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

Table 1. Test trial locations, seeding dates, and harvest dates ................................................................. 4
Table 2. Temperature and precipitation data ............................................................................................... 4
Table 3. Soil classification, fertilizer applied, and land preparation ......................................................... 4
Table 4. Watertown, NE Research Farm, early maturity (95 days or less) .................................................. 5-6
Table 5. Watertown, NE Research Farm, late maturity (96 days or more) ................................................... 7
Table 6. No-till: Frankfort, Steve Masat farm, early maturity (100 days or less) ........................................ 8-9
Table 7. No-till: Frankfort, Steve Masat farm, late maturity (101 days or more) ....................................... 10
Table 8. Brookings, SDSU Agronomy Farm, early maturity (100 days or less) ........................................ 11-12
Table 9. Brookings, SDSU Agronomy Farm, late maturity (101 days or more) ........................................ 13-14
Table 10. Dell Rapids, Kevin Crisp farm, early maturity (105 days or less) .............................................. 15-16
Table 11. Dell Rapids, Kevin Crisp farm, late maturity (106 days or more) ............................................. 17
Table 12. Irrigated, no-till: Pierre, Dakota Lakes Research Farm, early maturity (100 days or less) .... 18-19
Table 13. Irrigated, no-till: Pierre, Dakota Lakes Research Farm, late maturity (101 days or more) .... 20-21
Table 14. Armour, Robert Clark farm, early maturity (108 days or less) .................................................. 22-23
Table 15. Armour, Robert Clark farm, late maturity (109 days or more) ................................................... 24
Table 16. Beresford, SE Research Farm, early maturity (110 days or less) .............................................. 25-27
Table 17. Beresford, SE Research Farm, late maturity (111 days or more) ............................................... 28
Entries in the 1994 South Dakota corn performance trials .......................................................................... 29
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 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:

<table>
<thead>
<tr>
<th>Location</th>
<th>Seeds per Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Watertown</td>
<td>22,100</td>
</tr>
<tr>
<td>Frankfort</td>
<td>20,800</td>
</tr>
<tr>
<td>Brookings</td>
<td>22,100</td>
</tr>
<tr>
<td>Sioux Falls</td>
<td>22,800</td>
</tr>
<tr>
<td>Beresford</td>
<td>24,100</td>
</tr>
<tr>
<td>Armour</td>
<td>20,100</td>
</tr>
<tr>
<td>Pierre - irrigated</td>
<td>33,500</td>
</tr>
</tbody>
</table>

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:

$$55 \text{ bushels/acre} \times 1.121 = 61.7 \text{ kilograms/hectare}$$

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 populations differed more than 5,109 plants/acre (the respective LSD value for final stand).

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.

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

* MILEAGE AND DIRECTIONS FROM NEAREST POST OFFICE.

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

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>TYPE OF DATA</th>
<th>APRIL</th>
<th>MAY</th>
<th>JUNE</th>
<th>JULY</th>
<th>AUG.</th>
<th>SEPT.</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>WATERTOWN (N.E. FARM)</td>
<td>AVERAGE TEMP.**</td>
<td>43.5</td>
<td>60.5</td>
<td>67.1</td>
<td>68.5</td>
<td>66.5</td>
<td>61.3</td>
<td>22.41</td>
</tr>
<tr>
<td>AIRPORT</td>
<td>TEMP. DIFF.</td>
<td>-0.7</td>
<td>+3.1</td>
<td>+0.3</td>
<td>-4.9</td>
<td>-3.4</td>
<td>+2.1</td>
<td></td>
</tr>
<tr>
<td>SIOUX FALLS AIRPORT</td>
<td>AVERAGE TEMP.</td>
<td>46.5</td>
<td>63.9</td>
<td>71.6</td>
<td>70.7</td>
<td>69.4</td>
<td>65.2</td>
<td>17.35</td>
</tr>
<tr>
<td>2 NE</td>
<td>TEMP. DIFF.</td>
<td>-0.9</td>
<td>+2.9</td>
<td>+1.1</td>
<td>-5.1</td>
<td>-2.8</td>
<td>+2.4</td>
<td></td>
</tr>
<tr>
<td>BROOKINGS 2 NE</td>
<td>AVERAGE TEMP.</td>
<td>42.2</td>
<td>58.7</td>
<td>66.1</td>
<td>66.5</td>
<td>65.0</td>
<td>60.7</td>
<td>23.12</td>
</tr>
<tr>
<td>TEMP. DIFF.</td>
<td>-0.7</td>
<td>+3.1</td>
<td>+0.3</td>
<td>-4.9</td>
<td>-3.4</td>
<td>+2.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CENTERVILLE (S.E.FARM)</td>
<td>AVERAGE TEMP.</td>
<td>45.9</td>
<td>61.9</td>
<td>70.7</td>
<td>68.2</td>
<td>68.0</td>
<td>64.0</td>
<td>15.47</td>
</tr>
<tr>
<td>6 SE</td>
<td>TEMP. DIFF.</td>
<td>-0.9</td>
<td>+2.9</td>
<td>+1.1</td>
<td>-5.1</td>
<td>-2.8</td>
<td>+2.4</td>
<td></td>
</tr>
<tr>
<td>ARMOUR (DOUGLAS CO.)</td>
<td>AVERAGE TEMP.</td>
<td>48.8</td>
<td>63.8</td>
<td>70.7</td>
<td>71.5</td>
<td>71.6</td>
<td>66.0</td>
<td>14.00</td>
</tr>
<tr>
<td>TEMP. DIFF.</td>
<td>-0.9</td>
<td>+2.9</td>
<td>+1.1</td>
<td>-5.1</td>
<td>-2.8</td>
<td>+2.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PIERRE (DLR FARM)</td>
<td>AVERAGE TEMP.</td>
<td>46.9</td>
<td>63.1</td>
<td>70.4</td>
<td>71.9</td>
<td>70.8</td>
<td>65.1</td>
<td>14.55</td>
</tr>
<tr>
<td>TEMP. DIFF.</td>
<td>-0.1</td>
<td>+3.9</td>
<td>+1.0</td>
<td>-4.8</td>
<td>-2.6</td>
<td>+2.5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*PRECIPITATION = INCHES, TEMPERATURE = DEGREES FAHRENHEIT.

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

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>SOIL TYPE</th>
<th>STARTER FERTILIZER 2 X 2 APPLICATION (LBS PER ACRE)</th>
<th>LAND PREPARATION, PREVIOUS CROP</th>
</tr>
</thead>
<tbody>
<tr>
<td>BROOKINGS</td>
<td>BRANDT SIL. CL.</td>
<td>37 - 18 - 00</td>
<td>CONV., SOYBEAN</td>
</tr>
<tr>
<td>WATERTOWN</td>
<td>BROOKINGS SIL. CL. LOAM</td>
<td>37 - 18 - 00</td>
<td>CONV., SPRING WHEAT</td>
</tr>
<tr>
<td>FRANKFORT</td>
<td>BEOTIA SILT LOAM</td>
<td>37 - 18 - 00</td>
<td>NO-TILL, S.WHEAT STUBBLE</td>
</tr>
<tr>
<td>BERESFORD</td>
<td>TRENT SILTY LOAM</td>
<td>37 - 18 - 00</td>
<td>CONV., SOYBEAN</td>
</tr>
<tr>
<td>ARMOUR</td>
<td>EAKIN-ETHAN COMPLEX</td>
<td>37 - 18 - 00</td>
<td>NO-TILL, SOYBEAN STUBBLE</td>
</tr>
<tr>
<td>PIERRE</td>
<td>LORRY SIL. LOAM</td>
<td>37 - 18 - 00</td>
<td>NO-TILL, SOYBEAN STUBBLE</td>
</tr>
<tr>
<td>DELL RAPIDS</td>
<td>FLANDREA LOAM</td>
<td>37 - 18 - 00</td>
<td>CONV., ALFALFA</td>
</tr>
</tbody>
</table>

SIL. = SILT, CL. = CLAY, CONV. = CONVENTIONAL.
### Table 4. 1994 corn hybrid performance trial results:
Watertown, NE Research Farm, early maturity (95 days or less).

<table>
<thead>
<tr>
<th>BRAND &amp; HYBRID</th>
<th>1994 YIELDS AT 15.5% MOIST. (BU/AC)</th>
<th>1994 2-YR MOIST. WEIGHT PER ACRE (LB)</th>
<th>1994 FINAL HARVEST BUSHEL POP. PER ACRE (%)</th>
<th>STALKS LODGED (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIBA 4214</td>
<td>152.9</td>
<td>19.8</td>
<td>57.4</td>
<td>20993</td>
</tr>
<tr>
<td>PIONEER 3861</td>
<td>148.9</td>
<td>18.5</td>
<td>57.7</td>
<td>21887</td>
</tr>
<tr>
<td>CENEX/LOL 351</td>
<td>148.0</td>
<td>19.7</td>
<td>57.7</td>
<td>21998</td>
</tr>
<tr>
<td>CENEX/LOL 375</td>
<td>147.8</td>
<td>20.4</td>
<td>56.3</td>
<td>21440</td>
</tr>
<tr>
<td>KALTENBERG K4709</td>
<td>146.2</td>
<td>19.7</td>
<td>55.0</td>
<td>21217</td>
</tr>
<tr>
<td>CARGILL 2497</td>
<td>144.5</td>
<td>19.5</td>
<td>57.9</td>
<td>21440</td>
</tr>
<tr>
<td>DEKALB DK 442</td>
<td>143.6</td>
<td>19.5</td>
<td>56.9</td>
<td>22110</td>
</tr>
<tr>
<td>TOP FARM SX2194</td>
<td>143.1</td>
<td>20.0</td>
<td>58.7</td>
<td>22222</td>
</tr>
<tr>
<td>KALTENBERG K4800</td>
<td>142.0</td>
<td>22.3</td>
<td>56.3</td>
<td>21328</td>
</tr>
<tr>
<td>DEKALB DK 401</td>
<td>140.9</td>
<td>17.7</td>
<td>57.3</td>
<td>21998</td>
</tr>
</tbody>
</table>

**HYBRIDS APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD-GROUP FOR 1994**
Table 4 (continued). NE Research Farm, early maturity (95 days or less).

<table>
<thead>
<tr>
<th>BRAND &amp; HYBRID</th>
<th>1994 BUSHEL (BU/AC)</th>
<th>1994 2-YR MOIST. (%)</th>
<th>1994 HARVEST MOIST. (%)</th>
<th>1994 BUSHEL WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE (%)</th>
<th>STALKS LODGED (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N. KING N-2933</td>
<td>126.1</td>
<td>75.3</td>
<td>19.6</td>
<td>58.6</td>
<td>21552</td>
<td>21552</td>
</tr>
<tr>
<td>CIBA 4120</td>
<td>125.7</td>
<td>75.3</td>
<td>19.4</td>
<td>55.7</td>
<td>21887</td>
<td>21887</td>
</tr>
<tr>
<td>KAYSTAR KX-490</td>
<td>125.0</td>
<td>75.3</td>
<td>20.3</td>
<td>58.3</td>
<td>21887</td>
<td>21887</td>
</tr>
<tr>
<td>CARGILL 2927</td>
<td>124.8</td>
<td>84.0</td>
<td>18.5</td>
<td>56.4</td>
<td>22333</td>
<td>22333</td>
</tr>
<tr>
<td>MYCOGEN 2880</td>
<td>122.8</td>
<td>9.2</td>
<td>19.8</td>
<td>57.9</td>
<td>20100</td>
<td>20100</td>
</tr>
<tr>
<td>TOP FARM SX2195</td>
<td>122.7</td>
<td>86.2</td>
<td>20.8</td>
<td>57.0</td>
<td>21440</td>
<td>21440</td>
</tr>
<tr>
<td>DOMESTIC DX407</td>
<td>121.0</td>
<td>75.3</td>
<td>19.1</td>
<td>55.4</td>
<td>21440</td>
<td>21440</td>
</tr>
<tr>
<td>PAYCO 444</td>
<td>120.5</td>
<td>75.3</td>
<td>19.3</td>
<td>55.4</td>
<td>22110</td>
<td>22110</td>
</tr>
<tr>
<td>LEGEND LS5953</td>
<td>120.2</td>
<td>75.3</td>
<td>20.5</td>
<td>58.3</td>
<td>21440</td>
<td>21440</td>
</tr>
<tr>
<td>CENEX/LOL 5862</td>
<td>117.2</td>
<td>75.3</td>
<td>20.8</td>
<td>59.9</td>
<td>21998</td>
<td>21998</td>
</tr>
<tr>
<td>STINE 951</td>
<td>116.5</td>
<td>75.3</td>
<td>19.4</td>
<td>55.1</td>
<td>20770</td>
<td>20770</td>
</tr>
<tr>
<td>DAIRYLAND ST-1284</td>
<td>111.3</td>
<td>75.3</td>
<td>17.9</td>
<td>57.6</td>
<td>22110</td>
<td>22110</td>
</tr>
<tr>
<td>LEGEND LS6479</td>
<td>105.0</td>
<td>75.3</td>
<td>17.3</td>
<td>59.2</td>
<td>21328</td>
<td>21328</td>
</tr>
</tbody>
</table>

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).

<table>
<thead>
<tr>
<th>BRAND &amp; HYBRID</th>
<th>1994 YIELDS AT 15.5% MOIST. (BU/AC)</th>
<th>1994 2-YR HARVEST MOIST. (%)</th>
<th>BUSHEL WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE</th>
<th>STALKS LODGED (%)</th>
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--- HYBRIDS APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD-GROUP FOR 1994 ---

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<th>1994 YIELDS AT 15.5% MOIST. (BU/AC)</th>
<th>1994 2-YR HARVEST MOIST. (%)</th>
<th>BUSHEL WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE</th>
<th>STALKS LODGED (%)</th>
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<td>PAYCO 614</td>
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<td>20.6</td>
<td>58.3</td>
<td>21663</td>
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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).

<table>
<thead>
<tr>
<th>BRAND &amp; HYBRID</th>
<th>1994 YIELD (BU/AC)</th>
<th>1994 MOIST. (%)</th>
<th>1994 HARVEST WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE</th>
<th>STALKS LODGED (%)</th>
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<tbody>
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Table 6 (continued). Steve Masat farm, early maturity (100 days or less).

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<th>Brand &amp; Hybrid</th>
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<th>1994 2-YR Moist. (%)</th>
<th>Final Pop. ACRE (%)</th>
<th>Stalks Lodged (%)</th>
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*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).

<table>
<thead>
<tr>
<th>BRAND &amp; HYBRID</th>
<th>1994 YIELDS AT 15.5% MOIST. (BU/AC)</th>
<th>1994 2-YR HARPVEST MOIST. (%)</th>
<th>BUSHEL WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE</th>
<th>STALKS LODGED (%)</th>
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<tbody>
<tr>
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<td>55.1</td>
<td>20100</td>
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<tr>
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<td>DEKALB DK 560</td>
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<td>57.8</td>
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<td>21.1</td>
<td>58.8</td>
<td>20100</td>
<td>1</td>
</tr>
<tr>
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<td>205.5</td>
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<td>57.2</td>
<td>20100</td>
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<tr>
<td>DEKALB DK 527</td>
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<td>21.0</td>
<td>56.5</td>
<td>20100</td>
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</table>

---- HYBRIDS APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD-GROUP FOR 1994 -----

<table>
<thead>
<tr>
<th>BRAND &amp; HYBRID</th>
<th>1994 YIELD (BU/AC)</th>
<th>1994 HARVEST MOIST. (%)</th>
<th>BUSHEL WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE</th>
<th>STALKS LODGED (%)</th>
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| 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>
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<th>1994 HARVEST MOIST. (%)</th>
<th>BUSHEL WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE</th>
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---- 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 | 18.3 | 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 |
| MYCOCEN 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 |

11
Table 8 (continued). SDSU Agronomy Farm, early maturity (100 days or less).

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<th>BRAND &amp; HYBRID</th>
<th>1994 YIELD (BU/AC)</th>
<th>2-YR MOIST. (%)</th>
<th>1994 HARVEST MOIST. (%)</th>
<th>1994 BUSHEL WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE</th>
<th>STALKS LODGED (%)</th>
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**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).

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<th>1994 2-YR MOIST. (BU/AC)</th>
<th>1994 HARVEST MOIST. (%)</th>
<th>1994 BUSHEL WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE</th>
<th>STALKS LODGED</th>
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HYBRIDS APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD-GROUP FOR 1994

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<th>BRAND &amp; HYBRID</th>
<th>1994 2-YR MOIST. (BU/AC)</th>
<th>1994 HARVEST MOIST. (%)</th>
<th>1994 BUSHEL WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE</th>
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Table 9 (continued). SDSU Agronomy Farm, late maturity (101 days or more).

<table>
<thead>
<tr>
<th>BRAND &amp; HYBRID</th>
<th>YIELDS AT 15.5% MOIST.</th>
<th>1994 2-YR MOIST.</th>
<th>BUSHEL WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE (%)</th>
<th>STALKS LODGED (%)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>1994 BU/AC</td>
<td>(%)</td>
<td>1994 (%)</td>
<td>1994 (%)</td>
<td>1994 (%)</td>
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<td><strong>TEST C.V.#:</strong></td>
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*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).

<table>
<thead>
<tr>
<th>BRAND &amp; HYBRID</th>
<th>1994 2-YR MOIST. (BU/AC)</th>
<th>1994 HARVEST MOIST. (%)</th>
<th>BUSHEL WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE</th>
<th>STALKS LODGED (%)</th>
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---- HYBRIDS APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD-GROUP FOR 1994 -----

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<th>BRAND &amp; HYBRID</th>
<th>1994 2-YR MOIST. (BU/AC)</th>
<th>1994 HARVEST MOIST. (%)</th>
<th>BUSHEL WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE</th>
<th>STALKS LODGED (%)</th>
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Table 10 (continued). Kevin Crisp farm, early maturity (105 days or less).

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<th>BRAND &amp; HYBRID</th>
<th>1994 2-YR (BU/AC)</th>
<th>1994 HARVEST MOIST. (%)</th>
<th>1994 BUSHEL WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE</th>
<th>STALKS LODGED (%)</th>
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*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).

<table>
<thead>
<tr>
<th>Brand &amp; Hybrid</th>
<th>1994 2-YR YIELD (BU/AC)</th>
<th>1994 HARVEST MOIST. (%)</th>
<th>1994 BUSHEL WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE</th>
<th>STALKS LODGED (%)</th>
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<tbody>
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--- HYBRIDS APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD-GROUP FOR 1994 ---

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<th>Brand &amp; Hybrid</th>
<th>1994 2-YR YIELD (BU/AC)</th>
<th>1994 HARVEST MOIST. (%)</th>
<th>1994 BUSHEL WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE</th>
<th>STALKS LODGED (%)</th>
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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 95.8
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).

<table>
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<tr>
<th>BRAND &amp; HYBRID</th>
<th>YIELDS AT 15.5% MOIST.</th>
<th>1994 2-YR HARVEST MOIST. (%)</th>
<th>BUSHEL WEIGHT (LB)</th>
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--- HYBRIDS APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD-GROUP FOR 1994 ---

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<th>YIELDS AT 15.5% MOIST.</th>
<th>1994 2-YR HARVEST MOIST. (%)</th>
<th>BUSHEL WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE</th>
<th>STALKS LODGED (%)</th>
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Table 12 (continued). Dakota Lakes Research Farm, early maturity (100 days or less).

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<th>BRAND &amp; HYBRID</th>
<th>YIELDS AT 15.5% MOIST.</th>
<th>1994 2-YR MOIST.</th>
<th>1994 FINAL MOIST.</th>
<th>FINAL BUSHEL WEIGHT PER POP. ACRE</th>
<th>FINAL STALKS LODGED (%)</th>
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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).

<table>
<thead>
<tr>
<th>BRAND &amp; HYBRID</th>
<th>1994 HARVEST MOIST. (%)</th>
<th>1994 BUSHEL WEIGHT (LB)</th>
<th>1994 HARVEST 2-YR MOIST. (%)</th>
<th>15.5% MOIST. (BU/AC)</th>
<th>FINAL POP. PER ACRE (%)</th>
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Table 13 (continued). Dakota Lakes Research Farm, late maturity (101 days or more).

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<th>BRAND &amp; HYBRID</th>
<th>1994 YIELD (BU/AC)</th>
<th>1994 2-YR MOIST. (%)</th>
<th>1994 HARVEST BUSHEL WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE (%)</th>
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<td>TEST AVERAGE:</td>
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<td>1.7</td>
<td>5226</td>
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<td>MAXIMUM BEST VALUE:</td>
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<td>TEST C.V.:#</td>
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*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).

<table>
<thead>
<tr>
<th>BRAND &amp; HYBRID</th>
<th>1994 2-YR MOIST. (BU/AC)</th>
<th>1994 HARVEST MOIST. (%)</th>
<th>1994 BUSHEL WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE</th>
<th>STALKS LODGED (%)</th>
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<tr>
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<td>170.5</td>
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<tr>
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</tr>
<tr>
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<td>20.0</td>
<td>61.3</td>
<td>20100</td>
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---- HYBRIDS APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD-GROUP FOR 1994 ----
Table 14 (continued). Robert Clark farm, early maturity (108 days or less).

<table>
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<tr>
<th>BRAND &amp; HYBRID</th>
<th>YIELDS AT 15.5% MOIST.</th>
<th>1994 2-YR MOIST. (%)</th>
<th>1994 HARVEST PER ACRE</th>
<th>FINAL STALKS LODGED (%)</th>
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</tr>
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<td>20212</td>
</tr>
<tr>
<td>STINE 1080</td>
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<td>63.1</td>
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<td>60.7</td>
<td>20100</td>
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<td>CIBA 4214</td>
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**TEST AVERAGE:**
- 146.4 149.7 19.4 61.5 20121 1
- 15.2 12.3 1.2 2.2 *NS NS
- 155.3 157.8 62.5
- 18.6
- 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).**

<table>
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<tr>
<th>BRAND &amp; HYBRID</th>
<th>1994 2-YR MOIST. (BU/AC)</th>
<th>1994 HARVEST MOIST. (%)</th>
<th>BUSHEL WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE</th>
<th>STALKS LODGED</th>
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--- HYBRIDS APPEARING ABOVE THIS LINE ARE IN THE TOP-YIELD-GROUP FOR 1994 ---

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<th>BRAND &amp; HYBRID</th>
<th>1994 2-YR MOIST. (BU/AC)</th>
<th>1994 HARVEST MOIST. (%)</th>
<th>BUSHEL WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE</th>
<th>STALKS LODGED</th>
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<tbody>
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**Test Average:**

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<th>1994 2-YR MOIST. (BU/AC)</th>
<th>1994 HARVEST MOIST. (%)</th>
<th>BUSHEL WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE</th>
<th>STALKS LODGED</th>
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**Test LSD (5%) Value:**

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<th>1994 HARVEST MOIST. (%)</th>
<th>BUSHEL WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE</th>
<th>STALKS LODGED</th>
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**Minimum Best Value:**

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<th>1994 2-YR MOIST. (BU/AC)</th>
<th>1994 HARVEST MOIST. (%)</th>
<th>BUSHEL WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE</th>
<th>STALKS LODGED</th>
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**Maximum Best Value:**

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<th>BRAND &amp; HYBRID</th>
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<th>1994 HARVEST MOIST. (%)</th>
<th>BUSHEL WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE</th>
<th>STALKS LODGED</th>
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<tbody>
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*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>
<thead>
<tr>
<th>HYBRID</th>
<th>2-YR YIELD (BU/AC)</th>
<th>2-YR MOIST. (%)</th>
<th>2-YR WEIGHT (LB/BU)</th>
<th>FINAL BUSHEL PER ACRE</th>
<th>STALKS LODGED (%)</th>
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<td>18.7</td>
<td>61.1</td>
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**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
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**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

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**EPLEY EX 3480** 185.2 18.3 62.0 24232 1
**PAYCO 734** 185.1 18.1 58.4 24008 0
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Table 16 (continued). SE Research Farm, early maturity (110 days or less).

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<th>Brand &amp; Hybrid</th>
<th>Yields at 15.5% Moist.</th>
<th>1994 2-Yr MOIST. (%)</th>
<th>1994 BUSHEL WEIGHT (LB)</th>
<th>Final Pop PER ACRE (%)</th>
<th>Stalks Lodged (%)</th>
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Table 16 (continued). SE Research Farm, early maturity (110 days or less).

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<th>FINAL POP. PER ACRE</th>
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*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).

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<th>1994 2-YR (BU/AC)</th>
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<th>BUSHEL WEIGHT (LB)</th>
<th>FINAL POP. PER ACRE</th>
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Hybrids appearing above this line are in the top-yield-group for 1994:

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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.
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