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2003 CORN CROP REVIEW

Statewide Growing Conditions
The 2003 growing season was similar to the previous year with a prolonged dry period in July and August. The 2003 season started out with better soil moisture than in 2002. The favorable topsoil moisture situation continued through late June in most areas. However, during July and August, much of Kansas received little rainfall, and maximum temperatures often were over 100°F, rapidly depleting stored soil moisture. The percent of Kansas crop acreage with topsoil moisture rated as short or very short increased from less than 20% in late June to nearly 90% in late July (Figure 1). More than 90% of the crop acreage was rated as short or very short during the entire month of August. September rains improved the soil moisture situation, but provided little benefit to the corn crop.

Figure 1. Statewide status of topsoil moisture.

The combination of limited topsoil moisture and high temperatures took its toll on the corn crop. The condition of the corn crop dropped rapidly beginning in mid-July. Roughly 70% of the crop was rated as good or excellent in early July. By early August, that percentage had dropped to roughly 20%, where it stayed until harvest (Figure 2). (Crop-Weather Reports, Kansas Agricultural Statistics, Topeka)

Diseases
Most problems associated with the 2003 Kansas corn crop were environmental in nature. April and May were unusually cool and wet, which led to several problems. Most conspicuous was a physiological problem known as cold weather crown decay. When soils are cool and wet early in the year, the amount of oxygen available to the crown of the plant becomes limited, causing significant crown damage. Symptoms are similar to late season stalk rot. The damaged crown can result in plants that are stunted or show various nutrient deficiency symptoms such as potash, phosphorus, and zinc.

Gray leaf spot reached moderate to high levels on susceptible hybrids in south central and southwest Kansas in June, resulting in the need for fungicide applications in some instances.

July and August were exceedingly hot, similar to 2002. This resulted in poor pollination and ear development not only in dryland corn, but in some irrigated fields as well. The hot, dry weather during grain fill was also favorable to the development of Aspergillus flavus, the ear fungus that produces aflatoxin.

Stalk rot is a stress-induced disease. The wet, early season weather combined with the hot, dry weather during the middle part of the growing season to result in significant stalk rot and lodging in many corn fields. While several fungi can cause stalk rot, Fusarium stalk rot and charcoal rot were the most common in 2003.

(Doug Jardine, Kansas State University Department of Plant Pathology)

Insects
Spring planting/growing conditions varied considerably throughout the state in 2003. Many growers were able to plant relatively early but then endured some cooler weather, which retarded germination. This allowed soil-inhabiting insects more time to attack the seed. Even growers using insecticide-treated seed or a planting-time insecticide application had problems. In some cases the seed took 45 to 60 days to germinate, and most soil insecticides provide good seed protection for only about 21 to 28 days. Thus, wireworms, white grubs, etc., caused some early season damage. Southwest and south-central Kansas experienced about average spider mite problems. European corn borer populations remained relatively low across the state. Southwestern corn borers caused problems in a few southwestern fields. Corn rootworm populations appeared spotty in central and western Kansas, but no large problems were reported.

(Jeff Whitworth, Kansas State University Department of Entomology)
Harvest Statistics

The October 10 Crops Report predicted a 326 million bushel crop, up 14% from last year (Figure 3). In 2003, 2.65 million acres were harvested, up 2% from 2002. The predicted average yield of 123 bushels per acre is 13 bushels above the 2002 average. (Kansas Agricultural Statistics)

The growth unit or growing degree day concept was developed to measure the amount of heat available for growth and maturation. To calculate the daily accumulation, add the maximum and minimum temperatures for each day, divide by 2, and subtract a base temperature of 50. Any temperature below 50°F was considered to be 50, and any temperature over 86°F was considered 86.

Explanatory information is given preceding data summaries for each test. Tables 1 through 24 contain results from the individual performance tests. Hybrids are listed in order of increasing days to half silk and increasing grain moisture for the current year, so hybrids of similar maturity appear together.

Figures 4 through 9 graphically summarize yield and maturity information over the past 3 years for each region. In these figures, hybrid performance is standardized using the average of two check hybrids present in every test. The number beside each bar shows the number of tests where a given hybrid was compared with the check hybrids. In general, the greater the number of comparisons, the greater confidence one can place in the stated performance of that hybrid. Symbols beside each bar indicate if a hybrid was significantly greater (+) or lower (-) than the average of the check hybrids. As with individual test results, small differences should not be overemphasized. Relative ranking and large differences are better indicators of performance.

Most corn tests were planted at a rate 10% to 20% above the desired population and thinned only to remove doubles. Planting to stand enables evaluation of product performance for the entire growing season.

Four plots (replications) of each hybrid were grown at each location in a randomized complete block design. Each harvested plot consisted of two rows trimmed to a specific length ranging from 20 to 30 feet at the different locations. Four-row plots were used at some locations where drought stress is common. Tests were harvested with specialized plot combines equipped with automatic weighing and sampling devices.

Grain yields are reported as bushels per acre of shelled grain (56 lbs/bu) adjusted to a moisture content of 15.5%. Yields also are presented as percent of test average to speed recognition of highest-yielding hybrids. Hybrids yielding more than 100% of the test average year after year merit consideration. Adaptation to individual farms for appropriate maturity, stalk strength, and other factors also must be considered.

The percentage of lodged stalks is reported when appropriate. Plants broken over below the ear and dropped ears were considered lodged, although most were harvestable with modern machinery. Severely lodged stalks or dropped ears that could not be picked up by normal harvest procedures were not included in yield. Because harvest often is delayed until latest maturing entries are ripe,
early and mid-season hybrids could lose ears simply because they must wait well past their optimum harvest date. In most years at most locations, dropped ears constitute a very small portion of lodging and do not significantly affect yields.

Relative maturity is measured in terms of both number of days from planting to silking and grain moisture at harvest. Entries are listed in order of increasing maturity based on days to silking and harvest moisture in the current year to facilitate comparison of hybrids of like maturity. Maturity can be critical when considering a corn hybrid for a specific cropping system.

Small differences in yield or other characteristics should not be overemphasized. Least significant differences (LSDs) are shown at the bottom of each table. Unless two entries differ by at least the LSD shown, little confidence can be placed in one being superior to the other. The coefficient of variability (CV) can be used in combination with the LSD to estimate the degree of confidence one can have in published data from replicated tests.

### Table 1. Companies entering hybrids in the 2003 Kansas Corn Performance Tests.

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<th>Company Name</th>
<th>Location</th>
<th>Phone Number</th>
<th>Website</th>
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<td>AgSource Seeds Inc</td>
<td>Boone, IA</td>
<td>515-432-8100</td>
<td>agsourceseeds.com</td>
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<td>Monsanto Seed</td>
<td>St. Louis, MO</td>
<td>800-833-5252</td>
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<td>Kaystar Seed</td>
<td>Huron, SD</td>
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<td>Dike, IA</td>
<td>800-772-2721</td>
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<tr>
<td>Lewis Hybrids Inc</td>
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<td>800-252-7851</td>
<td>lewishybrids.com</td>
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<tr>
<td>LG Seeds</td>
<td>Gibbon, NE</td>
<td>877-505-7313</td>
<td><a href="mailto:lgseedsokny@nebi.com">lgseedsokny@nebi.com</a></td>
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<tr>
<td>Midland Genetics Group</td>
<td>Ottawa, KS</td>
<td>800-819-SEED</td>
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<td>785-548-7393</td>
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<td>Hawkeye Hybrids Inc</td>
<td>Pella, IA</td>
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<td>Triumph Seed Co Inc</td>
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NORTHEAST KANSAS DRYLAND CORN TEST ON SILT LOAM SOIL

Private farm 1 mile north of Severance; Fuhrman Farms, Inc.

Manona silt loam; Soybean in 2002.

Planted on 4/17/03; Harvested on 9/10/03

150 - 0 - 0 lb/a N, P, K

8.0 plants/acre; 26,000 Target stand of

This location missed many of the June rains received by the rest of eastern Kansas. Drought stress and associated stalk rots contributed to severe lodging.

Table 2. Severance Corn Performance Test, 2001-2003.

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<td>88 17 90 41 55</td>
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<td>LSD (0.05)**</td>
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<td>22 18 20 - - 20 13 11 - - 2</td>
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** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other.
NORTHEAST KANSAS DRYLAND CORN TEST ON SILTY CLAY LOAM SOIL

Private farm north of Powhattan; Larry Maddux, agronomist; Charles Clark and William Riley, technicians

Grundy silty clay loam; Soybean in 2002

110 - 0 - 0 lb/a N, P, K

Planted on 4/17/03; Harvested on 9/12/03

Target stand of 23,000 plants/acre; 9.1 in. spacing

Emergence and stand establishment were variable. Rainfall was light in May and very sparse in July and August, severely limiting yields.

Monthly Precipitation (inches)

<table>
<thead>
<tr>
<th>Month</th>
<th>Precipitation</th>
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<tbody>
<tr>
<td>Oct.-Mar.</td>
<td>7.9</td>
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<tr>
<td>April</td>
<td>4.7</td>
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<td>May</td>
<td>2.8</td>
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<td>5.6</td>
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<td>August</td>
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<td>Sept.</td>
<td>1.7</td>
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<tr>
<td>Totals</td>
<td>25.7</td>
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Precipitation was low throughout the growing season, with a peak in August. Days to Silk were variable, with most cultivars having over 100 days.

Table 3. Powhattan Corn Performance Test, 2001-2003.

<table>
<thead>
<tr>
<th>BRAND NAME</th>
<th>ACRE YIELD, BUSHELS</th>
<th>YIELD AS % OF TEST AVERAGE</th>
<th>2002-2003</th>
<th>2003</th>
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<td>2002</td>
<td>2001</td>
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<td>RENZE 9454YGCB/RR</td>
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(continued)
### Table 3. Powhattan Corn Performance Test, 2001-2003 - continued.

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<th>BRAND</th>
<th>NAME</th>
<th>ACRE YIELD, BUSHELS</th>
<th>2002-2003</th>
<th>2003</th>
<th>2-Yr. AVG.</th>
<th>3-Yr. AVG.</th>
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<th>Grain Moist. %</th>
<th>Final Stand %</th>
<th>Ldg</th>
<th>Test Wt. lb/bu</th>
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| MATURITY CHECK | MID - H2649 | 71 56 190 64 106 | 92 114 105 83 16 | 83 16 90 -- | 55 |
| KRUGER | K-9415 | 84 -- -- -- -- | 108 -- -- -- -- | 83 17 96 -- | 54 |
| GARST | 8454YG1 | 72 -- -- -- -- | 93 -- -- -- -- | 83 18 78 -- | 53 |
| LEWIS | 7044YGCB | 92 -- -- -- -- | 119 -- -- -- -- | 83 18 91 -- | 53 |
| MYCOCEN | 2G768 | 82 -- -- -- -- | 106 -- -- -- -- | 83 18 93 -- | 54 |
| THOMPSON | T-5115RR/YGCB | 79 -- -- -- -- | 102 -- -- -- -- | 83 18 69 -- | 54 |

| AGSOURCE | 6203Bt | 62 49 -- 55 -- | 80 99 -- 84 20 | 83 19 78 -- | 57 |
| KRUGER | EX115YGCB | 71 -- -- -- -- | 92 -- -- -- -- | 83 19 94 -- | 55 |
| KRUGER | K-9115YGCB | 66 -- -- -- -- | 85 -- -- -- -- | 83 19 67 -- | 53 |
| KRUGER | EX215 | 64 -- -- -- -- | 83 -- -- -- -- | 83 20 87 -- | 56 |
| RENZE | 6424 | 74 -- -- -- -- | 95 -- -- -- -- | 83 20 97 -- | 54 |
| THOMPSON | T-4115YGCB | 71 -- -- -- -- | 91 -- -- -- -- | 83 20 86 -- | 53 |

| HAWKEYE | 2725 | 84 -- -- -- -- | 109 -- -- -- -- | 84 16 93 -- | 54 |
| KRUGER | K-9412YGCB | 75 -- -- -- -- | 97 -- -- -- -- | 84 18 91 -- | 57 |
| DEKALB | DK63-79YGCB | 57 -- -- -- -- | 73 -- -- -- -- | 84 19 95 -- | 58 |
| MIDWEST SEED | G 7950 | 74 -- 190 -- | 95 -- 105 -- | 84 19 96 -- | 57 |
| PFISTER | 2750Bt | 73 -- -- -- -- | 95 -- -- -- -- | 84 19 94 -- | 54 |
| KRUGER | K-9315YGCB | 65 47 -- 56 -- | 85 95 -- 83 20 | 84 20 90 -- | 55 |
| KRUGER | K-9414 | 65 -- -- -- -- | 84 -- -- -- -- | 84 20 104 -- | 54 |
| NC+ | 5202B | 59 51 -- 55 -- | 76 104 -- 84 20 | 84 21 79 -- | 55 |
| KRUGER | K-9017YGCB | 66 62 -- 64 -- | 85 125 -- 84 23 | 84 23 81 -- | 53 |

| PFISTER | 2760 | 72 -- -- -- -- | 93 -- -- -- -- | 85 17 91 -- | 55 |
| GARST | 8350YG1 | 66 -- -- -- -- | 85 -- -- -- -- | 85 19 99 -- | 54 |
| KRUGER | EX617YGCB | 89 -- -- -- -- | 115 -- -- -- -- | 85 19 96 -- | 53 |
| PFISTER | 3356Bt | 84 -- -- -- -- | 109 -- -- -- -- | 85 19 97 -- | 52 |
| PIONEER | 33R77 | 68 43 208 55 106 | 88 88 115 86 18 | 85 19 90 -- | 54 |
| MIDLAND | 7A28Bt | 91 -- -- -- -- | 118 -- -- -- -- | 85 20 94 -- | 50 |
| MIDLAND | 7A36 | 66 43 -- 55 -- | 85 88 -- 85 20 | 85 20 72 -- | 56 |
| NC+ | 5433RB | 64 -- -- -- -- | 82 -- -- -- -- | 85 20 82 -- | 54 |
| MATURITY CHECK | FULL - M798 | 65 53 182 59 100 | 85 108 101 86 21 | 85 22 94 -- | 54 |
| THOMPSON | T-2015BT | 79 -- -- -- -- | 103 -- -- -- -- | 85 22 101 -- | 52 |

| AGSOURCE | 7783Bt | 84 -- -- -- -- | 109 -- -- -- -- | 86 19 94 -- | 51 |
| PFISTER | 3030Bt | 70 40 -- 55 -- | 91 82 -- 86 19 | 86 20 93 -- | 53 |
| PIONEER | 32H69 | 82 -- -- -- -- | 105 -- -- -- -- | 86 21 97 -- | 58 |

| AVERAGES | 77 49 180 63 102 | 77 49 180 83 18 | 83 18 91 -- | 55 |
| CV (%) | 10 17 6 -- -- | 10 17 6 -- -- | 1 6 9 -- | 1 |
| LSD (0.05)** | 12 12 16 -- -- | 16 24 9 -- -- | 2 2 13 -- | 1 |

** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other.
NORTHEAST KANSAS DRYLAND CORN TEST ON SILT LOAM SOIL

Agronomy North Farm near Manhattan; Kraig Roozeboom, agronomist; Karl Mannschreck, superintendent

Reading silt loam; Soybean in 2002

120 - 0 - 0 lb/a N, P, K

Planted on 4/14/03; Harvested on 9/8/03

Target stand of 23,000 plants/acre; 9.1 in. spacing

Excellent conditions through June and good soil moisture during July resulted in excellent dryland yields. Extremely hot and dry in July and August.

### Monthly Precipitation Table

<table>
<thead>
<tr>
<th>Month</th>
<th>Precipitation (inches)</th>
<th>Average Temp. (°F)</th>
<th>GDU</th>
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<td>Oct.-Mar.</td>
<td>9.1</td>
<td>8.7</td>
<td>39</td>
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<tr>
<td>April</td>
<td>4.2</td>
<td>2.7</td>
<td>58</td>
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<tr>
<td>May</td>
<td>2.8</td>
<td>4.5</td>
<td>63</td>
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<tr>
<td>June</td>
<td>7.8</td>
<td>5.1</td>
<td>71</td>
</tr>
<tr>
<td>July</td>
<td>2.1</td>
<td>3.9</td>
<td>82</td>
</tr>
<tr>
<td>August</td>
<td>4.6</td>
<td>3.5</td>
<td>81</td>
</tr>
<tr>
<td>Sept.</td>
<td>2.2</td>
<td>3.8</td>
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<tr>
<td>Totals:</td>
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<td>32.2</td>
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### Daily Temperatures (°F)

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<td>8.7</td>
<td>39</td>
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<tr>
<td>April</td>
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<tr>
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<tr>
<td>Sept.</td>
<td>2.2</td>
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### Table 4. Manhattan Corn Performance Test, 2001-2003.

<table>
<thead>
<tr>
<th>BRAND</th>
<th>NAME</th>
<th>ACRE YIELD, BUSHELS</th>
<th>YIELD AS % OF TEST AVERAGE</th>
<th>2002-2003</th>
<th>2003</th>
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<tbody>
<tr>
<td>DEKALB</td>
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(continued)
Table 4. Manhattan Corn Performance Test, 2001-2003 - continued.

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** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other.
### Table 5. NORTHEAST Kansas corn hybrid yield summary (% of test average), 2003.

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\(^1\) SEV = Severance, Doniphan Co.  POW = Powhattan, Brown Co.  BEL = Belleville, Republic Co.  MAN = Manhattan, Riley Co.

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Values beside bars indicate the number of comparisons with checks. Symbols (+,-) indicate if statistically higher or lower than mean of checks.
NORTHEAST KANSAS SPRINKLER IRRIGATED CORN TEST ON SILT LOAM SOIL

Kansas River Valley Experiment Field, Topeka; Larry Maddux, agronomist; Charles Clark and William Riley, technicians

Eudora silty loam; Soybean in 2002

160 - 35 - 0 lb/a N, P, K

Planted on 4/11/03; Harvested on 9/16/03

Target stand of 26,000 plants/acre; 8.0 in. spacing

Early-season irrigation problems may have limited yields to some extent. Disease and insect problems were minimal.

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** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other.
NORTHEAST KANSAS SPRINKLER IRRIGATED CORN TEST ON SILT LOAM SOIL

Mark Taddiken farm near Clay Center; Mark Taddiken; Taddiken Farm, Inc.

Muir silt loam; Soybean in 2002

200 - 15 - 0 lb/a N, P, K

Planted on 4/22/03; Harvested on 10/16/03

Target stand of 30,000 plants/acre; 7.0 in. spacing

Good seedbed, emergence and early growth. Hot, dry summer. Some stalk rot.

Muir silt loam; Soybean in 2002

Mark Taddiken farm near Clay Center; Mark Taddiken; Taddiken Farm, Inc.

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### Table 7. Clay Center Irrigated Corn Performance Test, 2001-2003 - continued.

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** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other.
NORTH CENTRAL KANSAS SPRINKLER IRRIGATED CORN TEST

Irrigation Experiment Field, Scandia; Barney Gordon, agronomist; Michael Larson and Allan Milner, technicians

Crete silt loam; Soybean in 2002

220 - 30 - 0 lb/a N, P, K

Planted on 4/22/03; Harvested on 10/14/03

Target stand of 30,000 plants/acre; 7.0 in. spacing

Excellent stands; no significant insect or disease problems.

Crete silt loam; Soybean in 2002

Irrigation Experiment Field, Scandia; Barney Gordon, agronomist; Michael Larson and Allan Milner, technicians

Daily Temperatures (F)

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Table 8. Scandia Irrigated Corn Performance Test, 2001-2003.

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(continued)
Table 8. Scandia Irrigated Corn Performance Test, 2001-2003 - continued.

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** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other.

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¹ TOP = Topeka, Shawnee Co.  CLI = Clifton, Clay Co.  SCA = Scandia, Republic Co.
Figure 5. NORTHEAST Kansas IRRIGATED corn hybrid standardized performance summary, 2001-2003.

Values beside bars indicate the number of comparisons with checks. Symbols (+,-) indicate if statistically higher or lower than mean of checks.
NORTHEAST KANSAS DRYLAND CORN TEST ON SILTY CLAY LOAM

Private farm northwest of Topeka; Larry Maddux, agronomist; Charles Clark and William Riley, technicians

Silt loam; Soybean in 2002
140 - 35 - 0 lb/a N, P, K

Planted on 4/11/03; Harvested on 8/27/03
Target stand of 22,000 plants/acre; 9.5 in. spacing

Extremely dry conditions in July and August reduced yields. High winds caused considerable lodging prior to harvest.

Private farm northwest of Topeka; Larry Maddux, agronomist; Charles Clark and William Riley, technicians

Daily Temperatures (F)

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Table 10. Topeka Dryland Corn Performance Test, 2001-2003.

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### Table 10. Topeka Dryland Corn Performance Test, 2001-2003 - continued.

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** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other.
SOUTHEAST KANSAS DRYLAND CORN TEST ON RIVER-BOTTOM SILT LOAM SOIL

Private farm south of Erie; James Long, agronomist; Kelly Kusel, research technician
Lanton silt loam; Soybean in 2002
220 - 100 - 100 lb/a N, P, K
Planted on 4/1/03; Harvested on 9/9/03
Target stand of 25,000 plants/acre; 8.4 in. spacing
Good planting conditions and excellent soil moisture through pollination carried the test through to harvest.
Lanton silt loam; Soybean in 2002
Private farm south of Erie; James Long, agronomist; Kelly Kusel, research technician


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** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other.
Table 12. EAST Kansas corn hybrid yield summary (% of test average), 2003.

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1 TOP = Topeka, Shawnee Co.  OTT = Ottawa, Franklin Co.  ERI = Erie, Neosho Co.
**Figure 6. EAST Kansas corn hybrid standardized performance summary, 2001-2003.**

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<tr>
<th></th>
<th>Yield (bu/a)</th>
<th>Maturity (days to silk)</th>
<th>Moisture (%)</th>
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Values beside bars indicate the number of comparisons with checks. Symbols (+,-) indicate if statistically higher or lower than mean of checks.
EAST CENTRAL KANSAS DRYLAND SHORT-SEASON CORN TEST ON SILT LOAM SOIL

East Central Kansas Experiment Field, Ottawa; Keith Janssen, agronomist; Jim Kimball, technician

Woodson silt loam; Soybean in 2002
111 - 35 - 0 lb/a N, P, K
Planted on 4/17/03; Harvested on 8/27/03
Target stand of 22,000 plants/acre; 9.5 in. spacing
Excellent spring, but summer was hot and very dry. The corn died before fully mature. Yields were highly correlated with maturity.

Woodson silt loam; Soybean in 2002

East Central Kansas Experiment Field, Ottawa; Keith Janssen, agronomist; Jim Kimball, technician

Daily Temperatures (F)

<table>
<thead>
<tr>
<th>Month</th>
<th>Precipitation (inches)</th>
<th>Average Temp.</th>
<th>GDU</th>
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<tr>
<td>May</td>
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<td>4.6</td>
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<td>June</td>
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<td>4.9</td>
<td>73</td>
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<td>July</td>
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<td>4.0</td>
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<tr>
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<th>2003</th>
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** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other.
SOUTHEAST KANSAS DRYLAND SHORT-SEASON CORN TEST

Four-State Farm Show, Pittsburg; James Long, agronomist; Kelly Kusel, research technician

Parsons silt loam; Soybean in 2002
140 - 70 - 70 lb/a N, P, K
Planted on 3/27/03; Harvested on 8/18/03
Target stand of 20,000 plants/acre; 10.5 in. spacing
Excellent conditions until mid-June, then hot and very dry until harvest.

Parsons silt loam; Soybean in 2002
Four-State Farm Show, Pittsburg; James Long, agronomist; Kelly Kusel, research technician

Daily Temperatures (F)

<table>
<thead>
<tr>
<th>Month</th>
<th>Precipitation (inches)</th>
<th>Average Temp.</th>
<th>GDU</th>
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** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other.
### Table 15. SOUTHEAST SHORT-SEASON corn hybrid yield summary (% of test average), 2003.

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<sup>1</sup> OTT = Ottawa, Franklin Co.  PIT = Pittsburg, Crawford Co.

### Figure 7. Kansas SHORT-SEASON corn hybrid standardized performance summary, 2001-2003.

Values beside bars indicate the number of comparisons with checks. Symbols (+,-) indicate if statistically higher or lower than mean of checks.
SOUTH CENTRAL KANSAS MINIMUM-TILL, DRYLAND CORN TEST ON SILT LOAM SOIL

Harvey County Experiment Field, Hesston; Mark Claassen, agronomist; Lowell Stucky and Kevin Duerksen, technicians

Irwin silty clay loam; Wheat in 2002

Planted on 4/15/03; Harvested on 8/27/03

125 - 37 - 0 lb/a N, P, K

SOUTH CENTRAL KANSAS MINIMUM-TILL, DRYLAND CORN TEST ON SILT LOAM SOIL

10.5 plants/acre; in. spacing 20,000

Target stand of

Dry seedbed, 2.5" rain within 4 days. Cool, dry May and June; hot, dry July and August; severe drought stress.

Irwin silty clay loam; Wheat in 2002

Harvey County Experiment Field, Hesston; Mark Claassen, agronomist; Lowell Stucky and Kevin Duerksen, technicians

Daily Temperatures (F)

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Totals: 29.7 30.8 54 56 3,853 3,870


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AVERAGES | 14 | 59 | 30 | 36 | 34 | 14 | 59 | 30 | 77 | 11 | 78 | 11 | 108 | 4 | 53 |

CV (%) | 32 | 8 | 15 | -- | -- | 32 | 8 | 15 | -- | -- | 1 | 5 | 5 | 104 | 4 |
| LSD (0.05)** | 6 | 6 | 6 | -- | -- | 44 | 11 | 21 | -- | -- | 1 | 1 | 8 | 6 | 3 |

** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other.
SOUTH CENTRAL KANSAS IRRIGATED CORN TEST ON SILT LOAM SOIL

Inman, Kansas; Kraig Roozeboom, agronomist; Don Schroeder, cooperator

Crete silt loam; Soybean in 2002

Planted on 4/10/03; Harvested on 9/17/03

165 - 30 - 0 lb/a N, P, K

Excellently planted and growing conditions, combined with adequate irrigation, produced excellent yields.

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** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other.

This publication from the Kansas State University Agricultural Experiment Station and Cooperative Extension Service has been archived. Current information is available from http://www.ksre.ksu.edu.
SOUTH CENTRAL KANSAS IRRIGATED CORN TEST ON SANDY LOAM SOIL

Evans Seed Farm; Bill Heer, agronomist
Punkin silt loam; Soybean in 2002
200 - 30 - 0 lb/a N, P, K
Planted on 4/10/03; Harvested on 9/17/03
Target stand of 30,000 plants/acre; 7.0 in. spacing
Favorable spring and early summer conditions, along with adequate irrigation in July and August, set up the test for excellent yields.

Daily Temperatures (F)

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** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other.
SOUTH CENTRAL KANSAS IRRIGATED CORN TEST ON SANDY LOAM SOIL

Russell & Son Farms, St. John; Victor Martin, agronomist; Jeff Scott, technician

Naron loamy fine sand; Corn in 2002

225 - 0 - 0 lb/a N, P, K

Planted on 5/6/03; Harvested on 10/17/03

Target stand of 30,000 plants/acre; 7.0 in. spacing

The test started slowly and silked later than normal, which may have reduced yields. No significant disease or insect problems were noted.


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** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other.
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1 INM = Inman, McPherson Co.  HUT = Hutchinson, Reno Co.  STJ = St. John, Stafford Co.
Figure 8. CENTRAL Kansas IRRIGATED corn hybrid standardized performance summary, 2001-2003.

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<th>Breed</th>
<th>Yield (bu/a)</th>
<th>Maturity (days to silk)</th>
<th>Moisture (%)</th>
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Values beside bars indicate the number of comparisons with checks. Symbols (+,-) indicate if statistically higher or lower than mean of checks.
NORTH CENTRAL KANSAS NO-TILL, DRYLAND CORN TEST

KSU Agricultural Research Center - Hays; Ken Kofoid, agronomist

Harney clay loam; Soybean in 2002

65 - 0 - 0 lb/a N, P, K

Planted on 4/21/03; Harvested on 8/19/03

Target stand of 17,000 plants/acre; 12.3 in. spacing

Excellent stands and early growth through early June; hot dry conditions at silking and beyond. Most plants barren; cut for silage and sampled for grain yield.

Harney clay loam; Soybean in 2002

KSU Agricultural Research Center - Hays; Ken Kofoid, agronomist

Daily Temperatures (F)

<table>
<thead>
<tr>
<th>Month</th>
<th>Precipitation (inches)</th>
<th>Average Temp. (°F)</th>
<th>GDU</th>
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<tbody>
<tr>
<td>April</td>
<td></td>
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<td>July</td>
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<td></td>
</tr>
<tr>
<td>August</td>
<td></td>
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<td></td>
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<tr>
<td>Sept.</td>
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<th>BRAND</th>
<th>NAME</th>
<th>ACRE YIELD, BUSHELS</th>
<th>YIELD AS % OF TEST AVERAGE</th>
<th>2001-2003</th>
<th>2003</th>
<th>AVERAGE</th>
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<td>51 101</td>
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<td>5</td>
<td>10 11</td>
<td>67</td>
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** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other.
NORTHWEST KANSAS IRRIGATED CORN TEST ON SILT LOAM SOIL

Northwest Research-Extension Center, Colby; Patrick Evans, agronomist

Keith silt loam; Sunflower in 2002
225 - 60 - 0 lb/a N, P, K
Planted on 5/5/03; Harvested on 10/10/03
Target stand of 30,000 plants/acre; 7.0 in. spacing
Good spring moisture and stand establishment. Hot, dry summer; spider mites caused some damage.

Daily Temperatures (F)

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<th>Month</th>
<th>Precipitation (inches)</th>
<th>Average Temp.</th>
<th>GDU</th>
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Table 22. Colby Irrigated Corn Performance Test, 2001-2003.

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<th>YIELD AS % OF TEST AVERAGE</th>
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(continued)
Table 22. Colby Irrigated Corn Performance Test, 2001-2003 - continued.

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<th>BRAND</th>
<th>NAME</th>
<th>ACRE YIELD, BUSHELS</th>
<th>YIELD AS % OF TEST AVERAGE</th>
<th>2-Yr. AVG.</th>
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** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other.
WEST CENTRAL KANSAS IRRIGATED CORN TEST ON SILT LOAM SOIL

Southwest Research-Extension Center, Tribune; Alan Schlegel, agronomist

Ulysses silt loam; Sorghum in 2002

185 - 17 - 0 lb/a N, P, K

Planted on 4/29/03; Harvested on 9/29/03

Target stand of 30,000 plants/acre; 7.0 in. spacing

Lack of insect or disease problems combined with adequate irrigation and favorable silking conditions to produce excellent yields.


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This publication from the Kansas State University Agricultural Experiment Station and Cooperative Extension Service has been archived. Current information is available from http://www.ksre.ksu.edu.
Table 23. Tribune Irrigated Corn Performance Test, 2001-2003 - continued.

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** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other.
SOUTHWEST KANSAS IRRIGATED CORN TEST ON SILT LOAM SOIL

Southwest Research-Extension Center, Garden City; Merle Witt, agronomist

Keith silt loam; Soybean in 2002

180 - 0 - 0 lb/a N, P, K

SOUTHWEST KANSAS IRRIGATED CORN TEST ON SILT LOAM SOIL

7.0 plants/acre; in. spacing 30,000

Target stand of

Cool, wet May; June - 2 degrees below normal; July - 7 degrees above normal; August - 5 degrees above normal.


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**NOTE:**
1. COL = Colby, Thomas Co.  TRI = Tribune, Greeley Co.  GC = Garden City, Finney Co.
2. This information has been archived. Current information is available from http://www.ksre.ksu.edu.
Figure 9. WEST Kansas IRRIGATED corn hybrid standardized performance summary, 2001-2003.

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### APPENDIX: Entries in the 2003 Kansas Corn Performance Tests

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**GDD** = growing degree days; **DBL** = days to black layer; **RES** = herbicide, disease, and insect resistance traits (Bt, BtCB, YG, YGCB = transgenic corn borer protection, BRW = transgenic rootworm protection, ECB = European corn borer resistance, CL, IT, IMI = imidazolinone resistant/tolerant, LL = Liberty Link, RR = Roundup Ready, GLS = gray leaf spot); **P** = prolific; **F** = flex ear. Values provided by entrants.

* (continued)
## APPENDIX: Entries in the 2003 Kansas Corn Performance Tests

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*GDD = growing degree days; DBL = days to black layer; RES = herbicide, disease, and insect resistance traits (Bt, BtCB, YG, YGCB = transgenic corn borer protection, BRW = transgenic rootworm protection, ECB = European corn borer resistance, CL, IT, IMI = imidazolinone resistant/tolerant, LL = Liberty Link, RR = Roundup Ready, GLS = gray leaf spot); P = prolific; F = flex ear. Values provided by entrants.
For those interested in accessing crop performance testing information electronically, visit our World Wide Web site. Most of the information contained in this publication is available for viewing or downloading.

The URL is http://www.ksu.edu/kscpt.

Excerpts from the UNIVERSITY RESEARCH POLICY AGREEMENT
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Permission is hereby given to Kansas State University to test varieties and/or hybrids designated on the attached entry forms in the manner indicated in the test announcements. I certify that seed submitted for testing is a true sample of the seed being offered for sale.

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NOTE: Trade names are used to identify products. No endorsement is intended, nor is any criticism implied of similar products not named.

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