. KING N-5220	181.0	154.9	17.3	62.8	24120	1
KALTENBERG K6909	180.5	.	20.2	58.5	23003	0
STINE 1076	180.5	.	18.6	59.0	24008	1
KRUGER K9511	180.4	.	19.0	61.4	24120	0
RENZE 6315	180.1	.	17.9	64.0	24120	2
SANDS SOI9073	180.0	.	17.7	61.1	23897	1
CROW'S 375	180.0	161.9	17.9	62.4	24008	0
TOP FARM SX1107	179.9	158.2	18.9	60.5	24120	1
FONTANELLE 4194	179.9	.	17.4	60.7	24120	0
KRUGER K9509	179.6	.	18.0	62.3	23897	1
CENEX/LOL 618	179.1	.	17.9	62.8	24120	0
TOP FARM SX2104	178.7	.	17.8	60.6	24120	1
DAIRYLAND ST-1209	178.0	.	18.4	61.8	24120	1
KALTENBERG K5901	177.1	154.8	17.4	60.9	23785	0
MW GENETIC G7750	177.0	.	19.4	61.1	24232	0
HOEGEMEYER 2592	176.4	155.7	17.7	60.7	24120	1
PIONEER 3733	175.8	.	17.5	62.8	23897	2
KRUGER K9007	175.6	.	18.3	62.7	24343	0
LEGEND LS8406	175.2	153.3	17.5	60.0	23673	1
WILSON 1140	175.2	156.3	17.1	63.0	24120	0
HOEGEMEYER 2575	175.1	.	17.3	59.8	24232	0
FONTANELLE 4180	174.8	.	18.0	61.7	23785	0
CURRY 2147	174.5	153.0	18.1	60.8	23785	0
DAIRYLAND ST-1108	174.3	.	18.3	61.1	22333	2
G. HARVEST H-2441	174.1	.	17.0	60.0	23785	0
DEKALB DK 527	173.9	.	16.8	60.7	24008	4
SANDS SOI9100	173.9	.	19.1	63.1	24120	1
SANDS SOI9053	172.7	.	17.9	63.3	24232	0
ICI 8704	171.6	.	18.0	62.9	24120	0
LEGEND LS8407	171.3	.	18.4	61.9	22668	1

Table 16 (continued). SE Research Farm, early maturity (110 days or less).

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST. 1994 (BU/AC)	YIELDS AT 15.5% MOIST. 2-YR (BU/AC)	1994 HARVEST MOIST. (%)	BUSHEL WEIGHT (LB)	FINAL POP. PER ACRE	STALKS LODGED (%)
MW GENETIC G7460	170.7	157.5	17.7	64.0	23338	1
ICI 8612	170.6	.	18.3	61.4	24008	0
HOEGEMEYER 2563	170.3	.	17.1	60.9	24008	0
KRUGER K9512A	170.1	.	18.2	62.2	24120	1
N. KING N-4242	170.1	.	16.8	61.7	24232	4
TERRA TR1031	170.1	.	17.3	59.7	23785	0
FONTANELLE 3992	169.9	.	17.6	62.0	20882	0
EPLEY EX 2417	169.3	157.4	18.2	60.7	22892	1
G. HARVEST H-2404	168.4	155.2	17.2	64.0	24120	1
EPLEY EX 1204	166.8	.	17.3	61.8	24120	0
G. HARVEST H-2408	166.3	.	17.8	65.0	24120	0
WILSON 1581	166.0	.	18.9	61.8	24343	0
G. HARVEST H-2382	165.8	.	17.4	61.7	24008	3
KRUGER K9508	165.4	.	17.5	61.4	24120	0
MYCOGEN 5150CB	165.0	.	17.0	62.9	22333	4
TOP FARM SX1104A	163.4	152.8	17.9	61.7	23450	1
LEGEND LS8102	163.1	.	17.5	62.8	24120	2
STINE 1077	161.8	.	18.0	62.5	23562	3
CURRY 2138	161.5	.	17.3	65.2	24343	1
SANDS SOI9081	161.1	.	19.2	61.4	22110	0
SANDS SOI9031	159.6	145.6	17.4	60.0	23450	1
PIONEER 3556	159.0	.	17.8	63.8	20993	0
PAYCO 614	158.9	.	16.9	62.2	24120	1
LEGEND LS8301	158.0	147.0	17.2	62.8	23897	0
LEGEND LS7196	156.9	.	16.5	60.6	24008	0
TEST AVERAGE:	179.3	158.4	18.0	61.5	23899	1
TEST LSD (5%) VALUE:	15.9	*NS	0.9	3.1	839	NS
MINIMUM BEST VALUE:	189.4			62.2		
MAXIMUM BEST VALUE:			17.3			
TEST C.V.#:	5.5	6.7				

*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 17. 1994 corn hybrid performance trial results: Beresford, SE Research Farm, late maturity (111 days or more).

----- BRAND & HYBRID -----	YIELDS AT 15.5% MOIST. 1994 (BU/AC)	YIELDS AT 15.5% MOIST. 2-YR (BU/AC)	1994 HARVEST MOIST. (%)	BUSHEL WEIGHT (LB)	FINAL POP. PER ACRE	STALKS LODGED (%)
MYCOGEN 7250CB	202.5	.	18.6	62.8	23115	2
MYCOGEN 7460	189.4	.	20.2	64.1	24232	0
KAYSTAR X-777	189.2	.	18.2	62.8	24008	0
PIONEER 3357	188.6	159.4	19.7	65.9	24008	1
HOEGEMEYER 2655	187.6	.	18.5	64.2	24120	0
RENZE 6345	186.2	.	18.4	63.2	24008	1
---- HYBRIDS APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD-GROUP FOR 1994 ----						
TERRA TR1126	185.1	.	18.9	62.6	24120	0
KRUGER K9513	184.4	.	18.1	62.8	24120	0
HOEGEMEYER 2641	184.1	160.8	18.8	65.1	24120	0
KRUGER K9415	182.5	157.5	19.3	63.5	24120	0
RENZE 6395	182.3	.	19.1	64.7	23785	0
KRUGER K9315B	182.1	.	19.0	63.5	23897	1
CARGILL 7777	181.8	.	19.2	64.2	24232	1
TERRA TR1130	181.5	.	21.1	62.5	23785	0
CROW'S 490	180.7	.	20.3	61.8	24120	1
PAYCO 834	179.9	.	18.2	62.5	24008	0
CARGILL 7997	179.6	160.5	20.2	64.5	23785	0
CURRY 2170	178.5	.	18.1	66.1	24120	0
PAYCO 814	178.3	157.5	17.8	64.0	24120	1
HORIZON BT1082	178.1	.	18.4	63.8	24120	0
KRUGER K9516	175.9	.	20.1	64.0	24120	0
MW GENETIC G7786	171.9	155.6	18.7	64.3	23897	0
KALTENBERG K7109	171.5	149.3	17.6	61.9	24120	0
G. HARVEST H-2485	170.4	151.4	17.4	64.1	24120	0
KRUGER K9415A	170.3	.	18.4	65.7	22557	0
N. KING N-6560	167.6	.	18.3	65.9	23450	0
CARGILL 7697	165.7	152.3	19.1	65.0	24008	4
KALTENBERG K7500	165.3	148.2	19.2	65.0	22668	1
KALTENBERG K7505	164.4	149.3	18.3	64.4	24232	0
KAYSTAR KX-909	155.3	.	21.8	60.7	20882	1
SEXAUER SX780	144.5	136.5	19.0	65.2	22445	0
TEST AVERAGE:	177.6	153.2	19.0	63.9	23756	1
TEST LSD (5%) VALUE:	16.4	*NS	0.9	2.2	1255	*NS
MINIMUM BEST VALUE:	186.2			64.0		
MAXIMUM BEST VALUE:			18.2			
TEST C.V.#:	5.7	7.4				

*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.

Entries in the 1994 corn hybrid performance trials.

COMPANY (BRAND)	HYBRID
AGRIPRO	AP162
	AP429
	AP453
ASGROW	RX510
	RX623
	RX707
	RX350
	RX515
	XP4102
	RX502
	RX644
	RX699
CARGILL	4327
	2927
	7697
	7997
	3777
	4277
	2497
	5677
	6303
	7777
	5547
	7557
CENEX/LOL	522
	429
	375
	424
	5862
	351
	5954
	5073
	599
	618
	491
	289
	492
CIBA	4120
	4172
	4144
	4273
	4214
	4372
	4303
	4394
	4494
CROW'S	414
	440
	370
	375
	170
	180
	204
	490
CURRY	2147
	2104
	2110
	2138
	2152
	2170
DAIRYLAND	ST-1198
	ST-1203
	ST-1202
	ST-1284
	ST-1187
	ST-1200
	ST-1400
	ST-1209
	ST-1108
	ST-1407
DEKALB	DK 401
	DK 462
	DK 381
	DK 512
	DK 471
	DK 493
	DK 569
	DK 580
	DK 442
	DK 527
	DK 560
	DK 566
DOMESTIC	DX306
	DX407
	DX522
	DX602
	DX790
DYNA-GRO	5100
	15095
	5243
	15099
EPLEY	EX 1208
	EX 150
	EX 2417
	EX 3600
	EX 1204
	EX 3480
	EX 1450
	EX 3482
FONTANELLE	4180
	4194
	X1005
	3992
G. HARVEST "J.C. ROBINSON SEED COMPANY"	H-2404
	H-2295
	H-2390
	H-2485
	H-2493
	H-2292
	H-2407
	H-2382
	H-2408
	H-2441
HOEGEMEYER	2641
	2592
	2575
	2563
	2615
	2655
HORIZON	6575
	BT1000
	BT1082
ICI	N8910IT
	8612
	8692
	8704
	8746
	8751
KALTENBERG	K7500
	K5200
	K7109
	K5901
	K4400
	K4800
	K4805
	K5305
	K7505
	K3809
	K4709
	K5309
	K6909
KAYSTAR	KX-610
	KX-667
	KX-490
	KX-550
	KX-588
	X-760
	X-777
	KX-909
KELTGEN	2392
	2550
KRUGER	K9007
	K9203
	K9402
	K9315B
	K9407
	K9311
	K9511
	K9415
	K9501
	K9501A
	K9302
	K9507PT
	K9607
	K9508
	K9509
	K9512B
	K9512A
	K9513
	K9415A
	K9315B/PT
	K9516
LEGEND	LS7194
	LS7198
	LS8102
	LS9112
	LS8205
	LS8301
	LS8406
	LS7196
	LS8409
	LS7494
	LS5953
	LS6479
	LS7599
	LS8407
	LS8408
MW GENETICS	G7786
	G7460
	G7150
	X41080
	G7750
MYCOGEN	6970
	3440
	6220
	5480
	2880
	4440
	3560
	4970
	5270
	5150CB
	7460
	7250CB
NORTHRUP KING	N-2933
	N-5220
	N-4242
	N-2555
	N-3030
	N-4342WX
	N-6560

Entries in the 1994 corn hybrid performance trials, continued.

COMPANY (BRAND)	HYBRID	COMPANY (BRAND)	HYBRID	COMPANY (BRAND)	HYBRID
PAYCO	413	SANDS	SOI9040	TERRA	TR981
	444		SOI9100		TR1014
	531		SOI9980		TR1031
	633		SOI9061		TR1070
	614		SOI9081		TR1091
	734		SOI9991		TR1104
	754		SOI9031		TR1126
	814		SOI9073		TR1130
	834		SOI9944		
			SOI9053	TOP FARM	SX1193
PIONEER	3733				SX1097A
	3563	SEXAUER	SX450		SX1104A
	3357		SX540		SX1107
	3861		SX420		SX2195
	3769		SX675		SX2194
	3514		SX780		SX2103
	3394		SX510		SX2104
	3905		SX645		SX2108
	3893		SX730		
	3556			WILSON	1140
	3531	STINE	1033		1371
	3489		1080		1581
			1076		
RENZE	6221		1077		
	6246		951		
	6315		993		
	6345				
	6395				