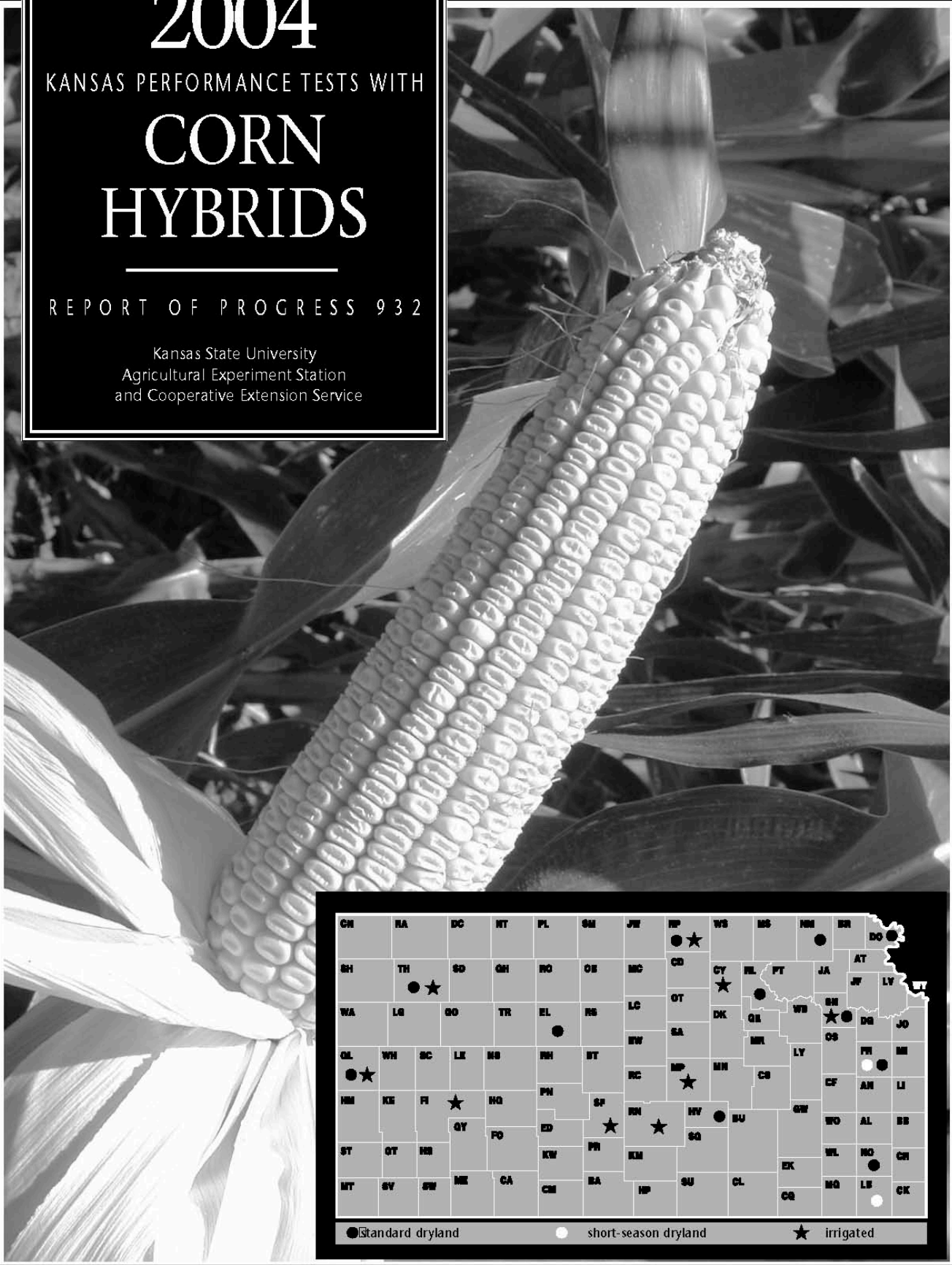
2004

KANSAS PERFORMANCE TESTS WITH

CORN HYBRIDS

REPORT OF PROGRESS 932

Kansas State University
Agricultural Experiment Station
and Cooperative Extension Service



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Contribution No. 05-145-S from the Kansas Agricultural Experiment Station.

2004 CORN CROP REVIEW

Statewide Growing Conditions

The 2004 growing season differed from the previous two years, with above-average precipitation in July and August rather than a prolonged dry period. In 2004, a relatively short dry period in late May and early June was followed by heavy rains in late June and July that replenished topsoil moisture (Figure 1). Topsoil moisture became somewhat depleted in late August and September, but by then much of the corn had reached maturity. Corn planting, emergence, and silking were all ahead of the 5-year average. Relatively cool temperatures in July, August, and September slowed corn growth and development so that the crop reached the dough and dent stages at about the same time as in past years. Maturation and harvest significantly lagged behind that of previous years.

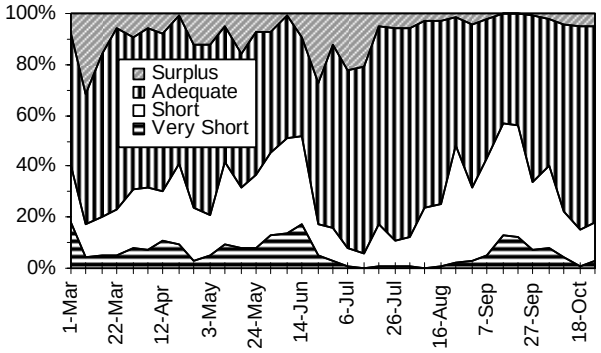


Figure 1. Statewide status of topsoil moisture.

The June and July precipitation helped to improve and maintain the condition of the corn crop. The condition of the corn crop improved beginning in mid-June. Roughly 50% of the crop was rated as good or excellent in mid-June. By late July, that percentage had increased to 80%. Crop condition declined only slightly later in the season (Figure 2). This was almost the opposite of what happened in the past two years, when drought conditions in July and August caused a severe decline in the condition of the crop.

(Crop-Weather Reports, Kansas Agricultural Statistics, Topeka)

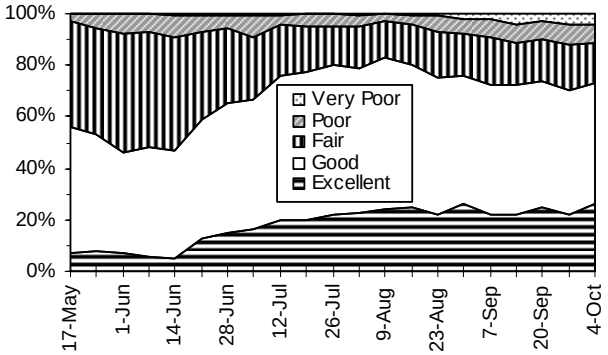


Figure 2. Condition of 2004 Kansas corn crop.

Diseases

Although the 2004 Kansas corn crop was not disease free, it was one of the healthiest crops in recent years. Early in the season, cold-weather crown decay was present, but to a much lesser extent than in 2003. There were few reports of poor stand establishment due to seedling diseases.

In mid-season, gray leaf spot was present, but did not reach damaging severities until late in the season, so minimal yield loss was associated with this disease. There was very limited fungicide application for this disease this year because of its late buildup. There were reports from northeastern Kansas of above-normal amounts of southern rust on certain susceptible hybrids. Some spot spraying was done but, in general, most hybrids escaped serious yield loss from this disease.

Stalk rots were present across the state in normal amounts. There was a shift in stalk rot organisms however, from *Fusarium* stalk rot and charcoal rot reported in recent years. The most common stalk rots in 2004 were *Gibberella* stalk rot, *Anthracnose* stalk rot, and *Diplodia* stalk rot. All three are more common in years when above-normal rainfall occurs at flowering.

Ear rots were not widespread, but *Diplodia* ear rot was by far the most common. Fortunately, *Diplodia* does not produce any potent toxins similar to aflatoxin, produced by *Aspergillus* ear rot, or vomitoxin, produced by *Gibberella* ear rot.

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

Insects

Insect problems in corn during 2004 were average or less. Scattered reports of early-season pests (i.e. wireworms, white grubs, black cutworms, and chinch bugs) were received, especially from southeastern and south-central Kansas. More growers taking advantage of insecticide seed treatments, coupled with good early-season growing conditions helped reduce early-season insect damage. Rootworm populations were average across the state. As more growers take advantage of B.T. corn in traditional rootworm-plagued areas, the impact of root feeding by larval rootworms has been reduced. European corn borer populations remained small, but southwestern corn borer infestations were average throughout the southwest corner of the state. Spider-mite populations were also less than average, probably because of the cooler summer temperatures and timely precipitation.

(Jeff Whitworth, Kansas State University Department of Entomology)

Harvest Statistics

The October 12 Crops Report predicted a 407-million-bushel crop, up 36% from last year (Figure 3). In 2004, 2.75 million acres were harvested, up 10% from 2003. The predicted average yield of 148 bushels per acre is 28 bushels more than the 2003 average. (Kansas Agricultural Statistics)

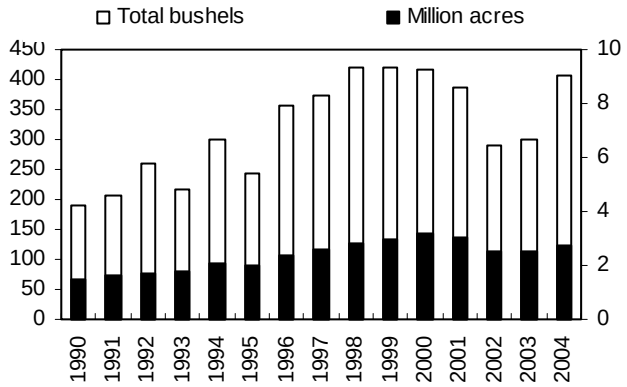


Figure 3. Historical Kansas corn production.

2004 PERFORMANCE TESTS

Objectives and Procedures

Corn Performance Tests, conducted annually by the Kansas Agricultural Experiment Station, provide farmers, extension workers, and seed industry personnel with unbiased agronomic information on many of the corn hybrids marketed in the state. Entry fees from private seed companies help finance the tests. Seed companies receive test announcements and entry forms in late January each year; deadlines for receipt of completed entry forms and seed are in early March. Because entry selection and location are voluntary, not all hybrids grown in the state are included in tests, and the same group of hybrids is not grown uniformly at all test locations.

Short-season corn performance tests target hybrids for early-planted, short-season cropping systems. These systems typically are used on soils with poor water-holding capacities, often subjecting the hybrids to severe heat and drought stress in July and August. Early-maturing hybrids can escape a good portion of the typical stress if they are planted early.

A summary of growing-season weather data is given in individual test discussions. These data are from the nearest weather-reporting station and often are supplemented with information from the test site. Precipitation graphs include cumulative lines for 2004 and the 30-year normal, in addition to the daily rainfall amounts since last fall. Temperature graphs include daily maximum and minimum temperatures compared with normal. General trends in precipitation and temperature relative to normal are readily observed in the graphs. A table with monthly totals and averages for the growing season also is included.

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 2 through 29 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 are shown together. This year, the 3-year averages were dropped because so few hybrids stayed in the tests for that long. That allowed room to add a column listing insecticide seed treatments for each hybrid. Many companies submitted seed treated with systemic insecticides (Cruiser, Poncho) that can affect yield in some situations. One check hybrid treated with Cruiser and Poncho 250, as well as untreated, was included as a check on the potential effect of those treatments at most locations.

Figures 4 through 10 graphically summarize yield and maturity information over the past few years for each region. In these figures, hybrid performance is standardized by using the average of two check hybrids present in every test. The number beside each bar shows the number of tests in which 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% in excess of 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 percentage 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. Yield values in the top LSD group in each test are highlighted in bold. 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 2004 Kansas Corn Performance Tests.

AgSource Seeds, Inc.
Nevada, IA
515-382-8880
agsourceseeds.com

CroPlan Genetics
St. Paul, MN
800-851-8810
croplangenetics.com

Dyna-Gro
Garden City, KS
620-275-6127
Uap.com

Fontanelle Hybrids
Fontanelle, NE
800-279-4353
fontanelle.com

Frontier Hybrids
Abernathy, TX
800-872-0522
frontierhybrid.com

Garst/AgriPro Seed Co.
Everest, KS
785-548-7393
garstseed.com

Golden Acres
Waco, TX
800-692-6848
gaseed.com

Hawkeye Hybrids, Inc.
Pella, IA
641-628-3827
hawkeyeh@lisco.net

High Plains Hybrids
Hugoton, KS
800-848-1988
jkramer@pld.com

Kaystar Seed
Huron, SD
800-288-8791
kaystarseed.com

Kruger Seed Co. (Access/Kruger)
Dike, IA
800-772-2721
krugerseed.com

Lewis Hybrids, Inc.
Ursa, IL
800-252-7851
lewishybrids.com

LG Seeds
Gibbon, NE
877-505-7313
lgseeds.com

Midland Genetics Group
Ottawa, KS
800-819-SEED
midlandgenetics.com

Monsanto Seed (Asgrow/DeKalb)
St. Louis, MO
800-833-5252
monsanto.com

Mycogen Seeds
Indianapolis, IN
1-800-MYCOGEN
mycogen.com

NC+ Hybrids
Lincoln, NE
800-279-7999
nc-plus.com

Neco Seed Farms (Willcross)
Garden City, MO
8016-862-8203
willcross.com

Syngenta Seeds, Inc. (NK)
Ames, IA
800-258-0498
syngenta.com

Ottilie RO Seed
Marshalltown, IA
800-798-6884
ottilieseed.com

Pfister Hybrid Corn Co.
El Paso, IL
800-647-3478
pfisterhybrid.com

Phillips Seed Farms (Midland)
Hope, KS
785-949-2204
midlandgenetics.com

Pioneer, A DuPont Company
Amarillo, TX
800-258-5604
pioneer.com

Premium Seed, Inc.
Berwick, IL
309-462-2396
Premiumseed.com

Producers Hybrids
Battle Creek, NE
402-675-2975
producershybrids.com

Rainbow Seeds
Wamego, KS
785-456-2166

Renze Hybrids
Carroll, IA
712-669-3301
Renzehybrids.com

Stine Seed Co.
Adel, IA
800-362-2510
stineseed.com

Taylor Seed Farms, Inc.
White Cloud, KS
800-742-7473
taylorseedfarms.com

Triumph Seed Co., Inc.
Ralls, TX
800-530-4789
triumphseed.com

Warner Seeds, Inc.
Hereford, TX
806-364-4470
warnerseeds.com

NORTHEAST KANSAS DRYLAND CORN TEST ON SILT LOAM SOIL

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

Monona silt loam; Soybean in 2003

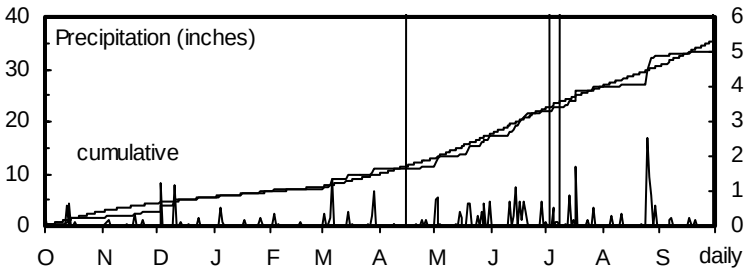
150 - 0 - 0 lb/a N, P, K

Planted on 4/15/2004; Harvested on 9/27/2004

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

Favorable rainfall and temperatures and little stress resulted in record yields for this location.

	Precipitation		Average Temp.		GDU	
Month	2004	Norm.	2004	Norm.	2004	Norm.
Oct.-Mar.	11.0	9.9	38	38	135	34
April	0.4	3.0	54	54	276	231
May	5.8	4.6	64	64	471	447
June	4.9	5.1	66	73	490	688
July	4.3	4.1	72	78	680	813
August	6.1	4.0	70	76	619	781
Sept.	0.9	5.2	70	68	620	564
Totals:	33.5	35.8	52	53	3,289	3,558



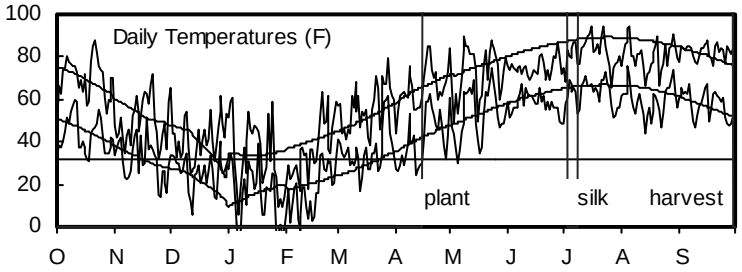


Table 2. Severance Corn Performance Test, 2003-2004.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
CROPLAN GEN.	501Bt	C	206	--	--	90	--	--	--	77	12	99	--	56	113
ACCESS	AEXP5313YGCB	P250	**239**	--	--	105	--	--	--	77	13	93	--	57	115
PIONEER	33K39	P250	222	--	--	97	--	--	--	77	14	95	--	60	117
PIONEER	34H32	C	215	--	--	94	--	--	--	77	14	86	--	60	114
GARST	8292YG1		227	--	--	99	--	--	--	77	18	90	--	57	119
MATURITY CHECK	SHORT - G8590		193	107	150	85	98	83	13	78	12	91	--	57	111
PFISTER	2326Bt	P1250	212	--	--	93	--	--	--	78	12	89	--	56	110
AGSOURCE	5883 CB	P250	230	--	--	100	--	--	--	78	13	96	--	57	116
AGSOURCE	7223 Hx	P250	225	--	--	99	--	--	--	78	13	94	--	57	115
CROPLAN GEN.	693Bt/CL	C	221	--	--	97	--	--	--	78	13	91	--	56	121
LEWIS	4864YGCBRR	P250	**243**	123	183	106	112	83	14	78	13	95	--	57	116
MATURITY CHECK	MID-NC+4823B	P250	**239**	123	181	104	113	83	13	78	13	93	--	57	114
MIDLAND	7B13YGCB	P250	222	118	170	97	108	83	13	78	13	96	--	57	116
NK	N65-M7		231	110	170	101	100	83	13	78	13	99	--	57	113
NK	N71-Z3	C	210	--	--	92	--	--	--	78	13	94	--	57	110
PFISTER	2656BtRR	P1250	**235**	--	--	103	--	--	--	78	13	95	--	57	119
RENZE	5425HX1	P250	224	--	--	98	--	--	--	78	13	96	--	56	113
RENZE	6363	P250	233	122	177	102	111	83	14	78	13	99	--	57	113
ACCESS	AEXP5514YGCB	P250	224	--	--	98	--	--	--	78	14	90	--	58	105
AGSOURCE	6163 CB	C	232	106	169	102	96	83	14	78	14	94	--	57	116
KRUGER	K-9114YGCB	P250	231	--	--	101	--	--	--	78	14	94	--	58	117
KRUGER	K-9212RR/YGCB	P250	**245**	113	179	107	103	83	14	78	14	100	--	58	117
MYCOGEN	2P786	C	209	--	--	92	--	--	--	78	14	90	--	57	117
PFISTER	2760	P1250	221	115	168	97	105	83	14	78	14	92	--	59	117
RENZE	8364YGCB	P250	221	118	169	97	107	83	14	78	14	92	--	57	117
AGSOURCE	6273 CB	P250	228	--	--	100	--	--	--	78	15	97	--	57	111
AGSOURCE	7243 CB	C	**240**	--	--	105	--	--	--	78	15	95	--	61	113
MIDLAND	7A15Bt		217	109	163	95	100	83	15	78	15	85	--	57	113

(continued)

Table 2. Severance Corn Performance Test, 2003-2004 - continued.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
MYCOGEN	2A812	C	220	118	169	96	108	83	15	78	15	90	--	57	118
PRODUCERS	7321BT	C	230	122	176	101	111	83	15	78	15	99	--	57	113
RENZE	5455HX1	P250	223	--	--	97	--	--	--	78	15	94	--	58	115
RENZE	8354YGCB	P250	219	--	--	96	--	--	--	78	15	96	--	60	111
RENZE	8394YGCB	P250	228	--	--	100	--	--	--	78	15	95	--	57	115
CROPLAN GEN.	705RR	C	212	--	--	93	--	--	--	78	16	91	--	58	111
GARST	8328Bt/IT		200	129	165	88	117	83	16	78	16	93	--	58	107
STINE	9804YGCB	P250	223	--	--	98	--	--	--	78	17	102	--	56	105
KRUGER	K-9111YGCB	P250	**237**	--	--	104	--	--	--	79	12	93	--	56	115
ACCESS	AEXP0514	P250	228	--	--	100	--	--	--	79	14	103	--	58	112
TRIUMPH	1416Bt	P1250	**250**	117	184	110	107	84	15	79	14	91	--	57	116
ACCESS	AEXP1516RR	P250	202	--	--	88	--	--	--	79	15	98	--	60	112
ACCESS	AEXP5416YGCB	P250	**246**	--	--	107	--	--	--	79	15	100	--	57	113
ACCESS	AEXP5417YGCB	P250	234	--	--	102	--	--	--	79	15	100	--	59	111
KRUGER	K-9115YGCB	P250	**234**	114	174	103	104	83	16	79	15	96	--	57	116
KRUGER	K-9315YGCB	P250	228	129	179	100	118	83	16	79	15	89	--	58	116
PRODUCERS	7373RRBT	C	230	--	--	100	--	--	--	79	15	91	--	57	115
RENZE	8454YGCB	P250	**236**	94	165	103	86	83	15	79	15	93	--	57	116
STINE	9803YGCB	P250	231	90	161	101	82	83	14	79	15	106	--	58	110
TAYLOR	955RR/Bt	P250	228	--	--	100	--	--	--	79	15	88	--	57	118
TRIUMPH	1536CBRR		230	--	--	101	--	--	--	79	15	87	--	57	116
MIDLAND	7A58Bt		**241**	--	--	105	--	--	--	79	16	94	--	56	121
ACCESS	AEXP8413Hx	P250	**239**	--	--	105	--	--	--	80	14	93	--	56	116
KRUGER	K-9414YGCB	P250	224	--	--	98	--	--	--	80	15	99	--	56	114
LEWIS	5645YGCB	P250	**241**	--	--	105	--	--	--	80	15	97	--	56	115
WARNER	4602B	P250	231	--	--	101	--	--	--	80	15	86	--	57	114
GARST	8350YG1		**234**	123	178	103	112	84	16	80	16	89	--	58	115
MIDLAND	7A28Bt		**247**	117	182	108	107	84	16	80	16	90	--	55	114
NK	N70-T9		223	124	174	98	113	84	15	80	16	94	--	57	116
NK	N76-H2		**242**	--	--	106	--	--	--	80	16	101	--	57	116
HAWKEYE	03-990Bt		**243**	--	--	107	--	--	--	80	17	94	--	56	119
LEWIS	7044YGCB	P250	**246**	126	186	108	114	85	17	80	17	95	--	56	119
ACCESS	AEXP5415YGCB	P250	**243**	--	--	106	--	--	--	81	16	99	--	56	112
ACCESS	AEXP8414Hx	P250	**240**	--	--	105	--	--	--	81	16	97	--	56	119
ST CHK	M798 Cruiser	C	214	--	--	94	--	--	--	81	16	87	--	59	118
CROPLAN GEN.	731Hx	C	**252**	--	--	110	--	--	--	82	15	105	--	56	117
AGSOURCE	7783 CB	C	**250**	112	181	109	102	85	16	82	16	94	--	56	119
MATURITY CHECK	FULL - M798		222	85	153	97	77	85	17	82	16	91	--	59	119
MYCOGEN	2T780	C	227	--	--	99	--	--	--	82	16	100	--	56	121
PIONEER	33R78	C	**249**	--	--	109	--	--	--	82	16	91	--	57	122
ST CHK	M798 P250	P250	203	--	--	89	--	--	--	82	16	89	--	59	120
NK	N82-A7		218	--	--	95	--	--	--	82	18	85	--	56	121
	AVERAGES		228	110	169	228	110	83	15	79	15	94	--	57	115
	CV (%)		6	14	--	6	14	--	--	2	4	6	--	1	3
	LSD (0.05)**		18	22	--	8	20	--	--	2	1	8	--	1	4

* C=Cruiser, P250 or P1250=Poncho at 250 or 1250 rates. All entries had fungicide seed treatments.

** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other. Current-year yields in bold are in the top LSD group.

NORTHEAST KANSAS DRYLAND CORN TEST ON SILTY CLAY LOAM SOIL

Private farm north of Centralia; Keith Flentie, farmer/cooperator

Wymore silt loam; Alfalfa in 2003

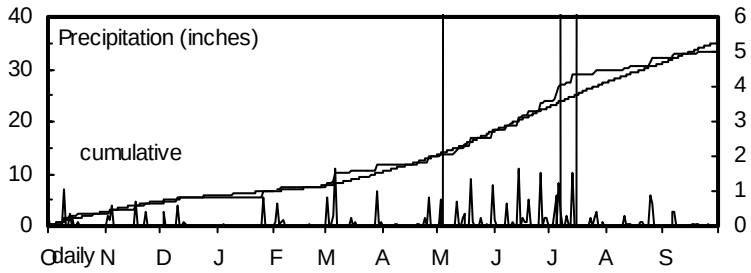
130 - 30 - 0 lb/a N, P, K

Planted on 5/4/2004; Harvested on 10/5/2004

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

Spring killing of a previous alfalfa stand delayed planting. Good rainfall in June and July was followed by a very dry August. Excellent dryland yields.

	Precipitation		Average Temp.		GDU	
Month	2004	Norm.	2004	Norm.	2004	Norm.
Oct.-Mar.	11.9	10.2	39	37	155	58
April	1.3	3.2	55	53	298	223
May	5.1	4.6	65	62	524	400
June	5.9	4.6	70	72	586	656
July	5.9	4.7	74	77	705	792
August	2.2	3.8	72	75	662	763
Sept.	1.0	4.1	71	67	646	531
Totals:	33.3	35.3	53	53	3,575	3,422



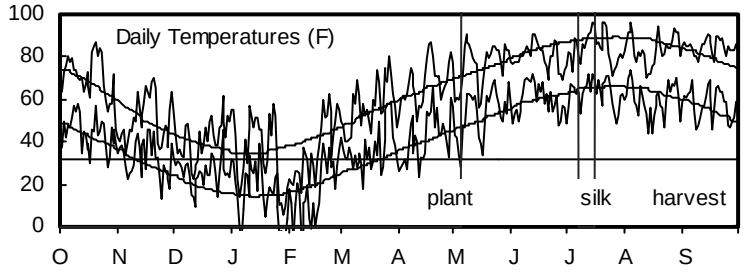


Table 3. Centralia Corn Performance Test, 2003-2004.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
DEKALB	DKC60-19R/YGB	P250	179	--	--	99	--	--	--	63	12	95	--	58	102
ACCESS	AEXP5313YGCB	P250	188	--	--	103	--	--	--	64	12	94	--	58	112
ASGROW	RX752RR/YG	P250	180	--	--	99	--	--	--	64	12	102	--	58	104
GARST	8535YG1/IT		175	--	--	96	--	--	--	64	12	95	--	58	106
ACCESS	AEXP8413Hx	P250	173	--	--	95	--	--	--	65	12	91	--	58	110
MIDLAND	7B13YGCB	P250	166	--	--	91	--	--	--	65	12	98	--	57	113
AGSOURCE	7783 CB	C	**196**	--	--	108	--	--	--	65	13	96	--	58	110
NK	N70-T9		**190**	--	--	105	--	--	--	65	13	100	--	59	103
PRODUCERS	7321BT	C	190	--	--	104	--	--	--	65	13	98	--	59	107
KRUGER	K-9212RR/YGCB	P250	181	--	--	100	--	--	--	66	11	99	--	58	108
LEWIS	4864YGCBRR	P250	171	--	--	94	--	--	--	66	11	101	--	58	111
RENZE	6363	P250	172	--	--	94	--	--	--	66	11	96	--	58	107
RENZE	9363YGCB/RR	P250	169	--	--	93	--	--	--	66	11	100	--	57	106
ACCESS	AEXP5416YGCB	P250	**190**	--	--	104	--	--	--	66	12	98	--	58	106
ACCESS	AEXP5514YGCB	P250	176	--	--	97	--	--	--	66	12	96	--	59	104
AGSOURCE	5883 CB	P250	176	--	--	97	--	--	--	66	12	94	--	59	107
AGSOURCE	6163 CB	C	176	--	--	97	--	--	--	66	12	91	--	58	110
CROPLAN GEN.	693Bt/CL	C	**193**	--	--	106	--	--	--	66	12	97	--	58	115
KAYSTAR	KX-8615Bt	P250	174	--	--	96	--	--	--	66	12	96	--	58	110
KRUGER	K-9115YGCB	P250	**193**	--	--	106	--	--	--	66	12	98	--	59	109
MATURITY CHECK	MID-NC+4823B	P250	181	--	--	99	--	--	--	66	12	98	--	58	108
NC+	5423B	P250	**195**	--	--	107	--	--	--	66	12	95	--	58	107
RENZE	8364YGCB	P250	175	--	--	96	--	--	--	66	12	100	--	58	108
RENZE	8454YGCB	P250	188	--	--	103	--	--	--	66	12	97	--	59	110
MIDLAND	7A15Bt		183	--	--	100	--	--	--	66	13	90	--	59	105
PIONEER	33B51	P250	**196**	--	--	108	--	--	--	66	13	97	--	59	106
PIONEER	34H32	C	175	--	--	96	--	--	--	66	13	94	--	60	114

(continued)

Table 3. Centralia Corn Performance Test, 2003-2004 - continued.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
WARNER	4602B	P250	175	--	--	96	--	--	--	66	13	90	--	58	107
CROPLAN GEN.	501Bt	C	168	--	--	92	--	--	--	67	10	99	--	56	106
NK	N65-M7		171	--	--	94	--	--	--	67	11	93	--	58	106
DEKALB	DKC63-81R/YGB	P250	**193**	--	--	106	--	--	--	67	12	100	--	60	101
GARST	8545		172	--	--	95	--	--	--	67	12	91	--	58	110
KRUGER	K-9414YGCB	P250	177	--	--	97	--	--	--	67	12	97	--	58	110
RENZE	5455HX1	P250	177	--	--	97	--	--	--	67	12	97	--	59	109
TAYLOR	850Bt	P250	**195**	--	--	107	--	--	--	67	12	96	--	58	114
GARST	8376YG1		**191**	--	--	105	--	--	--	67	13	94	--	59	116
PRODUCERS	7373RRBT	C	190	--	--	104	--	--	--	67	13	98	--	59	113
CROPLAN GEN.	705RR	C	180	--	--	99	--	--	--	67	14	92	--	59	102
GARST	8328Bt/IT		162	--	--	89	--	--	--	67	14	93	--	59	102
LEWIS	7044YGCB	P250	180	--	--	99	--	--	--	67	14	94	--	58	116
KAYSTAR	X4181B	P250	184	--	--	101	--	--	--	67	16	96	--	59	116
KRUGER	K-9111YGCB	P250	184	--	--	101	--	--	--	68	11	98	--	57	107
AGSOURCE	6273 CB	P250	**199**	--	--	110	--	--	--	68	12	98	--	59	109
KRUGER	K-9315YGCB	P250	179	--	--	98	--	--	--	68	12	94	--	59	111
MATURITY CHECK	SHORT - G8590		155	--	--	85	--	--	--	68	12	97	--	59	104
RENZE	5425HX1	P250	180	--	--	99	--	--	--	68	12	94	--	58	108
ACCESS	AEXP8414Hx	P250	**191**	--	--	105	--	--	--	68	13	95	--	59	112
CROPLAN GEN.	731Hx	C	**199**	--	--	110	--	--	--	68	13	99	--	59	112
LEWIS	5645YGCB	P250	**194**	--	--	107	--	--	--	68	13	98	--	58	112
NK	N76-H2		**196**	--	--	108	--	--	--	68	13	102	--	59	107
RENZE	8394YGCB	P250	**194**	--	--	106	--	--	--	68	13	103	--	58	110
ACCESS	AEXP0514	P250	170	--	--	93	--	--	--	69	12	96	--	60	101
AGSOURCE	7223 Hx	P250	185	--	--	102	--	--	--	69	12	92	--	58	111
KRUGER	K-9114YGCB	P250	179	--	--	98	--	--	--	69	12	101	--	58	113
ACCESS	AEXP1516RR	P250	166	--	--	91	--	--	--	69	13	99	--	62	108
ACCESS	AEXP5415YGCB	P250	**200**	--	--	110	--	--	--	69	13	96	--	58	111
AGSOURCE	7243 CB	C	**205**	--	--	113	--	--	--	69	13	92	--	62	103
MIDLAND	7A28Bt		**190**	--	--	105	--	--	--	69	13	91	--	57	113
ACCESS	AEXP5417YGCB	P250	183	--	--	101	--	--	--	69	15	97	--	60	106
HAWKEYE	03-990Bt		189	--	--	104	--	--	--	69	15	94	--	59	118
MIDLAND	7A58Bt		176	--	--	97	--	--	--	70	16	95	--	59	115
PIONEER	33R78	C	**191**	--	--	105	--	--	--	71	13	97	--	58	117
MATURITY CHECK	FULL - M798		166	--	--	91	--	--	--	71	14	92	--	60	112
ST CHK	M798 Cruiser	C	173	--	--	95	--	--	--	72	14	88	--	60	113
ST CHK	M798 P250	P250	171	--	--	94	--	--	--	72	14	97	--	60	116
	AVERAGES		182	--	--	182	--	--	--	67	13	96	--	59	109
	CV (%)		6	--	--	6	--	--	--	3	5	4	--	1	3
	LSD (0.05)**		15	--	--	8	--	--	--	2	1	5	--	1	5

* C=Cruiser, P250 or P1250=Poncho at 250 or 1250 rates. All entries had fungicide seed treatments.

** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other. Current-year yields in bold are in the top LSD group.

NORTH-CENTRAL KANSAS DRYLAND CORN TEST

North Central Kansas Experiment Field, Belleville; Barney Gordon, agronomist; Michael Larson and Allan Milner, technicians

Crete silt loam; Soybean in 2003

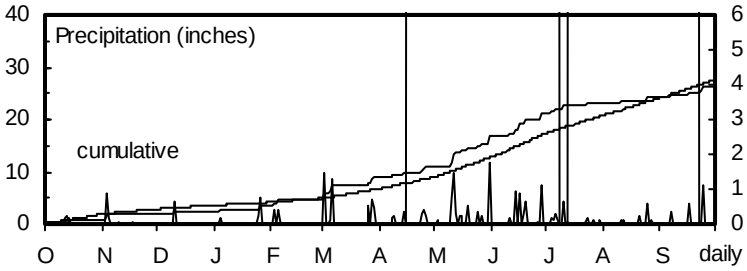
180 - 30 - 0 lb/a N, P, K

Planted on 4/15/2004; Harvested on 9/20/2004

Target stand of 22,000 plants/acre; 9.5 in. spacing

Good stands and early growth; hail on May 9; favorable rainfall through July, dry August.

	Precipitation		Average Temp.		GDU	
Month	2004	Norm.	2004	Norm.	2004	Norm.
Oct.-Mar.	9.2	6.7	39	36	174	25
April	1.7	2.3	56	52	307	217
May	6.1	3.7	66	63	524	421
June	4.1	4.6	71	73	622	679
July	2.1	3.4	76	78	753	807
August	1.1	3.4	73	77	667	780
Sept.	2.1	3.6	73	68	671	551
Totals:	26.5	27.6	54	52	3,717	3,481



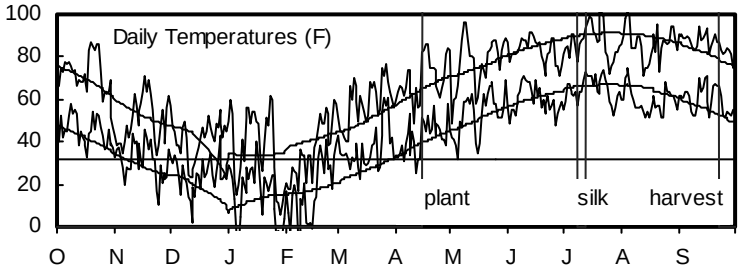


Table 4. Belleville Dryland Corn Performance Test, 2003-2004.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
ACCESS	AEXP8413Hx	P250	129	--	--	102	--	--	--	83	12	105	2	57	86
GARST	8566YG1		**131**	--	--	104	--	--	--	83	12	104	2	56	83
PIONEER	35P15	C	**134**	--	--	106	--	--	--	83	13	102	0	57	81
ACCESS	AEXP0514	P250	128	--	--	101	--	--	--	84	12	105	1	58	81
ACCESS	AEXP5415YGCB	P250	126	--	--	100	--	--	--	84	12	104	0	56	82
DEKALB	DKC60-19R/YGB	P250	**136**	--	--	107	--	--	--	84	12	103	0	56	80
NK	N70-T9		**136**	--	--	107	--	--	--	84	12	105	0	57	85
PIONEER	34M93	P250	**137**	--	--	108	--	--	--	84	12	105	0	58	81
GARST	8545		126	--	--	100	--	--	--	84	13	106	0	58	81
ACCESS	AEXP5313YGCB	P250	**134**	--	--	106	--	--	--	85	12	105	0	57	89
ACCESS	AEXP8414Hx	P250	**133**	--	--	105	--	--	--	85	12	106	1	57	91
ASGROW	RX752RR/YG	P250	124	--	--	98	--	--	--	85	12	106	0	56	85
CROPLAN GEN.	693Bt/CL	C	126	--	--	100	--	--	--	85	12	105	0	57	84
CROPLAN GEN.	731Hx	C	**135**	--	--	107	--	--	--	85	12	106	2	56	86
DEKALB	DKC63-81R/YGB	P250	**134**	--	--	106	--	--	--	85	12	107	0	59	80
FONTANELLE	7R418	P250	116	--	--	91	--	--	--	85	12	106	0	57	82
GARST	8328Bt/IT		113	--	--	90	--	--	--	85	12	101	1	58	80
KRUGER	K-9111YGCB	P250	**134**	--	--	106	--	--	--	85	12	107	0	58	84
KRUGER	K-9114YGCB	P250	119	--	--	94	--	--	--	85	12	106	0	57	89
KRUGER	K-9315YGCB	P250	**133**	--	--	105	--	--	--	85	12	105	2	58	86
MATURITY CHECK	SHORT - G8590		120	--	--	95	--	--	--	85	12	106	1	56	83
MYCOGEN	2P782	C	**133**	--	--	105	--	--	--	85	12	108	0	57	83
MYCOGEN	2T801	C	123	--	--	98	--	--	--	85	12	105	1	57	79
NK	N65-M7		129	--	--	102	--	--	--	85	12	110	0	56	85

(continued)

Table 4. Belleville Dryland Corn Performance Test, 2003-2004 - continued.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
PIONEER	34H32	C	**133**	--	--	105	--	--	--	85	12	107	0	57	79
ST CHK	M798 P250	P250	115	--	--	91	--	--	--	85	14	107	3	59	87
ST CHK	M798 Cruiser	C	122	--	--	96	--	--	--	85	15	105	7	57	89
ACCESS	AEXP1516RR	P250	**131**	--	--	103	--	--	--	86	12	104	0	60	85
ACCESS	AEXP5514YGCB	P250	128	--	--	101	--	--	--	86	12	107	2	56	80
FONTANELLE	7798YGCB/RR	P250	120	--	--	95	--	--	--	86	12	103	0	56	78
KRUGER	K-9115YGCB	P250	119	--	--	94	--	--	--	86	12	103	2	56	85
KRUGER	K-9212RR/YGCB	P250	118	--	--	93	--	--	--	86	12	104	1	56	86
KRUGER	K-9414YGCB	P250	124	--	--	98	--	--	--	86	12	105	0	56	85
LEWIS	5645YGCB	P250	119	--	--	94	--	--	--	86	12	105	0	56	83
MATURITY CHECK	FULL - M798		114	--	--	90	--	--	--	86	12	106	5	58	90
MATURITY CHECK	MID-NC+4823B	P250	125	--	--	99	--	--	--	86	12	106	0	56	86
MIDLAND	7B13YGCB	P250	116	--	--	92	--	--	--	86	12	101	0	55	81
MIDLAND	7B15YGCB	P250	**133**	--	--	105	--	--	--	86	12	105	1	56	81
MYCOGEN	2E762	C	**132**	--	--	104	--	--	--	86	12	105	0	56	85
WARNER	4602B	P250	**131**	--	--	104	--	--	--	86	12	105	0	57	80
ACCESS	AEXP5417YGCB	P250	**132**	--	--	104	--	--	--	86	13	106	1	58	79
CROPLAN GEN.	705RR	C	113	--	--	89	--	--	--	86	13	107	0	57	85
FONTANELLE	HC-7987YGCB	P250	126	--	--	100	--	--	--	86	13	107	0	57	82
LEWIS	7044YGCB	P250	124	--	--	98	--	--	--	86	15	104	0	57	86
ACCESS	AEXP5416YGCB	P250	127	--	--	100	--	--	--	87	12	106	1	57	82
	AVERAGES		127	--	--	127	--	--	--	85	13	105	1	57	83
	CV (%)		4	--	--	4	--	--	--	1	3	3	276	0	4
	LSD (0.05)**		7	--	--	6	--	--	--	1	--	4	3	0	4

* C=Cruiser, P250 or P1250=Poncho at 250 or 1250 rates. All entries had fungicide seed treatments.

** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other. Current-year yields in bold are in the top LSD group.

NORTHEAST KANSAS DRYLAND CORN TEST ON SILT LOAM SOIL

Agronomy North Farm near Manhattan; Kraig Roozeboom, agronomist

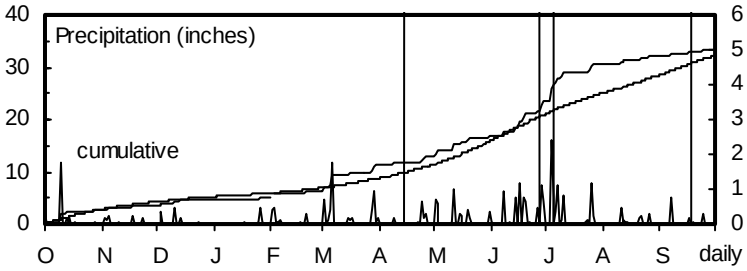
Reading silt loam; Soybean in 2003

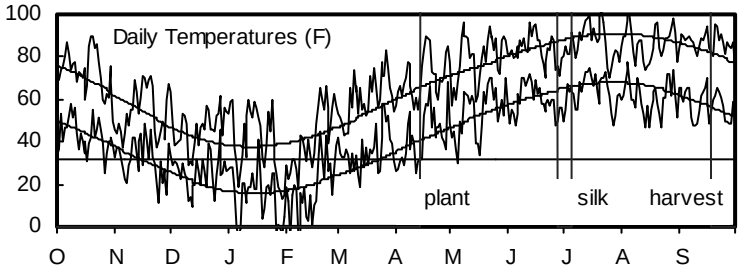
130 - 30 - 0 lb/a N, P, K

Planted on 4/14/2004; Harvested on 9/16/2004

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

Although rainfall was slightly below normal in April and May, above-normal rainfall in June and July more than made up the deficit and carried the crop through a dry August and September. Above-normal temperatures in April and May got the crop off to a good start and below-normal temperatures in June, July, and August minimized heat stress during silking and grain fill.





Month	Precipitation 2004	Precipitation Norm.	Average Temp. 2004	Average Temp. Norm.	GDU 2004	GDU Norm.
Oct.-Mar.	11.8	8.7	41	39	190	57
April	1.4	2.6	57	53	337	237
May	3.9	4.5	67	64	562	441
June	6.7	5.1	71	73	615	685
July	7.2	4.0	76	79	737	823
August	1.4	3.5	74	78	698	801
Sept.	1.3	3.9	72	69	651	601
Totals:	33.7	32.3	55	54	3,789	3,642

Table 5. Manhattan Corn Performance Test, 2003-2004.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
PIONEER	34H32	C	179	--	--	88	--	--	--	73	16	90	--	60	111
CROPLAN GEN.	501Bt	C	181	--	--	89	--	--	--	74	13	93	--	55	106
GARST	8545		193	180	187	95	114	77	14	74	15	90	--	57	110
ACCESS	AEXP5313YGCB	P250	185	--	--	91	--	--	--	74	16	89	--	55	113
DEKALB	DKC60-19R/YGB	P250	185	162	174	91	102	77	14	74	16	91	--	57	95
GARST	8424		174	--	--	86	--	--	--	74	16	82	--	57	105
KAYSTAR	KX-8615Bt	P250	204	--	--	100	--	--	--	74	16	91	--	57	108
MIDLAND	7B13YGCB	P250	**218**	--	--	108	--	--	--	74	16	96	--	56	106
ACCESS	AEXP5514YGCB	P250	198	--	--	97	--	--	--	74	17	89	--	56	102
ASGROW	RX752RR/YG	P250	**222**	--	--	109	--	--	--	74	17	96	--	57	99
GARST	8376YG1		205	--	--	101	--	--	--	74	17	86	--	55	107
MATURITY CHECK	MID-NC+4823B	P250	**215**	147	181	106	93	78	15	74	17	94	--	55	110
RENZE	3364YGPL	P250	**213**	--	--	105	--	--	--	74	17	97	--	56	107
CROPLAN GEN.	693Bt/CL	C	193	--	--	95	--	--	--	75	16	95	--	55	117
RENZE	6363	P250	194	160	177	96	101	78	14	75	16	88	--	56	104
ACCESS	AEXP5416YGCB	P250	**211**	--	--	104	--	--	--	75	17	94	--	56	106
KRUGER	K-9212RR/YGCB	P250	**215**	160	187	106	101	78	15	75	17	93	--	56	104
PRODUCERS	7321BT	C	191	--	--	94	--	--	--	75	18	84	--	55	104
WARNER	4602B	P250	203	--	--	100	--	--	--	75	18	93	--	55	110

(continued)

Table 5. Manhattan Corn Performance Test, 2003-2004 - continued.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
GARST	8292YG1		197	--	--	97	--	--	--	75	20	86	--	57	113
MATURITY CHECK	SHORT - G8590		173	134	153	85	85	79	13	76	14	88	--	56	103
RENZE	5425HX1	P250	208	--	--	103	--	--	--	76	15	89	--	55	111
ACCESS	AEXP1516RR	P250	182	--	--	90	--	--	--	76	16	91	--	60	107
ACCESS	AEXP8413Hx	P250	203	--	--	100	--	--	--	76	16	92	--	55	111
ACCESS	AEXP0514	P250	**210**	--	--	104	--	--	--	76	17	95	--	56	106
KRUGER	K-9315YGCB	P250	**211**	148	180	104	93	79	15	76	17	94	--	56	110
MYCOGEN	2P786	C	187	--	--	92	--	--	--	76	17	88	--	54	113
RENZE	5455HX1	P250	207	--	--	102	--	--	--	76	17	97	--	55	112
CROPLAN GEN.	705RR	C	188	--	--	93	--	--	--	76	18	87	--	56	104
KRUGER	K-9115YGCB	P250	**219**	163	191	108	103	79	16	76	18	88	--	55	111
LEWIS	5454YGCBRR	P250	**211**	--	--	104	--	--	--	76	18	84	--	55	113
PRODUCERS	7373RRBT	C	**215**	--	--	106	--	--	--	76	18	87	--	55	108
RENZE	6424	P250	**213**	173	193	105	109	79	15	76	18	93	--	55	106
RENZE	8454YGCB	P250	**226**	169	197	111	106	79	15	76	18	94	--	55	110
ACCESS	AEXP5417YGCB	P250	**217**	--	--	107	--	--	--	76	20	97	--	56	105
KRUGER	K-9111YGCB	P250	191	--	--	94	--	--	--	77	14	94	--	57	110
KRUGER	K-9414YGCB	P250	210	--	--	103	--	--	--	77	17	96	--	55	113
MYCOGEN	2A812	C	202	159	180	99	100	80	15	77	17	89	--	54	108
LEWIS	5645YGCB	P250	210	--	--	103	--	--	--	77	18	92	--	54	112
LEWIS	7044YGCB	P250	208	184	196	103	116	80	17	77	19	88	--	54	115
KRUGER	K-9114YGCB	P250	201	--	--	99	--	--	--	78	17	90	--	56	113
MIDLAND	7A14YGCB	P250	209	--	--	103	--	--	--	78	17	95	--	56	111
ACCESS	AEXP5415YGCB	P250	**210**	--	--	104	--	--	--	78	18	92	--	54	111
ACCESS	AEXP8414Hx	P250	202	--	--	99	--	--	--	78	18	92	--	54	117
MYCOGEN	2T780	C	**214**	--	--	105	--	--	--	78	18	96	--	54	115
KAYSTAR	X4181B	P250	**214**	--	--	105	--	--	--	78	20	91	--	54	114
CROPLAN GEN.	731Hx	C	203	--	--	100	--	--	--	79	18	95	--	54	116
PIONEER	33R78	C	**221**	--	--	109	--	--	--	79	19	89	--	54	115
MATURITY CHECK	FULL - M798		198	146	172	97	92	82	17	80	19	85	--	57	113
ST CHK	M798 Cruiser	C	204	--	--	101	--	--	--	80	19	91	--	57	114
ST CHK	M798 P250	P250	203	--	--	100	--	--	--	80	19	90	--	56	115
	AVERAGES		203	159	181	203	159	79	15	76	17	91	--	56	109
	CV (%)		6	7	--	6	7	--	--	2	4	5	--	1	4
	LSD (0.05)**		16	16	--	8	10	--	--	2	1	7	--	1	6

* C=Cruiser, P250 or P1250=Poncho at 250 or 1250 rates. All entries had fungicide seed treatments.

** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other. Current-year yields in bold are in the top LSD group.

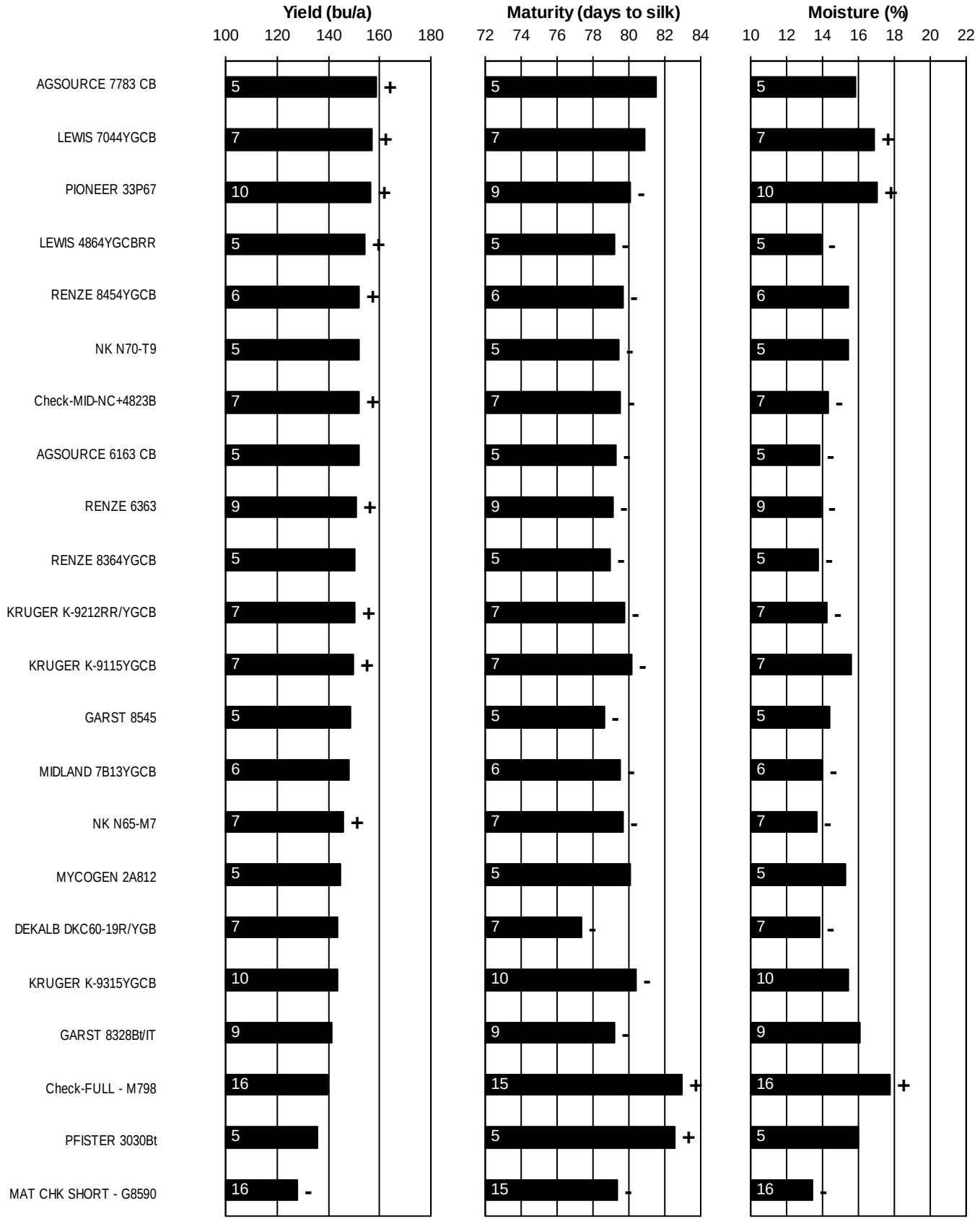
Table 6. NORTHEAST Kansas corn hybrid yield summary (% of test average), 2004.

BRAND/NAME	SEV*	CEN	BEL	MAN	AVG.
ACCESS					
AEXP0514	100	93	101	104	100
AEXP1516RR	88	91	103	90	93
AEXP5313YGCB	105	103	106	91	101
AEXP5415YGCB	106	110	100	104	105
AEXP5416YGCB	107	104	100	104	104
AEXP5417YGCB	102	101	104	107	104
AEXP5514YGCB	98	97	101	97	98
AEXP8413Hx	105	95	102	100	101
AEXP8414Hx	105	105	105	99	104
AGSOURCE					
5883 CB	100	97	--	--	--
6163 CB	102	97	--	--	--
6273 CB	100	110	--	--	--
7223 Hx	99	102	--	--	--
7243 CB	105	113	--	--	--
7783 CB	109	108	--	--	--
ASGROW					
RX752RR/YG	--	99	98	109	--
CROPLAN GEN.					
501Bt	90	92	--	89	--
693Bt/CL	97	106	100	95	100
705RR	93	99	89	93	94
731Hx	110	110	107	100	107
DEKALB					
DKC60-19R/YGB	--	99	107	91	--
DKC63-81R/YGB	--	106	106	--	--
FONTANELLE					
7798YGCB/RR	--	--	95	--	--
7R418	--	--	91	--	--
HC-7987YGCB	--	--	100	--	--
GARST					
8292YG1	99	--	--	97	--
8328Bt/IT	88	89	90	--	--
8350YG1	103	--	--	--	--
8376YG1	--	105	--	101	--
8424	--	--	--	86	--
8535YG1/IT	--	96	--	--	--
8545	--	95	100	95	--
8566YG1	--	--	104	--	--
HAWKEYE					
03-990Bt	107	104	--	--	--
KAYSTAR					
KX-8615Bt	--	96	--	100	--
X4181B	--	101	--	105	--
KRUGER					
K-9111YGCB	104	101	106	94	101
K-9114YGCB	101	98	94	99	98
K-9115YGCB	103	106	94	108	103
K-9212RR/YGCB	107	100	93	106	102
K-9315YGCB	100	98	105	104	102
K-9414YGCB	98	97	98	103	99
LEWIS					
4864YGCBRR	106	94	--	--	--
5454YGCBRR	--	--	--	104	--
5645YGCB	105	107	94	103	102
7044YGCB	108	99	98	103	102
MIDLAND					
7A14YGCB	--	--	--	103	--
7A15Bt	95	100	--	--	--
7A28Bt	108	105	--	--	--
7A58Bt	105	97	--	--	--
7B13YGCB	97	91	92	108	97
7B15YGCB	--	--	105	--	--

BRAND/NAME	SEV	CEN	BEL	MAN	AVG.
MYCOGEN					
2A812	96	--	--	99	--
2E762	--	--	104	--	--
2P782	--	--	105	--	--
2P786	92	--	--	92	--
2T780	99	--	--	105	--
2T801	--	--	98	--	--
NC+					
5423B	--	107	--	--	--
NK					
N65-M7	101	94	102	--	--
N70-T9	98	105	107	--	--
N71-Z3	92	--	--	--	--
N76-H2	106	108	--	--	--
N82-A7	95	--	--	--	--
PFISTER					
2326Bt	93	--	--	--	--
2656BtRR	103	--	--	--	--
2760	97	--	--	--	--
PIONEER					
33B51	--	108	--	--	--
33K39	97	--	--	--	--
33R78	109	105	--	109	--
34H32	94	96	105	88	96
34M93	--	--	108	--	--
35P15	--	--	106	--	--
PRODUCERS					
7321BT	101	104	--	94	--
7373RRBT	100	104	--	106	--
RENZE					
3364YGPL	--	--	--	105	--
5425HX1	98	99	--	103	--
5455HX1	97	97	--	102	--
6363	102	94	--	96	--
6424	--	--	--	105	--
8354YGCB	96	--	--	--	--
8364YGCB	97	96	--	--	--
8394YGCB	100	106	--	--	--
8454YGCB	103	103	--	111	--
9363YGCB/RR	--	93	--	--	--
ST CHK					
M798 Cruiser	94	95	96	101	96
M798 P250	89	94	91	100	93
STINE					
9803YGCB	101	--	--	--	--
9804YGCB	98	--	--	--	--
TAYLOR					
850Bt	--	107	--	--	--
955RR/Bt	100	--	--	--	--
TRIUMPH					
1416Bt	110	--	--	--	--
1536CBRR	101	--	--	--	--
WARNER					
4602B	101	96	104	100	100
MATURITY CHECK					
FULL - M798	97	91	90	97	94
MID-NC+4823B	104	99	99	106	102
SHORT - G8590	85	85	95	85	87
AVERAGES (bu/a)	228	182	127	203	185
CV (%)	6	6	4	6	--
LSD (0.05)	8	8	6	8	--

* SEV = Severance, Doniphan Co. CEN = Centralia, Nemaha Co. BEL = Belleville, Republic Co. MAN = Manhattan, Riley Co.

Figure 4. NORTHEAST Kansas corn hybrid standardized performance summary, 2000-2004.



Values within 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 silt loam; Soybean in 2003

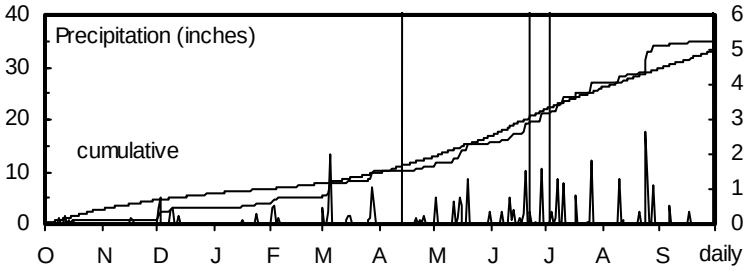
160 - 35 - 0 lb/a N, P, K

Planted on 4/13/2004; Harvested on 9/27/2004

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

Favorable moisture and temperatures led to outstanding yields. No irrigation was needed.

	Precipitation		Average Temp.		GDU	
Month	2004	Norm.	2004	Norm.	2004	Norm.
Oct.-Mar.	10.3	9.9	41	38	159	50
April	0.6	2.9	57	54	329	236
May	4.7	4.0	69	64	596	444
June	5.5	5.0	71	73	630	698
July	5.9	4.1	76	78	735	827
August	7.0	3.7	72	77	647	802
Sept.	0.9	3.5	69	69	610	584
Totals:	34.9	33.2	55	54	3,705	3,640



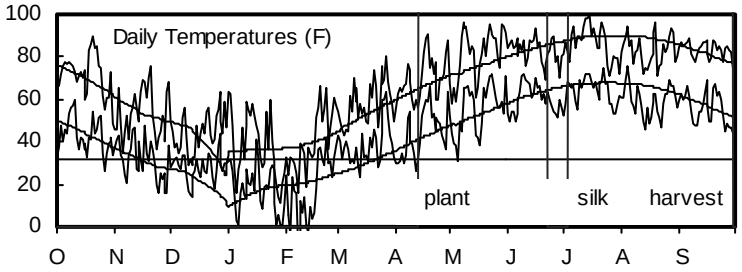


Table 7. Topeka Irrigated Corn Performance Test, 2003-2004.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
DEKALB	DKC60-19R/YGB	P250	198	188	193	83	97	74	18	69	17	103	--	56	101
STINE	9720YGCB	P250	222	--	--	93	--	--	--	71	17	101	--	55	106
MIDLAND	7B13YGCB	P250	221	181	201	93	93	78	17	72	16	92	--	56	117
PFISTER	2656Bt	P1250	247	199	223	103	102	77	18	72	17	105	--	56	112
LEWIS	5454YGCBRR	P250	244	--	--	102	--	--	--	72	19	100	--	55	115
ACCESS	AEXP5313YGCB	P250	251	--	--	105	--	--	--	73	16	100	--	55	110
PFISTER	2750Bt	P1250	234	171	202	98	88	79	18	73	16	92	--	55	115
AGSOURCE	6163 CB	C	232	195	213	97	100	78	18	73	17	100	--	56	113
ASGROW	RX752RR/YG	P250	235	--	--	98	--	--	--	73	17	110	--	56	107
KRUGER	K-9212RR/YGCB	P250	231	210	220	97	108	79	18	73	18	99	--	54	111
NK	N70-T9		247	203	225	103	104	78	19	73	18	116	--	55	108
PRODUCERS	7284BT	C	242	212	227	101	109	78	17	74	16	100	--	56	112
RENZE	3364YGPL	P250	213	--	--	89	--	--	--	74	16	97	--	56	107
DEKALB	DKC63-81R/YGB	P250	241	--	--	101	--	--	--	74	17	102	--	57	108
DYNA-GRO	57P69	P250	233	--	--	98	--	--	--	74	17	99	--	55	114
KRUGER	K-9315YGCB	P250	249	--	--	104	--	--	--	74	17	104	--	56	117
MIDLAND	7A15Bt		233	198	216	98	102	78	18	74	17	91	--	55	112
MYCOGEN	2T801	C	248	--	--	104	--	--	--	74	17	96	--	56	115
NK	N72-J5		235	190	213	99	97	79	18	74	17	104	--	55	118
RENZE	8364YGCB	P250	228	--	--	95	--	--	--	74	17	105	--	55	113
TRIUMPH	1416Bt	P1250	247	--	--	103	--	--	--	74	17	98	--	55	115
ACCESS	AEXP8414Hx	P250	**259**	--	--	108	--	--	--	74	18	98	--	54	118
CROPLAN GEN.	705RR	C	219	--	--	92	--	--	--	74	18	96	--	56	107
GARST	8377YG1/RR		257	--	--	108	--	--	--	74	18	102	--	55	115
KRUGER	K-9115YGCB	P250	**267**	199	233	112	102	79	19	74	18	102	--	55	113
PRODUCERS	7373RRBT	C	258	--	--	108	--	--	--	74	18	101	--	55	115
RENZE	8454YGCB	P250	246	--	--	103	--	--	--	74	18	96	--	55	113
WARNER	4602B	P250	242	--	--	101	--	--	--	74	19	93	--	55	110
CROPLAN GEN.	693Bt/CL	C	229	--	--	96	--	--	--	75	16	96	--	55	115
RENZE	5425HX1	P250	238	--	--	100	--	--	--	75	16	91	--	55	115
ACCESS	AEXP5514YGCB	P250	208	--	--	87	--	--	--	75	17	98	--	55	105
KRUGER	K-9114YGCB	P250	254	--	--	106	--	--	--	75	17	92	--	56	114

(continued)

Table 7. Topeka Irrigated Corn Performance Test, 2003-2004 - continued.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
MATURITY CHECK	MID-NC+4823B	P250	230	180	205	96	92	79	18	75	17	97	--	55	111
RENZE	5455HX1	P250	212	--	--	89	--	--	--	75	17	106	--	56	115
CROPLAN GEN.	694Bt	C	214	--	--	89	--	--	--	75	18	91	--	54	114
NC+	5433RB	P250	233	214	223	97	110	79	19	75	18	90	--	55	115
RENZE	8394YGCB	P250	**260**	--	--	109	--	--	--	75	18	107	--	55	115
TAYLOR	955RR/Bt	P250	**267**	--	--	112	--	--	--	75	18	101	--	55	119
NK	N76-H2		239	--	--	100	--	--	--	75	19	91	--	55	110
STINE	9803YGCB	P250	245	183	214	103	94	80	20	75	19	102	--	56	109
GARST	8292YG1		227	--	--	95	--	--	--	75	20	94	--	56	120
KRUGER	K-9111YGCB	P250	247	--	--	103	--	--	--	76	14	116	--	57	111
MATURITY CHECK	SHORT - G8590		177	148	163	74	76	81	17	76	15	98	--	56	107
ACCESS	AEXP8413Hx	P250	231	--	--	97	--	--	--	76	16	94	--	55	114
DYNA-GRO	57F29	P250	215	--	--	90	--	--	--	76	16	106	--	57	108
ACCESS	AEXP0514	P250	234	--	--	98	--	--	--	76	17	97	--	56	111
ACCESS	AEXP1516RR	P250	202	--	--	85	--	--	--	76	17	98	--	58	109
DYNA-GRO	57P46	P250	228	--	--	95	--	--	--	76	17	94	--	55	117
KRUGER	K-9414YGCB	P250	222	--	--	93	--	--	--	76	17	102	--	55	118
MYCOGEN	2A812	C	252	213	233	106	109	81	19	76	17	96	--	55	121
PFISTER	2760	P1250	233	183	208	97	94	81	18	76	17	111	--	57	120
ACCESS	AEXP5416YGCB	P250	242	--	--	101	--	--	--	76	18	100	--	55	110
AGSOURCE	6273 CB	P250	227	--	--	95	--	--	--	76	18	102	--	54	113
CROPLAN GEN.	699Bt/CL	C	245	--	--	103	--	--	--	76	18	99	--	54	111
DYNA-GRO	57P93	P250	250	--	--	105	--	--	--	76	18	97	--	56	115
GARST	8454YG1		226	196	211	94	101	80	19	76	18	101	--	54	117
LEWIS	5645YGCB	P250	241	--	--	101	--	--	--	76	18	102	--	53	113
MYCOGEN	2T780	C	**275**	--	--	115	--	--	--	76	18	102	--	54	119
ACCESS	AEXP5417YGCB	P250	256	--	--	107	--	--	--	76	19	102	--	56	114
MIDLAND	7A58Bt		236	--	--	99	--	--	--	76	19	93	--	54	122
PFISTER	3356Bt	P1250	240	213	226	101	109	81	20	76	19	99	--	54	118
PIONEER	33P67	P250	251	236	243	105	121	80	20	76	19	104	--	58	115
DYNA-GRO	57F87	P250	246	--	--	103	--	--	--	76	20	99	--	54	120
LEWIS	7044YGCB	P250	250	--	--	105	--	--	--	76	20	93	--	54	121
RENZE	8354YGCB	P250	212	--	--	89	--	--	--	77	16	93	--	56	108
ACCESS	AEXP5415YGCB	P250	246	--	--	103	--	--	--	77	17	108	--	55	113
CROPLAN GEN.	731Hx	C	**285**	--	--	119	--	--	--	77	19	104	--	54	121
MIDLAND	7A28Bt		**268**	192	230	112	99	82	20	77	19	97	--	53	120
CROPLAN GEN.	799Bt	C	234	--	--	98	--	--	--	77	20	93	--	56	119
CROPLAN GEN.	818RRBT	C	248	207	227	104	106	81	21	77	21	99	--	54	110
GARST	8383YG1		252	194	223	105	100	81	19	78	18	99	--	56	115
PFISTER	3030Bt	P1250	252	213	233	106	109	83	19	78	18	95	--	54	121
PIONEER	33R78	C	**264**	--	--	110	--	--	--	78	18	94	--	54	126
AGSOURCE	7783 CB	C	**263**	222	242	110	114	81	19	78	19	98	--	53	119
DYNA-GRO	58P59	P250	**275**	--	--	115	--	--	--	78	19	99	--	52	116
TAYLOR	990RR/Bt	P250	**275**	--	--	115	--	--	--	78	19	92	--	53	119
RAINBOW	3158YGCB		234	--	--	98	--	--	--	78	20	95	--	53	120
ST CHK	M798 P250	P250	235	--	--	98	--	--	--	78	20	98	--	56	119
ST CHK	M798 Cruiser	C	221	--	--	92	--	--	--	79	19	93	--	56	120
MATURITY CHECK	FULL - M798		246	210	228	103	108	83	20	79	20	103	--	56	120
PIONEER	31A13	P250	237	208	222	99	107	83	21	79	21	103	--	56	113
	AVERAGES		239	195	217	239	195	79	19	75	18	99	--	55	114
	CV (%)		8	10	--	8	10	--	--	2	5	9	--	1	4
	LSD (0.05)**		26	31	--	11	16	--	--	2	1	12	--	1	6

* C=Cruiser, P250 or P1250=Poncho at 250 or 1250 rates. All entries had fungicide seed treatments.

** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other. Current-year yields in bold are in the top LSD group.

NORTHEAST KANSAS SPRINKLER-IRRIGATED CORN TEST ON SANDY LOAM SOIL

Private farm near Clay Center; Scott and Russ Taddiken, cooperators

Muir silt loam; Soybean in 2003

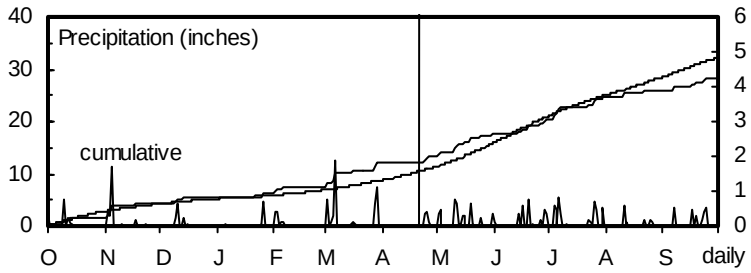
200 - 15 - 0 lb/a N, P, K

Planted on 4/21/2004; Harvested on 10/29/2004

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

Growing conditions were generally favorable. Harvest was delayed by two to three weeks.

	Precipitation		Average Temp.		GDU	
Month	2004	Norm.	2004	Norm.	2004	Norm.
Oct.-Mar.	12.3	8.7	40	39	161	57
April	0.9	2.6	56	53	283	237
May	4.3	4.5	67	64	542	441
June	3.0	5.1	71	73	623	685
July	4.5	4.0	76	79	760	823
August	1.1	3.5	74	78	703	801
Sept.	2.4	3.9	73	69	674	601
Totals:	28.4	32.3	55	54	3,745	3,642



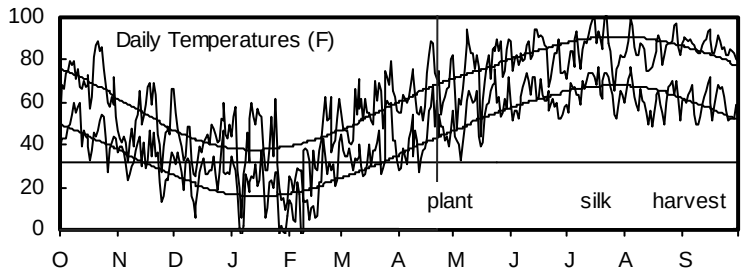


Table 8. Clay Center Irrigated Corn Performance Test, 2003-2004.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
FONTANELLE	7798YGCB/RR	P250	208	--	--	99	--	--	--	--	15	92	2	56	109
ACCESS	AEXP0514	P250	**218**	--	--	103	--	--	--	--	16	98	1	59	112
ACCESS	AEXP1516RR	P250	212	--	--	100	--	--	--	--	16	94	1	61	109
ACCESS	AEXP5313YGCB	P250	**216**	--	--	102	--	--	--	--	16	94	1	57	113
ACCESS	AEXP5415YGCB	P250	**216**	--	--	102	--	--	--	--	16	95	4	57	110
ACCESS	AEXP5416YGCB	P250	**213**	--	--	101	--	--	--	--	16	97	1	58	110
ACCESS	AEXP5514YGCB	P250	203	--	--	96	--	--	--	--	16	93	1	57	104
ACCESS	AEXP8413Hx	P250	196	--	--	93	--	--	--	--	16	93	4	57	113
ACCESS	AEXP8414Hx	P250	**215**	--	--	102	--	--	--	--	16	93	4	58	116
AGSOURCE	5883 CB	P250	**212**	--	--	101	--	--	--	--	16	95	1	57	111
AGSOURCE	6163 CB	C	209	224	217	99	101	--	16	--	16	99	4	58	112
AGSOURCE	6273 CB	P250	**216**	--	--	102	--	--	--	--	16	103	3	58	109
AGSOURCE	7783 CB	C	**229**	228	228	108	103	--	16	--	16	95	2	57	115
CROPLAN GEN.	693Bt/CL	C	209	--	--	99	--	--	--	--	16	97	1	56	116
CROPLAN GEN.	699Bt/CL	C	212	--	--	100	--	--	--	--	16	91	0	58	115
CROPLAN GEN.	731Hx	C	**225**	--	--	107	--	--	--	--	16	97	3	58	117
DYNA-GRO	57F29	P250	195	--	--	92	--	--	--	--	16	94	8	60	104
DYNA-GRO	57F87	P250	**220**	--	--	104	--	--	--	--	16	104	1	57	115
DYNA-GRO	57P46	P250	**218**	--	--	103	--	--	--	--	16	99	1	58	117
DYNA-GRO	57P69	P250	204	--	--	97	--	--	--	--	16	92	3	58	114
DYNA-GRO	57P93	P250	**222**	--	--	105	--	--	--	--	16	97	4	59	113
DYNA-GRO	58P59	P250	**218**	--	--	103	--	--	--	--	16	94	2	57	114
FONTANELLE	8N422	P250	**230**	--	--	109	--	--	--	--	16	97	1	58	116
FONTANELLE	HC-7931YGCB	P250	**227**	--	--	108	--	--	--	--	16	91	1	57	115
FONTANELLE	HC-7951YGCB	P250	208	--	--	98	--	--	--	--	16	92	2	58	111
FONTANELLE	HC-7971YGCB	P250	197	--	--	93	--	--	--	--	16	91	2	58	107
GARST	8376YG1		**232**	--	--	110	--	--	--	--	16	95	1	58	112
GARST	8383YG1		202	205	204	96	92	--	16	--	16	93	1	60	112

(continued)

Table 8. Clay Center Irrigated Corn Performance Test, 2003-2004 - continued.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
KAYSTAR	KX-8615Bt	P250	**213**	--	--	101	--	--	--	--	16	99	2	57	109
KRUGER	K-9111YGCB	P250	**214**	--	--	101	--	--	--	--	16	104	1	57	112
KRUGER	K-9114YGCB	P250	211	--	--	100	--	--	--	--	16	93	3	58	116
KRUGER	K-9115YGCB	P250	**224**	217	221	106	98	--	16	--	16	93	0	59	113
KRUGER	K-9212RR/YGCB	P250	**231**	240	235	109	108	--	16	--	16	97	1	58	114
KRUGER	K-9315YGCB	P250	201	--	--	95	--	--	--	--	16	91	0	59	115
KRUGER	K-9414YGCB	P250	202	--	--	96	--	--	--	--	16	98	3	58	117
LEWIS	5454YGCBRR	P250	**220**	--	--	104	--	--	--	--	16	88	2	58	115
LEWIS	7044YGCB	P250	209	238	224	99	107	--	17	--	16	86	1	58	113
MATURITY CHECK	FULL - M798		207	221	214	98	100	--	17	--	16	92	11	61	117
MATURITY CHECK	MID-NC+4823B	P250	**220**	--	--	104	--	--	--	--	16	94	0	58	113
MATURITY CHECK	SHORT - G8590		196	200	198	93	90	--	16	--	16	91	0	58	108
MIDLAND	7A14YGCB	P250	211	--	--	100	--	--	--	--	16	93	4	58	114
MIDLAND	7A29YGCB	P250	**219**	--	--	104	--	--	--	--	16	88	1	57	113
MIDLAND	7B13YGCB	P250	**226**	--	--	107	--	--	--	--	16	98	1	58	111
MIDLAND	7B15YGCB	P250	**222**	--	--	105	--	--	--	--	16	99	0	58	111
PFISTER	2656Bt	P1250	**222**	--	--	105	--	--	--	--	16	95	0	58	109
PFISTER	3030Bt	P1250	199	--	--	94	--	--	--	--	16	93	4	58	119
PIONEER	33R78	C	209	--	--	99	--	--	--	--	16	89	5	58	122
PREMIUM	P236		201	--	--	95	--	--	--	--	16	87	2	58	108
RENZE	3364YGPL	P250	**217**	--	--	103	--	--	--	--	16	99	0	58	110
RENZE	5425HX1	P250	187	--	--	88	--	--	--	--	16	94	1	57	109
RENZE	5455HX1	P250	**216**	--	--	102	--	--	--	--	16	99	2	59	115
RENZE	8354YGCB	P250	190	--	--	90	--	--	--	--	16	94	9	60	104
RENZE	8364YGCB	P250	210	--	--	99	--	--	--	--	16	100	0	57	111
RENZE	8394YGCB	P250	**221**	--	--	105	--	--	--	--	16	97	1	58	115
RENZE	8454YGCB	P250	**217**	--	--	103	--	--	--	--	16	91	2	58	114
ST CHK	M798 Cruiser	C	185	--	--	88	--	--	--	--	16	85	12	61	116
ST CHK	M798 P250	P250	196	--	--	93	--	--	--	--	16	83	16	61	117
STINE	9804YGCB	P250	198	--	--	94	--	--	--	--	16	103	2	56	104
TRIUMPH	1866Bt	P1250	181	204	192	86	92	--	16	--	16	102	14	61	120
TRIUMPH	2011RR	P1250	193	214	204	92	96	--	16	--	16	92	8	60	113
WARNER	4602B	P250	**214**	--	--	101	--	--	--	--	16	81	2	58	112
ACCESS	AEXP5417YGCB	P250	**218**	--	--	103	--	--	--	--	17	98	4	60	108
CROPLAN GEN.	705RR	C	186	--	--	88	--	--	--	--	17	92	3	59	109
CROPLAN GEN.	799Bt	C	203	--	--	96	--	--	--	--	17	97	1	60	122
CROPLAN GEN.	818RRBT	C	**227**	242	234	107	109	--	17	--	17	93	3	58	109
GARST	8288		207	229	218	98	103	--	17	--	17	101	2	60	120
GARST	8292YG1		208	--	--	99	--	--	--	--	17	89	1	60	122
KAYSTAR	X4181B	P250	**223**	--	--	106	--	--	--	--	17	95	0	57	117
PFISTER	3356Bt	P1250	**216**	--	--	102	--	--	--	--	17	98	1	58	117
PIONEER	31A13	P250	**218**	222	220	103	100	--	18	--	17	96	2	60	114
PIONEER	33P67	P250	**223**	242	232	105	109	--	17	--	17	96	1	61	117
STINE	9803YGCB	P250	211	242	226	100	109	--	17	--	17	104	2	59	106
	AVERAGES		211	222	217	211	222	--	16	--	16	95	3	58	113
	CV (%)		7	6	--	7	6	--	--	--	2	6	142	1	3
	LSD (0.05)**		20	20	--	9	9	--	--	--	--	9	5	1	5

* C=Cruiser, P250 or P1250=Poncho at 250 or 1250 rates. All entries had fungicide seed treatments.

** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other. Current-year yields in bold are in the top LSD group.

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 2003

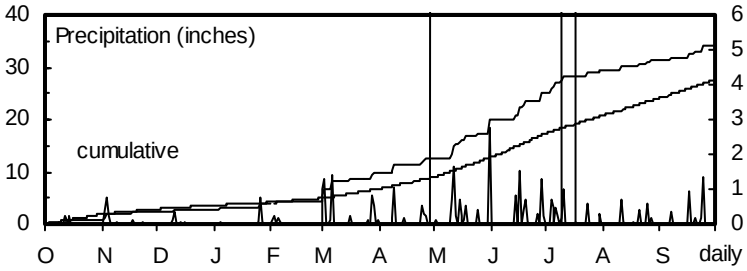
220 - 30 - 0 lb/a N, P, K

Planted on 4/28/2004; Harvested on 10/8/2004

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

Favorable conditions resulted in excellent yields.

	Precipitation		Average Temp.		GDU	
Month	2004	Norm.	2004	Norm.	2004	Norm.
Oct.-Mar.	10.1	6.7	37	36	158	25
April	2.4	2.3	53	52	257	217
May	7.5	3.7	65	63	497	421
June	5.4	4.6	70	73	585	679
July	4.1	3.4	74	78	713	807
August	2.0	3.4	72	77	637	780
Sept.	3.0	3.6	71	68	628	551
Totals:	34.4	27.6	53	52	3,474	3,481



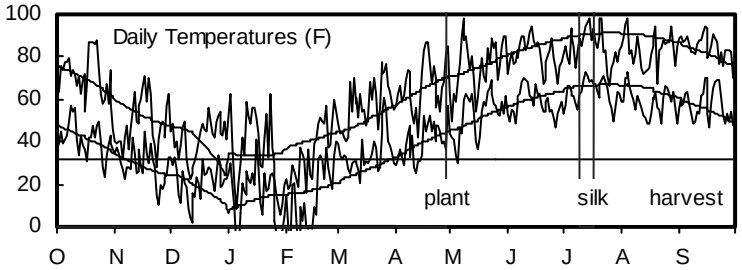


Table 9. Scandia Irrigated Corn Performance Test, 2003-2004.

			YIELD					2003-2004		2004					
		Seed	bushels/acre			% of test average		Days	Grain	Days	Grain	Final		Test	
BRAND	NAME	treat-ment*	2004	2003	2-Yr. AVG.	2004	2003	to Silk	Moist. %	to Silk	Moist. %	Stand %	Ldg %	Wt. lb/bu	Ht. in.
DYNA-GRO	57F29	P250	234	--	--	97	--	--	--	70	15	108	1	60	100
KAYSTAR	KX-8615Bt	P250	252	--	--	105	--	--	--	71	15	107	0	59	104
DYNA-GRO	57P69	P250	216	--	--	90	--	--	--	71	16	104	1	59	98
FONTANELLE	7798YGCB/RR	P250	237	--	--	98	--	--	--	71	16	107	4	58	96
ACCESS	AEXP5313YGCB	P250	232	--	--	96	--	--	--	72	16	105	1	58	107
ACCESS	AEXP8413Hx	P250	246	--	--	102	--	--	--	72	16	107	3	59	102
MIDLAND	7B13YGCB	P250	233	--	--	97	--	--	--	72	16	105	6	59	95
MYCOGEN	2T780	C	235	--	--	98	--	--	--	73	17	110	4	59	98
PIONEER	33P67	P250	**269**	239	254	112	109	79	18	73	17	110	7	60	105
ACCESS	AEXP1516RR	P250	237	--	--	98	--	--	--	74	16	105	1	60	97
ACCESS	AEXP5514YGCB	P250	229	--	--	95	--	--	--	74	16	106	4	59	96
ACCESS	AEXP8414Hx	P250	233	--	--	97	--	--	--	74	16	107	5	60	101
AGSOURCE	6273 CB	P250	256	--	--	106	--	--	--	74	16	108	1	59	104
CROPLAN GEN.	693Bt/CL	C	206	--	--	86	--	--	--	74	16	103	0	58	108
DYNA-GRO	57P93	P250	248	--	--	103	--	--	--	74	16	105	2	60	101
FONTANELLE	8N422	P250	235	--	--	97	--	--	--	74	16	109	4	59	100
KRUGER	K-9111YGCB	P250	**269**	--	--	112	--	--	--	74	16	109	6	59	105
KRUGER	K-9212RR/YGCB	P250	244	198	221	101	90	80	17	74	16	109	4	58	100
KRUGER	K-9315YGCB	P250	247	--	--	102	--	--	--	74	16	105	0	59	98
KRUGER	K-9414YGCB	P250	231	--	--	96	--	--	--	74	16	109	2	58	100
MATURITY CHECK	MID-NC+4823B	P250	239	--	--	99	--	--	--	74	16	108	2	59	95
MIDLAND	7A29YGCB	P250	234	--	--	97	--	--	--	74	16	106	2	58	100
PFISTER	2656Bt	P1250	236	--	--	98	--	--	--	74	16	104	2	58	100
ACCESS	AEXP0514	P250	244	--	--	101	--	--	--	74	17	107	0	58	104
ACCESS	AEXP5415YGCB	P250	239	--	--	99	--	--	--	74	17	106	3	58	98
ACCESS	AEXP5416YGCB	P250	253	--	--	105	--	--	--	74	17	107	1	59	98
AGSOURCE	6163 CB	C	237	212	224	99	96	79	18	74	17	108	3	59	100
ASGROW	RX752RR/YG	P250	238	--	--	99	--	--	--	74	17	105	1	60	96

(continued)

Table 9. Scandia Irrigated Corn Performance Test, 2003-2004 - continued.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
CROPLAN GEN.	694Bt	C	211	--	--	87	--	--	--	74	17	107	3	59	100
CROPLAN GEN.	699Bt/CL	C	233	--	--	97	--	--	--	74	17	108	0	59	102
CROPLAN GEN.	799Bt	C	219	--	--	91	--	--	--	74	17	106	7	59	108
DEKALB	DKC60-19R/YGB	P250	233	206	220	97	94	79	18	74	17	105	2	59	96
DEKALB	DKC63-81R/YGB	P250	235	--	--	97	--	--	--	74	17	107	0	60	98
DYNA-GRO	57P46	P250	247	--	--	103	--	--	--	74	17	109	6	59	98
FONTANELLE	HC-7931YGCB	P250	250	--	--	104	--	--	--	74	17	102	3	58	99
FONTANELLE	HC-7951YGCB	P250	246	220	233	102	100	79	18	74	17	106	2	59	96
FONTANELLE	HC-7971YGCB	P250	235	--	--	98	--	--	--	74	17	108	0	58	98
GARST	8376YG1		252	--	--	105	--	--	--	74	17	107	3	59	105
KRUGER	K-9114YGCB	P250	252	--	--	105	--	--	--	74	17	110	2	59	98
MATURITY CHECK	SHORT - G8590		209	213	211	87	97	77	17	74	17	105	3	59	100
MIDLAND	7B15YGCB	P250	257	--	--	107	--	--	--	74	17	106	0	58	98
MYCOGEN	2A812	C	223	210	216	93	96	78	18	74	17	103	7	59	104
NK	N65-M7		228	229	228	95	104	78	18	74	17	107	6	58	98
CROPLAN GEN.	705RR	C	228	--	--	95	--	--	--	74	18	102	0	59	106
DYNA-GRO	58P59	P250	**263**	--	--	109	--	--	--	74	18	103	0	58	98
LEWIS	7044YGCB	P250	260	--	--	108	--	--	--	74	18	105	3	59	104
MYCOGEN	2T801	C	250	--	--	104	--	--	--	75	17	105	8	59	100
KRUGER	K-9115YGCB	P250	259	215	237	108	98	79	18	75	18	105	3	59	102
ACCESS	AEXP5417YGCB	P250	231	--	--	96	--	--	--	76	18	106	1	59	98
AGSOURCE	5883 CB	P250	244	--	--	101	--	--	--	76	18	106	5	59	100
AGSOURCE	7783 CB	C	244	220	232	102	100	81	18	76	18	105	4	58	98
NC+	5423B	P250	258	--	--	107	--	--	--	76	18	106	0	58	100
PFISTER	3030Bt	P1250	221	--	--	92	--	--	--	76	18	103	4	59	99
PIONEER	33R78	C	**280**	--	--	116	--	--	--	76	18	100	4	58	109
TAYLOR	955RR/Bt	P250	252	--	--	105	--	--	--	76	18	106	9	58	107
CROPLAN GEN.	731Hx	C	237	--	--	99	--	--	--	77	18	103	2	59	108
CROPLAN GEN.	818RRBT	C	245	231	238	102	105	80	18	77	18	108	3	58	98
DYNA-GRO	57F87	P250	251	--	--	104	--	--	--	77	18	110	3	58	98
GARST	8292YG1		**265**	--	--	110	--	--	--	77	18	103	4	58	109
GARST	8454YG1		205	239	222	85	109	80	18	77	18	100	0	59	111
KAYSTAR	X4181B	P250	257	--	--	107	--	--	--	77	18	105	0	59	98
MATURITY CHECK	FULL - M798		250	239	244	104	109	82	18	77	18	104	2	60	111
MIDLAND	7A14YGCB	P250	235	--	--	97	--	--	--	77	18	103	6	58	105
NK	N70-T9		234	218	226	97	99	81	18	77	18	107	3	59	98
ST CHK	M798 P250	P250	245	--	--	102	--	--	--	77	18	107	2	58	108
TRIUMPH	1866Bt	P1250	229	--	--	95	--	--	--	77	18	108	1	59	109
WARNER	4602B	P250	**265**	--	--	110	--	--	--	77	18	101	5	58	98
GARST	8383YG1		238	229	233	99	104	81	19	77	19	103	2	58	98
PFISTER	3356Bt	P1250	250	--	--	104	--	--	--	78	19	106	1	58	105
PIONEER	31A13	P250	245	--	--	102	--	--	--	78	19	107	3	60	100
ST CHK	M798 Cruiser	C	217	--	--	90	--	--	--	78	19	107	3	58	105
	AVERAGES		241	220	230	241	220	79	18	75	17	106	3	59	101
	CV (%)		5	5	--	5	5	--	--	1	1	4	161	0	1
	LSD (0.05)**		18	18	--	7	8	--	--	1	--	5	NS	0	1

* C=Cruiser, P250 or P1250=Poncho at 250 or 1250 rates. All entries had fungicide seed treatments.

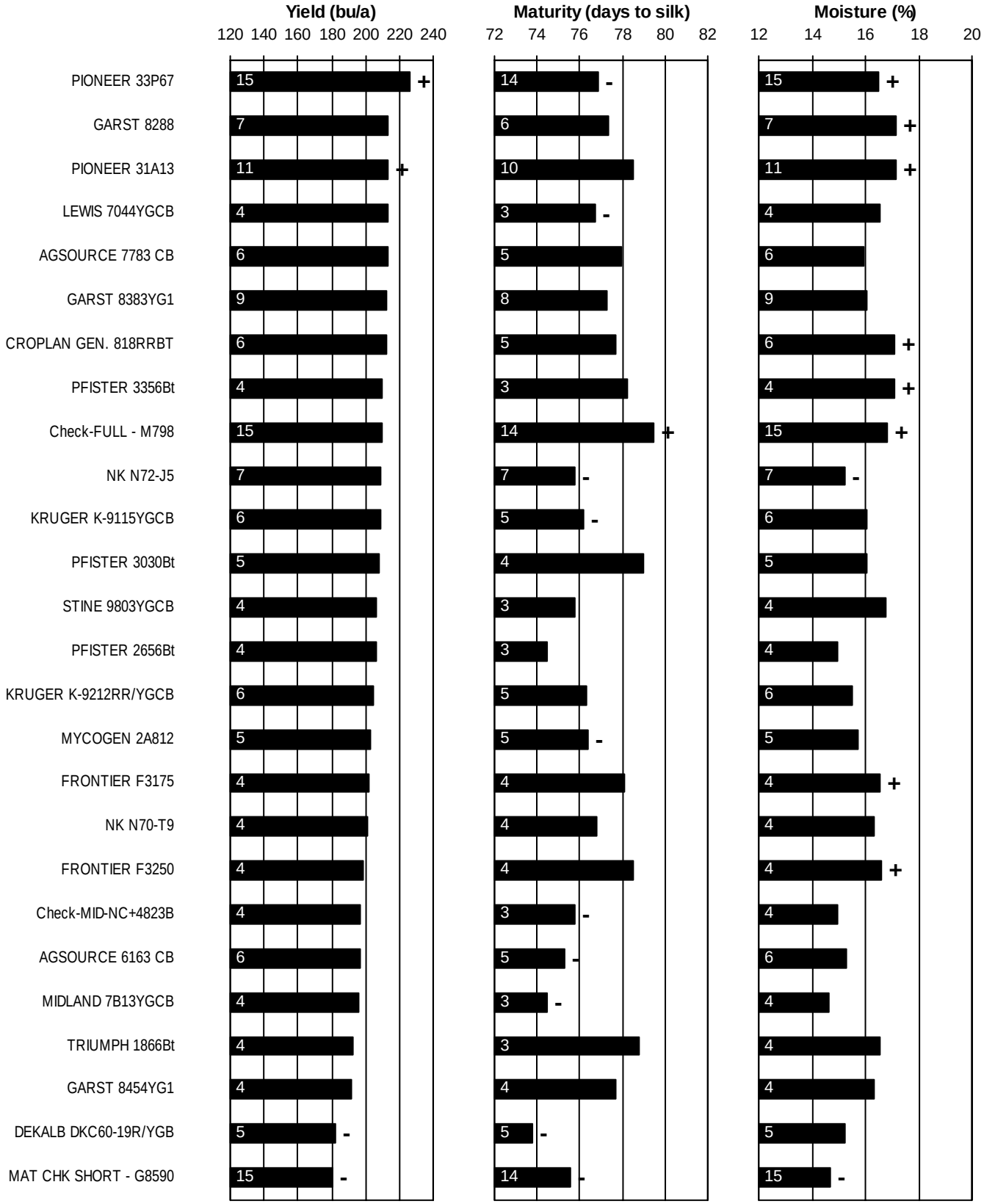
** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other. Current-year yields in bold are in the top LSD group.

Table 10. NORTHEAST Kansas IRRIGATED corn hybrid yield summary (% of test avg.), 2004.

BRAND/NAME	TOP*	CLC	SCA	AVG.
ACCESS				
AEXP0514	98	103	101	101
AEXP1516RR	85	100	98	94
AEXP5313YGCB	105	102	96	101
AEXP5415YGCB	103	102	99	101
AEXP5416YGCB	101	101	105	102
AEXP5417YGCB	107	103	96	102
AEXP5514YGCB	87	96	95	93
AEXP8413Hx	97	93	102	97
AEXP8414Hx	108	102	97	102
AGSOURCE				
5883 CB	--	101	101	--
6163 CB	97	99	99	98
6273 CB	95	102	106	101
7783 CB	110	108	102	107
ASGROW				
RX752RR/YG	98	--	99	--
CROPLAN GEN.				
693Bt/CL	96	99	86	93
694Bt	89	--	87	--
699Bt/CL	103	100	97	100
705RR	92	88	95	91
731Hx	119	107	99	108
799Bt	98	96	91	95
818RRBT	104	107	102	104
DEKALB				
DKC60-19R/YGB	83	--	97	--
DKC63-81R/YGB	101	--	97	--
DYNA-GRO				
57F29	90	92	97	93
57F87	103	104	104	104
57P46	95	103	103	100
57P69	98	97	90	95
57P93	105	105	103	104
58P59	115	103	109	109
FONTANELLE				
7798YGCB/RR	--	99	98	--
8N422	--	109	97	--
HC-7931YGCB	--	108	104	--
HC-7951YGCB	--	98	102	--
HC-7971YGCB	--	93	98	--
GARST				
8288	--	98	--	--
8292YG1	95	99	110	101
8376YG1	--	110	105	--
8377YG1/RR	108	--	--	--
8383YG1	105	96	99	100
8454YG1	94	--	85	--
KAYSTAR				
KX-8615Bt	--	101	105	--
X4181B	--	106	107	--
KRUGER				
K-9111YGCB	103	101	112	105
K-9114YGCB	106	100	105	104
K-9115YGCB	112	106	108	109
K-9212RR/YGCB	97	109	101	102
K-9315YGCB	104	95	102	101
K-9414YGCB	93	96	96	95
LEWIS				
5454YGCBRR	102	104	--	--
5645YGCB	101	--	--	--
7044YGCB	105	99	108	104
MIDLAND				
7A14YGCB	--	100	97	--
7A15Bt	98	--	--	--
7A28Bt	112	--	--	--
7A29YGCB	--	104	97	--
MIDLAND				
7A58Bt	99	--	--	--
7B13YGCB	93	107	97	99
7B15YGCB	--	105	107	--
MYCOGEN				
2A812	106	--	93	--
2T780	115	--	98	--
2T801	104	--	104	--
NC+				
5423B	--	--	107	--
5433RB	97	--	--	--
NK				
N65-M7	--	--	95	--
N70-T9	103	--	97	--
N72-J5	99	--	--	--
N76-H2	100	--	--	--
PFISTER				
2656Bt	103	105	98	102
2750Bt	98	--	--	--
2760	97	--	--	--
3030Bt	106	94	92	97
3356Bt	101	102	104	102
PIONEER				
31A13	99	103	102	101
33P67	105	105	112	107
33R78	110	99	116	109
PREMIUM				
P236	--	95	--	--
PRODUCERS				
7284BT	101	--	--	--
7373RRBT	108	--	--	--
RAINBOW				
3158YGCB	98	--	--	--
RENZE				
3364YGPL	89	103	--	--
5425HX1	100	88	--	--
5455HX1	89	102	--	--
8354YGCB	89	90	--	--
8364YGCB	95	99	--	--
8394YGCB	109	105	--	--
8454YGCB	103	103	--	--
ST CHK				
M798 Cruiser	92	88	90	90
M798 P250	98	93	102	98
STINE				
9720YGCB	93	--	--	--
9803YGCB	103	100	--	--
9804YGCB	--	94	--	--
TAYLOR				
955RR/Bt	112	--	105	--
990RR/Bt	115	--	--	--
TRIUMPH				
1416Bt	103	--	--	--
1866Bt	--	86	95	--
2011RR	--	92	--	--
WARNER				
4602B	101	101	110	104
MATURITY CHECK				
FULL - M798	103	98	104	102
MID-NC+4823B	96	104	99	100
SHORT - G8590	74	93	87	84
AVERAGES (bu/a)	239	211	241	230
CV (%)	8	7	5	--
LSD (0.05)	11	9	7	--

* TOP = Topeka, Shawnee Co. CLC = Clay Center, Clay Co. SCA = Scandia, Republic Co.

Figure 5. NORTHEAST Kansas IRRIGATED corn hybrid standardized performance summary, 2000-2004.



Values within bars indicate the number of comparisons with checks. Symbols (+,-) indicate if statistically higher or lower than mean of checks.

EASTERN KANSAS DRYLAND CORN TEST ON SILTY CLAY LOAM

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

Silty clay loam; Soybean in 2003

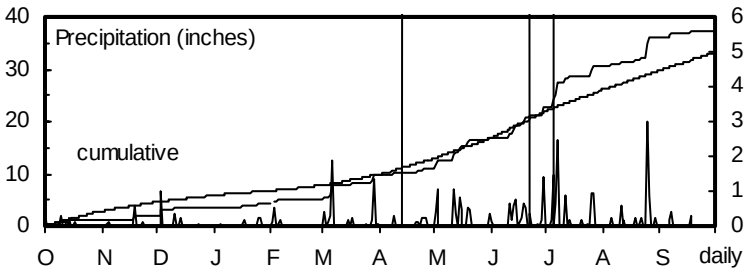
155 - 35 - 0 lb/a N, P, K

Planted on 4/13/2004; Harvested on 9/29/2004

Target stand of 22,000 plants/acre; 9.5 in. spacing

Above average rainfall in May and June and favorable temperatures resulted in excellent yields.

	Precipitation		Average Temp.		GDU	
Month	2004	Norm.	2004	Norm.	2004	Norm.
Oct.-Mar.	10.1	9.9	38	38	134	50
April	1.2	2.9	56	54	306	236
May	5.6	4.0	67	64	548	444
June	5.9	5.0	71	73	606	698
July	7.9	4.1	75	78	729	827
August	5.6	3.7	71	77	643	802
Sept.	0.9	3.5	69	69	611	584
Totals:	37.2	33.2	53	54	3,575	3,640



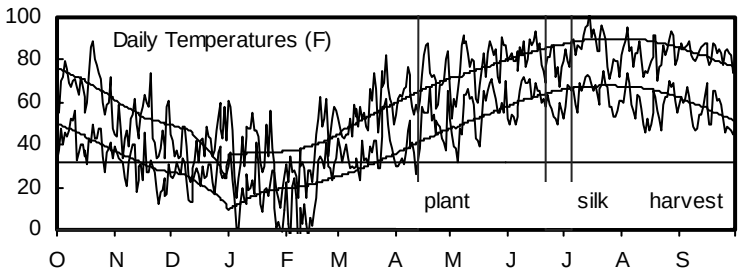


Table 11. Topeka Dryland Corn Performance Test, 2003-2004.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
PIONEER	35P15	C	179	58	118	87	90	73	12	68	13	98	--	58	101
ASGROW	RX752RR/YG	P250	205	--	--	100	--	--	--	70	14	102	--	58	109
DEKALB	DKC60-19R/YGB	P250	190	--	--	92	--	--	--	70	14	101	--	58	99
GARST	8545		176	67	122	85	105	75	12	71	13	96	--	57	111
MIDLAND	7B13YGCB	P250	210	68	139	102	105	75	12	71	13	101	--	57	104
PIONEER	34H32	C	184	--	--	90	--	--	--	71	14	102	--	60	111
STINE	9804YGCB	P250	207	--	--	101	--	--	--	71	15	101	--	56	105
CROPLAN GEN.	501Bt	C	171	--	--	83	--	--	--	72	12	105	--	56	113
PFISTER	2326Bt	P1250	194	--	--	94	--	--	--	72	12	98	--	56	110
ACCESS	AEXP5313YGCB	P250	201	--	--	98	--	--	--	72	13	98	--	57	109
CROPLAN GEN.	693Bt/CL	C	219	--	--	106	--	--	--	72	13	103	--	57	113
DEKALB	DKC63-81R/YGB	P250	204	--	--	99	--	--	--	72	13	105	--	58	100
KRUGER	K-9114YGCB	P250	207	--	--	100	--	--	--	72	13	106	--	57	113
KRUGER	K-9212RR/YGCB	P250	217	--	--	105	--	--	--	72	13	103	--	57	116
MATURITY CHECK	SHORT - G8590		178	57	117	86	89	76	12	72	13	93	--	57	112
NK	N65-M7		204	61	132	99	95	76	12	72	13	107	--	57	109
NK	N72-J5		220	72	146	107	112	76	13	72	13	104	--	57	115
RENZE	3364YGPL	P250	194	--	--	94	--	--	--	72	13	103	--	57	107
RENZE	9363YGCB/RR	P250	214	70	142	104	110	76	12	72	13	108	--	57	113
STINE	9723	P250	171	--	--	83	--	--	--	72	13	100	--	57	111
TAYLOR	960RR/Bt	P250	197	--	--	96	--	--	--	72	13	99	--	57	113
ACCESS	AEXP1516RR	P250	179	--	--	87	--	--	--	72	14	102	--	60	110
ACCESS	AEXP5416YGCB	P250	216	--	--	105	--	--	--	72	14	98	--	57	106
ACCESS	AEXP5514YGCB	P250	190	--	--	92	--	--	--	72	14	98	--	57	105

(continued)

Table 11. Topeka Dryland Corn Performance Test, 2003-2004 - continued.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
ACCESS	AEXP8414Hx	P250	**226**	--	--	110	--	--	--	72	14	91	--	57	113
KRUGER	K-9115YGCB	P250	**226**	--	--	110	--	--	--	72	14	99	--	57	109
KRUGER	K-9315YGCB	P250	216	--	--	105	--	--	--	72	14	101	--	58	110
MIDLAND	7A15Bt		**229**	65	147	111	101	76	13	72	14	99	--	57	114
NK	N70-T9		218	67	143	106	104	76	12	72	14	106	--	57	110
RENZE	8454YGCB	P250	**234**	65	150	114	102	76	12	72	14	103	--	57	108
WARNER	4602B	P250	206	--	--	100	--	--	--	72	14	95	--	56	112
ACCESS	AEXP8413Hx	P250	210	--	--	102	--	--	--	73	13	98	--	57	108
MATURITY CHECK	MID-NC+4823B	P250	203	52	128	98	81	76	12	73	13	102	--	57	113
MYCOGEN	2G768	C	202	75	139	98	116	76	12	73	13	101	--	57	116
PFISTER	2656RR	P1250	201	--	--	98	--	--	--	73	13	103	--	56	112
PIONEER	34M93	P250	184	--	--	90	--	--	--	73	13	102	--	57	111
RENZE	5425HX1	P250	203	--	--	99	--	--	--	73	13	100	--	57	111
CROPLAN GEN.	731Hx	C	**240**	--	--	117	--	--	--	73	14	107	--	57	116
KRUGER	K-9414YGCB	P250	**224**	--	--	109	--	--	--	73	14	107	--	57	114
MYCOGEN	2T780	C	**243**	--	--	118	--	--	--	73	14	102	--	56	114
RENZE	5455HX1	P250	201	--	--	98	--	--	--	73	14	103	--	57	118
ACCESS	AEXP0514	P250	222	--	--	108	--	--	--	74	13	98	--	57	110
KRUGER	K-9111YGCB	P250	205	--	--	99	--	--	--	74	13	108	--	56	115
MYCOGEN	2P786	C	206	--	--	100	--	--	--	74	13	94	--	56	111
PFISTER	2730	P1250	207	--	--	101	--	--	--	74	13	95	--	56	109
ACCESS	AEXP5415YGCB	P250	222	--	--	108	--	--	--	74	14	104	--	56	120
CROPLAN GEN.	705RR	C	191	--	--	93	--	--	--	74	14	97	--	57	109
MIDLAND	7A28Bt		**234**	66	150	114	103	78	13	74	14	99	--	56	116
PFISTER	2760	P1250	203	79	141	99	123	77	13	74	14	103	--	59	120
PFISTER	3153RR	P1250	199	--	--	97	--	--	--	74	14	94	--	56	108
MIDLAND	7A58Bt		204	--	--	99	--	--	--	74	15	101	--	57	115
ACCESS	AEXP5417YGCB	P250	220	--	--	107	--	--	--	74	16	110	--	58	113
GOLDEN ACRES	2841RRB	P250	**223**	--	--	109	--	--	--	76	14	95	--	55	115
MATURITY CHECK	FULL - M798		216	59	138	105	92	81	15	78	15	108	--	59	115
ST CHK	M798 Cruiser	C	**224**	--	--	109	--	--	--	78	15	103	--	59	116
GOLDEN ACRES	X-6420Bt	P250	213	--	--	104	--	--	--	78	17	96	--	59	119
GOLDEN ACRES	2995RR	P250	200	--	--	97	--	--	--	80	15	96	--	56	107
ST CHK	M798 P250	P250	214	--	--	104	--	--	--	80	15	106	--	59	121
	AVERAGES		206	64	135	206	64	76	13	73	14	101	--	57	111
	CV (%)		7	14	--	7	14	--	--	2	3	6	--	1	5
	LSD (0.05)**		20	13	--	10	20	--	--	2	--	8	--	1	8

* C=Cruiser, P250 or P1250=Poncho at 250 or 1250 rates. All entries had fungicide seed treatments.

** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other. Current-year yields in bold are in the top LSD group.

EAST-CENTRAL KANSAS DRYLAND CORN TEST ON UPLAND SILT LOAM SOIL

East Central Kansas Experiment Field, Ottawa; Larry Maddux, agronomist; Jim Kimball, technician

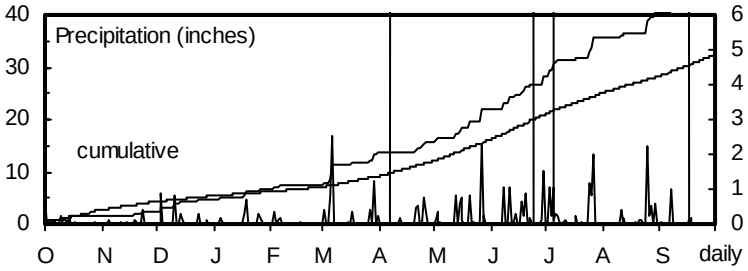
Woodson silt loam; Soybean in 2003

111 - 38 - 0 lb/a N, P, K

Planted on 4/6/2004; Harvested on 9/14/2004

Target stand of 21,000 plants/acre; 10.0 in. spacing

The test field was strip tilled and fertilized in the fall, enabling planting with no additional tillage in the spring. Rainfall was above normal from May through August.



	Precipitation		Average Temp.		GDU	
Month	2004	Norm.	2004	Norm.	2004	Norm.
Oct.-Mar.	13.5	9.3	43	41	190	93
April	2.3	2.9	57	56	321	277
May	6.2	4.3	68	65	576	480
June	6.3	4.8	72	74	658	713
July	7.4	4.1	76	80	770	830
August	4.5	3.2	73	79	689	807
Sept.	1.3	4.3	70	71	631	630
Totals:	41.6	32.8	56	56	3,834	3,830

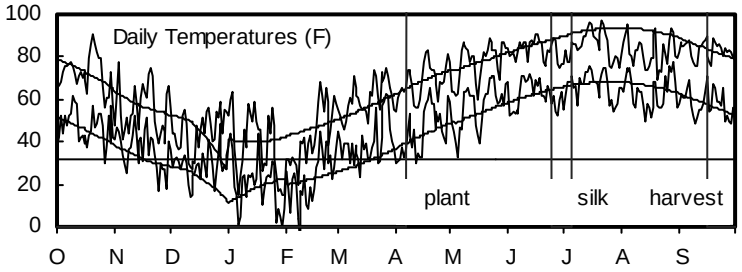


Table 12. Ottawa Corn Performance Test, 2002-2004.

			YIELD					2003-2004		2004					
		Seed	bushels/acre			% of test	average	Days	Grain	Days	Grain	Final	Ldg	Test Wt.	Ht.
BRAND	NAME	treat-ment*	2004	2002	2-Yr. AVG.	2004	2003	to Silk	Moist. %	to Silk	Moist. %	Stand %	%	lb/bu	in.
PFISTER	2326Bt	P1250	156	--	--	97	--	--	--	78	14	--	--	56	94
MATURITY CHECK	MID-NC+4823B	P250	160	--	--	100	--	--	--	78	15	--	--	56	99
PFISTER	2656RR	P1250	**175**	--	--	109	--	--	--	78	15	--	--	56	102
PIONEER	35P15	C	147	54	100	92	135	77	13	78	15	--	--	58	92
DEKALB	DKC60-19R/YGB	P250	160	--	--	100	--	--	--	78	16	--	--	57	88
NK	N70-T9		**169**	--	--	105	--	--	--	78	16	--	--	56	97
STINE	9720YGCB	P250	163	--	--	101	--	--	--	78	16	--	--	56	95
ASGROW	RX752RR/YG	P250	**166**	--	--	103	--	--	--	78	17	--	--	58	96
CROPLAN GEN.	501Bt	C	145	--	--	90	--	--	--	79	13	--	--	56	100
GARST	8545		151	--	--	94	--	--	--	79	15	--	--	57	101
ACCESS	AEXP5514YGCB	P250	**178**	--	--	111	--	--	--	79	16	--	--	57	92
KRUGER	K-9115YGCB	P250	**172**	--	--	107	--	--	--	79	16	--	--	56	98
MIDLAND	7B13YGCB	P250	158	--	--	98	--	--	--	79	16	--	--	56	100
NK	N65-M7		155	59	107	96	148	78	13	79	16	--	--	56	98
PIONEER	34H32	C	150	--	--	93	--	--	--	79	16	--	--	60	98
PRODUCERS	7284BT	C	**167**	--	--	104	--	--	--	79	16	--	--	57	93
WARNER	4602B	P250	149	--	--	92	--	--	--	79	16	--	--	56	101
STINE	9804YGCB	P250	148	--	--	92	--	--	--	79	18	--	--	54	95
KRUGER	K-9111YGCB	P250	163	--	--	101	--	--	--	80	14	--	--	56	101
CROPLAN GEN.	693Bt/CL	C	154	--	--	96	--	--	--	80	15	--	--	56	106
CROPLAN GEN.	731Hx	C	**182**	--	--	113	--	--	--	80	16	--	--	56	109
KRUGER	K-9212RR/YGCB	P250	155	--	--	96	--	--	--	80	16	--	--	56	103

(continued)

Table 12. Ottawa Corn Performance Test, 2002-2004 - continued.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2002	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
KRUGER	K-9414YGCB	P250	162	--	--	101	--	--	--	80	16	--	--	56	105
MIDLAND	7A15Bt		154	--	--	96	--	--	--	80	16	--	--	56	100
NK	N72-J5		**182**	--	--	113	--	--	--	80	16	--	--	55	105
PFISTER	2730	P1250	**165**	--	--	103	--	--	--	80	16	--	--	55	96
STINE	9619YGCB	P250	162	--	--	101	--	--	--	80	16	--	--	56	95
PRODUCERS	7373RRBT	C	**168**	--	--	104	--	--	--	80	17	--	--	56	102
STINE	9723	P250	151	--	--	94	--	--	--	80	17	--	--	56	98
CROPLAN GEN.	705RR	C	154	--	--	95	--	--	--	80	18	--	--	58	96
STINE	9803YGCB	P250	**165**	--	--	103	--	--	--	80	18	--	--	57	101
GARST	8292YG1		152	--	--	94	--	--	--	80	19	--	--	57	104
MATURITY CHECK	SHORT - G8590		151	48	100	94	121	79	13	81	15	--	--	57	98
ACCESS	AEXP8414Hx	P250	**169**	--	--	105	--	--	--	81	16	--	--	55	110
GARST	8350YG1		154	--	--	96	--	--	--	81	17	--	--	57	100
GOLDEN ACRES	2841RRB	P250	164	--	--	102	--	--	--	81	17	--	--	54	105
KRUGER	K-9114YGCB	P250	**166**	--	--	103	--	--	--	81	17	--	--	56	103
KRUGER	K-9315YGCB	P250	157	28	92	97	71	80	--	81	17	--	--	57	99
STINE	9716	P250	157	--	--	98	--	--	--	81	17	--	--	57	101
ACCESS	AEXP0514	P250	**169**	--	--	105	--	--	--	82	16	--	--	55	105
DEKALB	DKC63-81R/YGB	P250	158	--	--	98	--	--	--	82	16	--	--	58	97
PFISTER	2760	P1250	162	--	--	101	--	--	--	82	16	--	--	59	107
WILLCROSS	3103CB		162	--	--	100	--	--	--	82	16	--	--	58	103
ACCESS	AEXP1516RR	P250	144	--	--	90	--	--	--	82	17	--	--	60	101
ACCESS	AEXP5415YGCB	P250	152	--	--	94	--	--	--	82	17	--	--	55	106
PFISTER	3153RR	P1250	159	--	--	99	--	--	--	82	17	--	--	56	98
ACCESS	AEXP5417YGCB	P250	**172**	--	--	107	--	--	--	82	18	--	--	57	100
NK	N76-H2		160	--	--	99	--	--	--	82	18	--	--	55	103
WILLCROSS	3143CB		**174**	--	--	108	--	--	--	83	17	--	--	54	107
MATURITY CHECK	FULL - M798		**168**	33	101	105	84	82	18	83	18	--	--	58	110
ST CHK	M798 Cruiser	C	**167**	--	--	104	--	--	--	83	18	--	--	58	112
ST CHK	M798 P250	P250	**178**	--	--	110	--	--	--	83	18	--	--	58	110
WILLCROSS	3179RR		158	--	--	98	--	--	--	84	18	--	--	57	111
PIONEER	31G66	P250	**174**	--	--	108	--	--	--	85	18	--	--	56	112
GOLDEN ACRES	X-6420Bt	P250	164	--	--	102	--	--	--	86	20	--	--	58	109
GOLDEN ACRES	2995RR	P250	**170**	--	--	106	--	--	--	88	18	--	--	53	101
	AVERAGES		161	40	100	161	40	80	15	81	16	--	--	56	101
	CV (%)		9	21	--	9	21	--	--	1	3	--	--	1	4
	LSD (0.05)**		19	11	--	12	29	--	--	1	1	--	--	1	5

* C=Cruiser, P250 or P1250=Poncho at 250 or 1250 rates. All entries had fungicide seed treatments.

** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other. Current-year yields in bold are in the top LSD group.

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 2003

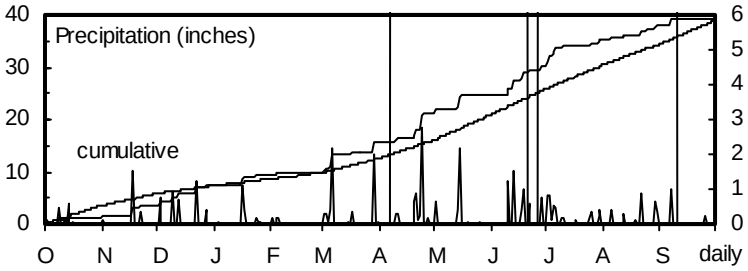
220 - 100 - 100 lb/a N, P, K

Planted on 4/6/2004; Harvested on 9/8/2004

Target stand of 25,000 plants/acre; 8.4 in. spacing

Rainfall was abundant to the point of excess at times, reducing stands early in the season.

	Precipitation		Average Temp.		GDU	
Month	2004	Norm.	2004	Norm.	2004	Norm.
Oct.-Mar.	15.7	12.5	43	41	177	82
April	5.5	3.5	56	56	282	266
May	3.5	4.8	68	66	577	485
June	5.7	4.9	72	74	648	723
July	5.0	4.6	75	80	749	844
August	2.8	4.0	73	79	695	817
Sept.	1.3	4.7	71	71	643	640
Totals:	39.3	38.9	56	56	3,768	3,856



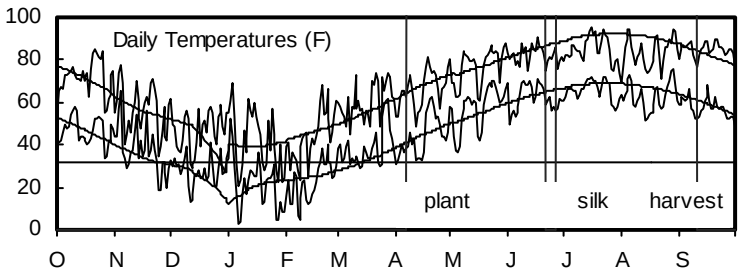


Table 13. Erie Corn Performance Test, 2003-2004.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
CROPLAN GEN.	501Bt	C	178	--	--	97	--	--	--	74	15	97	3	58	96
DEKALB	DKC60-19R/YGB	P250	183	181	182	100	93	80	15	74	15	91	2	59	92
GARST	8545		172	197	184	94	101	79	15	74	15	95	1	57	101
STINE	9720YGCB	P250	**194**	--	--	107	--	--	--	74	15	98	0	58	95
WARNER	4602B	P250	157	--	--	86	--	--	--	74	15	86	2	56	101
CROPLAN GEN.	705RR	C	168	--	--	92	--	--	--	74	16	91	12	58	98
MATURITY CHECK	SHORT - G8590		151	162	156	83	83	80	14	75	14	87	5	58	92
CROPLAN GEN.	693Bt/CL	C	188	--	--	103	--	--	--	75	15	94	4	56	107
MIDLAND	7B13YGCB	P250	181	--	--	99	--	--	--	75	15	91	4	57	100
MYCOGEN	2A812	C	**198**	205	202	109	105	80	15	75	15	98	2	56	110
ASGROW	RX752RR/YG	P250	192	--	--	105	--	--	--	75	16	89	5	58	98
DEKALB	DKC63-81R/YGB	P250	173	--	--	95	--	--	--	76	15	94	4	59	95
GARST	8225YG1/RR		181	--	--	99	--	--	--	76	15	91	4	57	103
MATURITY CHECK	FULL - M798		175	193	184	96	98	81	15	76	15	93	3	59	107
MIDLAND	7A15Bt		171	200	186	94	102	81	15	76	15	98	1	57	103
MIDLAND	7A28Bt		**213**	206	209	117	105	81	16	76	15	92	2	55	107
NC+	5423B	P250	180	213	196	99	109	81	15	76	15	90	3	57	100
TRIUMPH	1866Bt	P1250	**203**	214	209	112	109	81	15	76	15	98	4	58	108
CROPLAN GEN.	731Hx	C	**207**	--	--	114	--	--	--	76	16	98	1	57	106
GARST	8450IT		177	--	--	97	--	--	--	76	16	97	5	56	100
GARST	8454YG1		170	205	187	93	105	81	15	76	16	89	6	56	99
GOLDEN ACRES	2841RRB	P250	**196**	--	--	108	--	--	--	76	16	92	2	56	104
MATURITY CHECK	MID-NC+4823B	P250	**193**	203	198	106	104	81	15	76	16	96	0	57	93
MYCOGEN	2T780	C	177	--	--	97	--	--	--	76	16	93	4	57	104

(continued)

Table 13. Erie Corn Performance Test, 2003-2004 - continued.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
PIONEER	31A13	P250	**194**	204	199	106	104	81	16	76	16	98	1	57	110
PIONEER	31G66	P250	**209**	--	--	115	--	--	--	76	16	100	0	58	111
STINE	9716	P250	179	--	--	98	--	--	--	76	16	95	2	59	98
STINE	9803YGCB	P250	186	--	--	102	--	--	--	76	16	97	4	59	97
MIDLAND	7A58Bt		184	--	--	101	--	--	--	76	17	90	6	55	106
WILLCROSS	3103CB		164	--	--	90	--	--	--	77	15	87	1	59	103
WILLCROSS	3143CB		**206**	--	--	113	--	--	--	77	16	99	1	56	107
GOLDEN ACRES	X-6420Bt	P250	171	--	--	94	--	--	--	78	16	93	3	59	116
WILLCROSS	3179RR		165	--	--	90	--	--	--	78	16	93	5	57	106
PIONEER	33R78	C	**215**	--	--	118	--	--	--	78	17	94	1	56	118
GOLDEN ACRES	2995RR	P250	161	--	--	88	--	--	--	80	17	91	7	56	105
	AVERAGES		182	196	189	182	196	80	15	76	15	93	3	57	103
	CV (%)		9	6	--	9	6	--	--	1	4	7	115	1	3
	LSD (0.05)**		23	17	--	13	9	--	--	1	1	9	5	1	5

* C=Cruiser, P250 or P1250=Poncho at 250 or 1250 rates. All entries had fungicide seed treatments.

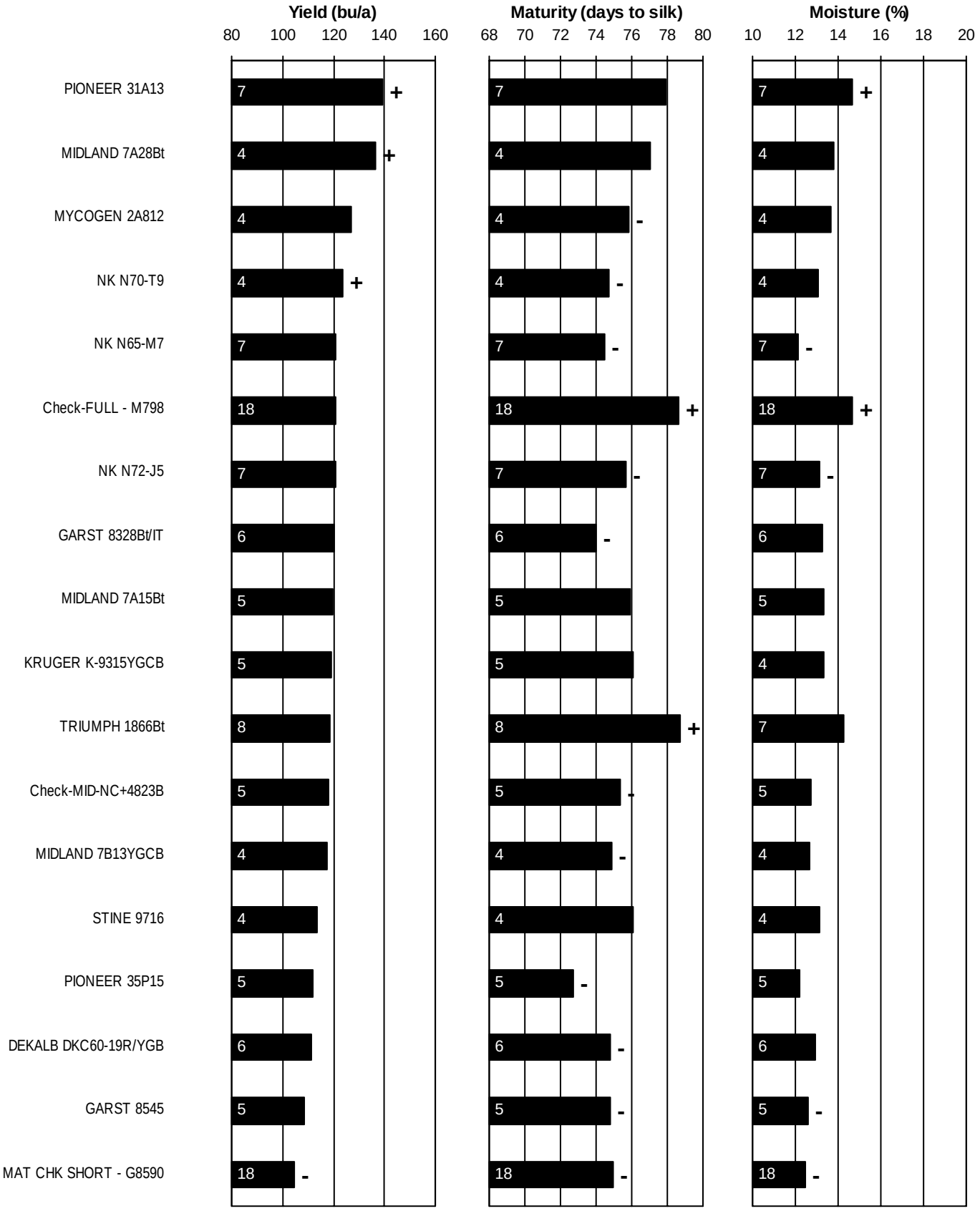
** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other. Current-year yields in bold are in the top LSD group.

Table 14. EAST Kansas corn hybrid yield summary (% of test average), 2004.

BRAND/NAME	TOP*	OTT	ERI	AVG.
ACCESS				
AEXP0514	108	105	--	--
AEXP1516RR	87	90	--	--
AEXP5313YGCB	98	--	--	--
AEXP5415YGCB	108	94	--	--
AEXP5416YGCB	105	--	--	--
AEXP5417YGCB	107	107	--	--
AEXP5514YGCB	92	111	--	--
AEXP8413Hx	102	--	--	--
AEXP8414Hx	110	105	--	--
ASGROW				
RX752RR/YG	100	103	105	103
CROPLAN GEN.				
501Bt	83	90	97	90
693Bt/CL	106	96	103	102
705RR	93	95	92	93
731Hx	117	113	114	115
DEKALB				
DKC60-19R/YGB	92	100	100	97
DKC63-81R/YGB	99	98	95	97
GARST				
8225YG1/RR	--	--	99	--
8292YG1	--	94	--	--
8350YG1	--	96	--	--
8450IT	--	--	97	--
8454YG1	--	--	93	--
8545	85	94	94	91
GOLDEN ACRES				
2841RRB	109	102	108	106
2995RR	97	106	88	97
X-6420Bt	104	102	94	100
KRUGER				
K-9111YGCB	99	101	--	--
K-9114YGCB	100	103	--	--
K-9115YGCB	110	107	--	--
K-9212RR/YGCB	105	96	--	--
K-9315YGCB	105	97	--	--
K-9414YGCB	109	101	--	--
MIDLAND				
7A15Bt	111	96	94	100
7A28Bt	114	--	117	--
7A58Bt	99	--	101	--
7B13YGCB	102	98	99	100
MYCOGEN				
2A812	--	--	109	--
2G768	98	--	--	--
2P786	100	--	--	--
2T780	118	--	97	--
NC+				
5423B	--	--	99	--
NK				
N65-M7	99	96	--	--
N70-T9	106	105	--	--
N72-J5	107	113	--	--
N76-H2	--	99	--	--
PFISTER				
2326Bt	94	97	--	--
2656RR	98	109	--	--
2730	101	103	--	--
2760	99	101	--	--
3153RR	97	99	--	--
PIONEER				
31A13	--	--	106	--
31G66	--	108	115	--
33R78	--	--	118	--
34H32	90	93	--	--
34M93	90	--	--	--
35P15	87	92	--	--
PRODUCERS				
7284BT	--	104	--	--
7373RRBT	--	104	--	--
RENZE				
3364YGPL	94	--	--	--
5425HX1	99	--	--	--
5455HX1	98	--	--	--
8454YGCB	114	--	--	--
9363YGCB/RR	104	--	--	--
ST CHK				
M798 Cruiser	109	104	--	--
M798 P250	104	110	--	--
STINE				
9619YGCB	--	101	--	--
9716	--	98	98	--
9720YGCB	--	101	107	--
9723	83	94	--	--
9803YGCB	--	103	102	--
9804YGCB	101	92	--	--
TAYLOR				
960RR/Bt	96	--	--	--
TRIUMPH				
1866Bt	--	--	112	--
WARNER				
4602B	100	92	86	93
WILLCROSS				
3103CB	--	100	90	--
3143CB	--	108	113	--
3179RR	--	98	90	--
MATURITY CHECK				
FULL - M798	105	105	96	102
MID-NC+4823B	98	100	106	101
SHORT - G8590	86	94	83	88
AVERAGES (bu/a)	206	161	182	183
CV (%)	7	9	9	--
LSD (0.05)	10	12	13	--

* TOP = Topeka, Shawnee Co. OTT = Ottawa, Franklin Co. ERI = Erie, Neosho Co.

Figure 6. EAST Kansas corn hybrid standardized performance summary, 2000-2004.



Values within 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; Larry Maddux, agronomist; Jim Kimball, technician

Woodson silt loam; Soybean in 2003

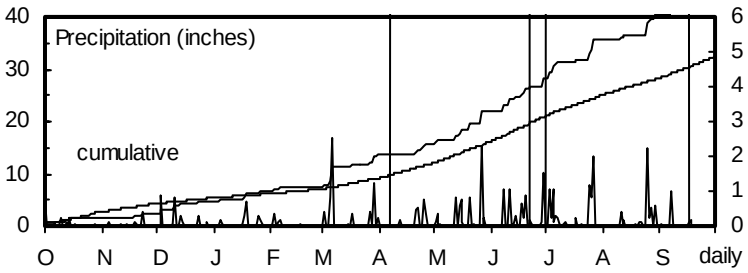
111 - 35 - 0 lb/a N, P, K

Planted on 4/6/2004; Harvested on 9/14/2004

Target stand of 22,000 plants/acre; 9.5 in. spacing

Strip tilled and fertilized in the fall; no spring tillage.
Above-normal rainfall May through August.

	Precipitation		Average Temp.		GDU	
Month	2004	Norm.	2004	Norm.	2004	Norm.
Oct.-Mar.	13.5	9.3	43	41	190	93
April	2.3	2.9	57	56	321	277
May	6.2	4.3	68	65	576	480
June	6.3	4.8	72	74	658	713
July	7.4	4.1	76	80	770	830
August	4.5	3.2	73	79	689	807
Sept.	1.3	4.3	70	71	631	630
Totals:	41.6	32.8	56	56	3,834	3,830



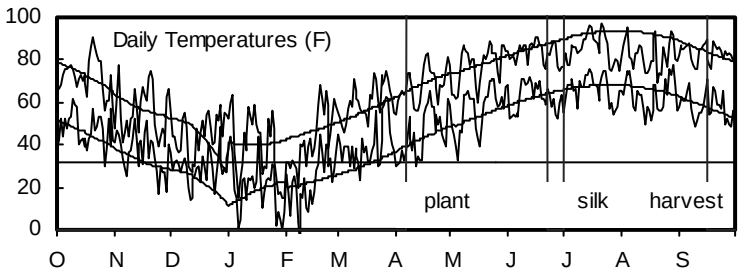


Table 15. Ottawa Short-Season Corn Performance Test, 2003-2004.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
CROPLAN GEN.	364Bt	C	**172**	--	--	108	--	--	--	76	13	--	--	57	89
DEKALB	DKC47-10R/YGB	P250	154	--	--	96	--	--	--	76	13	--	--	58	82
GARST	8888		150	--	--	94	--	--	--	76	13	--	--	57	89
PIONEER	35P15	C	156	--	--	97	--	--	--	76	15	--	--	58	94
CROPLAN GEN.	441Bt	C	162	--	--	102	--	--	--	77	13	--	--	57	93
DEKALB	DKC50-20R/YGB	P250	156	--	--	98	--	--	--	77	13	--	--	58	86
DYNA-GRO	55F16	P250	158	--	--	99	--	--	--	78	13	--	--	57	99
DYNA-GRO	55P98	P250	134	--	--	84	--	--	--	78	14	--	--	57	89
TRIUMPH	5433CBRR		149	--	--	93	--	--	--	78	14	--	--	58	88
WARNER	W4201BR	P250	**171**	--	--	107	--	--	--	78	14	--	--	57	93
STINE	9620YGCB	P250	163	--	--	102	--	--	--	78	15	--	--	56	88
PIONEER	34H32	C	150	--	--	94	--	--	--	78	16	--	--	60	99
STINE	9619YGCB	P250	**173**	--	--	108	--	--	--	78	16	--	--	57	91
STINE	9720YGCB	P250	**167**	--	--	104	--	--	--	78	16	--	--	57	95
CROPLAN GEN.	501Bt	C	162	--	--	101	--	--	--	79	13	--	--	56	99
DEKALB	DKC54-51YGCB	P250	**165**	--	--	103	--	--	--	79	13	--	--	58	96
DYNA-GRO	55F21	P250	153	--	--	95	--	--	--	79	13	--	--	57	87
MATURITY CHECK	MID-NC+4823B	P250	158	--	--	99	--	--	--	79	16	--	--	56	98
GARST	8566YG1		156	--	--	98	--	--	--	80	15	--	--	56	103
PIONEER	34M93	P250	152	--	--	95	--	--	--	80	15	--	--	58	105
ACCESS	AEXP5417YGCB	P250	**178**	--	--	111	--	--	--	80	17	--	--	58	101
MATURITY CHECK	SHORT - G8590		154	30	92	96	87	79	13	81	14	--	--	57	98
KRUGER	K-9111YGCB	P250	163	--	--	102	--	--	--	82	13	--	--	57	103
ACCESS	AEXP8414Hx	P250	**181**	--	--	113	--	--	--	82	16	--	--	56	106
ST CHK	M798 P250	P250	162	--	--	101	--	--	--	82	18	--	--	58	108
MATURITY CHECK	FULL - M798		156	20	88	97	59	82	16	84	17	--	--	58	107
ST CHK	M798 Cruiser	C	162	--	--	101	--	--	--	84	17	--	--	58	109
	AVERAGES		160	34	97	160	34	78	13	79	15	--	--	57	96
	CV (%)		8	12	--	8	12	--	--	1	3	--	--	1	4
	LSD (0.05)**		17	6	--	11	17	--	--	2	1	--	--	1	5

* C=Cruiser, P250 or P1250=Poncho at 250 or 1250 rates. All entries had fungicide seed treatments.

** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other. Current-year yields in bold are in the top LSD group.

SOUTHEAST KANSAS DRYLAND SHORT-SEASON CORN TEST

Southeast Agricultural Research Center, Parsons; James Long, agronomist; Kelly Kusel, research technician

Parsons silt loam; Soybean in 2003

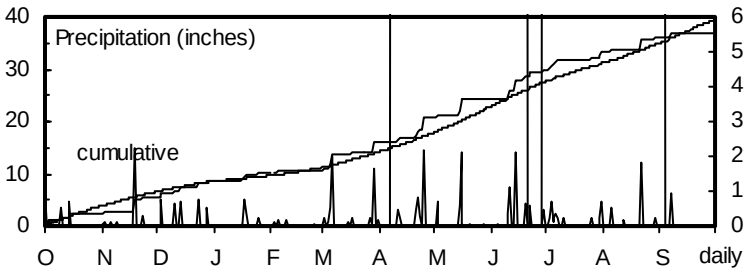
140 - 70 - 70 lb/a N, P, K

Planted on 4/6/2004; Harvested on 9/1/2004

Target stand of 22,000 plants/acre; 9.5 in. spacing

Very favorable conditions; soil moisture was never limiting.

	Precipitation		Average Temp.		GDU	
Month	2004	Norm.	2004	Norm.	2004	Norm.
Oct.-Mar.	16.1	14.1	43	43	175	123
April	4.5	3.7	55	57	274	284
May	3.7	5.0	68	65	591	479
June	5.5	4.8	72	74	654	711
July	3.3	3.6	76	80	755	833
August	2.8	3.8	73	79	695	817
Sept.	0.9	4.7	71	71	632	649
Totals:	36.9	39.6	56	57	3,774	3,894



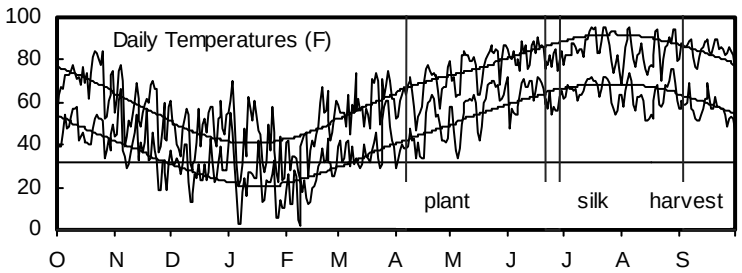


Table 16. Parsons Short-Season Corn Test, 2003-2004.

			YIELD					2003-2004		2004					
		Seed	bushels/acre			% of test average		Days	Grain	Days	Grain	Final		Test	
BRAND	NAME	treat-ment*	2004	2003	2-Yr. AVG.	2004	2003	to Silk	Moist. %	to Silk	Moist. %	Stand %	Ldg %	Wt. lb/bu	Ht. in.
DEKALB	DKC50-20R/YGB	P250	173	--	--	99	--	--	--	74	13	97	1	58	94
CROPLAN GEN.	364Bt	C	152	--	--	87	--	--	--	74	14	91	5	57	98
DEKALB	DKC47-10R/YGB	P250	149	--	--	86	--	--	--	74	14	96	9	58	94
GARST	8888		143	--	--	82	--	--	--	74	14	91	4	57	93
PIONEER	35P15	C	167	--	--	96	--	--	--	74	16	92	1	57	101
CROPLAN GEN.	441Bt	C	153	--	--	88	--	--	--	75	17	92	2	55	100
MYCOGEN	2K541	C	167	--	--	96	--	--	--	76	14	96	0	56	107
CROPLAN GEN.	501Bt	C	174	--	--	100	--	--	--	76	15	102	1	56	105
MYCOGEN	2G626	C	174	74	124	100	111	82	13	76	15	94	1	57	99
WARNER	W4201BR	P250	178	--	--	102	--	--	--	76	16	98	0	57	103
DEKALB	DKC54-51YGCB	P250	189	--	--	109	--	--	--	77	14	98	0	58	108
DYNA-GRO	55F16	P250	175	--	--	101	--	--	--	77	15	92	1	56	108
PIONEER	34H32	C	190	--	--	109	--	--	--	77	15	96	0	59	108
DYNA-GRO	55P98	P250	169	--	--	97	--	--	--	77	16	100	0	55	109
NK	N58-D1		175	92	134	101	136	82	15	77	16	94	0	57	105
MATURITY CHECK	MID-NC+4823B	P250	**212**	--	--	122	--	--	--	77	17	95	1	56	111
MYCOGEN	2E705	C	**213**	--	--	123	--	--	--	77	17	94	0	55	110
DYNA-GRO	55F21	P250	164	--	--	94	--	--	--	78	16	97	0	56	107
GARST	8791		159	--	--	91	--	--	--	78	16	95	0	57	103
NK	N65-M7		**205**	76	140	118	112	84	15	78	16	95	2	56	110
NC+	3601	P250	155	--	--	89	--	--	--	78	17	90	0	54	100
GARST	8545		176	73	124	101	108	84	15	79	16	88	0	56	107
PIONEER	34M93	P250	170	--	--	98	--	--	--	79	16	97	0	57	113
MATURITY CHECK	SHORT - G8590		172	57	114	99	85	84	15	80	16	96	2	56	106
MYCOGEN	2G768	C	194	--	--	112	--	--	--	80	18	97	0	54	115
MATURITY CHECK	FULL - M798		186	38	112	107	56	89	20	82	19	97	1	55	116
	AVERAGES		174	67	121	174	67	83	15	77	16	95	1	56	105
	CV (%)		5	9	--	5	9	--	--	2	2	4	200	1	4
	LSD (0.05)**		12	9	--	7	13	--	--	2	--	6	3	1	6

* C=Cruiser, P250 or P1250=Poncho at 250 or 1250 rates. All entries had fungicide seed treatments.

** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other. Current-year yields in bold are in the top LSD group.

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

Smolan silt loam; Wheat in 2003

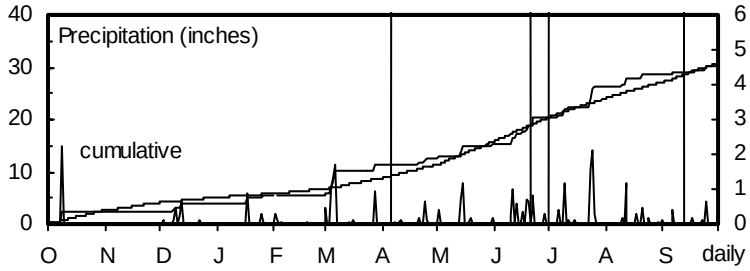
153 - 37 - 0 lb/a N, P, K

Planted on 4/5/2004; Harvested on 9/10/2004

Target stand of 18,000 plants/acre; 11.6 in. spacing

Above-normal rainfall in June and July and relatively cool temperatures in June, July, and August. Excellent harvest conditions.

	Precipitation		Average Temp.		GDU	
Month	2004	Norm.	2004	Norm.	2004	Norm.
Oct.-Mar.	11.6	8.4	41	41	159	91
April	1.2	2.7	55	56	264	271
May	2.8	4.2	68	65	563	477
June	5.3	4.8	72	75	642	724
July	5.8	3.8	75	81	724	840
August	2.4	3.1	74	80	692	819
Sept.	1.3	3.7	72	71	661	648
Totals:	30.4	30.7	55	56	3,704	3,870



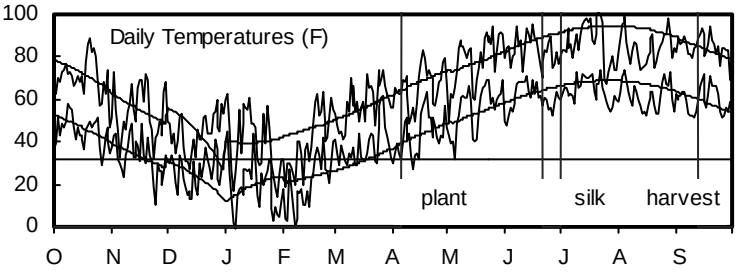


Table 17. Hesston Minimum-Till, Dryland Corn Test, 2003-2004.

			YIELD					2003-2004		2004					
		Seed	bushels/acre			% of test average		Days	Grain	Days	Grain	Final		Test	
BRAND	NAME	treat-ment*	2004	2003	2-Yr. AVG.	2004	2003	to Silk	Moist. %	to Silk	Moist. %	Stand %	Ldg %	Wt. lb/bu	Ht. in.
DEKALB	DKC50-20R/YGB	P250	131	--	--	86	--	--	--	75	11	100	1	58	82
CROPLAN GEN.	364Bt	C	127	--	--	84	--	--	--	75	12	100	0	56	84
CROPLAN GEN.	441Bt	C	140	--	--	92	--	--	--	76	13	100	0	58	88
PIONEER	35P15	C	144	18	81	95	129	76	12	76	13	100	0	59	88
DEKALB	DKC52-47R/YGB	P250	142	--	--	94	--	--	--	77	12	100	0	57	82
DYNA-GRO	55F16	P250	135	--	--	89	--	--	--	77	12	100	0	56	92
AGSOURCE	4556 CBRR	C	129	--	--	85	--	--	--	78	12	100	0	56	89
CROPLAN GEN.	501Bt	C	133	--	--	88	--	--	--	78	12	100	0	56	90
DYNA-GRO	55P98	P250	135	--	--	88	--	--	--	78	12	100	1	58	84
NK	N58-D1		150	14	82	99	103	77	11	78	12	100	0	59	92
PIONEER	34H32	C	145	--	--	95	--	--	--	78	13	100	0	60	95
TRIUMPH	5433CBRR		131	--	--	86	--	--	--	79	12	100	0	58	84
WARNER	W4201BR	P250	137	--	--	90	--	--	--	79	12	100	0	57	91
AGSOURCE	5883 CB	P250	164	--	--	108	--	--	--	79	13	100	0	58	96
AGSOURCE	6163 CB	C	170	--	--	112	--	--	--	79	13	100	0	57	100
MATURITY CHECK	MID-NC+4823B	P250	174	--	--	114	--	--	--	79	13	100	0	57	98
GARST	8328Bt/IT		136	27	81	89	194	77	12	79	14	100	0	57	87
NK	N70-T9		170	16	93	111	116	79	13	79	15	100	0	56	93
DYNA-GRO	55F21	P250	130	--	--	85	--	--	--	80	12	100	0	58	88
AGSOURCE	5683 CB	C	154	--	--	101	--	--	--	80	13	100	0	58	92
AGSOURCE	6233 CB	C	159	--	--	104	--	--	--	80	13	100	0	60	97
MATURITY CHECK	SHORT - G8590		144	12	78	95	89	79	12	81	13	100	0	57	96
PIONEER	34M93	P250	156	--	--	103	--	--	--	81	13	100	0	59	105

(continued)

Table 17. Hesston Minimum-Till, Dryland Corn Test, 2003-2004 - continued.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
AGSOURCE	6273 CB	P250	157	--	--	103	--	--	--	81	14	100	0	58	99
MIDLAND	7A14YGCB	P250	160	1	81	105	8	81	13	82	14	100	0	58	103
MIDLAND	7A15Bt		166	--	--	109	--	--	--	82	14	95	0	57	100
GARST	8225YG1/RR		178	--	--	117	--	--	--	82	15	100	0	56	102
MIDLAND	7A28Bt		**180**	--	--	118	--	--	--	83	15	100	0	55	108
MIDLAND	7A28RRBt		**190**	--	--	125	--	--	--	83	15	100	0	55	107
MATURITY CHECK	FULL - M798		177	8	93	116	56	83	14	85	15	99	0	58	110
ST CHK	M798 P250	P250	175	--	--	115	--	--	--	85	15	100	0	58	111
	AVERAGES		152	14	83	152	14	79	12	79	13	100	0	57	95
	CV (%)		6	32	--	6	32	--	--	1	4	1	361	1	3
	LSD (0.05)**		12	6	--	8	44	--	--	1	1	2	1	1	4

* C=Cruiser, P250 or P1250=Poncho at 250 or 1250 rates. All entries had fungicide seed treatments.

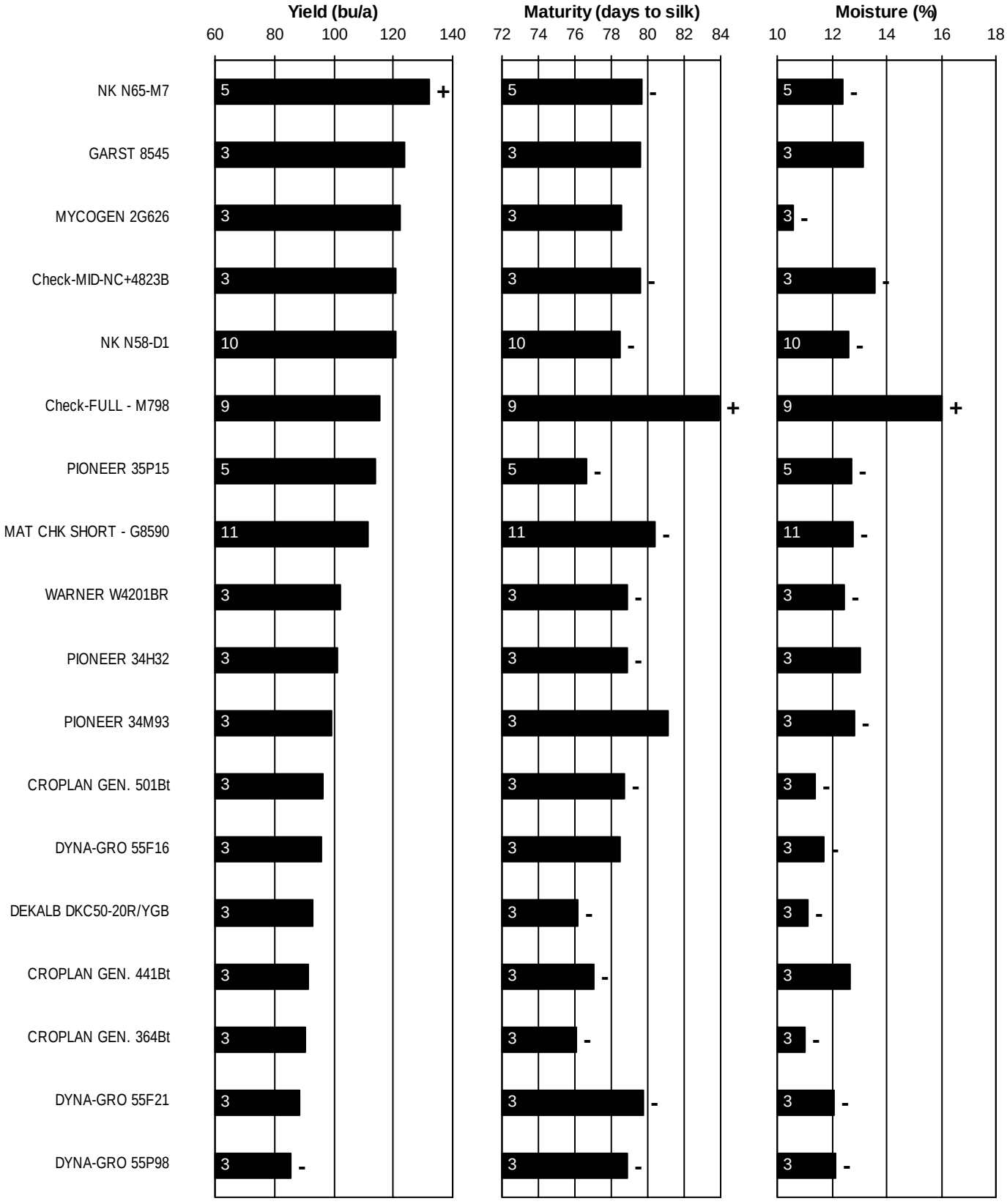
** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other. Current-year yields in bold are in the top LSD group.

Table 18. SHORT-SEASON Kansas corn hybrid yield summary (% of test average), 2004.

BRAND/NAME	OTT*	PAR	HES	AVG.
ACCESS				
AEXP5417YGCB	111	--	--	--
AEXP8414Hx	113	--	--	--
AGSOURCE				
4556 CBRR	--	--	85	--
5683 CB	--	--	101	--
5883 CB	--	--	108	--
6163 CB	--	--	112	--
6233 CB	--	--	104	--
6273 CB	--	--	103	--
CROPLAN GEN.				
364Bt	108	87	84	93
441Bt	102	88	92	94
501Bt	101	100	88	96
DEKALB				
DKC47-10R/YGB	96	86	--	--
DKC50-20R/YGB	98	99	86	94
DKC52-47R/YGB	--	--	94	--
DKC54-51YGCB	103	109	--	--
DYNA-GRO				
55F16	99	101	89	96
55F21	95	94	85	92
55P98	84	97	88	90
GARST				
8225YG1/RR	--	--	117	--
8328Bt/IT	--	--	89	--
8545	--	101	--	--
8566YG1	98	--	--	--
8791	--	91	--	--
8888	94	82	--	--
KRUGER				
K-9111YGCB	102	--	--	--
MIDLAND				
7A14YGCB	--	--	105	--
7A15Bt	--	--	109	--
7A28Bt	--	--	118	--
7A28RRBt	--	--	125	--
MYCOGEN				
2E705	--	123	--	--
2G626	--	100	--	--
2G768	--	112	--	--
2K541	--	96	--	--
NC+				
3601	--	89	--	--
NK				
N58-D1	--	101	99	--
N65-M7	--	118	--	--
N70-T9	--	--	111	--
PIONEER				
34H32	94	109	95	99
34M93	95	98	103	99
35P15	97	96	95	96
ST CHK				
M798 Cruiser	101	--	--	--
M798 P250	101	--	115	--
STINE				
9619YGCB	108	--	--	--
9620YGCB	102	--	--	--
9720YGCB	104	--	--	--
TRIUMPH				
5433CBRR	93	--	86	--
WARNER				
W4201BR	107	102	90	100
MATURITY CHECK				
FULL - M798	97	107	116	107
MID-NC+4823B	99	122	114	112
SHORT - G8590	96	99	95	97
AVERAGES (bu/a)	160	174	152	162
CV (%)	8	5	6	--
LSD (0.05)	11	7	8	--

* OTT = Ottawa, Franklin Co. PAR = Parsons, Labette Co. HES = Hesston, Harvey Co.

Figure 7. Kansas SHORT-SEASON corn hybrid standardized performance summary, 2000-2004.



Values within bars indicate the number of comparisons with checks. Symbols (+,-) indicate if statistically higher or lower than mean of checks.

SOUTH-CENTRAL KANSAS IRRIGATED CORN TEST ON SILT LOAM SOIL

Private farm near Inman; Kraig Roozeboom, agronomist; Norman Schmidt, cooperator

Crete silt loam; Soybean in 2003

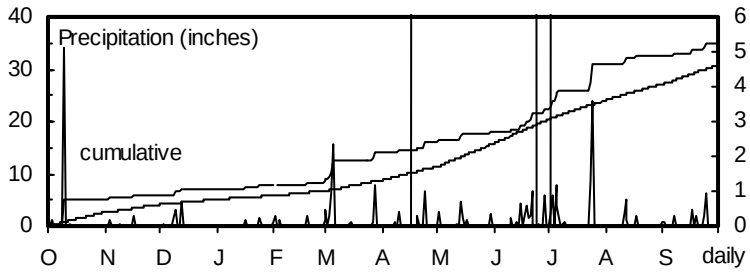
165 - 30 - 0 lb/a N, P, K

Planted on 4/16/2004; Harvested on 9/29/2004

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

Excellent growing conditions resulted in excellent yields. Test located on field with sub-surface drip irrigation.

	Precipitation		Average Temp.		GDU	
Month	2004	Norm.	2004	Norm.	2004	Norm.
Oct.-Mar.	14.3	8.4	40	41	185	91
April	2.1	2.7	54	56	278	271
May	2.0	4.2	66	65	531	477
June	4.4	4.8	72	75	642	724
July	8.4	3.8	76	81	729	840
August	1.7	3.1	73	80	678	819
Sept.	2.5	3.7	72	71	654	648
Totals:	35.4	30.7	55	56	3,696	3,870



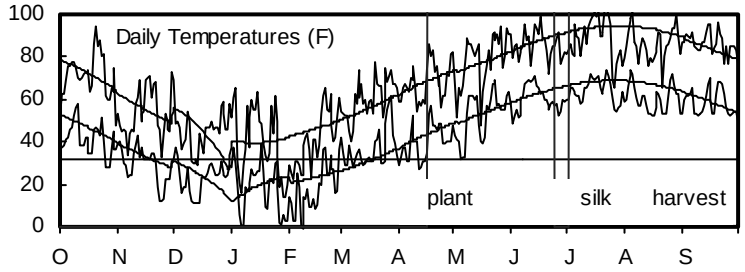


Table 19. Inman Irrigated Corn Performance Test, 2003-2004.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
DEKALB	DKC60-19R/YGB	P250	230	221	225	95	99	74	15	68	13	93	--	58	100
ASGROW	RX752RR/YG	P250	232	--	--	96	--	--	--	69	14	98	--	59	99
AGSOURCE	5883 CB	P250	243	--	--	100	--	--	--	70	13	94	--	59	108
CROPLAN GEN.	693Bt/CL	C	235	--	--	97	--	--	--	70	13	97	--	57	113
CROPLAN GEN.	699Bt/CL	C	231	--	--	95	--	--	--	70	13	89	--	57	105
MATURITY CHECK	MID-NC+4823B	P250	244	--	--	101	--	--	--	70	13	93	--	58	104
NK	N70-F1		220	228	224	91	101	75	15	70	13	93	--	57	99
NK	N70-T9		224	--	--	93	--	--	--	70	14	91	--	58	105
AGSOURCE	6163 CB	C	242	--	--	100	--	--	--	71	13	94	--	59	109
AGSOURCE	6883 CB	C	238	--	--	98	--	--	--	71	13	83	--	58	109
ASGROW	RX702YG	P250	248	--	--	102	--	--	--	71	13	95	--	60	108
FONTANELLE	HC-7951YGCB	P250	**269**	--	--	111	--	--	--	71	13	89	--	57	110
GARST	8376YG1		228	--	--	94	--	--	--	71	13	88	--	57	107
MIDLAND	7A14YGCB	P250	248	227	238	102	101	77	15	71	13	100	--	58	114
MIDLAND	7A15Bt		233	--	--	96	--	--	--	71	13	86	--	59	109
MYCOGEN	2T801	C	252	--	--	104	--	--	--	71	13	99	--	57	109
WARNER	4602B	P250	**260**	--	--	107	--	--	--	71	13	88	--	58	107
AGSOURCE	6273 CB	P250	249	--	--	103	--	--	--	71	14	104	--	58	109
DYNA-GRO	57P93	P250	237	--	--	98	--	--	--	71	14	92	--	58	108
PIONEER	33B51	P250	240	--	--	99	--	--	--	71	14	99	--	61	106
MATURITY CHECK	SHORT - G8590		214	205	209	89	91	77	15	72	13	88	--	59	108
MIDLAND	7A28Bt		**259**	230	244	107	102	78	16	72	13	89	--	57	113
MYCOGEN	2A812	C	222	226	224	91	101	78	15	72	13	88	--	57	112

(continued)

Table 19. Inman Irrigated Corn Performance Test, 2003-2004 - continued.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
MYCOGEN	2T780	C	**272**	--	--	112	--	--	--	72	14	101	--	58	111
NK	N76-H2		235	--	--	97	--	--	--	72	14	97	--	57	106
CROPLAN GEN.	799Bt	C	214	--	--	88	--	--	--	72	15	92	--	59	110
GARST	8292YG1		221	--	--	91	--	--	--	72	15	79	--	60	110
GARST	8383YG1		253	221	237	104	98	77	15	73	13	93	--	59	108
MIDLAND	7A28RRBt		**259**	--	--	107	--	--	--	73	14	88	--	58	114
CROPLAN GEN.	818RRBT	C	245	238	242	101	106	78	18	73	15	94	--	58	109
FRONTIER	F3250		242	--	--	100	--	--	--	73	15	92	--	59	112
AGSOURCE	7783 CB	C	**265**	--	--	109	--	--	--	74	13	91	--	56	110
MATURITY CHECK	FULL - M798		242	212	227	100	95	79	17	74	14	92	--	60	113
PIONEER	33R78	C	**268**	--	--	111	--	--	--	74	14	89	--	58	116
TRIUMPH	1866Bt	P1250	**257**	217	237	106	97	79	16	74	14	93	--	60	113
FRONTIER	F3175		248	--	--	102	--	--	--	74	15	97	--	59	115
PIONEER	31N28	P250	**265**	--	--	109	--	--	--	75	15	100	--	61	106
ST CHK	M798 Cruiser	C	245	--	--	101	--	--	--	75	15	90	--	60	116
ST CHK	M798 P250	P250	234	--	--	97	--	--	--	75	15	90	--	60	109
	AVERAGES		242	224	233	242	224	77	16	72	14	93	--	58	109
	CV (%)		6	6	--	6	6	--	--	1	2	7	--	2	3
	LSD (0.05)**		19	19	--	8	8	--	--	1	--	9	--	2	5

* C=Cruiser, P250 or P1250=Poncho at 250 or 1250 rates. All entries had fungicide seed treatments.

** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other. Current-year yields in bold are in the top LSD group.

SOUTH-CENTRAL KANSAS IRRIGATED CORN TEST ON SANDY LOAM SOIL

Private farm near Hutchinson; Evans Seed Farm; Bill Heer, agronomist; John Evans, cooperator

Punkin silt loam; Soybean in 2003

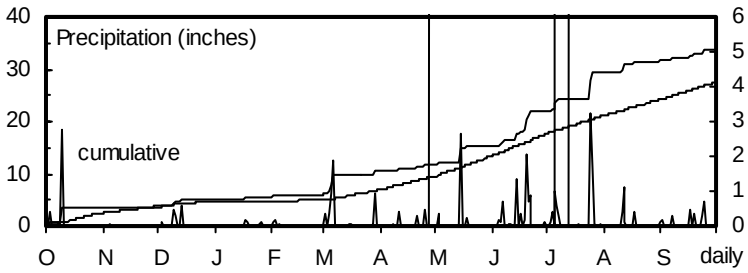
200 - 30 - 0 lb/a N, P, K

Planted on 4/27/2004; Harvested on 9/29/2004

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

Spring rains delayed planting and caused some stress during early vegetative growth. Favorable conditions during pollination and grain fill.

	Precipitation		Average Temp.		GDU	
Month	2004	Norm.	2004	Norm.	2004	Norm.
Oct.-Mar.	10.7	6.6	41	40	180	100
April	1.3	2.7	54	55	258	270
May	3.3	4.0	67	65	543	457
June	6.8	4.2	72	75	644	711
July	7.4	3.5	76	81	737	832
August	2.2	3.1	72	79	660	805
Sept.	2.3	3.4	72	70	645	625
Totals:	33.8	27.4	55	56	3,665	3,801



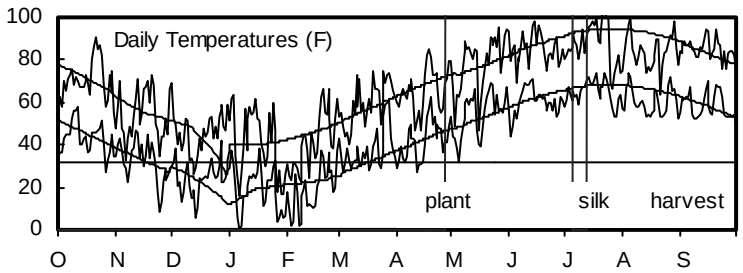


Table 20. Hutchinson Irrigated Corn Performance Test, 2003-2004.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
DEKALB	DKC63-52R/YGB	P250	236	--	--	100	--	--	--	68	16	107	--	58	96
CROPLAN GEN.	693Bt/CL	C	218	--	--	92	--	--	--	69	15	98	--	57	97
MATURITY CHECK	MID-NC+4823B	P250	239	--	--	101	--	--	--	69	16	100	--	58	94
MATURITY CHECK	SHORT - G8590		202	192	197	85	90	74	16	69	16	93	--	59	93
DYNA-GRO	57P93	P250	242	--	--	102	--	--	--	69	17	95	--	58	97
GARST	8376YG1		244	--	--	103	--	--	--	69	17	99	--	58	95
NK	N70-T9		231	--	--	97	--	--	--	69	17	101	--	58	96
ASGROW	RX752RR/YG	P250	240	--	--	101	--	--	--	70	16	107	--	59	92
MIDLAND	7A15Bt		238	--	--	100	--	--	--	70	16	91	--	59	97
MIDLAND	7A28RRBt		226	--	--	95	--	--	--	70	16	96	--	57	101
MYCOGEN	2A812	C	221	204	212	93	95	75	17	70	16	96	--	57	98
TRIUMPH	1536CBRR		239	--	--	101	--	--	--	70	16	103	--	59	97
CROPLAN GEN.	699Bt/CL	C	229	--	--	97	--	--	--	70	17	98	--	58	97
FONTANELLE	HC-7951YGCB	P250	**256**	--	--	108	--	--	--	70	17	101	--	58	98
GARST	8383YG1		230	--	--	97	--	--	--	70	17	94	--	59	94
MIDLAND	7A28Bt		**250**	230	240	105	107	76	18	70	17	99	--	57	94
MYCOGEN	2T801	C	**263**	--	--	111	--	--	--	70	17	100	--	58	100
NK	N70-F1		228	222	225	96	103	75	17	70	17	103	--	59	86
PIONEER	33B51	P250	242	--	--	102	--	--	--	70	17	107	--	60	92
GARST	8292YG1		240	--	--	101	--	--	--	70	18	101	--	59	101
CROPLAN GEN.	818RRBT	C	240	241	241	101	112	76	19	70	19	101	--	58	90
MIDLAND	7A14YGCB	P250	244	218	231	103	102	74	17	71	16	102	--	59	99
WARNER	4602B	P250	**249**	--	--	105	--	--	--	71	17	95	--	59	97

(continued)

Table 20. Hutchinson Irrigated Corn Performance Test, 2003-2004 - continued.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
CROPLAN GEN.	799Bt	C	232	--	--	98	--	--	--	71	18	103	--	60	102
FRONTIER	F3175		244	--	--	103	--	--	--	71	18	103	--	60	99
FRONTIER	F3250		230	--	--	97	--	--	--	71	18	98	--	60	98
NK	N76-H2		217	--	--	92	--	--	--	71	18	106	--	57	92
PIONEER	31N28	P250	**247**	--	--	104	--	--	--	72	17	99	--	61	92
ST CHK	M798 Cruiser	C	231	--	--	97	--	--	--	72	18	94	--	60	100
PIONEER	33R78	C	**259**	--	--	109	--	--	--	73	17	100	--	59	99
MATURITY CHECK	FULL - M798		241	208	225	102	97	77	18	73	18	102	--	61	102
ST CHK	M798 P250	P250	225	--	--	95	--	--	--	75	18	97	--	60	101
	AVERAGES		237	215	226	237	215	75	17	70	17	100	--	59	97
	CV (%)		5	6	--	5	6	--	--	2	3	5	--	1	4
	LSD (0.05)**		18	20	--	8	9	--	--	2	1	7	--	1	6

* C=Cruiser, P250 or P1250=Poncho at 250 or 1250 rates. All entries had fungicide seed treatments.

** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other. Current-year yields in bold are in the top LSD group.

SOUTH-CENTRAL KANSAS IRRIGATED CORN TEST ON SANDY LOAM SOIL

Private farm near St. John; Russell & Son Farms; Victor Martin, agronomist; Rick Russell, cooperator

Naron loamy fine sand; Corn in 2003

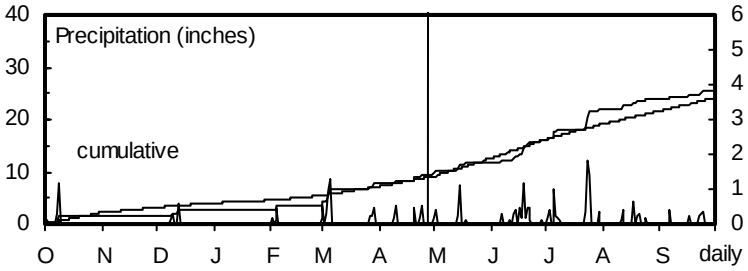
225 - 0 - 0 lb/a N, P, K

Planted on 4/27/2004; Harvested on 11/8/2004

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

Acceptable stands and good early growth. Little extreme heat stress.

	Precipitation		Average Temp.		GDU	
Month	2004	Norm.	2004	Norm.	2004	Norm.
Oct.-Mar.	7.7	7.2	42	42	199	126
April	2.1	2.0	56	56	283	302
May	1.9	3.4	69	66	575	497
June	4.3	3.7	73	76	640	725
July	6.1	2.9	77	79	752	824
August	1.8	2.5	74	78	707	764
Sept.	1.5	2.6	73	69	665	582
Totals:	25.4	24.2	56	56	3,819	3,821



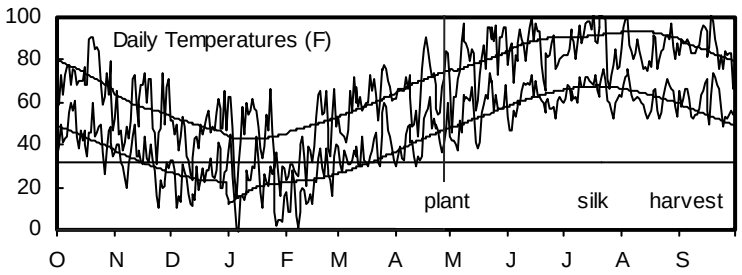


Table 21. St. John Irrigated Corn Performance Test, 2003-2004.

			YIELD					2003-2004		2004					
		Seed	bushels/acre			% of test average		Days	Grain	Days	Grain	Final		Test	
BRAND	NAME	treat-ment*	2004	2003	2-Yr. AVG.	2004	2003	to Silk	Moist. %	to Silk	Moist. %	Stand %	Ldg %	Wt. lb/bu	Ht. in.
CROPLAN GEN.	693Bt/CL	C	**234**	--	--	106	--	--	--	--	14	--	--	58	--
CROPLAN GEN.	699Bt/CL	C	199	--	--	90	--	--	--	--	14	--	--	58	--
DYNA-GRO	58P59	P250	219	--	--	99	--	--	--	--	14	--	--	57	--
FONTANELLE	7798YGCB/RR	P250	207	--	--	93	--	--	--	--	14	--	--	58	--
FONTANELLE	HC-7931YGCB	P250	220	--	--	99	--	--	--	--	14	--	--	58	--
MATURITY CHECK	MID-NC+4823B	P250	213	--	--	96	--	--	--	--	14	--	--	58	--
MYCOGEN	2A812	C	**233**	--	--	105	--	--	--	--	14	--	--	57	--
MYCOGEN	2E705	C	220	--	--	99	--	--	--	--	14	--	--	58	--
STINE	9619YGCB	P250	205	--	--	92	--	--	--	--	14	--	--	58	--
TRIUMPH	1416Bt	P1250	**233**	186	210	105	101	--	14	--	14	--	--	58	--
ASGROW	RX752RR/YG	P250	**242**	--	--	109	--	--	--	--	15	--	--	60	--
DEKALB	DKC63-52R/YGB	P250	**242**	--	--	109	--	--	--	--	15	--	--	58	--
DEKALB	DKC63-81R/YGB	P250	225	--	--	102	--	--	--	--	15	--	--	60	--
DYNA-GRO	57P93	P250	**234**	--	--	106	--	--	--	--	15	--	--	59	--
FONTANELLE	HC-7951YGCB	P250	228	193	210	103	105	--	15	--	15	--	--	59	--
GARST	8376YG1		220	--	--	99	--	--	--	--	15	--	--	58	--
GARST	8377YG1/RR		**244**	--	--	110	--	--	--	--	15	--	--	59	--
GARST	8383YG1		215	197	206	97	107	--	14	--	15	--	--	59	--
MATURITY CHECK	SHORT - G8590		187	173	180	84	94	--	14	--	15	--	--	59	--
MYCOGEN	2T801	C	**234**	--	--	106	--	--	--	--	15	--	--	59	--
NC+	5433RB	P250	**240**	194	217	108	105	--	15	--	15	--	--	59	--
NK	N70-T9		**229**	209	219	103	114	--	15	--	15	--	--	59	--
NK	N76-H2		212	--	--	96	--	--	--	--	15	--	--	59	--
PIONEER	33B51	P250	**236**	--	--	107	--	--	--	--	15	--	--	60	--

(continued)

Table 21. St. John Irrigated Corn Performance Test, 2003-2004 - continued.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
PIONEER	33R78	C	225	--	--	101	--	--	--	--	15	--	--	58	--
TRIUMPH	1120BtRR	P250	226	--	--	102	--	--	--	--	15	--	--	59	--
TRIUMPH	1536CBRR		**233**	--	--	105	--	--	--	--	15	--	--	59	--
WARNER	4602B	P250	**238**	--	--	107	--	--	--	--	15	--	--	58	--
CROPLAN GEN.	799Bt	C	218	--	--	98	--	--	--	--	16	--	--	60	--
CROPLAN GEN.	818RRBT	C	224	185	205	101	101	--	15	--	16	--	--	59	--
FONTANELLE	HC-7987YGCB	P250	**231**	184	207	104	100	--	15	--	16	--	--	59	--
FRONTIER	F3175		203	--	--	92	--	--	--	--	16	--	--	61	--
GARST	8292YG1		223	--	--	101	--	--	--	--	16	--	--	60	--
MATURITY CHECK	FULL - M798		200	179	190	90	97	--	15	--	16	--	--	60	--
NK	N70-F1		226	182	204	102	99	--	15	--	16	--	--	58	--
PIONEER	31N28	P250	224	--	--	101	--	--	--	--	16	--	--	61	--
ST CHK	M798 Cruiser	C	198	--	--	89	--	--	--	--	16	--	--	61	--
ST CHK	M798 P250	P250	197	--	--	89	--	--	--	--	16	--	--	60	--
FRONTIER	F3250		207	--	--	94	--	--	--	--	17	--	--	61	--
	AVERAGES		222	184	203	222	184	--	15	--	15	--	--	59	--
	CV (%)		5	10	--	5	10	--	--	--	2	--	--	1	--
	LSD (0.05)**		16	25	--	7	14	--	--	--	--	--	--	1	--

* C=Cruiser, P250 or P1250=Poncho at 250 or 1250 rates. All entries had fungicide seed treatments.

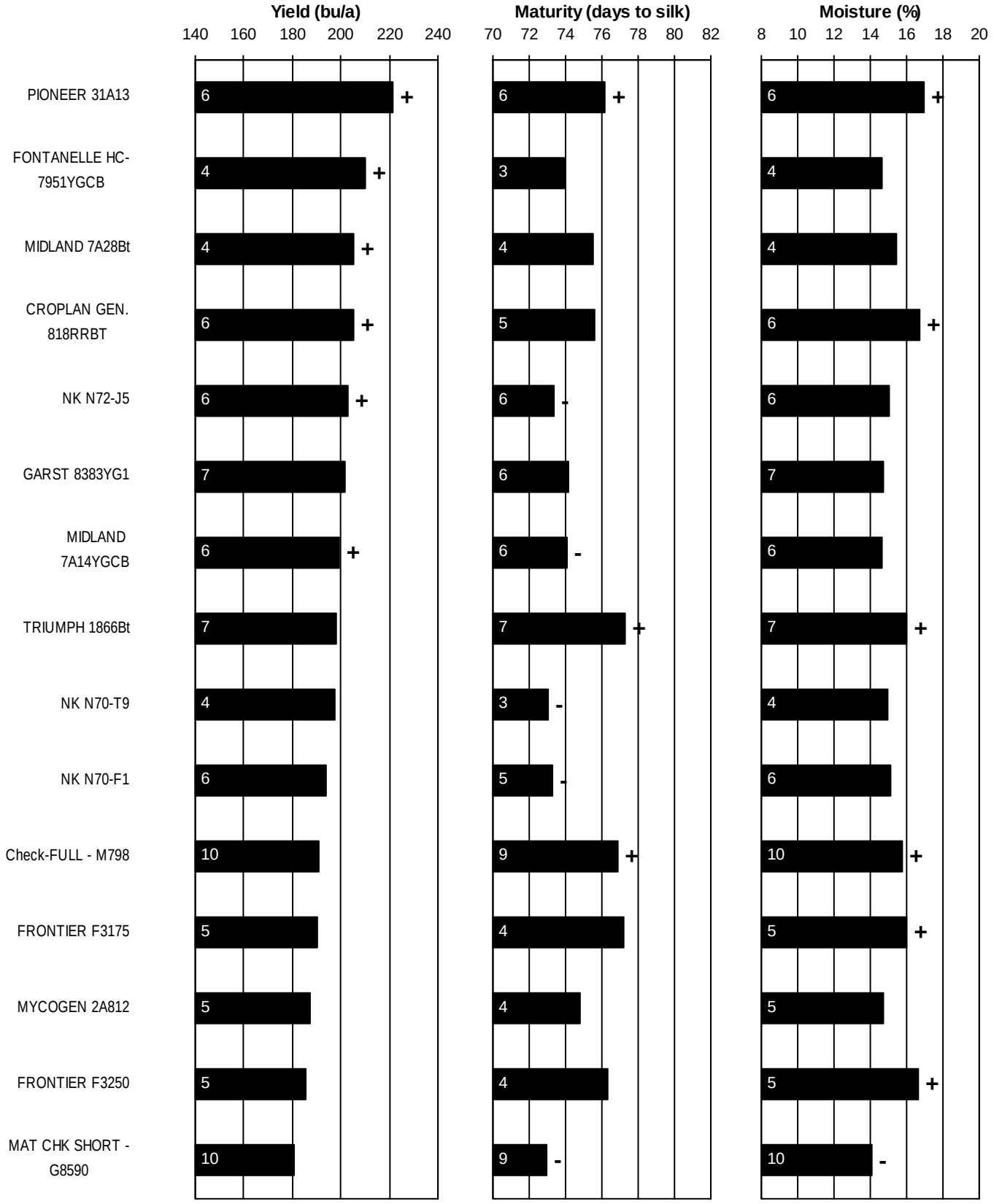
** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other. Current-year yields in bold are in the top LSD group.

Table 22. CENTRAL IRRIGATED corn hybrid yield summary (% of test average), 2004.

BRAND/NAME	INM*	HUT	STJ	AVG.
AGSOURCE				
5883 CB	100	--	--	--
6163 CB	100	--	--	--
6273 CB	103	--	--	--
6883 CB	98	--	--	--
7783 CB	109	--	--	--
ASGROW				
RX702YG	102	--	--	--
RX752RR/YG	96	101	109	102
CROPLAN GEN.				
693Bt/CL	97	92	106	98
699Bt/CL	95	97	90	94
799Bt	88	98	98	95
818RRBT	101	101	101	101
DEKALB				
DKC60-19R/YGB	95	--	--	--
DKC63-52R/YGB	--	100	109	--
DKC63-81R/YGB	--	--	102	--
DYNA-GRO				
57P93	98	102	106	102
58P59	--	--	99	--
FONTANELLE				
7798YGCB/RR	--	--	93	--
HC-7931YGCB	--	--	99	--
HC-7951YGCB	111	108	103	107
HC-7987YGCB	--	--	104	--
FRONTIER				
F3175	102	103	92	99
F3250	100	97	94	97
GARST				
8292YG1	91	101	101	98
8376YG1	94	103	99	99
8377YG1/RR	--	--	110	--
8383YG1	104	97	97	99
MIDLAND				
7A14YGCB	102	103	--	--
7A15Bt	96	100	--	--
7A28Bt	107	105	--	--
7A28RRBt	107	95	--	--
MYCOGEN				
2A812	91	93	105	97
2E705	--	--	99	--
2T780	112	--	--	--
2T801	104	111	106	107
NC+				
5433RB	--	--	108	--
NK				
N70-F1	91	96	102	96
N70-T9	93	97	103	98
N76-H2	97	92	96	95
PIONEER				
31N28	109	104	101	105
33B51	99	102	107	103
33R78	111	109	101	107
ST CHK				
M798 Cruiser	101	97	89	96
M798 P250	97	95	89	94
STINE				
9619YGCB	--	--	92	--
TRIUMPH				
1120BtRR	--	--	102	--
1416Bt	--	--	105	--
1536CBRR	--	101	105	--
1866Bt	106	--	--	--
WARNER				
4602B	107	105	107	107
MATURITY CHECK				
FULL - M798	100	102	90	97
MID-NC+4823B	101	101	96	99
SHORT - G8590	89	85	84	86
AVERAGES (bu/a)	242	237	222	234
CV (%)	6	5	5	--
LSD (0.05)	8	8	7	--

* INM = Inman, McPherson Co. HUT = Hutchinson, Reno Co. STJ = St. John, Stafford Co.

Figure 8. CENTRAL Kansas IRRIGATED corn hybrid standardized performance summary, 2000-2004.



Values within bars indicate the number of comparisons with checks. Symbols (+,-) indicate if statistically higher or lower than mean of checks.

NORTHWEST KANSAS NO-TILL, DRYLAND CORN TEST

Agricultural Research Center - Hays; Ken Kofoid, agronomist

Harney clay loam; Soybean in 2003

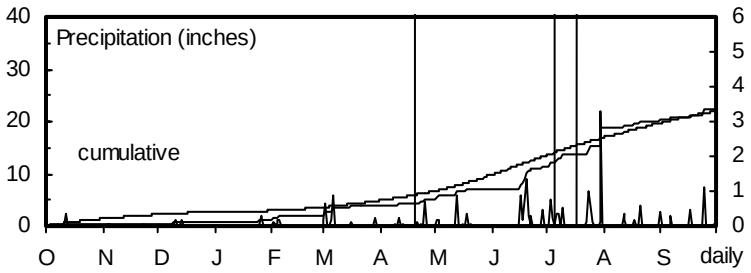
65 - 0 - 0 lb/a N, P, K

Planted on 4/19/2004; Harvested on 10/22/2004

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

Favorable precipitation in June and July and relatively cool temperatures in July and August.

	Precipitation		Average Temp.		GDU	
Month	2004	Norm.	2004	Norm.	2004	Norm.
Oct.-Mar.	4.0	4.9	39	36	208	40
April	1.3	1.8	54	50	278	205
May	1.8	3.1	66	61	519	381
June	4.3	3.8	72	71	606	635
July	7.5	3.4	75	78	710	783
August	1.8	2.8	74	76	689	760
Sept.	2.0	2.3	72	68	641	553
Totals:	22.5	22.0	54	52	3,651	3,356



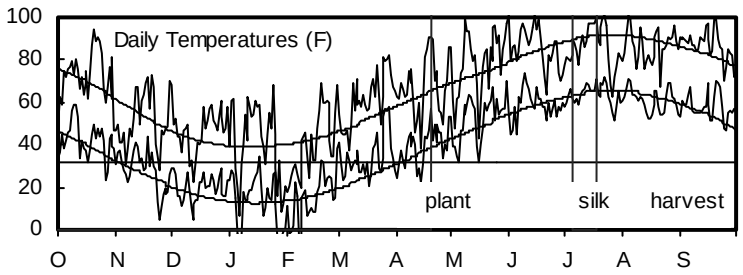


Table 23. Hays Dryland Corn Performance Test, 2003-2004.

			YIELD					2003-2004		2004					
		Seed	bushels/acre			% of test average		Days	Grain	Days	Grain	Final		Test	
BRAND	NAME	treat-ment*	2004	2003	2-Yr. AVG.	2004	2003	to Silk	Moist. %	to Silk	Moist. %	Stand %	Ldg %	Wt. lb/bu	Ht. in.
DEKALB	DKC50-20R/YGB	P250	**103**	--	--	112	--	--	--	76	14	100	0	55	81
DEKALB	DKC52-47R/YGB	P250	**93**	--	--	102	--	--	--	79	13	85	0	54	79
PIONEER	34H32	C	**104**	--	--	114	--	--	--	79	13	107	0	52	90
FONTANELLE	7R418	P250	84	--	--	92	--	--	--	81	14	72	1	57	80
PIONEER	33B55	C	**100**	--	--	109	--	--	--	81	17	95	0	56	88
PIONEER	34M93	P250	**90**	--	--	98	--	--	--	82	14	83	0	55	95
TRIUMPH	1120BtRR	P250	74	3	38	81	32	83	--	82	14	77	0	54	97
MATURITY CHECK	MID-NC+4823B	P250	**108**	--	--	118	--	--	--	82	15	104	0	55	92
MATURITY CHECK	SHORT - G8590		**90**	7	48	99	80	81	--	82	15	92	0	58	87
WARNER	4602B	P250	**106**	--	--	116	--	--	--	82	17	94	0	54	98
TRIUMPH	2011RR	P1250	65	--	--	71	--	--	--	84	16	83	0	59	102
ST CHK	M798 Cruiser	C	79	--	--	86	--	--	--	86	22	105	0	55	103
ST CHK	M798 P250	P250	**102**	--	--	112	--	--	--	87	17	113	1	54	103
MATURITY CHECK	FULL - M798		85	1	43	92	18	88	--	88	18	107	0	56	98
	AVERAGES		**92**	8	50	92	8	82	--	82	16	94	0	55	92
	CV (%)		12	47	--	12	47	--	--	1	5	17	449	4	4
	LSD (0.05)**		19	5	--	21	67	--	--	1	1	26	1	4	7

* C=Cruiser, P250 or P1250=Poncho at 250 or 1250 rates. All entries had fungicide seed treatments.

** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other. Current-year yields in bold are in the top LSD group.

NORTHWEST KANSAS NO-TILL, DRYLAND CORN TEST

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

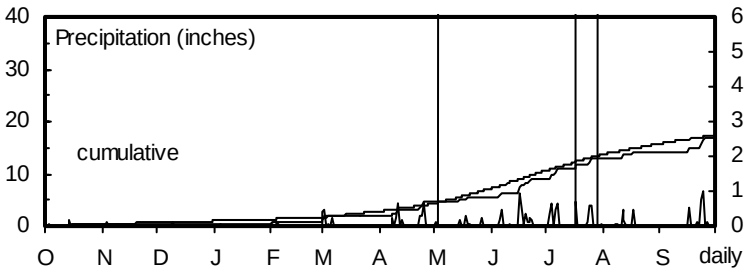
Keith silt loam; Wheat in 2003

150 - 20 - 0 lb/a N, P, K

Planted on 5/3/2004; Harvested on 9/29/2004

Target stand of 19,000 plants/acre; 11.0 in. spacing

Favorable conditions with above-normal precipitation in May, June, and July gave way to dry conditions in August and September. Little subsoil moisture was available to finish the season.



Month	Precipitation 2004	Precipitation Norm.	Average Temp. 2004	Average Temp. Norm.	GDU 2004	GDU Norm.
Oct.-Mar.	2.0	2.8	39	36	200	19
April	2.6	1.4	51	49	269	187
May	1.1	2.9	63	59	444	351
June	3.2	3.4	68	70	524	591
July	4.1	3.1	73	76	658	748
August	1.2	2.1	71	74	608	714
Sept.	2.6	1.7	68	66	546	495
Totals:	16.8	17.4	52	51	3,248	3,105

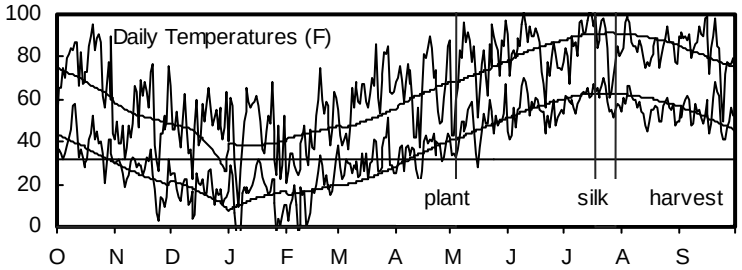


Table 24. Colby Dryland Corn Performance Test, 2001-2004.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2001	2-Yr. AVG.	% of test average 2004	2003	2001-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
DEKALB	DKC50-20R/YGB	P250	**86**	--	--	134	--	--	--	74	11	104	3	55	--
FONTANELLE	7R418	P250	**75**	--	--	117	--	--	--	75	16	92	1	53	--
DEKALB	DKC52-47R/YGB	P250	**82**	--	--	127	--	--	--	76	12	97	2	54	--
PIONEER	34H32	C	**80**	--	--	125	--	--	--	76	16	108	3	55	--
DYNA-GRO	57F29	P250	64	--	--	100	--	--	--	78	16	103	30	54	--
PIONEER	33B55	C	**81**	--	--	127	--	--	--	78	16	95	8	54	--
MATURITY CHECK	MID-NC+4823B	P250	56	--	--	87	--	--	--	78	17	95	5	54	--
MATURITY CHECK	SHORT - G8590		67	68	68	105	103	80	16	78	17	99	0	54	--
DYNA-GRO	57P69	P250	64	--	--	99	--	--	--	79	15	99	6	54	--
PIONEER	34M93	P250	**75**	--	--	117	--	--	--	79	16	99	5	53	--
WARNER	4602B	P250	57	--	--	89	--	--	--	79	20	103	0	53	--
DYNA-GRO	57F87	P250	59	--	--	92	--	--	--	82	19	115	20	51	--
TRIUMPH	1120BtRR	P250	47	55	51	73	82	83	19	82	24	85	0	50	--
ST CHK	M798 P250	P250	46	--	--	72	--	--	--	83	25	101	7	48	--
ST CHK	M798 Cruiser	C	46	--	--	72	--	--	--	85	25	92	16	49	--
MATURITY CHECK	FULL - M798		39	68	53	61	102	87	25	85	28	103	11	48	--
	AVERAGES		64	67	65	64	67	81	16	79	18	99	7	52	--
	CV (%)		16	13	--	16	13	--	--	2	14	9	109	2	--
	LSD (0.05)**		15	18	--	23	27	--	--	2	4	13	11	2	--

* C=Cruiser, P250 or P1250=Poncho at 250 or 1250 rates. All entries had fungicide seed treatments.

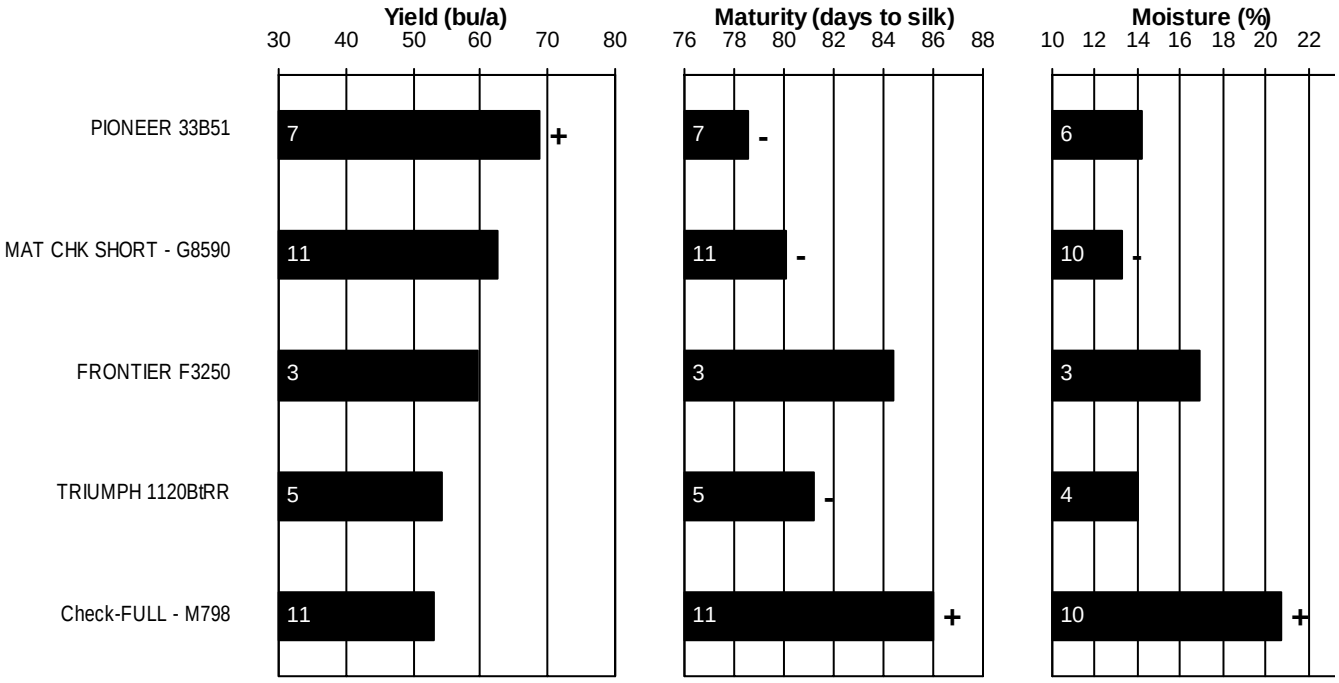
** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other. Current-year yields in bold are in the top LSD group.

Table 25. WEST Kansas DRYLAND corn hybrid yield summary (% of test average), 2004.

BRAND/NAME	HAY*	COL	TRIB	AVG.
DEKALB				
DKC50-20R/YGB	112	134	--	123
DKC52-47R/YGB	102	127	--	115
DYNA-GRO				
57F29	--	100	--	--
57F87	--	92	--	--
57P69	--	99	--	--
FONTANELLE				
7R418	92	117	--	105
PIONEER				
33B55	109	127	--	118
34H32	114	125	--	119
34M93	98	117	--	107
ST CHK				
M798 Cruiser	86	72	--	79
M798 P250	112	72	--	92
TRIUMPH				
1120BtRR	81	73	--	77
2011RR	71	--	--	--
WARNER				
4602B	116	89	--	102
MATURITY CHECK				
FULL - M798	92	61	--	77
MID-NC+4823B	118	87	--	103
SHORT - G8590	99	105	--	102
AVERAGES (bu/a)	92	64	--	78
CV (%)	12	16	--	--
LSD (0.05)	21	23	--	--

* HAY = Hays, Ellis Co. COL = Colby, Thomas Co. TRIB = Tribune, Greeley Co.

FIGURE 9. WEST Kansas DRYLAND corn hybrid standardized performance summary, 2000-2004.



Values within bars indicate the number of comparisons with checks.
Symbols (+,-) indicate if statistically higher or lower than mean of checks.

NORTHWEST KANSAS IRRIGATED CORN TEST ON SILT LOAM SOIL

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

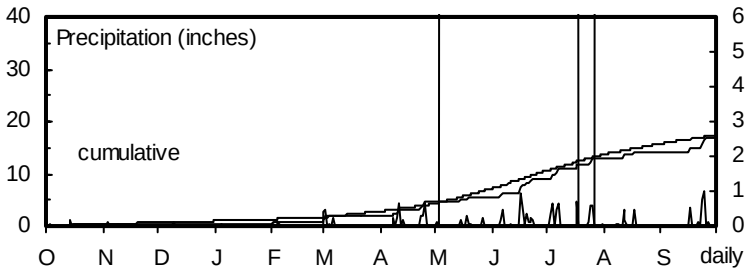
Keith silt loam; Sunflower in 2003

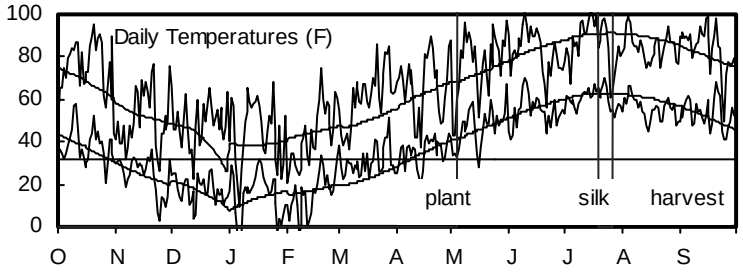
250 - 40 - 0 lb/a N, P, K

Planted on 5/3/2004; Harvested on 10/29/2004

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

Good stands, but cool, wet conditions in May delayed early growth. Relatively cool temperatures in spring and summer provided excellent growing conditions but delayed maturity.





Month	Precipitation 2004	Precipitation Norm.	Average Temp. 2004	Average Temp. Norm.	GDU 2004	GDU Norm.
Oct.-Mar.	2.0	2.8	39	36	200	19
April	2.6	1.4	51	49	269	187
May	1.1	2.9	63	59	444	351
June	3.2	3.4	68	70	524	591
July	4.1	3.1	73	76	658	748
August	1.2	2.1	71	74	608	714
Sept.	2.6	1.7	68	66	546	495
Totals:	16.8	17.4	52	51	3,248	3,105

Table 26. Colby Irrigated Corn Performance Test, 2003-2004.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
CROPLAN GEN.	501Bt	C	237	--	--	87	--	--	--	74	16	120	1	58	103
DEKALB	DKC60-19R/YGB	P250	242	234	238	89	97	75	19	74	19	119	0	58	95
ASGROW	RX752RR/YG	P250	258	--	--	95	--	--	--	75	19	119	0	57	99
LG SEEDS	LG2540BT/RR	P250	258	--	--	95	--	--	--	76	18	123	0	56	99
MATURITY CHECK	SHORT - G8590		238	232	235	87	96	76	18	76	18	116	0	58	100
AGSOURCE	5883 CB	P250	271	--	--	100	--	--	--	76	19	115	0	55	102
DEKALB	DKC63-52R/YGB	P250	268	--	--	99	--	--	--	76	19	117	3	56	107
MATURITY CHECK	MID-NC+4823B	P250	275	--	--	101	--	--	--	76	19	121	0	55	103
MYCOGEN	2E705	C	270	--	--	100	--	--	--	76	19	118	1	55	107
AGSOURCE	6883 CB	C	**288**	244	266	106	101	77	20	76	20	116	0	54	102
FONTANELLE	HC-7971YGCB	P250	269	--	--	99	--	--	--	76	20	114	1	55	101
NK	N70-F1		254	225	240	94	93	77	20	76	20	115	0	54	92
RENZE	8454YGCB	P250	**288**	265	277	106	110	77	22	76	20	120	0	54	103
PRODUCERS	7373RRBT	C	**288**	--	--	106	--	--	--	76	21	119	1	54	102
FONTANELLE	7798YGCB/RR	P250	252	--	--	93	--	--	--	77	18	113	1	57	103
AGSOURCE	6163 CB	C	272	210	241	100	87	77	19	77	19	118	0	55	104
CROPLAN GEN.	693Bt/CL	C	270	--	--	100	--	--	--	77	19	117	0	56	106
MYCOGEN	2P682	C	273	--	--	101	--	--	--	77	19	117	1	56	102
CROPLAN GEN.	705RR	C	234	--	--	86	--	--	--	77	20	114	0	57	103
FONTANELLE	HC-7951YGCB	P250	**292**	268	280	107	111	77	21	77	20	118	0	53	103
LG SEEDS	LG2619BT	P250	**304**	267	286	112	111	77	21	77	20	118	1	54	102
NK	N70-T9		265	252	258	97	104	77	21	77	20	116	0	55	99

(continued)

Table 26. Colby Irrigated Corn Performance Test, 2003-2004 - continued.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
OTTILIE	5295LL		278	--	--	102	--	--	--	77	20	122	0	56	101
PIONEER	33B55	C	259	--	--	95	--	--	--	77	20	113	0	57	101
PIONEER	34N42	P250	255	--	--	94	--	--	--	77	20	114	0	58	102
PREMIUM	P270		272	--	--	100	--	--	--	77	20	113	0	58	102
PRODUCERS	7284BT	C	279	--	--	103	--	--	--	77	20	118	0	54	104
RENZE	6424	P250	279	263	271	103	109	78	21	77	20	122	1	54	102
WARNER	4602B	P250	**298**	--	--	110	--	--	--	77	20	115	1	53	104
RENZE	5425HX1	P250	276	--	--	102	--	--	--	78	18	117	1	55	104
RENZE	8354YGCB	P250	234	--	--	86	--	--	--	78	18	116	6	60	100
AGSOURCE	6273 CB	P250	263	--	--	97	--	--	--	78	19	115	2	56	103
NK	N72-J5		**291**	237	264	107	98	78	21	78	19	117	1	54	105
TRIUMPH	1120BtRR	P250	238	256	247	88	106	78	19	78	19	108	1	55	105
GARST	8288		272	268	270	100	111	79	21	78	20	116	3	56	109
MYCOGEN	2T780	C	**294**	--	--	108	--	--	--	78	20	117	1	54	108
OTTILIE	5337CLYGCB		258	--	--	95	--	--	--	78	20	118	0	53	106
OTTILIE	5436YGCB		**291**	277	284	107	115	78	21	78	20	112	0	53	105
GARST	8377YG1/RR		**302**	--	--	111	--	--	--	78	21	119	0	53	104
RENZE	8394YGCB	P250	**295**	--	--	109	--	--	--	78	21	117	0	53	103
TRIUMPH	1536CBRR		**294**	--	--	108	--	--	--	78	21	118	0	53	105
CROPLAN GEN.	694Bt	C	263	--	--	97	--	--	--	79	19	110	0	54	106
OTTILIE	5334YGCB		**298**	235	266	110	97	79	21	79	20	118	0	54	108
PIONEER	33M54	P250	275	--	--	101	--	--	--	79	20	119	1	59	107
RENZE	5455HX1	P250	272	--	--	100	--	--	--	79	20	114	1	55	105
GARST	8383YG1		253	261	257	93	108	79	21	79	21	113	1	55	106
RENZE	9384YGCB/RR	P250	**291**	256	274	107	106	79	21	79	21	120	0	55	106
FONTANELLE	HC-7987YGCB	P250	**292**	233	262	107	96	79	23	79	22	116	2	53	106
AGSOURCE	7783 CB	C	**304**	244	274	112	101	80	22	80	20	117	0	51	106
OTTILIE	5476YGCB		**282**	--	--	104	--	--	--	80	21	115	5	53	108
FRONTIER	F3250		280	--	--	103	--	--	--	81	20	116	1	57	112
ST CHK	M798 Cruiser	C	257	--	--	95	--	--	--	81	20	113	12	56	112
MATURITY CHECK	FULL - M798		271	212	242	100	88	82	21	82	20	112	9	56	111
ST CHK	M798 P250	P250	240	--	--	88	--	--	--	82	20	115	20	56	112
FRONTIER	F3175		264	--	--	97	--	--	--	83	21	120	6	56	113
	AVERAGES		272	242	257	272	242	78	21	78	20	117	2	55	104
	CV (%)		6	7	--	6	7	--	--	1	2	4	212	1	2
	LSD (0.05)**		22	24	--	8	10	--	--	1	1	6	5	1	3

* C=Cruiser, P250 or P1250=Poncho at 250 or 1250 rates. All entries had fungicide seed treatments.

** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other. Current-year yields in bold are in the top LSD group.

WEST-CENTRAL KANSAS IRRIGATED CORN TEST ON SILT LOAM SOIL

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

Ulysses silt loam; Sorghum in 2003

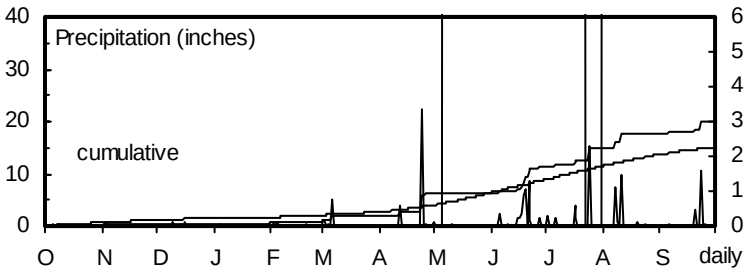
240 - 17 - 0 lb/a N, P, K

Planted on 5/5/2004; Harvested on 10/15/2004

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

A dry May was followed by storms in June and July. Some hybrids lost plants to green snap on July 17.

	Precipitation		Average Temp.		GDU	
Month	2004	Norm.	2004	Norm.	2004	Norm.
Oct.-Mar.	2.1	2.7	40	37	212	73
April	4.2	1.3	52	49	276	222
May	0.1	2.3	64	59	460	381
June	4.9	2.5	69	70	525	581
July	3.6	2.6	72	76	629	720
August	3.0	2.3	70	74	591	697
Sept.	2.2	1.3	68	66	526	504
Totals:	20.0	15.0	53	52	3,217	3,177



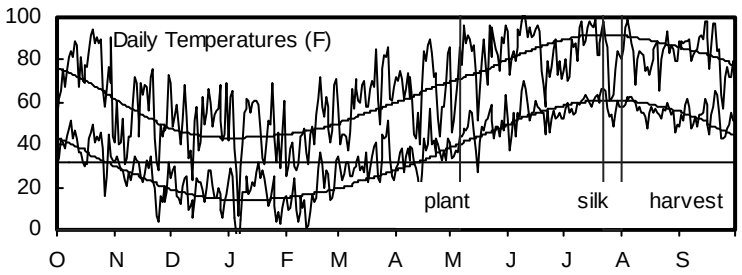


Table 27. Tribune Irrigated Corn Performance Test, 2003-2004.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
DEKALB	DKC63-52R/YGB	P250	225	--	--	96	--	--	--	77	32	107	10	51	110
FONTANELLE	7798YGCB/RR	P250	239	--	--	102	--	--	--	78	28	99	7	51	112
PIONEER	33B55	C	234	--	--	100	--	--	--	78	29	107	0	52	105
PIONEER	34N42	P250	234	--	--	100	--	--	--	78	29	110	1	53	105
AGSOURCE	6163 CB	C	244	--	--	104	--	--	--	78	30	110	3	49	110
DEKALB	DKC60-19R/YGB	P250	**254**	--	--	108	--	--	--	78	30	107	0	51	102
PRODUCERS	7001BT	C	248	--	--	106	--	--	--	78	30	108	6	50	106
AGSOURCE	5883 CB	P250	252	--	--	108	--	--	--	78	31	115	5	50	108
FONTANELLE	HC-7971YGCB	P250	**270**	--	--	115	--	--	--	78	31	110	3	51	108
LG SEEDS	LG2540BT/RR	P250	**262**	--	--	112	--	--	--	78	31	108	1	50	103
MATURITY CHECK	MID-NC+4823B	P250	215	--	--	92	--	--	--	78	31	115	5	50	110
ASGROW	RX752RR/YG	P250	**260**	--	--	111	--	--	--	78	32	115	2	50	106
FONTANELLE	HC-7951YGCB	P250	**271**	--	--	116	--	--	--	78	32	107	3	50	109
RENZE	5385HX1	P250	248	--	--	106	--	--	--	78	32	108	7	50	110
RENZE	6386	P250	**253**	221	237	108	103	80	28	78	32	116	8	51	101
AGSOURCE	6883 CB	C	**268**	--	--	114	--	--	--	78	33	112	5	50	109
NK	N70-T9		242	225	233	103	105	80	30	78	33	115	6	49	108
RENZE	8454YGCB	P250	**272**	237	255	116	111	80	32	78	33	104	2	50	109
WARNER	4602B	P250	**283**	--	--	121	--	--	--	78	33	107	3	51	108
MYCOGEN	2T801	C	**254**	--	--	108	--	--	--	78	34	114	8	50	108
RENZE	8394YGCB	P250	241	--	--	103	--	--	--	78	34	117	4	50	108
MATURITY CHECK	SHORT - G8590		214	179	197	91	84	80	25	79	28	110	2	51	105
AGSOURCE	6273 CB	P250	231	--	--	99	--	--	--	79	31	103	5	51	107
MYCOGEN	2E705	C	220	--	--	94	--	--	--	79	31	115	4	49	109

(continued)

Table 27. Tribune Irrigated Corn Performance Test, 2003-2004 - continued.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
CROPLAN GEN.	631CRW/RR		239	--	--	102	--	--	--	79	32	100	4	49	107
LG SEEDS	LG2633BT	P250	252	--	--	108	--	--	--	79	32	102	2	50	106
RENZE	8383YGCB	P250	**255**	234	245	109	109	81	30	79	32	109	6	50	113
LG SEEDS	LG2619BT/RR	P250	**275**	--	--	117	--	--	--	79	33	117	4	51	109
PRODUCERS	7284BT	C	**261**	--	--	112	--	--	--	79	33	105	14	49	107
TRIUMPH	1536CBRR		**267**	--	--	114	--	--	--	79	33	115	5	50	113
CROPLAN GEN.	705RR	C	228	--	--	98	--	--	--	80	31	99	2	52	107
TRIUMPH	1120BtRR	P250	224	215	220	96	100	81	28	80	31	99	1	49	107
RENZE	5425HX1	P250	227	--	--	97	--	--	--	80	32	110	5	50	109
CROPLAN GEN.	694Bt	C	164	--	--	70	--	--	--	80	33	106	0	50	110
NK	N70-F1		239	216	228	102	101	81	31	80	33	116	3	50	102
NK	N72-J5		235	212	223	100	99	82	30	80	33	108	4	49	110
RENZE	5345HX1	P250	200	--	--	86	--	--	--	81	30	113	3	50	100
RENZE	8354YGCB	P250	244	--	--	104	--	--	--	81	30	107	10	53	102
RENZE	5455HX1	P250	234	--	--	100	--	--	--	81	31	105	0	50	108
TRIUMPH	1416Bt	P1250	236	224	230	101	105	81	29	81	32	105	3	49	109
PIONEER	33M54	P250	220	--	--	94	--	--	--	82	31	113	7	53	105
CROPLAN GEN.	731Hx	C	244	--	--	104	--	--	--	82	33	114	12	50	111
RENZE	9384YGCB/RR	P250	239	224	232	102	105	83	31	82	33	112	5	51	111
FONTANELLE	HC-7987YGCB	P250	221	222	222	94	104	83	34	83	34	113	12	49	107
FRONTIER	F3250		214	--	--	91	--	--	--	84	32	110	20	51	110
MATURITY CHECK	FULL - M798		158	200	179	67	93	85	31	84	32	107	9	52	109
FRONTIER	F3175		138	--	--	59	--	--	--	84	34	108	13	51	108
ST CHK	M798 P250	P250	142	--	--	61	--	--	--	85	33	111	5	51	111
GARST	8225YG1/RR		235	--	--	100	--	--	--	85	35	106	4	49	107
ST CHK	M798 Cruiser	C	177	--	--	75	--	--	--	86	33	104	18	51	116
	AVERAGES		234	214	224	234	214	81	30	80	32	109	5	50	108
	CV (%)		9	7	--	9	7	--	--	2	4	6	97	2	4
	LSD (0.05)**		30	22	--	13	10	--	--	2	2	9	7	1	6

* C=Cruiser, P250 or P1250=Poncho at 250 or 1250 rates. All entries had fungicide seed treatments.

** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other. Current-year yields in bold are in the top LSD group.

SOUTHWEST KANSAS IRRIGATED CORN TEST ON SILT LOAM SOIL

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

Keith silt loam; Soybean in 2003

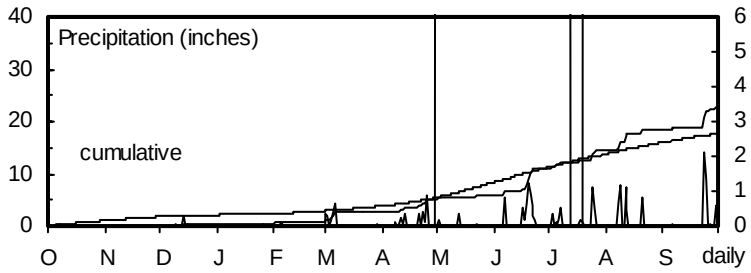
180 - 0 - 0 lb/a N, P, K

Planted on 4/29/2004; Harvested on 10/26/2004

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

Excellent seedbed and planting conditions. Rainfall was above average, and temperatures avoided extreme highs typical of most summers.

	Precipitation		Average Temp.		GDU	
Month	2004	Norm.	2004	Norm.	2004	Norm.
Oct.-Mar.	2.6	3.8	41	37	232	56
April	2.5	1.6	53	50	280	214
May	0.6	2.9	66	61	514	388
June	5.5	3.0	71	72	579	635
July	3.2	2.5	75	78	688	768
August	4.3	2.2	72	75	631	746
Sept.	4.2	1.7	70	67	576	544
Totals:	22.8	17.7	55	52	3,498	3,350



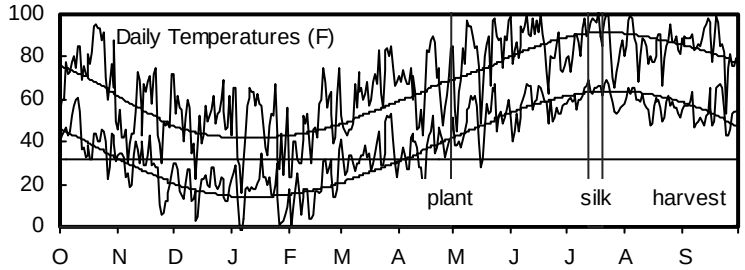


Table 28. Garden City Irrigated Corn Performance Test, 2003-2004.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
DEKALB	DKC60-19R/YGB	P250	234	267	250	94	98	74	17	73	16	110	0	--	96
FONTANELLE	7798YGCB/RR	P250	229	--	--	92	--	--	--	74	16	100	0	--	100
ASGROW	RX752RR/YG	P250	**252**	--	--	101	--	--	--	74	17	113	0	--	97
DEKALB	DKC63-52R/YGB	P250	247	--	--	99	--	--	--	74	17	107	0	--	105
NK	N70-F1		235	263	249	94	97	74	17	74	17	109	0	--	98
STINE	9804YGCB	P250	248	--	--	99	--	--	--	74	17	113	0	--	101
FONTANELLE	HC-7971YGCB	P250	**254**	--	--	102	--	--	--	74	18	101	0	--	103
MATURITY CHECK	SHORT - G8590		215	209	212	86	77	75	15	75	16	99	0	--	103
CROPLAN GEN.	705RR	C	235	--	--	94	--	--	--	75	17	99	0	--	101
FONTANELLE	HC-7951YGCB	P250	**266**	294	280	107	108	75	17	75	17	96	0	--	103
MATURITY CHECK	MID-NC+4823B	P250	**253**	--	--	102	--	--	--	75	17	101	0	--	101
MYCOGEN	2E705	C	244	--	--	98	--	--	--	75	17	102	0	--	101
CROPLAN GEN.	693Bt/CL	C	246	--	--	99	--	--	--	76	17	105	0	--	106
HPH	KS2151CRW		243	--	--	98	--	--	--	76	17	99	0	--	103
HPH	KS3131CRW		237	--	--	95	--	--	--	76	17	105	1	--	100
MYCOGEN	2T780	C	**258**	--	--	104	--	--	--	76	17	112	1	--	107
NK	N72-J5		238	273	255	96	100	75	17	76	17	111	1	--	103
PIONEER	33B55	C	244	--	--	98	--	--	--	76	17	109	0	--	100
STINE	9803YGCB	P250	**259**	279	269	104	103	76	17	76	17	106	0	--	100
WARNER	4602B	P250	252	--	--	101	--	--	--	76	17	99	1	--	104
FONTANELLE	HC-7987YGCB	P250	235	272	254	94	100	76	18	76	18	110	1	--	105
GARST	8292YG1		251	--	--	101	--	--	--	76	18	94	1	--	109
GARST	8371		247	296	271	99	109	76	18	76	18	106	1	--	104

(continued)

Table 28. Garden City Irrigated Corn Performance Test, 2003-2004 - continued.

BRAND	NAME	Seed treat-ment*	YIELD bushels/acre 2004	2003	2-Yr. AVG.	% of test average 2004	2003	2003-2004 Days to Silk	Grain Moist. %	2004 Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu	Ht. in.
GARST	8377YG1/RR		**263**	--	--	106	--	--	--	76	18	110	0	--	102
MYCOGEN	2T801	C	**268**	--	--	107	--	--	--	76	18	113	0	--	105
NK	N70-T9		234	274	254	94	101	75	18	76	18	103	0	--	102
TRIUMPH	1536CBRR		**258**	--	--	104	--	--	--	76	18	104	0	--	101
CROPLAN GEN.	818RRBT	C	**277**	279	278	111	103	77	18	77	17	109	1	--	101
GARST	8383YG1		243	270	256	98	99	76	17	77	17	99	1	--	101
CROPLAN GEN.	799Bt	C	239	--	--	96	--	--	--	77	18	98	0	--	103
FONTANELLE	HC-7931YGCB	P250	**260**	--	--	104	--	--	--	78	17	100	2	--	104
FRONTIER	F3250		250	258	254	100	95	77	18	78	17	101	2	--	109
HPH	KSEXP1150		239	--	--	96	--	--	--	78	17	103	2	--	109
MATURITY CHECK	FULL - M798		243	282	262	98	103	78	18	78	18	92	1	--	109
PIONEER	31N28	P250	**258**	--	--	104	--	--	--	78	18	107	1	--	103
PIONEER	32B33	P250	**275**	--	--	110	--	--	--	78	18	101	1	--	108
ST CHK	M798 P250	P250	243	--	--	98	--	--	--	78	18	96	1	--	113
ST CHK	M798 Cruiser	C	243	--	--	98	--	--	--	79	18	93	2	--	109
TRIUMPH	1866Bt	P1250	**271**	286	279	109	105	79	18	79	18	110	1	--	111
FRONTIER	F3175		**274**	266	270	110	98	78	18	80	17	105	2	--	109
	AVERAGES		249	272	261	249	272	76	17	76	17	104	1	--	103
	CV (%)		7	6	--	7	6	--	--	1	4	6	207	--	3
	LSD (0.05)**		25	21	--	10	8	--	--	1	1	8	2	--	4

* C=Cruiser, P250 or P1250=Poncho at 250 or 1250 rates. All entries had fungicide seed treatments.

** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other. Current-year yields in bold are in the top LSD group.

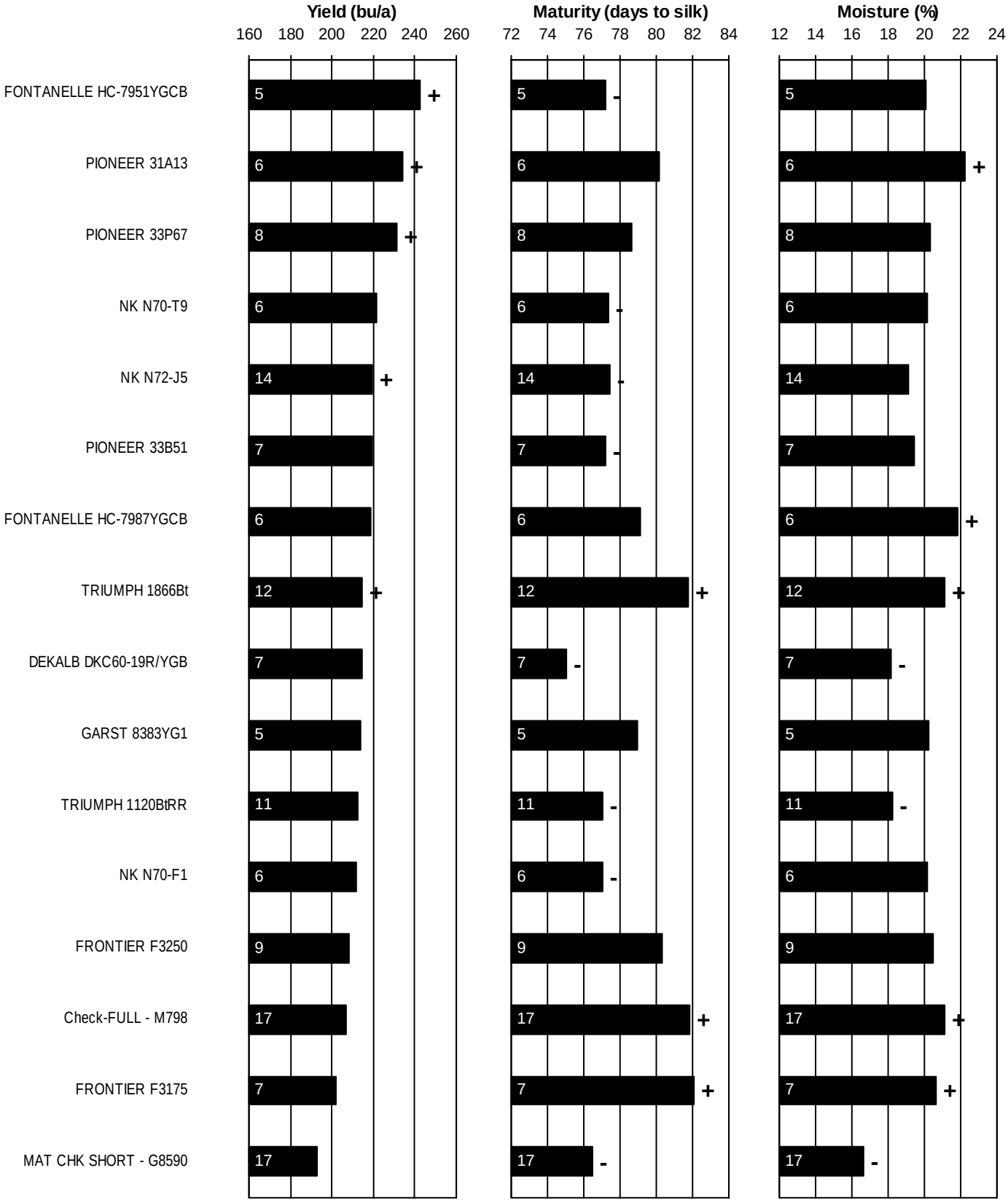
Table 29. WEST Kansas IRRIGATED corn hybrid yield summary (% of test average), 2004.

BRAND/NAME	COL*	TRI	GC	AVG.
AGSOURCE				
5883 CB	100	108	--	--
6163 CB	100	104	--	--
6273 CB	97	99	--	--
6883 CB	106	114	--	--
7783 CB	112	--	--	--
ASGROW				
RX752RR/YG	95	111	101	103
CROPLAN GEN.				
501Bt	87	--	--	--
631CRW/RR	--	102	--	--
693Bt/CL	100	--	99	--
694Bt	97	70	--	--
705RR	86	98	94	93
731Hx	--	104	--	--
799Bt	--	--	96	--
818RRBT	--	--	111	--
DEKALB				
DKC60-19R/YGB	89	108	94	97
DKC63-52R/YGB	99	96	99	98
FONTANELLE				
7798YGCB/RR	93	102	92	96
HC-7931YGCB	--	--	104	--
HC-7951YGCB	107	116	107	110
HC-7971YGCB	99	115	102	105
HC-7987YGCB	107	94	94	99
FRONTIER				
F3175	97	59	110	89
F3250	103	91	100	98
GARST				
8225YG1/RR	--	100	--	--
8288	100	--	--	--
8292YG1	--	--	101	--
8371	--	--	99	--
8377YG1/RR	111	--	106	--
8383YG1	93	--	98	--
HPH				
KS2151CRW	--	--	98	--
KS3131CRW	--	--	95	--
KSEXP1150	--	--	96	--
LG SEEDS				
LG2540BT/RR	95	112	--	--
LG2619BT	112	--	--	--
LG2619BT/RR	--	117	--	--
LG2633BT	--	108	--	--
MYCOGEN				
2E705	100	94	98	97
2P682	101	--	--	--
2T780	108	--	104	--
2T801	--	108	107	--
NK				
N70-F1	94	102	94	97
N70-T9	97	103	94	98
N72-J5	107	100	96	101

BRAND/NAME	COL	TRI	GC	AVG.
OTTILIE				
5295LL	102	--	--	--
5334YGCB	110	--	--	--
5337CLYGCB	95	--	--	--
5436YGCB	107	--	--	--
5476YGCB	104	--	--	--
PIONEER				
31N28	--	--	104	--
32B33	--	--	110	--
33B55	95	100	98	98
33M54	101	94	--	--
34N42	94	100	--	--
PREMIUM				
P270	100	--	--	--
PRODUCERS				
7001BT	--	106	--	--
7284BT	103	112	--	--
7373RRBT	106	--	--	--
RENZE				
5345HX1	--	86	--	--
5385HX1	--	106	--	--
5425HX1	102	97	--	--
5455HX1	100	100	--	--
6386	--	108	--	--
6424	103	--	--	--
8354YGCB	86	104	--	--
8383YGCB	--	109	--	--
8394YGCB	109	103	--	--
8454YGCB	106	116	--	--
9384YGCB/RR	107	102	--	--
ST CHK				
M798 Cruiser	95	75	98	89
M798 P250	88	61	98	82
STINE				
9803YGCB	--	--	104	--
9804YGCB	--	--	99	--
TRIUMPH				
1120BtRR	88	96	--	--
1416Bt	--	101	--	--
1536CBRR	108	114	104	109
1866Bt	--	--	109	--
WARNER				
4602B	110	121	101	111
MATURITY CHECK				
FULL - M798	100	67	98	88
MID-NC+4823B	101	92	102	98
SHORT - G8590	87	91	86	88
AVERAGES (bu/a)	272	234	249	252
CV (%)	6	9	7	--
LSD (0.05)	8	13	10	--

* COL = Colby, Thomas Co. TRI = Tribune, Greeley Co. GC = Garden City, Finney Co.

Figure 10. WEST Kansas IRRIGATED corn hybrid standardized performance summary, 2000-2004.



Values within bars indicate the number of comparisons with checks. Symbols (+,-) indicate if statistically higher or lower than mean of checks.

APPENDIX: Entries in the 2004 Kansas Corn Performance Tests*

	SD TRT	GDD	DBL	RES	P	F
ACCESS						
AEXP0514	P250	--	--	--	--	--
AEXP1516RR	P250	--	--	RR	--	--
AEXP5313YGCB	P250	--	--	YGCB	--	--
AEXP5415YGCB	P250	--	--	YGCB	--	--
AEXP5416YGCB	P250	--	--	YGCB	--	--
AEXP5417YGCB	P250	--	--	YGCB	--	--
AEXP5514YGCB	P250	--	--	YGCB	--	--
AEXP8413Hx	P250	--	--	Hx,LL	--	--
AEXP8414Hx	P250	--	--	Hx,LL	--	--
AGSOURCE						
4556 CBRR	C	2500	101	RR,BtCB	Y	Y
5683 CB	C	2620	107	BtCB	Y	Y
5883 CB	P250	2680	109	BtCB	Y	Y
6163 CB	C	2730	111	BtCB	Y	Y
6273 CB	P250	2700	112	BtCB	Y	Y
6233 CB	C	2730	112	BtCB	Y	N
6883 CB	C	2820	114	BtCB	Y	Y
7223 Hx	P250	2800	115	Hx,LL	Y	--
7243 CB	C	2800	115	CB	Y	N
7783 CB	C	2860	116	BtCB	Y	Y
ASGROW						
RX702YG	P250	2725	110	Bt	--	--
RX752RR/YG	P250	2750	112	RR,Bt	--	--
CROPLAN GEN.						
364Bt	C	2450	98	Bt	N	Y
501Bt	C	2510	102	Bt	Y	Y
441Bt	C	2520	104	Bt	N	Y
693Bt/CL	C	2730	111	Bt,CL	Y	N
699Bt/CL	C	2750	112	Bt,CL	N	Y
705RR	C	2760	112	RR	N	Y
694Bt	C	2770	113	Bt	N	Y
731Hx	C	2780	114	Bt,LL	N	Y
799Bt	C	2855	116	Bt	N	Y
818RRBT	C	2860	117	RR,Bt	N	Y
DEKALB						
DKC47-10R/YGB	P250	2420	97	RR,Bt	--	--
DKC50-20R/YGB	P250	2520	100	RR,Bt	--	--
DKC52-47R/YGB	P250	2550	102	RR,Bt	--	--
DKC54-51YGCB	P250	2585	104	Bt	--	--
DKC60-19R/YGB	P250	2750	110	RR,Bt	--	--
DKC63-81R/YGB	P250	2790	113	RR,Bt	--	--
DKC63-52R/YGB	P250	2800	113	RR,Bt	--	--
DYNA-GRO						
55F16	P250	2525	102	Bt	N	N
55P98	P250	2525	103	RR,Bt	N	N
55F21	P250	2575	103	Bt	N	N
57F29	P250	2750	110	Bt	Y	Y
57F87	P250	2800	113	Bt	Y	Y
57P69	P250	2815	113	RR,Bt	Y	Y
57P46	P250	2825	114	RR,Bt	Y	Y
57P93	P250	2850	114	RR,Bt	Y	Y
58P59	P250	2875	115	RR,Bt	Y	Y
FONTANELLE						
7798YGCB/RR	P250	--	--	Bt,RR	N	Y
7R418	P250	--	--	RR	N	N
8N422	P250	--	--	Bt,RR	N	Y
HC-7931YGCB	P250	--	--	Bt	N	Y
HC-7951YGCB	P250	--	--	Bt	N	Y
HC-7971YGCB	P250	--	--	Bt	N	Y
HC-7987YGCB	P250	--	--	Bt	N	Y
FRONTIER						
F3250	--	2880	115	--	--	Y
F3175	--	2900	116	--	Y	Y
GARST						
8888	--	2260	95	--	--	SO
8791	--	2450	103	--	--	Y
8535YG1/IT	--	2560	108	Bt,CL	--	Y
8545	--	2555	109	--	--	Y
8566YG1	--	2565	109	Bt	--	Y
8424	--	2565	110	--	--	Y
8450IT	--	2600	111	CL	--	Y
8454YG1	--	2600	112	Bt	--	Y
8383YG1	--	2610	114	Bt	N	Y
8371	--	2620	114	--	N	Y
8328Bt/IT	--	2600	115	Bt,CL	N	Y
8376YG1	--	2620	115	Bt	--	Y
8377YG1/RR	--	2620	115	Bt,RR	--	Y
8350YG1	--	2650	116	Bt	--	Y
8288	--	2670	116	--	N	Y
8225YG1/RR	--	2650	117	Bt,RR	--	Y
8292YG1	--	2690	118	Bt	--	Y
GOLDEN ACRES						
2841RRB	P250	2830	117	Bt,RR	N	Y
2995RR	P250	2895	120	RR	N	Y
X-6420Bt	P250	2895	120	Bt	N	Y
HAWKEYE						
03-990Bt	--	2620	114	Bt	Y	Y
HPH						
KS3131CRW	--	--	113	CRW	N	Y
KS2151CRW	--	--	115	CRW	N	Y
KSEXP1150	--	--	115	RR,Bt	N	Y
KAYSTAR						
KX-8615Bt	P250	--	--	Bt	N	Y
X4181B	P250	--	--	Bt	N	Y
KRUGER						
K-9212RR/YGCB	P250	2660	--	RR,YG	Y	Y
K-9111YGCB	P250	2670	--	YGCB	Y	Y
K-9313	P250	2670	--	--	Y	Y
K-9114YGCB	P250	2685	--	YGCB	Y	Y
K-9414YGCB	P250	2685	--	YGCB	Y	Y
K-9315YGCB	P250	2690	--	YG	Y	Y
K-9115YGCB	P250	2710	--	YG	Y	Y
LEWIS						
4864YGCBRR	P250	--	108	YGCB,RR	N	Y
5454YGCBRR	P250	--	112	Bt,RR	N	Y
5645YGCB	P250	--	112	Bt	N	Y
7044YGCB	P250	--	116	YGCB	N	Y
LG SEEDS						
LG2540BT/RR	P250	2585	110	Bt/RR	N	Y
LG2619BT	P250	2680	113	Bt	N	Y
LG2619BT/RR	P250	2680	113	Bt,RR	N	Y
LG2633BT	P250	2685	114	Bt	N	Y
MIDLAND						
7A14YGCB	P250	2780	111	Bt	Y	Y
7B13YGCB	P250	2780	111	Bt	Y	SF
7B15YGCB	P250	2800	112	Bt	Y	Y
7A15Bt	--	2820	113	Bt	--	SF
7A29YGCB	P250	2850	114	Bt	Y	Y
7A28Bt	--	2840	116	Bt	--	Y
7A28RRBt	--	2840	116	RR,Bt	--	Y
7A58Bt	--	--	117	Bt	--	Y

(continued)

APPENDIX: Entries in the 2004 Kansas Corn Performance Tests, continued.

	SD TRT	GDD	DBL	RES	P	F
MYCOGEN						
2K541	C	2450	103	RR,YG	--	Y
2G626	C	2550	105	YG	N	Y
2P682	C	2560	109	--	N	Y
2E705	C	2640	111	YG	--	Y
2E762	C	2640	111	RR,YG	--	Y
2G768	C	2685	113	LL,Hx	N	Y
2T801	C	2665	114	RR,YG	--	Y
2T780	C	2670	114	LL,Hx	--	Y
2P786	C	2700	114	LL,Hx	--	Y
2A812	C	2715	114	Bt,LL,Hx	N	Y
2P782	C	2720	114	RR,LL,Hx	--	Y
NC+						
3601	P250	2500	107	--	N	Y
5423B	P250	2760	114	Bt	N	Y
5433RB	P250	2760	114	Bt,RR	N	Y
NK						
N58-D1	--	2660	107	Bt,LL	N	Y
N65-M7	--	2690	109	--	Y	Y
N70-F1	--	2650	112	Bt,LL	Y	Y
N70-T9	--	2670	112	Bt,CL,LL	Y	Y
N71-Z3	C	2745	112	LL	Y	Y
N72-J5	--	2780	112	--	Y	Y
N76-H2	--	2800	113	--	Y	Y
N82-A7	--	2880	118	Bt,LL	Y	Y
OTTILIE						
5295LL	--	2690	112	LL	N	Y
5334YGCB	--	2730	113	Bt	N	Y
5337CLYGCB	--	2730	113	CL,Bt	N	Y
5436YGCB	--	2750	114	Bt	N	Y
5476YGCB	--	2760	114	Bt	N	Y
PFISTER						
2326Bt	P1250	--	--	--	--	--
2656RR	P1250	2740	109	RR	N	Y
2656Bt	P1250	2750	110	Bt	N	Y
2656BtRR	P1250	2750	110	Bt,RR	N	Y
2760	P1250	2760	111	--	N	Y
2730	P1250	2770	112	--	N	Y
2750Bt	P1250	2770	112	Bt	N	Y
3030Bt	P1250	2800	113	Bt	Y	Y
3153RR	P1250	2800	113	RR	N	Y
3356Bt	P1250	2850	115	Bt	N	Y
PIONEER						
35P15	C	2490	105	Bt,CL	N	Y
34H32	C	2540	107	Bt	N	Y
33B51	P250	2650	111	Bt	N	Y
34M93	P250	2650	111	Bt,LL	N	Y
34N42	P250	2650	111	Bt,LL	N	Y
33K39	P250	2670	112	--	N	Y
33B55	C	2700	113	Bt,LL	N	Y
33P67	P250	2720	114	Bt	N	Y
33M54	P250	2750	115	--	N	Y
33R78	C	2750	115	Bt	N	Y
31A13	P250	2770	116	Bt	N	Y
32B33	P250	2770	116	--	N	Y
31G66	P250	2800	117	--	Y	Y
31N28	P250	2870	120	Bt	N	Y
PREMIUM						
P236	--	--	111	--	N	Y
P270	--	--	114	--	N	Y
PRODUCERS						
7001BT	C	2570	110	Bt	N	Y
PRODUCERS						
7284BT	C	2620	112	Bt	N	Y
7321BT	C	2615	113	Bt	N	Y
7373RRBT	C	2680	113	RR,Bt	N	Y
RAINBOW						
3158YGCB	--	2490	114	YGCB	--	Y
RENZE						
5345HX1	P250	--	110	LL,Bt	N	N
5385HX1	P250	--	112	LL,Bt	N	Y
6363	P250	--	112	--	N	Y
6386	P250	--	112	--	N	Y
3364YGPL	P250	--	113	Bt,RW	N	Y
5425HX1	P250	--	113	LL,Bt	N	Y
8354YGCB	P250	--	113	Bt	N	Y
8364YGCB	P250	--	113	Bt	N	Y
9363YGCB/RR	P250	--	113	RR,Bt	N	Y
5455HX1	P250	--	114	LL,Bt	N	Y
6424	P250	--	114	--	N	Y
8383YGCB	P250	--	115	Bt	N	Y
8394YGCB	P250	--	115	Bt	N	Y
9384YGCB/RR	P250	--	115	RR,Bt	N	Y
8454YGCB	P250	--	116	Bt	N	Y
ST CHK						
M798 Cruiser	C	2820	115	--	Y	Y
M798 P250	P250	2820	115	--	--	--
STINE						
9620YGCB	P250	2420	105	Bt	N	Y
9619YGCB	P250	2510	109	Bt	N	Y
9720YGCB	P250	2520	110	Bt	N	Y
9716	P250	2550	112	--	N	Y
9723	P250	2550	112	--	N	N
9803YGCB	P250	2620	114	Bt	N	Y
9804YGCB	P250	2630	115	Bt	N	N
TAYLOR						
960RR/Bt	P250	--	110	RR,Bt	Y	Y
850Bt	P250	--	112	Bt	Y	Y
955RR/Bt	P250	--	114	RR,Bt	Y	Y
990RR/Bt	P250	--	118	RR,Bt	Y	Y
TRIUMPH						
5433CBRR	--	--	--	YGCB,RR	N	Y
1120BtRR	P250	2480	111	YGCB,RR	N	Y
1416Bt	P1250	2500	113	YGCB	N	Y
1536CBRR	--	--	115	YGCB,RR	N	Y
1866Bt	P1250	2610	117	YGCB	N	Y
2011RR	P1250	2650	119	RR	N	Y
WARNER						
W4201BR	P250	--	104	Bt,RR	N	Y
4602B	P250	--	117	Bt	N	Y
WILLCROSS						
3103CB	--	--	109	Bt	--	--
3143CB	--	--	114	Bt	--	Y
3179RR	--	--	117	RR	--	Y
MATURITY CHECK						
SHORT - G8590	--	2560	106	--	--	Y
MID-NC+4823B	P250	2710	112	Bt	N	Y
FULL - M798	--	2820	115	--	Y	Y

*SD TRT = Seed treatment (C = Cruiser, P250 = Poncho 250, P1250 = Poncho 1250); GDD = growing degree days; DBL = days to black layer; RES = herbicide, disease, and insect resistance traits (Bt, BtCB, YG, YGCB = transgenic corn borer protection, BtRW = 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.

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