12-2000

2000 Corn Performance Trials: Corn

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2000 Crop Performance Trials

Corn

Agricultural Experiment Station • South Dakota State University • U.S. Department of Agriculture
Tables, 2000 corn performance trials

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*Roundup Ready is registered by Monsanto.
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This publication reports the performance of entries in the 2000 South Dakota corn hybrid performance trials. It includes both conventional (non-Roundup-Ready) and Roundup-Ready hybrids. Information includes both 1999-00 and 2000 grain yields in bushels per acre; and 2000 test weight, moisture percentages of shelled corn at harvest and stalk lodge percentages. Test trials are conducted by the South Dakota State University Crop Performance Testing (CPT) program.

Test Trial Locations

Trial locations, soil types, and seedbed preparation are indicated in Table A. Test populations, seeding and harvest dates are given in Table B. Seeding started on April 26 and was completed by May 2. The Frankfort plots were hit by high winds on July 11, 2000, that caused moderate to severe green snap in several hybrids. In this case green snap is defined as a clean break at one of the intermediate nodes which also resulted in no ear development on the damaged stalk. Green snap is most likely to occur at one of two growth phases of the corn plant. First, it may occur as the plant approaches the 5-leaf stage and continues through the tasselling stage. Generally, if green snap occurs at the 5- through 8-leaf stages yield reductions will be greater than if green snap occurs at the 12-leaf through tasselling stages. At Frankfort the green snap occurred at the 5-leaf through 8-leaf stage growth phase. In the early maturity test (Table 3) the green snap percentages ranged from 1 to 48% and in the late maturity test (Table 4) from 1 to 42%. Damage appeared to be greatly affected by hybrid. These results strongly suggest the use of several hybrids, as opposed to just one or two hybrids, would help combat high yield losses from green snap. Frankfort was the only test site experiencing measurable green snap losses.

Weather and Climatic Conditions

Climatic data (Table C) for this year’s growing season, April-September, was obtained from the South Dakota Automatic Weather Data Network. Growing degree day (GDD) information for two locations was obtained from alternate weather reporting sites. The Frankfort GDD information was obtained from Huron while the Armour information was an average of the Mitchell and Yankton data. Mitchell and Yankton data was used to compute an Armour GDD average because (1) there was little difference in the data between the two locations and (2) because Armour lies somewhat between them. The remaining climatic reporting stations are located at or near their respective test trial sites. Precipitation may differ between a
given test site and its respective climatic recording station. At Redfield the precipitation data was missing except for August and September. Monthly precipitation totals were variable across locations. Monthly levels varied from a low of 0.54 inches at Centerville in September to a high of 6.74 at Brookings in May. This high of 6.74 inches for Brookings in May was critical to the crop since Brookings received below average precipitation for the rest of the growing season. The highest accumulation of recorded seasonal precipitation was at Brookings with 15.52 inches or 2.59 inches below average. Centerville and Armour both reported more than 4 inches below average while Watertown reported 2 inches below average in seasonal rainfall.

The heat unit or GDD accumulations are reported for the nearest test site in place of temperatures. Corn hybrids typically express a certain thermal or heat unit requirement from emergence to black-layer formation (physiological maturity). The heat unit totals across test locations varied from a high of 3029 GDDs at Armour to a low of 2342 GDDs at Brookings. At Armour, Centerville, Redfield, and Watertown the GGD seasonal accumulations were above average; while Brookings was 76 GDDs below average for the growing season. The 2000 GDD total for the Armour site is an average of the Mitchell and Yankton data.

In summary, the major environmental impact in 2000 was the below average rainfall received across most of eastern South Dakota. The seasonal GDD totals across this region varied only slightly and were probably not a significant factor in test trial areas this year.

The assistance of the following is appreciated: CPT technician Jesse Hall at Brookings, Jim Smolik and Allen Heuer at the NE Research Farm, Todd Bortnem and the Brookings Agronomy Farm staff, and Bob Berg and the SE Research Farm staff; and farmer-cooperators Robert Clark (Armour) and Steve Masat (Frankfort).

**General Test Procedures**

Participating companies pick the test locations where their entries are tested. Entries are placed into “early” or “late” maturity trials. The arbitrary relative maturity breaks between the early and late tests as follows: 95 days for Watertown; 100 days for Frankfort and Brookings; 105 days for Armour; and 110 days for Beresford. Hybrids are assigned to maturity trials based on relative maturity ratings defined by the participating company. **This testing program does not guarantee that all entries are placed in the proper maturity trial.** In some trials, borderline entries with relative maturity ratings at or near the arbitrary break between the early and late trials may crossover at a given location. In some cases this may be indicated by exceptionally high or low grain moisture contents at harvest. A higher than average moisture content may indicate the hybrid is later in relative maturity than indicated. Likewise, a lower than average moisture may indicate the hybrid is earlier in relative maturity than indicated. A fee was charged for all entries at each location. **A list of participating seed companies for 2000 is presented in Table F.**

**Experimental Procedures**

Entries were seeded in three replications with each hybrid randomly located within a replication. Plots consisted of two 30-inch rows, 20 feet long. A 31-cell cone drill seeder was used for all plots. Cone units were mounted above commercial maxi-merge units. Seeding rate was 15% more than the desired number of plants harvested per plot. Plots were later thinned to a desired test population. In 2000, following emergence all test plots were thinned to a final test population of 27,878 plants per acre. Soil type, land preparation, and previous crop at each test site are outlined in table A. Seedbed preparation was good at all locations. A starter fertilizer of 100 pounds/A of 37-18-00 was applied 2 inches below and 2 inches to the side (2 x 2) of the seed row. Force insecticide was T-banded at label rates for corn rootworm control this year. Recommended herbicides (pre-emergence and post-emergence) were broadcast at labeled rates where needed.

The experimental procedures described above apply both to the conventional and the Roundup Ready hybrid corn trials with one exception: Weed control in the Roundup Ready trials consisted of two post emergence applications of Roundup Ultra (32 oz/A). The first was when weeds were 2-4 inches tall, the second application was when weed growth was again 2-4 inches tall.

**Measurements of Performance**

**Yield.** Yields are an average of three replications, and are expressed as bushels per acre, adjusted to 15.5% moisture on a dry-matter basis 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 obtained were caused by variations in environment or were true variety differences. In 2000, the coefficient of variation (CV) for yield was within reasonable limits across all locations. The CV value in a given test trial is a measure of experimental error associated with the test trial. Ideally, this value should not exceed 15%. In cases where the CV value exceeds 15% it is recommended that the test data be used with caution in making hybrid selection decisions. Experimental error may be the result of several factors including test methods; factors such as moisture, temperature, or soil variations; or agronomic factors like seeding date, reseeding, or seed quality. All of these may or may not be controllable in a given year.

**Moisture Content.** Moisture content is expressed as the percentage of moisture in the shelled corn at harvest. Moisture is inversely related to maturity. Because maturity is of prime importance in South Dakota, moisture figures are of considerable importance in the evaluation of the trial entries. Hybrids that provide satisfactory yields and can be stored without additional drying are desirable.

**Use of tables.** Check for the “least significant difference” (LSD) value at the bottom of each column of data averages. The LSD value indicates how much a variable such as yield must differ between two hybrids before there is a real yield difference. An LSD value is given at the bottom of every column where there is significant difference among the averages within a given column. If there are no real differences among the averages within a given column a “non-significant” (NS) difference designation is indicated.

The LSD values reported in this publication can be used in two ways. In this publication the LSD value is used primarily to identify the top-yielding group for each test trial. For example, at Watertown (Table 1) the highest 2-year yield was 165 bu/A for Kruger EX-2096. In order to determine whether it is the only top yielding hybrid at Watertown use the LSD value of 15 bu/A at the bottom of the 2-yr yield column. In order for hybrids to be in the top-yield group they must yield 150 bu/A (165 - 15 = 150) or higher. Technically, a yield of 151 bu/A would be in the top-yield group while a yield of 150 bu/A would not be in the top-yield group. However, all yields and LSD values are rounded to the nearest whole number. We can say 150 bu/A, because of the rounding-off, is the more appropriate minimum value for top-yield hybrids at the “early” maturity test at Watertown in 2000. This value is indicated as the min. top-yield value at the bottom of the 2-yr yield column. Top-yield hybrids for 2000 are those hybrids which are equal or higher than the minimum top-yield value indicated at the bottom of the 2000 yield column.

In addition to identifying the top-yield group, LSD values can be used to determine whether two hybrids differ in performance. For example, in the early test at Watertown, the LSD value of 15 bu/A can be used to compare the yields of any two hybrids in the early maturity trial. If hybrid A yields 165 bu/A and hybrid B yields 151 bu/A their yield difference is 14 bu/A (165 - 151 = 14). In this case the two hybrids do not differ in yield because their yield difference of 14 bu/A is less than the reported LSD value of 15 bu/A. In contrast, if hybrid C yields 148 bu/A the yield difference between hybrid A and hybrid C would be 17 bu/A (165 - 148 = 17). In this case the yield difference of 17 bu/A is more than the reported LSD value of 15 bu/A and therefore hybrid A would have a significantly higher yield than hybrid C.

**NOTE:** In 2000, many hybrid yields across our test locations were very good, considering most locations started the growing season with minimal subsoil moisture levels and received below average rainfall during the growing season. Since we knew subsoil moisture levels were low to begin with, we did little if any tillage, in order to conserve soil moisture levels.

### Performance Trial Results: Conventional Hybrids

The performance trial results for two years (1999-00) and one year (2000) are summarized below:

**Watertown (NE Research Farm):**

**Early Maturity Trial (Table 1).** The number of hybrid entries was 46. The 2-year average was 145 bu/A, hybrids had to average 150 bu/A or higher to be in the top-yield group (TYG), 5 hybrids qualified for the top-yield group, and hybrids had to differ by 15 bu/A to be significantly different in yield. The 2000 average was 118 bu/A, hybrids had to average 135 bu/A or higher to be in the top-yield group, one hybrid qualified for the top-yield group, and hybrids had to differ by 18 bu/A to be significantly different in yield.

**Late Maturity Trial (Table 2).** The number of hybrid entries was 49. The 2-year average was 129 bu/A, hybrids had to average 130 bu/A or higher to be in the top-yield group (TYG), 8 hybrids qualified for the top-yield group, and hybrids had to differ by 12 bu/A
to be significantly different in yield. The 2000 average was 122 bu/A, hybrids had to average 133 bu/A or higher to be in the top-yield group, 5 hybrids qualified for the top-yield group, and hybrids had to differ by 11 bu/A to be significantly different in yield.

Frankfort, No-Till Trial (Steve Masat Farm): Early Maturity Trial (Table 3). The number of hybrid entries was 47. The 2-year average was 140 bu/A. This test was not able to detect hybrid yield differences among the 12 hybrids tested for 2 years. The yield ranking of the hybrids for 1999 were so different from those for 2000 the test was unable to detect significant yield differences for the 2-year averages. The 2000 average was 154 bu/A, hybrids had to average 168 bu/A or higher to be in the top-yield group, 12 hybrids qualified for the top-yield group, and hybrids had to differ by 18 bu/A to be significantly different in yield.

Late Maturity Trial (Table 4). The number of hybrid entries was 38. The 2-year average was 149 bu/A. Again as in table 4 this test was not able to detect hybrid yield differences among the 9 hybrids tested for 2 years. The yield ranking of the hybrids for 1999 were so different from those for 2000 the test was unable to detect significant yield differences for the 2-year averages. The 2000 average was 147 bu/A, hybrids had to average 152 bu/A or higher to be in the top-yield group, 15 hybrids qualified for the top-yield group, and hybrids had to differ by 22 bu/A to be significantly different in yield.

Brookings (SDSU Agronomy Farm): Early Maturity Trial (Table 5). The number of hybrid entries was 58. The 2-year average was 169 bu/A, hybrids had to average 158 bu/A or higher to be in the top-yield group (TYG), 16 hybrids qualified for the top-yield group, and hybrids had to differ by 21 bu/A to be significantly different in yield. The 2000 average was 179 bu/A, hybrids had to average 183 bu/A or higher to be in the top-yield group, 20 hybrids qualified for the top-yield group, and hybrids had to differ by 13 bu/A to be significantly different in yield.

Late Maturity Trial (Table 6). The number of hybrid entries was 47. The 2-year average was 183 bu/A, hybrids had to average 175 bu/A or higher to be in the top-yield group (TYG), 18 hybrids qualified for the top-yield group, and hybrids had to differ by 19 bu/A to be significantly different in yield. The 2000 average was 187 bu/A, hybrids had to average 193 bu/A or higher to be in the top-yield group, 11 hybrids qualified for the top-yield group, and hybrids had to differ by 12 bu/A to be significantly different in yield.

Armour, No-Till Trial (Robert Clark Farm): Early Maturity Trial (Table 7). The number of hybrid entries was 40. The 2-year average was 141 bu/A. This test was not able to detect hybrid yield differences among the 19 hybrids tested for 2 years. The yield rankings of the hybrids for 1999 were so different from those for 2000 the test was unable to detect significant yield differences for the 2-year averages. The 2000 average was 139 bu/A, hybrids had to average 138 bu/A or higher to be in the top-yield group, 26 hybrids qualified for the top-yield group, and hybrids had to differ by 21 bu/A to be significantly different in yield.

Late Maturity Trial (Table 8). The number of hybrid entries was 60. The 2-year average was 158 bu/A, hybrids had to average 158 bu/A or higher to be in the top-yield group (TYG), 13 hybrids qualified for the top-yield group, and hybrids had to differ by 21 bu/A to be significantly different in yield. The 2000 average was 150 bu/A, hybrids had to average 149 bu/A or higher to be in the top-yield group, 36 hybrids qualified for the top-yield group, and hybrids had to differ by 19 bu/A to be significantly different in yield.

Beresford: (SE Research Farm): Early Maturity Trial (Table 9). The number of hybrid entries was 74. The 2-year average was 160 bu/A, hybrids had to average 157 bu/A or higher to be in the top-yield group (TYG), 22 hybrids qualified for the top-yield group, and hybrids had to differ by 22 bu/A to be significantly different in yield. The 2000 average was 168 bu/A, hybrids had to average 179 bu/A or higher to be in the top-yield group, 18 hybrids qualified for the top-yield group, and hybrids had to differ by 21 bu/A to be significantly different in yield.

Late Maturity Trial (Table 10). The number of hybrid entries was 36. The 2-year average was 163 bu/A, hybrids had to average 169 bu/A or higher to be in the top-yield group (TYG), 3 hybrids qualified for the top-yield group, and hybrids had to differ by 16 bu/A to be significantly different in yield. The 2000 average was 183 bu/A, hybrids had to average 186 bu/A or higher to be in the top-yield group, 17 hybrids qualified for the top-yield group, and hybrids had to differ by 19 bu/A to be significantly different in yield.
Performance Trial Results:
Roundup Ready Hybrids

Brookings (SDSU Agronomy Farm):

Early Maturity Trial (Table 11). The number of hybrid entries was 19. The 2-year average was 147 bu/A. There was no significant yield difference in 2-year averages among the 5 hybrids tested. Therefore, all 5 hybrids were in the top-yield group. The 2000 average was 170 bu/A, hybrids had to average 171 bu/A or higher to be in the top-yield group, 12 hybrids qualified for the top-yield group, and hybrids had to differ by 10 bu/A to be significantly different in yield.

Late Maturity Trial (Table 12). The number of hybrid entries was 16. The 2-year average was 167 bu/A. There were only 2 hybrids tested for 2 years and there was no significant difference between them in 2-year yield averages. The 2000 average was 188 bu/A, hybrids had to average 200 bu/A or higher to be in the top-yield group, 3 hybrids qualified for the top-yield group, and hybrids had to differ by 15 bu/A to be significantly different in yield.

Beresford (SE Research Farm):

Note: The early and late maturity trials were combined into a single trial because there were only three late maturity hybrids. The relative maturity rating of these hybrids (Jacobsen J4753RR, US Seeds Cl119RR, and US Seeds Cl139RR) was 111-day compared to the 110-day cut off value for the early test.

Early Maturity Trial (Table 13). The number of hybrid entries was 26. The 2-year average yield was 143 bu/A. There was no significant yield difference in 2-year averages among the 9 hybrids tested. Therefore, all 9 hybrids were in the top-yield group. The 2000 average was 165 bu/A, hybrids had to average 163 bu/A or higher to be in the top-yield group, 16 hybrids qualified for the top-yield group, and hybrids had to differ by 27 bu/A to be significantly different in yield.
### Table A. Soil classification and land preparation.

<table>
<thead>
<tr>
<th>Location</th>
<th>Soil type</th>
<th>Seedbed, previous crop</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brookings</td>
<td>Brandt sil. cl.</td>
<td>conventional, spring wheat</td>
</tr>
<tr>
<td>Watertown</td>
<td>Brookings silty clay loam</td>
<td>conventional, oat</td>
</tr>
<tr>
<td>Frankfort</td>
<td>Beotia silt loam</td>
<td>no-till, soybean stubble</td>
</tr>
<tr>
<td>Beresford</td>
<td>Trent silty loam</td>
<td>conventional, soybean</td>
</tr>
<tr>
<td>Armour</td>
<td>Eakin-Ethan complex</td>
<td>no-till, soybean stubble</td>
</tr>
</tbody>
</table>

### Table B. Year 2000 trial cooperators, locations, test populations, and seeding and harvest dates.

<table>
<thead>
<tr>
<th>Cooperators</th>
<th>Location</th>
<th>Test* population (plants/acre)</th>
<th>Seeded</th>
<th>Harvested</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robert Clark</td>
<td>Armour</td>
<td>27,878</td>
<td>April 26</td>
<td>Oct. 17</td>
</tr>
<tr>
<td>SE Research Farm</td>
<td>Beresford</td>
<td>27,878</td>
<td>April 27</td>
<td>Oct. 20</td>
</tr>
<tr>
<td>SDSU Agronomy Farm</td>
<td>Brookings</td>
<td>27,878</td>
<td>May 1</td>
<td>Oct. 18</td>
</tr>
<tr>
<td>NE Research Farm</td>
<td>Watertown</td>
<td>27,878</td>
<td>May 2</td>
<td>Oct. 12</td>
</tr>
<tr>
<td>Steve Masat</td>
<td>Frankfort</td>
<td>27,878</td>
<td>May 2</td>
<td>Oct. 11</td>
</tr>
</tbody>
</table>

* Plots were thinned to this population following emergence.
Table C. Nearest station precipitation and growing degree day (GDD) seasonal accumulation for the 2000 cropping season and their departures (+/-) from average. Source: South Dakota Automatic Weather Data Network.

<table>
<thead>
<tr>
<th>Station</th>
<th>Data variable</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Armour</td>
<td>Precip. '00 (in.)</td>
<td>1.14</td>
<td>4.71</td>
<td>1.44</td>
<td>0.62</td>
<td>4.03</td>
<td>0.59</td>
<td>12.53</td>
</tr>
<tr>
<td></td>
<td>Avg.(in.)</td>
<td>2.34</td>
<td>3.18</td>
<td>3.88</td>
<td>3.12</td>
<td>2.16</td>
<td>2.38</td>
<td>17.06</td>
</tr>
<tr>
<td>Armour</td>
<td>Precip. +/- (in.)</td>
<td>-1.2-</td>
<td>+1.53</td>
<td>-2.44</td>
<td>-2.50</td>
<td>+1.87</td>
<td>-1.79</td>
<td>-4.53</td>
</tr>
<tr>
<td></td>
<td>Accum. '00 (GDD)</td>
<td>194</td>
<td>579</td>
<td>1116</td>
<td>1843</td>
<td>2546</td>
<td>3029</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>GDD's Avg.(GDD)</td>
<td>183</td>
<td>563</td>
<td>1133</td>
<td>1852</td>
<td>2512</td>
<td>2935</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>GDD's +/- (GDD)</td>
<td>+11</td>
<td>+16</td>
<td>-17</td>
<td>-9</td>
<td>+34</td>
<td>+94</td>
<td>*</td>
</tr>
<tr>
<td>Brookings</td>
<td>Precip. '00 (in.)</td>
<td>1.47</td>
<td>6.74</td>
<td>3.01</td>
<td>1.77</td>
<td>1.61</td>
<td>0.92</td>
<td>15.52</td>
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<tr>
<td></td>
<td>Avg.(in.)</td>
<td>2.07</td>
<td>2.93</td>
<td>4.34</td>
<td>3.32</td>
<td>2.81</td>
<td>2.64</td>
<td>18.11</td>
</tr>
<tr>
<td>2NE</td>
<td>Precip. +/- (in.)</td>
<td>-0.60</td>
<td>+3.81</td>
<td>-1.33</td>
<td>-1.55</td>
<td>-1.20</td>
<td>-1.72</td>
<td>-2.59</td>
</tr>
<tr>
<td></td>
<td>Accum. '00 (GDD)</td>
<td>121</td>
<td>441</td>
<td>881</td>
<td>1498</td>
<td>2085</td>
<td>2342</td>
<td>*</td>
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<tr>
<td></td>
<td>GDD's Avg.(GDD)</td>
<td>123</td>
<td>425</td>
<td>904</td>
<td>1524</td>
<td>2082</td>
<td>2418</td>
<td>*</td>
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<tr>
<td></td>
<td>GDD's +/- (GDD)</td>
<td>+2</td>
<td>+16</td>
<td>-23</td>
<td>-26</td>
<td>+3</td>
<td>-76</td>
<td></td>
</tr>
<tr>
<td>Centerville</td>
<td>Precip. '00 (in.)</td>
<td>1.33</td>
<td>2.35</td>
<td>3.68</td>
<td>3.13</td>
<td>2.94</td>
<td>0.54</td>
<td>13.97</td>
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<tr>
<td></td>
<td>Avg.(in.)</td>
<td>2.27</td>
<td>3.44</td>
<td>4.22</td>
<td>3.38</td>
<td>2.93</td>
<td>2.64</td>
<td>18.88</td>
</tr>
<tr>
<td>6SE</td>
<td>Precip. +/- (in.)</td>
<td>-0.94</td>
<td>-1.09</td>
<td>-0.54</td>
<td>-0.25</td>
<td>+0.01</td>
<td>-2.10</td>
<td>-4.91</td>
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<tr>
<td></td>
<td>Accum. '00 (GDD)</td>
<td>211</td>
<td>641</td>
<td>1174</td>
<td>1904</td>
<td>2613</td>
<td>2894</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>GDD's Avg.(GDD)</td>
<td>186</td>
<td>565</td>
<td>1133</td>
<td>1833</td>
<td>2465</td>
<td>2876</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>GDD's +/- (GDD)</td>
<td>+25</td>
<td>+76</td>
<td>+41</td>
<td>+71</td>
<td>+148</td>
<td>+18</td>
<td></td>
</tr>
<tr>
<td>Redfield</td>
<td>Precip. '00 (in.)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.03</td>
<td>0.08</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Avg.(in.)</td>
<td>2.10</td>
<td>2.89</td>
<td>3.17</td>
<td>2.67</td>
<td>2.18</td>
<td>1.77</td>
<td></td>
</tr>
<tr>
<td>2NE</td>
<td>Precip. +/- (in.)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Accum. '00 (GDD)</td>
<td>176</td>
<td>562</td>
<td>1032</td>
<td>1738</td>
<td>2443</td>
<td>2928</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>GDD's Avg.(GDD)</td>
<td>158</td>
<td>495</td>
<td>1024</td>
<td>1717</td>
<td>2353</td>
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* values in this row are an average of the Mitchell and Yankton data.
Table D. 2000 corn performance trials—conventional non-Roundup Ready hybrids by brand/hybrid and yield table number.

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Table E. 2000 corn performance trials—Roundup Ready hybrids by brand/hybrid and yield
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<th>Brand / Hybrid</th>
<th>Table No.</th>
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<td>EPLEY/E3615RR</td>
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Table F. Seed company addresses and telephone numbers for 2000.

<table>
<thead>
<tr>
<th>Company</th>
<th>Brand Name</th>
<th>Address</th>
<th>City and State</th>
<th>Zip</th>
<th>Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cargill Hybrid Seeds</td>
<td>Cargill</td>
<td>PO Box 5645</td>
<td>Minneapolis, MN</td>
<td>55440</td>
<td>612-984-8040</td>
</tr>
<tr>
<td>Dahlco Seeds</td>
<td>Dahlco</td>
<td>14730 15Th St SW</td>
<td>Cokato, MN</td>
<td>55321</td>
<td>320-286-5982</td>
</tr>
<tr>
<td>Dairyland Seeds</td>
<td>Stealth</td>
<td>PO Box 958</td>
<td>West Bend, WI</td>
<td>53095-0958</td>
<td>414-338-0163</td>
</tr>
<tr>
<td>Dakota Brand Seed</td>
<td>Dakota</td>
<td>405 5Th St SE</td>
<td>Watertown, SD</td>
<td>57201</td>
<td>605-881-4369</td>
</tr>
<tr>
<td>Den Besten Seed Co.</td>
<td>Den Besten</td>
<td>Box 896</td>
<td>Platte, SD</td>
<td>57369</td>
<td>605-337-3318</td>
</tr>
<tr>
<td>Domestic Seed &amp; Supply Inc.</td>
<td>Mustang</td>
<td>Box 466</td>
<td>Madison, SD</td>
<td>57042</td>
<td>605-256-6529</td>
</tr>
<tr>
<td>Epley Brothers Hybrids Inc.</td>
<td>Epley</td>
<td>PO Box 310</td>
<td>Shell Rock, IA</td>
<td>50677</td>
<td>319-885-6293</td>
</tr>
<tr>
<td>Garst Seed Co.</td>
<td>Garst</td>
<td>PO Box 647</td>
<td>Brandon, SD</td>
<td>57005</td>
<td>605-582-2777</td>
</tr>
<tr>
<td>Gold Country Seed</td>
<td>Gold Country</td>
<td>PO Box 604</td>
<td>Hutchinson, MN</td>
<td>55350-0604</td>
<td>800-795-8544</td>
</tr>
<tr>
<td>Heine Seedcorn</td>
<td>Heine</td>
<td>1020 E 320Th St</td>
<td>Vermillion, SD</td>
<td>57069</td>
<td>605-624-3414</td>
</tr>
<tr>
<td>Hoegemeyer Hybrids</td>
<td>Hoegemeyer</td>
<td>1755 Hoegemeyer Rd</td>
<td>Hooper, NE</td>
<td>68031</td>
<td>402-664-3399</td>
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<tr>
<td>Jacobsen Hybrid Corn Co.</td>
<td>Jacobsen</td>
<td>109 9Th St</td>
<td>Lake View, IA</td>
<td>51450-0379</td>
<td>800-761-1024</td>
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<tr>
<td>Kaltenberg Seeds</td>
<td>Kaltenberg</td>
<td>5506 State Hwy 19</td>
<td>Waunakee, WI</td>
<td>53597</td>
<td>608-849-5021</td>
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<tr>
<td>Kaystar Seeds</td>
<td>Kaystar</td>
<td>PO Box 947</td>
<td>Huron, SD</td>
<td>57350</td>
<td>605-352-8791</td>
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<tr>
<td>Kruger Seed Company</td>
<td>Kruger</td>
<td>Hwy 20 East, Box A</td>
<td>Deke, IA</td>
<td>50624</td>
<td>319-989-2414</td>
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<tr>
<td>LG Seeds</td>
<td>LG Seeds</td>
<td>1620 Hwy 10</td>
<td>Gibbon, NE</td>
<td>68840</td>
<td>308-234-4800</td>
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<tr>
<td>Mallard Seed Co. Inc.</td>
<td>Mallard</td>
<td>PO Box 637</td>
<td>Plainview, MN</td>
<td>55964</td>
<td>507-534-2300</td>
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<tr>
<td>Monsanto Global Seed Grp.</td>
<td>Asgrow</td>
<td>3100 Sycamore Rd</td>
<td>Dekalb, IL</td>
<td>60115</td>
<td>815-758-9323</td>
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<tr>
<td>Monsanto Global Seed Grp.</td>
<td>Dekalb</td>
<td>3100 Sycamore Rd</td>
<td>Dekalb, IL</td>
<td>60115</td>
<td>815-758-9323</td>
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<tr>
<td>NC+ Hybrids</td>
<td>NC+</td>
<td>Box 4408</td>
<td>Lincoln, NE</td>
<td>68504</td>
<td>402-467-2517</td>
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<tr>
<td>Sand Seed Service Inc.</td>
<td>SOI</td>
<td>PO Box 648</td>
<td>Marcus, IA</td>
<td>51035</td>
<td>712-376-4135</td>
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<tr>
<td>Seeds 2000</td>
<td>Seeds 2000</td>
<td>Box 200</td>
<td>Breckenridge, MN</td>
<td>56520</td>
<td>218-643-2410</td>
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<td>Top Farm Hybrids</td>
<td>Top Farm</td>
<td>Box 850</td>
<td>Cokato, MN</td>
<td>55321</td>
<td>320-286-5516</td>
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<tr>
<td>United suppliers Inc.</td>
<td>U.S. Seeds</td>
<td>PO Box 538</td>
<td>Eldora, IA</td>
<td>50627-0538</td>
<td>515-858-2341</td>
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<tr>
<td>Wensman Seed Company</td>
<td>Wensman</td>
<td>PO Box 190</td>
<td>Wadena, MN</td>
<td>56482</td>
<td>218-631-2954</td>
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<tr>
<td>Wilson Genetics, L.L.C.</td>
<td>Wilson</td>
<td>PO Box 391</td>
<td>Harlan, IA</td>
<td>51537</td>
<td>712-755-3841</td>
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Table 1. Watertown early corn hybrid results, 1999-2000, NE Research Farm. Test relative maturity is 95-day or less.

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<th>Brand / Hybrid</th>
<th>Yield - bu/a (15.5% moist)</th>
<th>Gr. Bushel weight</th>
<th>Green snap below ear</th>
<th>Stk. Ldg.</th>
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<td>pct</td>
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<td>133</td>
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<td>52 0 0</td>
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<td>126</td>
<td>15</td>
<td>51 0 0</td>
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<td>128</td>
<td>15</td>
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Table 1 (continued).

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<th>Brand / Hybrid</th>
<th>Yield - bu/a (15.5% moist)</th>
<th>Grain moist weight</th>
<th>Green-snap below ear</th>
<th>Stk. Ldg.</th>
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<td>lb</td>
<td>pct</td>
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<td>53</td>
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<tr>
<td>MUSTANG/4103BT</td>
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<td>50</td>
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<td>KRUGER/EX-092</td>
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<tr>
<td>DENBESTEN/DB2085BT</td>
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<td>52</td>
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<tr>
<td>MYCOGEN/2249IMI</td>
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<td>14</td>
<td>57</td>
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Test average: 145 118 15 54 0 0
LSD (5%) value: 15 18 2 2
Min. top-yield value*: 150 135
Coef. of variation# : 8 10

* Top yield - within one LSD value of highest yield.
# Measure of experimental error: values of < 15% are desired.
Table 2. Watertown late corn hybrid results, 1999-2000, NE Research Farm. Test relative maturity is 96-day or more.

<table>
<thead>
<tr>
<th>Brand / Hybrid</th>
<th>2-yr Entries tested two years</th>
<th>2000 Entries tested one year</th>
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<td>Stk. Ldg.</td>
<td>Yield - bu/a (15.5% moist)</td>
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<td></td>
<td>Grain Bushel weight pct lb</td>
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<td>Green snap ear pct pct pct</td>
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Table 2 (continued).

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<th>Brand / Hybrid</th>
<th>Yield - (15.5% moist) 2-yr</th>
<th>Grain moist pct</th>
<th>Bushel weight lb</th>
<th>Green-snap below ear pct</th>
<th>Stk.Ldg.</th>
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Test average: 129 122 17 51 0 0
LSD (5%) value: 12 11 2 2
Min. top-yield value*: 130 133
Coef. of variation#: 8 6

* Top yield - within one LSD value of highest yield.
# Measure of experimental error: values of < 15% are desired.
Table 3. Frankfort no-till early corn hybrid results, 1999-2000, Steve Masat farm. Test relative maturity is 100-day or less.

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<th>Brand / Hybrid</th>
<th>SEEDS 2000/3101</th>
<th>KRUGER/K-9802A</th>
<th>MUSTANG/503</th>
<th>KRUGER/K-9002</th>
<th>MYC OGEN/2525</th>
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<td>Yield</td>
<td>Grain</td>
<td>Bushel</td>
<td>Green</td>
<td>Snaps</td>
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<td>(15.5%</td>
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<td>weight</td>
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<td>2-yr</td>
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<td>lb</td>
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<td>Entries tested two years</td>
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<th>GARST/8766IT</th>
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Table 3 (continued).

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<th>Grain moist pct</th>
<th>Bushel weight lb</th>
<th>Green-snap ear pct</th>
<th>Stk. Ldg.</th>
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Test average: 140 154 17 57 14 0
LSD (5%) value: ~ 18 2 2
Min. top-yield value*: ~ 168
Coef. of variation#: 8 7

* Top yield - within one LSD value of highest yield.
~ Rankings of hybrid yields in 1999 were so different from those in 2000 that two-year hybrid yield differences could not be detected.
# Measure of experimental error: values of < 15% are desired.
Table 4. Frankfort no-till late corn hybrid results, 1999-2000, Steve Masat farm. Test relative maturity is 101-day or more.

<table>
<thead>
<tr>
<th>Brand / Hybrid</th>
<th>Yield - bu/a (15.5% moist) 2-yr 2000</th>
<th>Grain Bushel weight</th>
<th>Green snap below ear</th>
<th>Stk. Ldg. pct pb lb pb pct pb pct</th>
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<td>146 134 19 55.28 28.0 0</td>
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<td>CARGILL/4021 BT</td>
<td>145 166 18 58.6 6.0 0</td>
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Table 4 (continued).

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<th>Brand / Hybrid</th>
<th>Yield - bu/a (15.5% moist)</th>
<th>Grain moist weight pct</th>
<th>Bushel weight lb</th>
<th>Green - snap below ear pct</th>
<th>Stk. Ldg.</th>
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<td>Min. top-yield value*:</td>
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* Top yield - within one LSD value of highest yield.
~ Rankings of hybrid yields in 1999 were so different from those in 2000 that two-year hybrid yield differences could not be detected.
NS indicates values within a column are not significantly different.
# Measure of experimental error: values of < 15% are desired.
Table 5. Brookings early corn hybrid results, 1999-2000, SDSU Agronomy Farm. Test relative maturity is 100-day or less.

<table>
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<tr>
<th>Brand / Hybrid</th>
<th>Entries tested two years</th>
<th>2000</th>
<th>Stk. Ldg.</th>
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<td>Yield - bu/a (15.5% moist)</td>
<td>Grain Bushel</td>
<td>Green snap</td>
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Table 5 (continued).

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<tr>
<th>Brand / Hybrid</th>
<th>Yield - bu/a (15.5% moist) 2-yr 2000</th>
<th>Grain moisture wt lb</th>
<th>Bushel weight lb</th>
<th>Green-snap weight lb</th>
<th>Stk. Ldg. below ear</th>
<th>LSD (5%) value</th>
<th>Min. top-yield value*</th>
<th>Coef. of variation#</th>
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* Top yield - within one LSD value of highest yield.

# Measure of experimental error: values of < 15% are desired.
Table 6. Brookings late corn hybrid results, 1999-2000, SDSU Agronomy Farm. Test relative maturity is 101-day or more.

<table>
<thead>
<tr>
<th>Brand / Hybrid</th>
<th>Yield - bu/a (15.5% moist) 2-yr 2000</th>
<th>Grain Bushel weight lb</th>
<th>GreenSnap ear pct</th>
<th>Below ear pct</th>
<th>Stk. Ldg.</th>
</tr>
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<tbody>
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<td>0</td>
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</tr>
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<td>KRUGER/K-9908BT</td>
<td>192 182</td>
<td>23 48</td>
<td>0</td>
<td>0</td>
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</tr>
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<td>KRUGER/K-9910BT</td>
<td>192 182</td>
<td>24 51</td>
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<td>DEKALB/DK537</td>
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<td>21 54</td>
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<td>21 55</td>
<td>0</td>
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<tr>
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<td>186 197</td>
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<td>19 54</td>
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<td>0</td>
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<td>17 54</td>
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<td>18 55</td>
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<td>19 55</td>
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<td>KAYSTAR/X9055</td>
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<tr>
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<td>53 0</td>
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<tr>
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Table 6 (continued).

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<tr>
<th>Brand / Hybrid</th>
<th>Yield - bu/a (15.5% moist) 2-yr 2000</th>
<th>Grain moist pct</th>
<th>Bushel weight lb</th>
<th>Green-snap below ear pct</th>
<th>Stk.Ldg.</th>
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<tbody>
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Test average: 183 187 19 55 0 0
LSD (5%) value: 19 12 2 1
Min. top-yield value*: 175 193
Coef. of variation#: 5 4

* Top yield - within one LSD value of highest yield.
# Measure of experimental error: values of < 15% are desired.
Table 7. Armour no-till early corn hybrid results, 1999-2000, Robert Clark farm. Test relative maturity is 105-day or less.

| Brand / Hybrid       | 2000 Yield 
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<th></th>
<th></th>
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<tbody>
<tr>
<td></td>
<td>(15.5% moist)</td>
</tr>
<tr>
<td></td>
<td>Grain Bushel</td>
</tr>
<tr>
<td></td>
<td>2-yr pct lb</td>
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<tr>
<td>----------------------</td>
<td>-------------</td>
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<td>KRUGER/K-9908BT</td>
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<td>DENBESTEN/DB2904</td>
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<td>HOEGEMEYER/2598</td>
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<tr>
<td>HOEGEMEYER/2593</td>
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<td>MYCOGEN/2566</td>
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<tr>
<td>DENBESTEN/DB2902BT</td>
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<td>EPLEY/E1510BT</td>
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<td>EPLEY/E1470BT</td>
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<td>WILSON/1364</td>
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<tr>
<td>CARGILL/4521 BT</td>
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<td>JACOBSEN/JS4205BT</td>
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</tr>
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<td>DENBESTEN/DB2905BT</td>
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<td>KRUGER/K-9108</td>
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<tr>
<td>LG SEEDS/LG 2512</td>
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<td>DEKALB/DKC53-32</td>
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<td>JACOBSEN/JS4283</td>
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<td>DAIRYLAND/STEALTH-1606</td>
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<tr>
<td>KRUGER/K-9109BT</td>
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<td>KRUGER/K-9106BT</td>
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<td>GARST/8647</td>
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Table 7 (continued).

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<th>Brand / Hybrid</th>
<th>Yield - bu/a (15.5% moist)</th>
<th>Grain moist pct</th>
<th>Bushel weight lb</th>
<th>Greensnap pct</th>
<th>Below ear pct</th>
<th>Stk. Ldg.</th>
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* Top yield - within one LSD value of highest yield.
NS indicates values within a column are not significantly different.
# Measure of experimental error: values of < 15% are desired.
Table 8. Armour late corn hybrid results, 1999-2000, Robert Clark farm. Test relative maturity is 106-day or more.

<table>
<thead>
<tr>
<th>Brand / Hybrid</th>
<th>2-yr Entries tested two years</th>
<th>2000</th>
<th>Yield - bu/a (15.5% moist)</th>
<th>Stk. Ldg.</th>
<th>Grain Bushel weight lb</th>
<th>Green snap ear pct</th>
<th></th>
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Table 8 (continued).

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<th>bushel pct</th>
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<th>Stk. Ldg.</th>
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Test average: 158 150 18 57 0 0
LSD (5%) value: 21 19 2 2
Min. top-yield value*: 158 149
Coef. of variation#: 7 8

* Top yield - within one LSD value of highest yield.
# Measure of experimental error: values of < 15% are desired.
Table 9. Beresford early corn hybrid results, 1999-2000, SE Research Farm. Test relative maturity is 110-day or less.

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<th>Brand / Hybrid</th>
<th>Entries tested two years</th>
<th>Yield - bu/a (15.5% moist) 2-yr 2000</th>
<th>Grain weight pct</th>
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<td>DAHLCO/2660</td>
<td>* 166 12 57</td>
<td>0 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASGROW/RX634</td>
<td>* 165 12 59</td>
<td>0 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GOLD COUNTRY/X69804BT</td>
<td>* 165 13 61</td>
<td>0 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WILSON/1475PT</td>
<td>* 163 14 60</td>
<td>0 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JACOBSEN/JS4645BT</td>
<td>* 162 14 61</td>
<td>0 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brand / Hybrid</td>
<td>Yield - bu/a (15.5% moist)</td>
<td>Grain moist weight lb</td>
<td>Green-snap below ear pct</td>
<td>2-yr 2000</td>
</tr>
<tr>
<td>--------------------</td>
<td>-----------------------------</td>
<td>------------------------</td>
<td>--------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>ASGROW/RX508YG</td>
<td>162</td>
<td>12</td>
<td>57</td>
<td>6</td>
</tr>
<tr>
<td>JACOBSEN/JS4685</td>
<td>160</td>
<td>13</td>
<td>61</td>
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<tr>
<td>MUSTANG/6464</td>
<td>159</td>
<td>13</td>
<td>61</td>
<td>0</td>
</tr>
<tr>
<td>GOLD COUNTRY/X39704</td>
<td>157</td>
<td>13</td>
<td>61</td>
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</tr>
<tr>
<td>GARST/N7543</td>
<td>157</td>
<td>13</td>
<td>58</td>
<td>0</td>
</tr>
<tr>
<td>TOP FARM/TFSX 7202BT</td>
<td>157</td>
<td>12</td>
<td>59</td>
<td>0</td>
</tr>
<tr>
<td>DENBESTEN/DB2106</td>
<td>156</td>
<td>14</td>
<td>63</td>
<td>0</td>
</tr>
<tr>
<td>MUSTANG/7105BT</td>
<td>156</td>
<td>13</td>
<td>62</td>
<td>0</td>
</tr>
<tr>
<td>DEKALB/DKC57-38</td>
<td>154</td>
<td>13</td>
<td>60</td>
<td>0</td>
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<tr>
<td>HOEGEMEYER/2601</td>
<td>154</td>
<td>13</td>
<td>62</td>
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</tr>
<tr>
<td>KALTENBERG/K6179</td>
<td>154</td>
<td>13</td>
<td>58</td>
<td>0</td>
</tr>
<tr>
<td>KRUGER/K-9011</td>
<td>154</td>
<td>13</td>
<td>59</td>
<td>0</td>
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<tr>
<td>GOLD COUNTRY/X60002</td>
<td>153</td>
<td>13</td>
<td>61</td>
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<tr>
<td>US SEEDS/US C1059</td>
<td>148</td>
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<td>DAHLCO/X-8054</td>
<td>145</td>
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<tr>
<td>JACOBSEN/JS4341</td>
<td>138</td>
<td>13</td>
<td>61</td>
<td>0</td>
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</tbody>
</table>

Test average: 160 168 13 60 0 2
LSD (5%) value: 22 21 1 2
Min. top-yield value*: 157 179
Coef. of variation#: 8 8

* Top yield - within one LSD value of highest yield.
# Measure of experimental error: values of < 15% are desired.
Table 10. Beresford late corn hybrid results, 1999-2000, SE Research Farm. Test relative maturity is 111-day or more.

<table>
<thead>
<tr>
<th>Brand / Hybrid</th>
<th>Yield - bu/a (15.5% moist)</th>
<th>Grain Bushel 2-yr</th>
<th>Green below</th>
<th>Stk. Ldg.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2000</td>
<td>pct</td>
<td>lb</td>
<td>pct</td>
</tr>
<tr>
<td>Entries tested two years</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KRUGER/K-9014BT</td>
<td>185</td>
<td>13</td>
<td>60</td>
<td>1</td>
</tr>
<tr>
<td>MYCOGEN/2799IMI</td>
<td>176</td>
<td>13</td>
<td>59</td>
<td>3</td>
</tr>
<tr>
<td>HEINE/HB40</td>
<td>172</td>
<td>13</td>
<td>57</td>
<td>3</td>
</tr>
<tr>
<td>DENBESTEN/DB2912BT</td>
<td>168</td>
<td>13</td>
<td>58</td>
<td>0</td>
</tr>
<tr>
<td>EPLEY/E3610BT</td>
<td>166</td>
<td>14</td>
<td>58</td>
<td>0</td>
</tr>
<tr>
<td>Sands/SOI 9126</td>
<td>162</td>
<td>13</td>
<td>60</td>
<td>0</td>
</tr>
<tr>
<td>EPLEY/E3608</td>
<td>160</td>
<td>14</td>
<td>59</td>
<td>0</td>
</tr>
<tr>
<td>WILSON/1664</td>
<td>160</td>
<td>14</td>
<td>59</td>
<td>0</td>
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<tr>
<td>DENBESTEN/DB2011BT</td>
<td>159</td>
<td>14</td>
<td>59</td>
<td>0</td>
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<tr>
<td>HOEGEMEYER/2649</td>
<td>158</td>
<td>13</td>
<td>59</td>
<td>0</td>
</tr>
<tr>
<td>HEINE/HB25</td>
<td>156</td>
<td>14</td>
<td>59</td>
<td>0</td>
</tr>
<tr>
<td>DENBESTEN/DB2611</td>
<td>156</td>
<td>14</td>
<td>59</td>
<td>0</td>
</tr>
<tr>
<td>EPLEY/E3620</td>
<td>155</td>
<td>13</td>
<td>60</td>
<td>0</td>
</tr>
<tr>
<td>JACOBSEN/JS56</td>
<td>154</td>
<td>14</td>
<td>60</td>
<td>0</td>
</tr>
<tr>
<td>MYCOGEN/2725</td>
<td>151</td>
<td>14</td>
<td>58</td>
<td>0</td>
</tr>
<tr>
<td>Entries tested one year</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KRUGER/K-9115</td>
<td>205</td>
<td>13</td>
<td>58</td>
<td>0</td>
</tr>
<tr>
<td>MYCOGEN/2833</td>
<td>205</td>
<td>14</td>
<td>59</td>
<td>0</td>
</tr>
<tr>
<td>MYCOGEN/2722IMI</td>
<td>199</td>
<td>13</td>
<td>58</td>
<td>0</td>
</tr>
<tr>
<td>DENBESTEN/DB2212</td>
<td>195</td>
<td>14</td>
<td>59</td>
<td>0</td>
</tr>
<tr>
<td>KRUGER/K-9115A</td>
<td>192</td>
<td>14</td>
<td>59</td>
<td>0</td>
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<tr>
<td>NC+/4649B</td>
<td>192</td>
<td>14</td>
<td>59</td>
<td>0</td>
</tr>
<tr>
<td>KAYSTAR/KX-787</td>
<td>189</td>
<td>14</td>
<td>59</td>
<td>0</td>
</tr>
<tr>
<td>DENBESTEN/DB2015</td>
<td>189</td>
<td>14</td>
<td>62</td>
<td>0</td>
</tr>
<tr>
<td>GARST/8464</td>
<td>188</td>
<td>15</td>
<td>59</td>
<td>0</td>
</tr>
<tr>
<td>KRUGER/K-9114</td>
<td>188</td>
<td>13</td>
<td>59</td>
<td>0</td>
</tr>
<tr>
<td>HOEGEMEYER/2666</td>
<td>186</td>
<td>15</td>
<td>59</td>
<td>0</td>
</tr>
<tr>
<td>KRUGER/K-9914</td>
<td>186</td>
<td>13</td>
<td>59</td>
<td>0</td>
</tr>
<tr>
<td>HOEGEMEYER/2659</td>
<td>185</td>
<td>14</td>
<td>60</td>
<td>0</td>
</tr>
<tr>
<td>ASGROW/RX730YG</td>
<td>182</td>
<td>14</td>
<td>60</td>
<td>0</td>
</tr>
<tr>
<td>JACOBSEN/JS4785BT</td>
<td>181</td>
<td>14</td>
<td>58</td>
<td>0</td>
</tr>
</tbody>
</table>
Table 10 (continued).

<table>
<thead>
<tr>
<th>Brand / Hybrid</th>
<th>Yield - bu/a (15.5% moist)</th>
<th>2-yr</th>
<th>2000</th>
<th>Grain moist</th>
<th>Bushel weight</th>
<th>Green-snap below ear</th>
<th>Stk.Ldg.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GARST/74771T</td>
<td>180</td>
<td>14</td>
<td>58</td>
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<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MYCOGEN/2767</td>
<td>178</td>
<td>13</td>
<td>58</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KAYSTAR/X0121</td>
<td>175</td>
<td>13</td>
<td>59</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEINE/H835</td>
<td>173</td>
<td>13</td>
<td>59</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEINE/H850</td>
<td>161</td>
<td>13</td>
<td>57</td>
<td>0</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEINE/H852</td>
<td>156</td>
<td>13</td>
<td>57</td>
<td>0</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Test average:**

<table>
<thead>
<tr>
<th></th>
<th>Yield - bu/a (15.5% moist)</th>
<th>2-yr</th>
<th>2000</th>
<th>Grain moist</th>
<th>Bushel weight</th>
<th>Green-snap below ear</th>
<th>Stk.Ldg.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>163</td>
<td>183</td>
<td>14</td>
<td>59</td>
<td>0</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**LSD (5%) value:**

|                      | 16  | 19  | 1    | 1           |               |                     |          |

**Min. top-yield value:**

|                      | 169 | 186 |      |             |               |                     |          |

**Coef. of variation#:**

|                      | 7   | 6   |      |             |               |                     |          |

* Top yield - within one LSD value of highest yield.
# Measure of experimental error: values of < 15% are desired.
Table 11. Brookings Roundup Ready early corn hybrid results, 1999-2000, SDSU Agronomy Farm. Test relative maturity is 100-day or less.

<table>
<thead>
<tr>
<th>Brand / Hybrid</th>
<th>Yield - bu/a (15.5% moist)</th>
<th>Grain weight</th>
<th>Green snap below ear</th>
<th>Stk. Ldg. 2000</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2-yr</td>
<td>2000</td>
<td>pct</td>
<td>bushel</td>
</tr>
<tr>
<td><strong>Entries tested two years</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KAYSTAR KX-6200RR</td>
<td>151</td>
<td>174</td>
<td>15</td>
<td>56</td>
</tr>
<tr>
<td>MUSTANG 5002RR</td>
<td>149</td>
<td>171</td>
<td>14</td>
<td>57</td>
</tr>
<tr>
<td>SEEDS 2000 3102RR</td>
<td>148</td>
<td>172</td>
<td>13</td>
<td>57</td>
</tr>
<tr>
<td>DENBESTEN DB2002RR</td>
<td>144</td>
<td>170</td>
<td>14</td>
<td>57</td>
</tr>
<tr>
<td>EPLEY E-1485RR</td>
<td>144</td>
<td>166</td>
<td>13</td>
<td>57</td>
</tr>
<tr>
<td><strong>Entries tested one year</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KRUGER K-9102RR</td>
<td>*</td>
<td>181</td>
<td>15</td>
<td>55</td>
</tr>
<tr>
<td>KAYSTAR KX-5700RR</td>
<td>*</td>
<td>180</td>
<td>13</td>
<td>56</td>
</tr>
<tr>
<td>MUSTANG 4002RR</td>
<td>*</td>
<td>178</td>
<td>13</td>
<td>57</td>
</tr>
<tr>
<td>TOP FARM TFSX 8201RR</td>
<td>*</td>
<td>178</td>
<td>13</td>
<td>57</td>
</tr>
<tr>
<td>US SEEDS US E981RR</td>
<td>*</td>
<td>173</td>
<td>13</td>
<td>56</td>
</tr>
<tr>
<td>KRUGER K-9199RRBT</td>
<td>*</td>
<td>172</td>
<td>14</td>
<td>56</td>
</tr>
<tr>
<td>ASGROW RX489RR</td>
<td>*</td>
<td>172</td>
<td>14</td>
<td>57</td>
</tr>
<tr>
<td>SEEDS 2000 2980RR/BT</td>
<td>*</td>
<td>172</td>
<td>13</td>
<td>56</td>
</tr>
<tr>
<td>DENBESTEN DB2195RR</td>
<td>*</td>
<td>171</td>
<td>13</td>
<td>57</td>
</tr>
<tr>
<td>DAHLCO 2541</td>
<td>*</td>
<td>166</td>
<td>13</td>
<td>56</td>
</tr>
<tr>
<td>KRUGER K-9199RR</td>
<td>*</td>
<td>165</td>
<td>13</td>
<td>56</td>
</tr>
<tr>
<td>TOP FARM TFSX 8103RR</td>
<td>*</td>
<td>164</td>
<td>13</td>
<td>56</td>
</tr>
<tr>
<td>US SEEDS US C1009RR</td>
<td>*</td>
<td>164</td>
<td>13</td>
<td>57</td>
</tr>
<tr>
<td>DAHLCO 2475RR</td>
<td>*</td>
<td>143</td>
<td>14</td>
<td>60</td>
</tr>
</tbody>
</table>

Test average: 147  170  13  57  0  0
LSD (5%) value: NS  10  1  1
Min. top-yield value*: 144  171
Coef. of variation#: 2  4

* Top yield - within one LSD value of highest yield.
NS indicates values within a column are not significantly different.
# Measure of experimental error: values of < 15% are desired.
Table 12. Brookings Roundup Ready late corn hybrid results, 1999-2000, SDSU Agronomy Farm. Test relative maturity is 101-day or more.

<table>
<thead>
<tr>
<th>Brand / Hybrid</th>
<th>Yield - bu/a (15.5% moist) 2-yr 2000</th>
<th>Grain moist pct</th>
<th>Bushel weight lb</th>
<th>Green stem snap pct</th>
<th>below ear pct</th>
<th>Stk.Ldg.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mustang 6005RR</td>
<td>171 (15.5% moist)</td>
<td>198</td>
<td>22</td>
<td>54</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Denbesten DB2012RR</td>
<td>164 (15.5% moist)</td>
<td>181</td>
<td>17</td>
<td>53</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Top Farm TFSX 8105RR</td>
<td>215 (15.5% moist)</td>
<td>201</td>
<td>17</td>
<td>56</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Seeds 2000 3104RR</td>
<td>201 (15.5% moist)</td>
<td>17</td>
<td>56</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Kruger K-9913RRB</td>
<td>200 (15.5% moist)</td>
<td>21</td>
<td>53</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Denbesten DB2004RR</td>
<td>198 (15.5% moist)</td>
<td>18</td>
<td>55</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Epley E-1515RR</td>
<td>193 (15.5% moist)</td>
<td>17</td>
<td>55</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Entries tested two years

Entries tested one year

<table>
<thead>
<tr>
<th>entries tested one year</th>
<th>Yield - bu/a (15.5% moist) 2-yr 2000</th>
<th>Grain moist pct</th>
<th>Bushel weight lb</th>
<th>Green stem snap pct</th>
<th>below ear pct</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mustang 6005RR</td>
<td>171</td>
<td>198</td>
<td>22</td>
<td>54</td>
<td>0</td>
</tr>
<tr>
<td>Denbesten DB2012RR</td>
<td>164</td>
<td>181</td>
<td>17</td>
<td>53</td>
<td>0</td>
</tr>
<tr>
<td>Top Farm TFSX 8105RR</td>
<td>215</td>
<td>201</td>
<td>17</td>
<td>56</td>
<td>0</td>
</tr>
<tr>
<td>Seeds 2000 3104RR</td>
<td>201</td>
<td>17</td>
<td>56</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Kruger K-9913RRB</td>
<td>200</td>
<td>21</td>
<td>53</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Denbesten DB2004RR</td>
<td>198</td>
<td>18</td>
<td>55</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Epley E-1515RR</td>
<td>193</td>
<td>17</td>
<td>55</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Test average: 167 (2000) 188 18 54 0 0
LSD (5%) value: NS 2 2
Min. top-yield value*: 164 200
Coef. of variation#: 3 5

* Top yield - within one LSD value of highest yield.
NS indicates values within a column are not significantly different.
# Measure of experimental error: values of < 15% are desired.
Table 13. Beresford Roundup Ready corn hybrid results, 1999-2000, SE Research Farm. Test relative maturity is 111-day or less.

<table>
<thead>
<tr>
<th>Brand / Hybrid</th>
<th>Yield - bu/a (15.5% moist)</th>
<th>Grain Bushel weight pct</th>
<th>Green snap below ear pct</th>
<th>Stk.Ldg.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2-yr 2000</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Entries tested two years</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSTANG 6005RR</td>
<td>150</td>
<td>171</td>
<td>13</td>
<td>57</td>
</tr>
<tr>
<td>ASGROW RX601RR/YG</td>
<td>150</td>
<td>165</td>
<td>13</td>
<td>60</td>
</tr>
<tr>
<td>DENBESTEN DB2012RR</td>
<td>146</td>
<td>174</td>
<td>13</td>
<td>58</td>
</tr>
<tr>
<td>KAYSTAR KX-7700RR</td>
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<td>164</td>
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Test average: 143 165 13 58 0 1

LSD (5%) value: NS 27 1 2

Min. top-yield value*: 135 163

Coef. of variation#: 13 10

* Top yield - within one LSD value of highest yield.
NS indicates values within a column are not significantly different.
# Measure of experimental error: values of < 15% are desired.