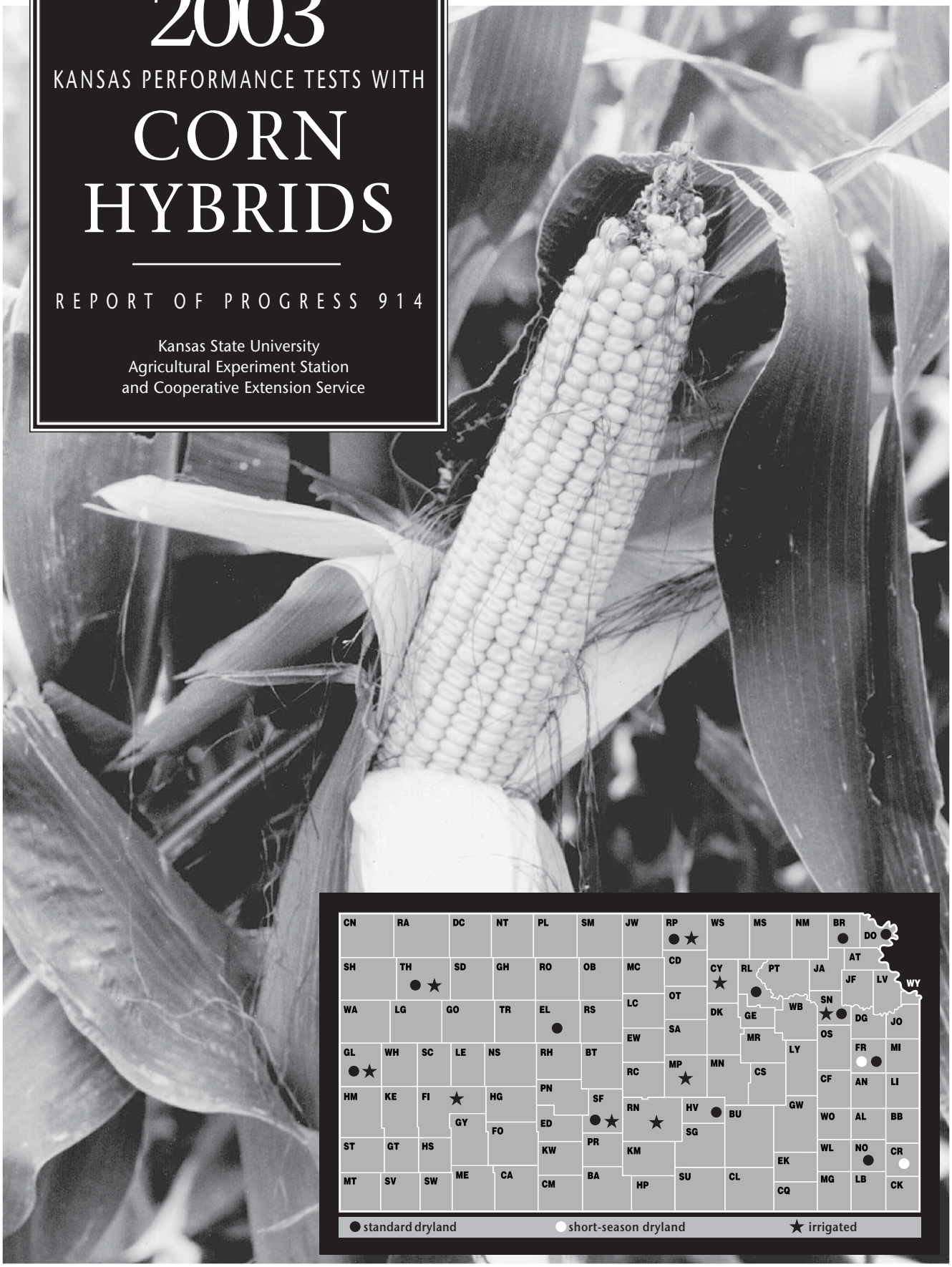
2003

KANSAS PERFORMANCE TESTS WITH

CORN HYBRIDS

REPORT OF PROGRESS 914

Kansas State University
Agricultural Experiment Station
and Cooperative Extension Service



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Contribution No. 04-165-S from the Kansas Agricultural Experiment Station.

2003 CORN CROP REVIEW

Statewide Growing Conditions

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

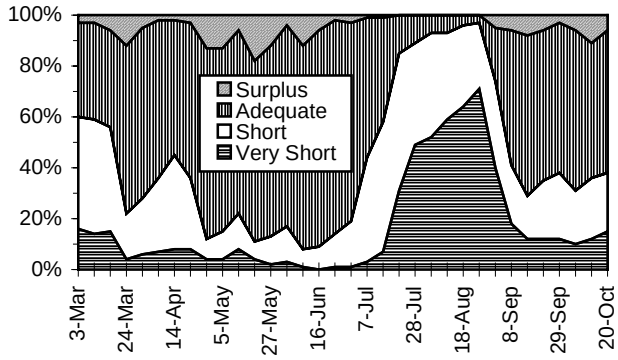


Figure 1. Statewide status of topsoil moisture.

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

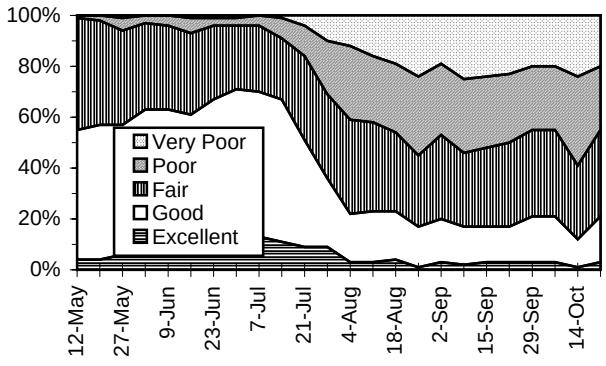


Figure 2. Condition of 2003 Kansas corn crop.

Diseases

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

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

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

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

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

Insects

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

(Jeff Whitworth, Kansas State University Department of Entomology)

Harvest Statistics

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

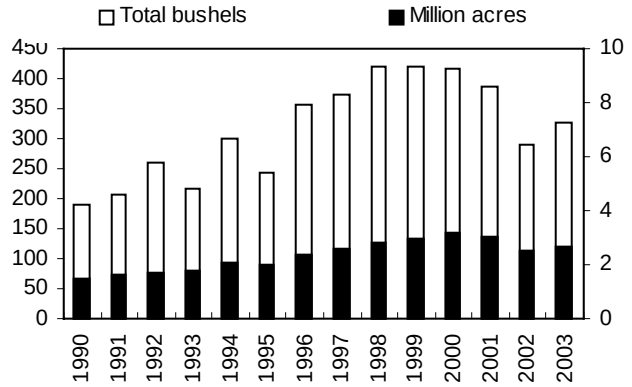


Figure 3. Historical Kansas corn production.

2003 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 utilized 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 2003 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 1 through 24 contain results from the individual performance tests. Hybrids are listed in order of increasing days to half silk and increasing grain moisture for the current year, so hybrids of similar maturity appear together.

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

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

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

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

The percentage of lodged stalks is reported when appropriate. Plants broken over below the ear and dropped ears were considered lodged, although most were harvestable with modern machinery. Severely lodged stalks or dropped ears that could not be picked up by normal harvest procedures were not included in yield. Because harvest often is delayed until latest maturing entries are ripe,

early and mid-season hybrids could lose ears simply because they must wait well past their optimum harvest date. In most years at most locations, dropped ears constitute a very small portion of lodging and do not significantly affect yields.

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

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

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

AgSource Seeds Inc
Boone, IA
515-432-8100
agsourceseeds.com

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

CroPlan Genetics
Shoreview, MN
651-765-5712
croplangenetics.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

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

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

Kruger Seed Co
Dike, IA
800-772-2721
krugerseed.com

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

LG Seeds
Gibbon, NE
877-505-7313
lgseedskrny@nebi.com

Midland Genetics Group
Ottawa, KS
800-819-SEED
midland@kanza.net

Midwest Seed Genetics
Carroll, IA
800-369-8218
midwestseed.com

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

NC+ Hybrids
Lincoln, NE
800-279-7999
nc-plus.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
Hope, KS
785-949-2204

Pioneer, A DuPont Company
Lakewood, CO
800-258-5604
pioneer.com

Premium Seed Inc
Berwick, IL
309-462-2396
seedquest.net/premiumseed

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

Renze Hybrids
Carroll, IA
712-669-3301
Renze@Netins.net

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

Thompson Seed
Leland, IA
800-942-6748
thompsonseeds.com

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

NORTHEAST KANSAS DRYLAND CORN TEST ON SILT LOAM SOIL

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

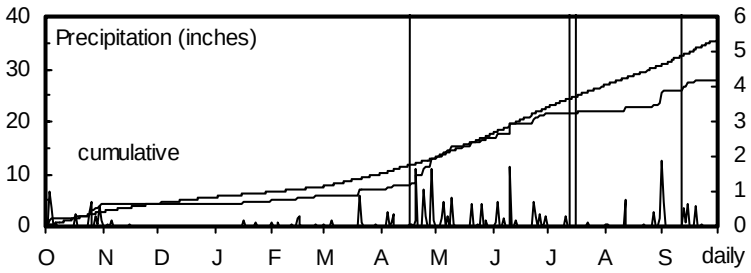
Manona silt loam; Soybean in 2002

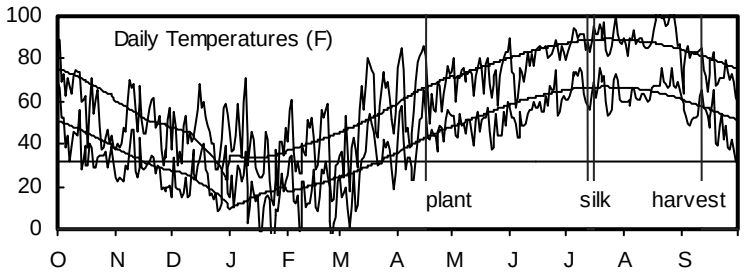
150 - 0 - 0 lb/a N, P, K

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

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

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





Month	Precipitation 2003	Precipitation Norm.	Average Temp. 2003	Average Temp. Norm.	GDU 2003	GDU Norm.
Oct.-Mar.	7.0	9.9	36	38	141	38
April	6.1	3.1	55	54	278	238
May	3.7	4.5	61	65	386	455
June	4.7	5.0	68	73	540	694
July	0.4	4.1	78	78	792	814
August	3.5	4.0	78	76	782	778
Sept.	2.7	4.9	62	68	425	542
Totals:	28.0	35.5	52	53	3,343	3,558

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

BRAND	NAME	ACRE YIELD, BUSHELS 2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	YIELD AS % OF TEST AVERAGE 2003	2002	2001	2002-2003 Days to Silk	2002-2003 Grain Moist. %	2003 Days to Silk	2003 Grain Moist. %	2003 Final Stand %	2003 Ldg %	2003 Test Wt. lb/bu
PFISTER	2656Bt	109	--	--	--	--	99	--	--	--	--	86	14	95	29	55
MYCOGEN	2G768	112	--	--	--	--	102	--	--	--	--	86	15	92	6	54
HAWKEYE	02-833	84	--	--	--	--	76	--	--	--	--	86	16	85	15	57
NK	NX7630	101	--	--	--	--	92	--	--	--	--	86	16	91	46	56
MATURITY CHECK	SHORT - G8590	107	127	154	117	129	98	91	88	82	12	87	14	91	9	56
STINE	9803YGCB	90	--	--	--	--	82	--	--	--	--	87	14	100	14	56
GARST	8454YG1	101	--	--	--	--	92	--	--	--	--	87	15	94	28	54
LEWIS	4864YGCBRR	123	--	--	--	--	112	--	--	--	--	87	15	106	26	55
NK	N70-F1	102	--	--	--	--	93	--	--	--	--	87	15	96	21	55
KRUGER	EX115YGCB	99	--	--	--	--	90	--	--	--	--	87	16	92	35	55
KRUGER	EX215	90	--	--	--	--	82	--	--	--	--	87	16	86	15	56
KRUGER	K-9315YGCB	129	136	--	132	--	118	98	--	83	15	87	16	98	26	56
KRUGER	K-9414	109	--	--	--	--	99	--	--	--	--	87	16	104	10	55
KRUGER	K-9415	121	--	--	--	--	111	--	--	--	--	87	16	99	8	54
MIDLAND	7A15Bt	109	--	--	--	--	100	--	--	--	--	87	16	78	6	54
MYCOGEN	2A812	118	--	--	--	--	108	--	--	--	--	87	16	97	24	54
RENZE	6424	110	--	--	--	--	101	--	--	--	--	87	16	100	13	56
RENZE	8454YGCB	94	--	--	--	--	86	--	--	--	--	87	16	92	15	55
RENZE	9454YGCB/RR	108	--	--	--	--	98	--	--	--	--	87	16	90	6	56
THOMPSON	T-5115RR/YGCB	94	--	--	--	--	86	--	--	--	--	87	16	68	15	55
PIONEER	32H69	104	--	--	--	--	95	--	--	--	--	87	17	98	4	59
PIONEER	33P67	130	158	202	144	163	118	114	115	82	16	87	17	92	43	58
MATURITY CHECK	MID - H2649	111	137	179	124	142	101	99	102	83	12	88	13	102	43	54
MIDLAND	7B13Bt	118	--	--	--	--	108	--	--	--	--	88	13	101	54	56
NK	N65-M7	110	149	--	129	--	100	107	--	83	12	88	13	91	53	55

(continued)

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

BRAND	NAME	ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2002-2003		2003				
		2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	2003	2002	2001	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
RENZE	8364YGCB	118	--	--	--	--	107	--	--	--	--	88	13	96	23	55
THOMPSON	T-4112YGCB	121	--	--	--	--	110	--	--	--	--	88	13	102	40	55
NC+	4823B	123	--	--	--	--	113	--	--	--	--	88	14	91	51	54
NC+	5193B	108	--	--	--	--	98	--	--	--	--	88	14	97	23	57
NK	N70-T9	124	--	--	--	--	113	--	--	--	--	88	14	101	18	55
PFISTER	2760	115	--	--	--	--	105	--	--	--	--	88	14	95	73	56
RENZE	9363YGCB/RR	111	--	--	--	--	101	--	--	--	--	88	14	85	24	56
MIDWEST SEED	G 7716B	124	--	--	--	--	113	--	--	--	--	88	15	97	49	55
MYCOGEN	2K785	106	--	--	--	--	97	--	--	--	--	88	15	98	14	55
PFISTER	2750Bt	103	--	--	--	--	94	--	--	--	--	88	15	96	39	55
RENZE	6363	122	154	--	138	--	111	111	--	83	13	88	15	90	15	56
STINE	8040-49	107	--	--	--	--	98	--	--	--	--	88	15	82	11	54
TRIUMPH	1416Bt	117	--	--	--	--	107	--	--	--	--	88	15	95	33	55
AGSOURCE	6183Bt	104	--	--	--	--	95	--	--	--	--	88	16	91	3	55
AGSOURCE	6883Bt	93	--	--	--	--	85	--	--	--	--	88	16	80	14	56
GARST	8328Bt/IT	129	138	--	133	--	117	99	--	83	16	88	16	98	31	57
GARST	8350YG1	123	--	--	--	--	112	--	--	--	--	88	16	98	10	55
GARST	8383YG1	105	126	--	116	--	96	91	--	84	15	88	16	90	1	55
HAWKEYE	SX68	119	--	--	--	--	108	--	--	--	--	88	16	90	49	56
KRUGER	K-9412YGCB	94	--	--	--	--	86	--	--	--	--	88	16	92	61	58
MIDLAND	7A25Bt	104	139	173	122	139	95	100	99	84	15	88	16	91	21	53
MIDWEST SEED	G 8125B	106	--	--	--	--	97	--	--	--	--	88	16	87	8	56
PFISTER	3030Bt	115	146	--	131	--	105	105	--	84	15	88	16	94	35	53
PRODUCERS	7321BT	122	--	--	--	--	111	--	--	--	--	88	16	91	9	55
THOMPSON	T-4115YGCB	101	--	--	--	--	92	--	--	--	--	88	16	81	27	56
KRUGER	EX617YGCB	123	--	--	--	--	112	--	--	--	--	88	17	96	74	54
KRUGER	K-9115YGCB	114	--	--	--	--	104	--	--	--	--	88	17	83	23	54
MIDLAND	7A28Bt	117	--	--	--	--	107	--	--	--	--	88	17	96	34	52
PIONEER	33R77	113	150	199	131	154	103	108	113	83	15	88	17	90	41	55
KRUGER	K-9017YGCB	108	147	--	128	--	98	106	--	83	17	88	18	91	9	54
MIDLAND	7A36	102	119	--	111	--	93	86	--	83	17	88	18	88	34	57
THOMPSON	T-2015BT	94	--	--	--	--	86	--	--	--	--	88	18	93	25	52
MATURITY CHECK	FULL - M798	85	132	190	108	135	77	95	108	84	18	88	19	94	23	54
AGSOURCE	6163Bt	106	--	--	--	--	96	--	--	--	--	89	13	95	19	56
HAWKEYE	SX65	134	--	--	--	--	122	--	--	--	--	89	14	98	44	56
KRUGER	K-9212RR/YGCB	113	--	--	--	--	103	--	--	--	--	89	14	90	24	56
AGSOURCE	6203Bt	99	132	--	115	--	90	95	--	84	15	89	16	97	1	56
AGSOURCE	7783Bt	112	--	--	--	--	102	--	--	--	--	89	16	96	73	53
PFISTER	3356Bt	110	--	--	--	--	100	--	--	--	--	89	16	100	78	54
LEWIS	7044YGCB	126	--	--	--	--	114	--	--	--	--	89	17	96	66	54
NC+	5433RB	97	--	--	--	--	88	--	--	--	--	89	17	93	6	55
PRODUCERS	795BT	102	149	--	125	--	93	107	--	84	18	89	18	99	14	54
	AVERAGES	110	139	175	124	141	110	139	175	83	15	88	16	93	27	55
	CV (%)	14	8	8	--	--	14	8	8	--	--	1	5	11	82	2
	LSD (0.05)**	22	18	20	--	--	20	13	11	--	--	2	1	14	31	1

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

NORTHEAST KANSAS DRYLAND CORN TEST ON SILTY CLAY LOAM SOIL

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

Grundy silty clay loam; Soybean in 2002

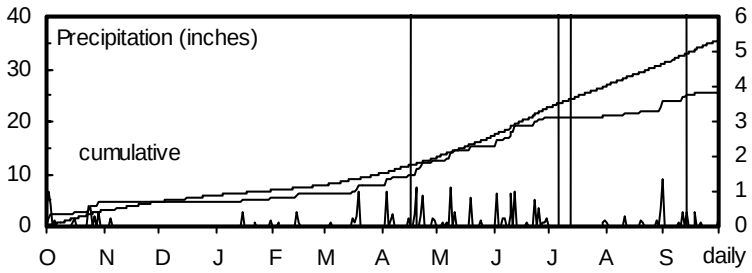
110 - 0 - 0 lb/a N, P, K

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

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

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

	Precipitation		Average Temp.		GDU	
Month	2003	Norm.	2003	Norm.	2003	Norm.
Oct.-Mar.	7.9	9.9	37	38	154	50
April	4.7	3.0	56	54	294	256
May	2.8	4.1	62	64	405	453
June	5.6	5.4	70	73	593	690
July	0.3	4.2	79	78	828	807
August	2.8	4.2	79	76	799	774
Sept.	1.7	4.6	63	68	445	541
Totals:	25.7	35.4	53	53	3,518	3,572



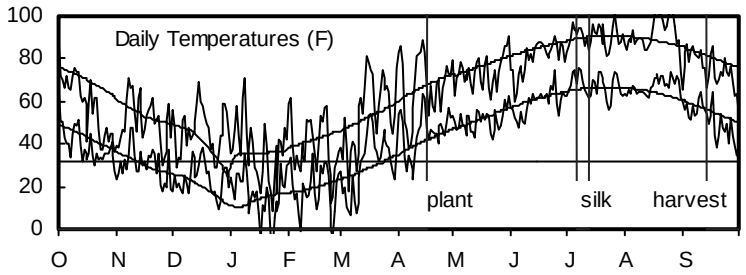


Table 3. Powhattan Corn Performance Test, 2001-2003.

BRAND	NAME	ACRE YIELD, BUSHELS 2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	YIELD AS % OF TEST AVERAGE 2003	2002	2001	2002-2003 Days to Silk	2002-2003 Grain Moist. %	2003 Days to Silk	2003 Grain Moist. %	2003 Final Stand %	2003 Ldg %	2003 Test Wt. lb/bu
ASGROW	RX752YG	76	--	--	--	--	98	--	--	--	--	80	16	99	--	56
GARST	8328Bt/IT	77	66	--	71	--	99	134	--	81	18	80	17	91	--	56
PIONEER	34H31	79	--	--	--	--	102	--	--	--	--	80	17	94	--	58
DEKALB	DKC63-50YGCB	76	--	--	--	--	99	--	--	--	--	81	14	103	--	55
DEKALB	DKC60-19RR/YG	82	45	--	63	--	106	91	--	81	16	81	16	93	--	55
MIDLAND	7B13Bt	105	--	--	--	--	136	--	--	--	--	81	16	92	--	54
AGSOURCE	6163Bt	98	--	--	--	--	127	--	--	--	--	81	17	99	--	55
ASGROW	RX664RR/YG	72	--	--	--	--	93	--	--	--	--	81	17	102	--	55
LEWIS	4864YGCBRR	90	--	--	--	--	116	--	--	--	--	81	17	92	--	55
MATURITY CHECK	SHORT - G8590	73	48	162	60	94	94	97	90	81	16	81	17	81	--	56
MIDWEST SEED	G 7716B	86	--	--	--	--	111	--	--	--	--	81	17	89	--	55
PFISTER	2656Bt	88	--	--	--	--	113	--	--	--	--	81	17	94	--	56
RENZE	8364YGCB	88	--	--	--	--	114	--	--	--	--	81	17	98	--	55
RENZE	9363YGCB/RR	102	--	--	--	--	132	--	--	--	--	81	17	94	--	55
GARST	8545	84	--	--	--	--	109	--	--	--	--	81	18	88	--	55
THOMPSON	T-4112YGCB	82	--	--	--	--	105	--	--	--	--	81	18	96	--	54
NK	N70-T9	79	--	--	--	--	102	--	--	--	--	81	19	100	--	55
MIDLAND	7A15Bt	61	--	--	--	--	79	--	--	--	--	81	20	64	--	54
RENZE	9454YGCB/RR	57	--	--	--	--	74	--	--	--	--	81	20	60	--	54
NC+	5193B	96	--	--	--	--	124	--	--	--	--	82	16	97	--	58
ASGROW	RX718RR/YG	86	--	--	--	--	111	--	--	--	--	82	17	99	--	58
KRUGER	K-9212RR/YGCB	81	--	--	--	--	104	--	--	--	--	82	17	98	--	56
NC+	4823B	94	--	--	--	--	121	--	--	--	--	82	17	93	--	55
NK	N65-M7	74	59	--	66	--	96	119	--	82	17	82	17	98	--	55
RENZE	6363	84	63	--	73	--	108	128	--	82	17	82	17	97	--	55
AGSOURCE	6883Bt	72	--	--	--	--	94	--	--	--	--	82	18	67	--	54

(continued)

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

BRAND	NAME	ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2002-2003		2003				
		2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	2003	2002	2001	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
HAWKEYE	SX70	77	56	--	67	--	100	114	--	82	18	82	18	97	--	55
AGSOURCE	6183Bt	86	--	--	--	--	111	--	--	--	--	82	19	91	--	54
MYCOGEN	2A812	73	--	--	--	--	94	--	--	--	--	82	19	89	--	53
MYCOGEN	2K785	87	--	--	--	--	112	--	--	--	--	82	19	93	--	55
NK	N70-F1	76	--	--	--	--	98	--	--	--	--	82	19	97	--	54
RENZE	8454YGCB	81	--	--	--	--	105	--	--	--	--	82	20	87	--	53
MATURITY CHECK	MID - H2649	71	56	190	64	106	92	114	105	83	16	83	16	90	--	55
KRUGER	K-9415	84	--	--	--	--	108	--	--	--	--	83	17	96	--	54
GARST	8454YG1	72	--	--	--	--	93	--	--	--	--	83	18	78	--	53
LEWIS	7044YGCB	92	--	--	--	--	119	--	--	--	--	83	18	91	--	53
MYCOGEN	2G768	82	--	--	--	--	106	--	--	--	--	83	18	93	--	54
THOMPSON	T-5115RR/YGCB	79	--	--	--	--	102	--	--	--	--	83	18	69	--	54
AGSOURCE	6203Bt	62	49	--	55	--	80	99	--	84	20	83	19	78	--	57
KRUGER	EX115YGCB	71	--	--	--	--	92	--	--	--	--	83	19	94	--	55
KRUGER	K-9115YGCB	66	--	--	--	--	85	--	--	--	--	83	19	67	--	53
KRUGER	EX215	64	--	--	--	--	83	--	--	--	--	83	20	87	--	56
RENZE	6424	74	--	--	--	--	95	--	--	--	--	83	20	97	--	54
THOMPSON	T-4115YGCB	71	--	--	--	--	91	--	--	--	--	83	20	86	--	53
HAWKEYE	2725	84	--	--	--	--	109	--	--	--	--	84	16	93	--	54
KRUGER	K-9412YGCB	75	--	--	--	--	97	--	--	--	--	84	18	91	--	57
DEKALB	DKC63-79YGCB	57	--	--	--	--	73	--	--	--	--	84	19	95	--	58
MIDWEST SEED	G 7950	74	--	190	--	--	95	--	105	--	--	84	19	96	--	57
PFISTER	2750Bt	73	--	--	--	--	95	--	--	--	--	84	19	94	--	54
KRUGER	K-9315YGCB	65	47	--	56	--	85	95	--	83	20	84	20	90	--	55
KRUGER	K-9414	65	--	--	--	--	84	--	--	--	--	84	20	104	--	54
NC+	5202B	59	51	--	55	--	76	104	--	84	20	84	21	79	--	55
KRUGER	K-9017YGCB	66	62	--	64	--	85	125	--	84	23	84	23	81	--	53
PFISTER	2760	72	--	--	--	--	93	--	--	--	--	85	17	91	--	55
GARST	8350YG1	66	--	--	--	--	85	--	--	--	--	85	19	99	--	54
KRUGER	EX617YGCB	89	--	--	--	--	115	--	--	--	--	85	19	96	--	53
PFISTER	3356Bt	84	--	--	--	--	109	--	--	--	--	85	19	97	--	52
PIONEER	33R77	68	43	208	55	106	88	88	115	86	18	85	19	90	--	54
MIDLAND	7A28Bt	91	--	--	--	--	118	--	--	--	--	85	20	94	--	50
MIDLAND	7A36	66	43	--	55	--	85	88	--	85	20	85	20	72	--	56
NC+	5433RB	64	--	--	--	--	82	--	--	--	--	85	20	82	--	54
MATURITY CHECK	FULL - M798	65	53	182	59	100	85	108	101	86	21	85	22	94	--	54
THOMPSON	T-2015BT	79	--	--	--	--	103	--	--	--	--	85	22	101	--	52
AGSOURCE	7783Bt	84	--	--	--	--	109	--	--	--	--	86	19	94	--	51
PFISTER	3030Bt	70	40	--	55	--	91	82	--	86	19	86	20	93	--	53
PIONEER	32H69	82	--	--	--	--	105	--	--	--	--	86	21	97	--	58
	AVERAGES	77	49	180	63	102	77	49	180	83	18	83	18	91	--	55
	CV (%)	10	17	6	--	--	10	17	6	--	--	1	6	9	--	1
	LSD (0.05)**	12	12	16	--	--	16	24	9	--	--	2	2	13	--	1

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

NORTHEAST KANSAS DRYLAND CORN TEST ON SILT LOAM SOIL

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

Reading silt loam; Soybean in 2002

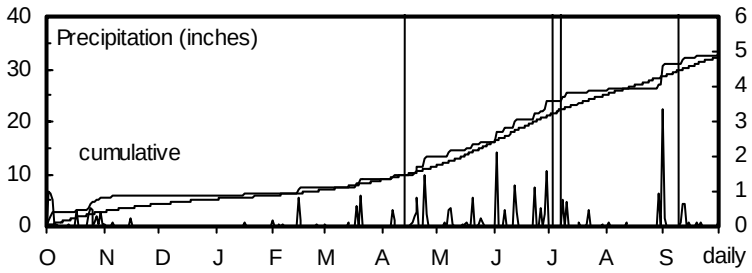
120 - 0 - 0 lb/a N, P, K

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

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

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

	Precipitation		Average Temp.		GDU	
Month	2003	Norm.	2003	Norm.	2003	Norm.
Oct.-Mar.	9.1	8.7	39	39	182	62
April	4.2	2.7	58	54	354	243
May	2.8	4.5	63	64	451	449
June	7.8	5.1	71	73	606	691
July	2.1	3.9	82	79	842	824
August	4.6	3.5	81	77	813	798
Sept.	2.2	3.8	65	69	496	577
Totals:	32.8	32.2	55	54	3,744	3,642



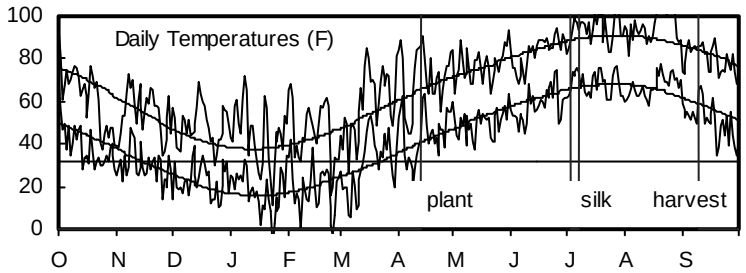


Table 4. Manhattan Corn Performance Test, 2001-2003.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2002-2003		2003				
BRAND	NAME	2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	2003	2002	2001	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
DEKALB	DKC60-19RR/YG	162	78	--	120	--	102	114	--	80	15	79	13	103	--	57
ASGROW	RX752YG	170	--	--	--	--	107	--	--	--	--	80	11	102	--	55
LEWIS	4864YGCBRR	157	--	--	--	--	99	--	--	--	--	80	11	100	--	55
RENZE	8364YGCB	165	--	--	--	--	104	--	--	--	--	80	11	97	--	54
AGSOURCE	6163Bt	160	--	--	--	--	101	--	--	--	--	80	12	100	--	55
GARST	8545	180	--	--	--	--	114	--	--	--	--	80	12	100	--	55
ASGROW	RX664RR/YG	141	--	--	--	--	89	--	--	--	--	80	13	99	--	56
DEKALB	DKC63-50YGCB	154	--	--	--	--	97	--	--	--	--	80	13	97	--	56
GARST	8328Bt/IT	145	81	--	113	--	91	118	--	81	17	80	13	99	--	57
PIONEER	34H31	162	--	--	--	--	102	--	--	--	--	80	13	100	--	60
RENZE	8381YGCB	155	79	--	117	--	98	115	--	82	15	81	11	100	--	55
KRUGER	K-9212RR/YGCB	160	--	--	--	--	101	--	--	--	--	81	12	99	--	55
NC+	4823B	147	--	--	--	--	93	--	--	--	--	81	12	92	--	55
GARST	8552YG1	160	--	--	--	--	101	--	--	--	--	81	13	100	--	55
RENZE	8454YGCB	169	--	--	--	--	106	--	--	--	--	81	13	100	--	56
AGSOURCE	6183Bt	165	--	--	--	--	104	--	--	--	--	82	12	95	--	56
AGSOURCE	6203Bt	160	63	--	111	--	101	91	--	83	16	82	12	95	--	56
GARST	8371	163	--	--	--	--	103	--	--	--	--	82	12	93	--	56
KRUGER	K-9315YGCB	148	63	--	105	--	93	92	--	84	15	82	12	94	--	56
MATURITY CHECK	SHORT - G8590	134	58	81	96	91	85	84	85	83	15	82	12	100	--	57
RENZE	6363	160	101	--	130	--	101	148	--	82	15	82	12	99	--	55
RENZE	6424	173	--	--	--	--	109	--	--	--	--	82	12	102	--	56
AGSOURCE	6883Bt	173	--	--	--	--	109	--	--	--	--	82	13	98	--	56

(continued)

Table 4. Manhattan Corn Performance Test, 2001-2003 - continued.

BRAND	NAME	ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2002-2003		2003				
		2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	2003	2002	2001	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
ASGROW	RX718RR/YG	151	--	--	--	--	95	--	--	--	--	82	14	101	--	59
LEWIS	7044YGCB	184	--	--	--	--	116	--	--	--	--	82	15	102	--	55
KRUGER	K-9414	164	--	--	--	--	103	--	--	--	--	83	12	105	--	55
MATURITY CHECK	MID - H2649	136	68	108	102	104	86	99	113	83	14	83	12	91	--	56
DEKALB	DKC63-79YGCB	150	--	--	--	--	94	--	--	--	--	83	13	97	--	58
KRUGER	EX115YGCB	131	--	--	--	--	82	--	--	--	--	83	13	100	--	56
KRUGER	K-9115YGCB	163	--	--	--	--	103	--	--	--	--	83	13	96	--	55
MYCOGEN	2A812	159	--	--	--	--	100	--	--	--	--	83	13	100	--	55
NC+	5433RB	160	--	--	--	--	101	--	--	--	--	83	13	97	--	56
KRUGER	K-9017YGCB	157	68	--	113	--	99	99	--	83	18	83	14	98	--	55
KRUGER	K-9412YGCB	149	--	--	--	--	94	--	--	--	--	83	14	100	--	59
KRUGER	K-9415	162	--	--	--	--	102	--	--	--	--	83	14	99	--	55
KRUGER	EX617YGCB	171	--	--	--	--	108	--	--	--	--	83	15	102	--	55
AGSOURCE	7783Bt	165	--	--	--	--	104	--	--	--	--	84	13	100	--	54
PIONEER	33R77	176	90	110	133	125	111	131	115	85	16	84	13	95	--	56
MYCOGEN	2G768	167	--	--	--	--	106	--	--	--	--	84	14	101	--	54
KRUGER	EX215	152	--	--	--	--	96	--	--	--	--	84	15	94	--	57
MATURITY CHECK	FULL - M798	146	78	116	112	113	92	113	121	86	19	84	16	94	--	57
	AVERAGES	159	69	96	114	108	159	69	96	83	16	82	13	98	--	56
	CV (%)	7	17	10	--	--	7	17	10	--	--	1	6	4	--	1
	LSD (0.05)**	16	16	15	--	--	10	23	16	--	--	1	1	6	--	1

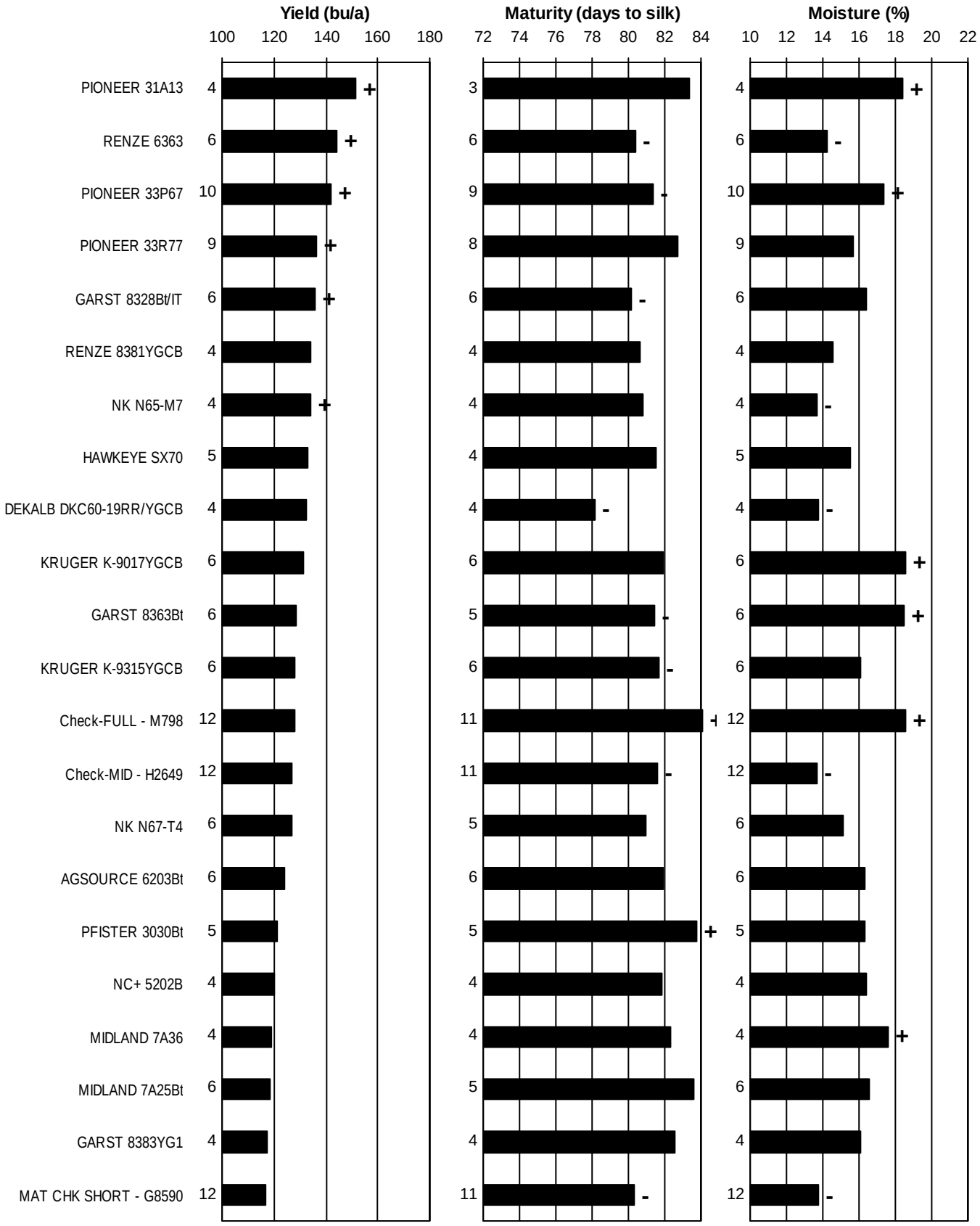
** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other.

Table 5. NORTHEAST Kansas corn hybrid yield summary (% of test average), 2003.

BRAND/NAME	SEV[1]	POW	BEL	MAN	AVG.
AGSOURCE					
6163Bt	96	127	--	101	108
6183Bt	95	111	--	104	103
6203Bt	90	80	--	101	90
6883Bt	85	94	--	109	96
7783Bt	102	109	--	104	105
ASGROW					
RX664RR/YG	--	93	--	89	--
RX718RR/YG	--	111	--	95	--
RX752YG	--	98	--	107	--
DEKALB					
DKC60-19RR/YGCB	--	106	--	102	--
DKC63-50YGCB	--	99	--	97	--
DKC63-79YGCB	--	73	--	94	--
GARST					
8328Bt/IT	117	99	--	91	103
8350YG1	112	85	--	--	--
8371	--	--	--	103	--
8383YG1	96	--	--	--	--
8454YG1	92	93	--	--	--
8545	--	109	--	114	--
8552YG1	--	--	--	101	--
HAWKEYE					
02-833	76	--	--	--	--
2725	--	109	--	--	--
SX65	122	--	--	--	--
SX68	108	--	--	--	--
SX70	--	100	--	--	--
KRUGER					
EX115YGCB	90	92	--	82	88
EX215	82	83	--	96	87
EX617YGCB	112	115	--	108	111
K-9017YGCB	98	85	--	99	94
K-9115YGCB	104	85	--	103	97
K-9212RR/YGCB	103	104	--	101	103
K-9315YGCB	118	85	--	93	98
K-9412YGCB	86	97	--	94	92
K-9414	99	84	--	103	95
K-9415	111	108	--	102	107
LEWIS					
4864YGCBRR	112	116	--	99	109
7044YGCB	114	119	--	116	116
MIDLAND					
7A15Bt	100	79	--	--	--
7A25Bt	95	--	--	--	--
7A28Bt	107	118	--	--	--
7A36	93	85	--	--	--
7B13Bt	108	136	--	--	--
MIDWEST SEED					
G 7716B	113	111	--	--	--
G 7950	--	95	--	--	--
G 8125B	97	--	--	--	--
MYCOGEN					
2A812	108	94	--	100	101
2G768	102	106	--	106	104
2K785	97	112	--	--	--
NC+					
4823B	113	121	--	93	109
5193B	98	124	--	--	--
5202B	--	76	--	--	--
5433RB	88	82	--	101	90
NK					
N65-M7	100	96	--	--	--
N70-F1	93	98	--	--	--
N70-T9	113	102	--	--	--
NX7630	92	--	--	--	--
PFISTER					
2656Bt	99	113	--	--	--
2750Bt	94	95	--	--	--
2760	105	93	--	--	--
3030Bt	105	91	--	--	--
3356Bt	100	109	--	--	--
PIONEER					
32H69	95	105	--	--	--
33P67	118	--	--	--	--
33R77	103	88	--	111	100
34H31	--	102	--	102	--
PRODUCERS					
7321BT	111	--	--	--	--
795BT	93	--	--	--	--
RENZE					
6363	111	108	--	101	107
6424	101	95	--	109	102
8364YGCB	107	114	--	104	108
8381YGCB	--	--	--	98	--
8454YGCB	86	105	--	106	99
9363YGCB/RR	101	132	--	--	--
9454YGCB/RR	98	74	--	--	--
STINE					
8040-49	98	--	--	--	--
9803YGCB	82	--	--	--	--
THOMPSON					
T-2015BT	86	103	--	--	--
T-4112YGCB	110	105	--	--	--
T-4115YGCB	92	91	--	--	--
T-5115RR/YGCB	86	102	--	--	--
TRIUMPH					
1416Bt	107	--	--	--	--
MATURITY CHECK					
FULL - M798	77	85	--	92	85
MID - H2649	101	92	--	86	93
SHORT - G8590	98	94	--	85	92
AVERAGES (bu/a)	110	77	--	159	115
CV (%)	14	10	--	7	--
LSD (0.05)**	20	16	--	10	--

[1] SEV = Severance, Doniphan Co. POW = Powhattan, Brown Co. BEL = Belleville, Republic Co. MAN = Manhattan, Riley Co.

Figure 4. NORTHEAST Kansas corn hybrid standardized performance summary, 2001-2003.



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

NORTHEAST KANSAS 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 2002

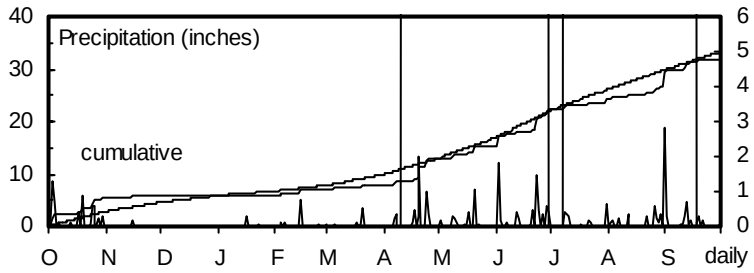
160 - 35 - 0 lb/a N, P, K

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

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

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

	Precipitation		Average Temp.		GDU	
Month	2003	Norm.	2003	Norm.	2003	Norm.
Oct.-Mar.	8.0	9.8	37	38	148	55
April	4.8	3.0	56	54	317	242
May	2.5	4.0	63	64	432	452
June	6.8	5.1	70	74	597	704
July	2.1	4.1	79	78	817	828
August	5.3	3.7	79	77	776	799
Sept.	2.4	3.5	61	69	387	560
Totals:	31.9	33.1	53	54	3,475	3,640



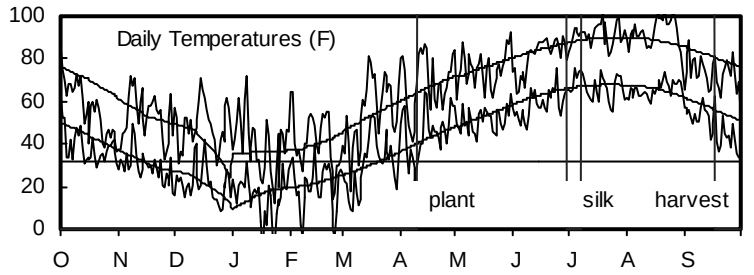


Table 6. Topeka Irrigated Corn Performance Test, 2001-2003.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2002-2003		2003				
BRAND	NAME	2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	2003	2002	2001	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
DEKALB	DKC60-19RR/YG	188	172	--	180	--	97	89	--	76	17	79	19	104	--	55
DEKALB	DKC63-50YGCB	197	--	--	--	--	101	--	--	--	--	80	20	110	--	55
MIDWEST SEED	G 8125B	205	--	--	--	--	105	--	--	--	--	81	20	95	--	54
NC+	5193B	187	--	--	--	--	96	--	--	--	--	82	18	99	--	56
PFISTER	2656Bt	199	--	--	--	--	102	--	--	--	--	82	18	100	--	53
AGSOURCE	6183Bt	178	--	--	--	--	91	--	--	--	--	82	19	97	--	55
AGSOURCE	6883Bt	195	--	--	--	--	100	--	--	--	--	82	19	92	--	54
ASGROW	RX752YG	176	--	--	--	--	90	--	--	--	--	82	20	104	--	55
MIDLAND	7A15Bt	198	--	--	--	--	102	--	--	--	--	82	20	86	--	54
DEKALB	DKC64-01YGCB	140	192	--	166	--	72	99	--	78	19	82	21	91	--	54
AGSOURCE	6203Bt	207	209	--	208	--	106	108	--	79	18	83	18	97	--	55
GARST	8545	195	--	--	--	--	100	--	--	--	--	83	18	98	--	54
PRODUCERS	7284BT	212	--	--	--	--	109	--	--	--	--	83	18	104	--	55
AGSOURCE	6163Bt	195	--	--	--	--	100	--	--	--	--	83	19	95	--	54
GARST	8383YG1	194	209	--	201	--	100	108	--	79	18	83	19	100	--	55
MIDLAND	7B13Bt	181	--	--	--	--	93	--	--	--	--	83	19	91	--	54
MYCOGEN	2R773	207	--	--	--	--	107	--	--	--	--	83	19	101	--	55
NC+	4823B	180	--	--	--	--	92	--	--	--	--	83	19	93	--	54
ASGROW	RX718RR/YG	142	--	--	--	--	73	--	--	--	--	83	20	102	--	57
MIDWEST SEED	G 8070B	207	202	--	204	--	106	105	--	79	19	83	20	98	--	55
NC+	5433RB	214	--	--	--	--	110	--	--	--	--	83	20	101	--	54
NK	N70-T9	203	--	--	--	--	104	--	--	--	--	83	20	105	--	54
KRUGER	EX115YGCB	192	--	--	--	--	98	--	--	--	--	83	22	100	--	54

(continued)

Table 6. Topeka Irrigated Corn Performance Test, 2001-2003 - continued.

BRAND	NAME	ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2002-2003		2003				
		2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	2003	2002	2001	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
MATURITY CHECK	MID - H2649	180	185	192	182	186	92	96	103	80	16	84	17	96	--	55
PFISTER	2540Bt	170	--	--	--	--	87	--	--	--	--	84	17	101	--	56
DEKALB	DKC63-79YGCB	194	--	--	--	--	100	--	--	--	--	84	18	95	--	56
MYCOGEN	2G768	190	--	--	--	--	98	--	--	--	--	84	18	102	--	53
NK	N72-J5	190	--	164	--	--	97	--	89	--	--	84	18	107	--	54
AGSOURCE	7783Bt	222	--	--	--	--	114	--	--	--	--	84	19	102	--	52
KRUGER	K-9212RR/YGCB	210	--	--	--	--	108	--	--	--	--	84	19	100	--	54
KRUGER	K-9415	189	--	--	--	--	97	--	--	--	--	84	19	94	--	53
NC+	5202B	206	198	--	202	--	106	102	--	79	19	84	20	106	--	54
STINE	9616Bt	184	--	--	--	--	95	--	--	--	--	84	20	103	--	55
KRUGER	K-9115YGCB	199	--	--	--	--	102	--	--	--	--	84	21	87	--	54
STINE	9803YGCB	183	--	--	--	--	94	--	--	--	--	84	21	96	--	54
MATURITY CHECK	SHORT - G8590	148	145	175	146	156	76	75	94	79	16	85	18	89	--	56
PFISTER	2760	183	--	--	--	--	94	--	--	--	--	85	18	99	--	55
PIONEER	33R77	246	205	223	225	225	126	106	120	81	17	85	19	97	--	54
CROPLAN GEN.	691BTLL	196	--	--	--	--	101	--	--	--	--	85	20	105	--	53
GARST	8454YG1	196	--	--	--	--	101	--	--	--	--	85	20	97	--	53
MYCOGEN	2A812	213	--	--	--	--	109	--	--	--	--	85	20	102	--	52
PIONEER	33P67	236	220	210	228	222	121	114	113	80	19	85	20	98	--	56
CROPLAN GEN.	818RRBT	207	--	--	--	--	106	--	--	--	--	85	21	99	--	54
PFISTER	3356Bt	213	--	--	--	--	109	--	--	--	--	85	21	109	--	52
PRODUCERS	795BT	220	205	--	213	--	113	106	--	80	22	85	23	102	--	53
MIDLAND	7A25Bt	178	210	188	194	192	91	109	102	81	23	85	28	90	--	53
KRUGER	K-9414	192	--	--	--	--	99	--	--	--	--	86	19	107	--	54
PFISTER	2750Bt	171	--	--	--	--	88	--	--	--	--	86	19	98	--	54
MATURITY CHECK	FULL - M798	210	199	191	205	200	108	103	103	82	19	86	20	103	--	55
GARST	8288	186	192	--	189	--	96	100	--	80	20	86	23	92	--	53
PFISTER	3030Bt	213	--	--	--	--	109	--	--	--	--	87	20	95	--	53
MIDLAND	7A28Bt	192	--	--	--	--	99	--	--	--	--	87	21	100	--	52
PIONEER	31A13	208	--	185	--	--	107	--	100	--	--	87	21	103	--	55
	AVERAGES	195	193	186	194	191	195	193	186	79	18	84	20	99	--	54
	CV (%)	10	8	7	--	--	10	8	7	--	--	2	5	6	--	1
	LSD (0.05)**	31	21	22	--	--	16	11	12	--	--	3	2	10	--	1

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

NORTHEAST KANSAS SPRINKLER IRRIGATED CORN TEST ON SILT LOAM SOIL

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

Muir silt loam; Soybean in 2002

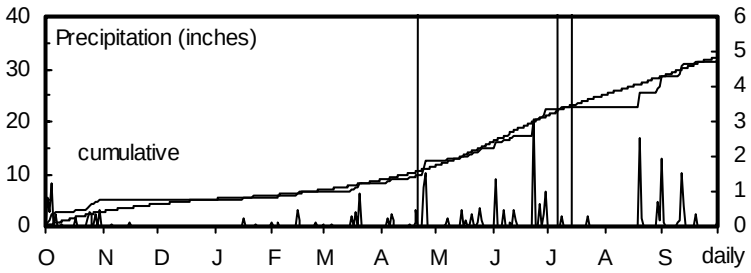
200 - 15 - 0 lb/a N, P, K

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

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

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

	Precipitation		Average Temp.		GDU	
Month	2003	Norm.	2003	Norm.	2003	Norm.
Oct.-Mar.	8.4	8.7	39	39	150	62
April	4.2	2.7	57	54	325	243
May	2.2	4.5	63	64	432	449
June	7.6	5.1	71	73	614	691
July	0.6	3.9	82	79	849	824
August	5.6	3.5	81	77	815	798
Sept.	3.1	3.8	66	69	498	577
Totals:	31.6	32.2	55	54	3,683	3,642



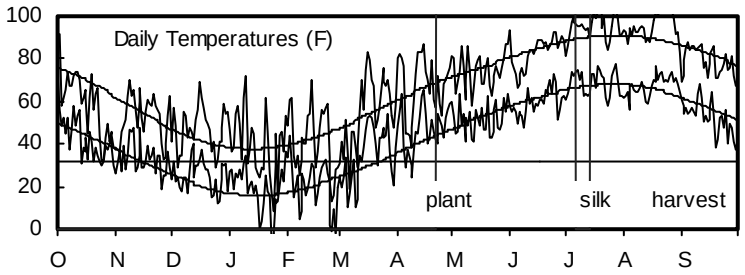


Table 7. Clay Center Irrigated Corn Performance Test, 2001-2003.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2002-2003		2003				
BRAND	NAME	2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	2003	2002	2001	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
PREMIUM	P245	209	--	--	--	--	94	--	--	--	--	75	15	101	1	59
AGSOURCE	6163Bt	224	--	--	--	--	101	--	--	--	--	75	16	95	1	59
AGSOURCE	6183Bt	233	--	--	--	--	105	--	--	--	--	75	16	98	4	59
STINE	8040-49	223	--	--	--	--	101	--	--	--	--	75	17	92	6	58
GARST	8545	208	--	--	--	--	94	--	--	--	--	76	15	94	4	58
AGSOURCE	6883Bt	216	--	--	--	--	97	--	--	--	--	76	16	77	3	59
GARST	8383YG1	205	251	--	228	--	92	117	--	75	18	76	16	86	0	63
GARST	8510YG1/RR	216	--	--	--	--	97	--	--	--	--	76	16	99	1	60
KRUGER	K-9414	235	--	--	--	--	106	--	--	--	--	76	16	98	6	59
MATURITY CHECK	SHORT - G8590	200	169	201	184	190	90	79	90	74	15	76	16	91	4	60
MIDLAND	7B13	214	--	228	--	--	96	--	102	--	--	76	16	91	2	59
STINE	9803YGCB	242	--	--	--	--	109	--	--	--	--	76	17	101	2	60
GARST	8288	229	235	--	232	--	103	110	--	75	19	76	18	102	6	61
KRUGER	K-9115YGCB	217	--	--	--	--	98	--	--	--	--	77	16	85	2	59
KRUGER	K-9212RR/YGCB	240	--	--	--	--	108	--	--	--	--	77	16	101	6	59
KRUGER	K-9415	237	--	--	--	--	107	--	--	--	--	77	16	95	3	57
MYCOGEN	2A812	231	--	--	--	--	104	--	--	--	--	77	16	96	3	59
CROPLAN GEN.	691BTLL	221	--	--	--	--	99	--	--	--	--	77	17	93	1	59
MIDLAND	7A16RR	210	--	--	--	--	95	--	--	--	--	77	17	75	2	59
MATURITY CHECK	MID - H2649	219	199	231	209	216	98	93	104	76	15	78	15	89	6	60
AGSOURCE	6203Bt	209	225	--	217	--	94	105	--	77	18	78	16	96	0	60
AGSOURCE	7783Bt	228	--	--	--	--	103	--	--	--	--	78	16	95	12	58
KRUGER	EX115YGCB	197	--	--	--	--	89	--	--	--	--	78	16	89	5	60
NC+	5202B	221	217	--	219	--	100	101	--	76	17	78	16	91	0	60

(continued)

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

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2002-2003		2003				
BRAND	NAME	2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	2003	2002	2001	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
NC+	5433RB	225	--	--	--	--	101	--	--	--	--	78	16	96	2	60
TRIUMPH	1866Bt	204	242	--	223	--	92	113	--	78	18	78	16	84	5	60
LEWIS	7044YGCB	238	--	--	--	--	107	--	--	--	--	78	17	100	9	58
PIONEER	33P67	242	234	242	238	240	109	109	109	76	18	78	17	99	12	62
CROPLAN GEN.	818RRBT	242	--	--	--	--	109	--	--	--	--	78	18	102	5	59
FRONTIER	F3250	225	--	233	--	--	101	--	104	--	--	78	18	93	8	61
MIDLAND	7A28	234	--	--	--	--	105	--	--	--	--	79	16	93	9	58
MIDLAND	EX896	215	--	--	--	--	97	--	--	--	--	79	17	95	5	61
MYCOGEN	2D835	214	--	--	--	--	97	--	--	--	--	79	17	95	7	59
FRONTIER	F3175	212	--	231	--	--	95	--	104	--	--	80	17	99	12	61
PIONEER	31A13	222	--	265	--	--	100	--	119	--	--	80	18	102	11	60
PIONEER	33R77	242	249	256	246	249	109	116	115	79	17	81	16	96	10	59
MATURITY CHECK	FULL - M798	221	239	229	230	230	100	111	103	79	19	81	17	99	7	61
TRIUMPH	2011RR	214	219	--	216	--	96	102	--	79	17	82	17	103	2	60
	AVERAGES	222	215	223	218	220	222	215	223	76	17	77	16	94	5	60
	CV (%)	6	7	6	--	--	6	7	6	--	--	2	3	9	102	2
	LSD (0.05)**	20	22	17	--	--	9	10	8	--	--	2	1	11	7	2

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

NORTH CENTRAL KANSAS SPRINKLER IRRIGATED CORN TEST

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

Crete silt loam; Soybean in 2002

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

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

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

Excellent stands; no significant insect or disease problems.

	Precipitation		Average Temp.		GDU	
Month	2003	Norm.	2003	Norm.	2003	Norm.
Oct.-Mar.	9.3	6.7	37	36	161	28
April	3.7	2.3	54	52	288	224
May	5.7	3.8	61	63	375	429
June	10.8	4.6	70	73	585	686
July	0.1	3.4	80	78	809	808
August	5.6	3.4	78	77	780	778
Sept.	7.5	3.5	63	68	443	528
Totals:	42.7	27.5	52	52	3,441	3,481

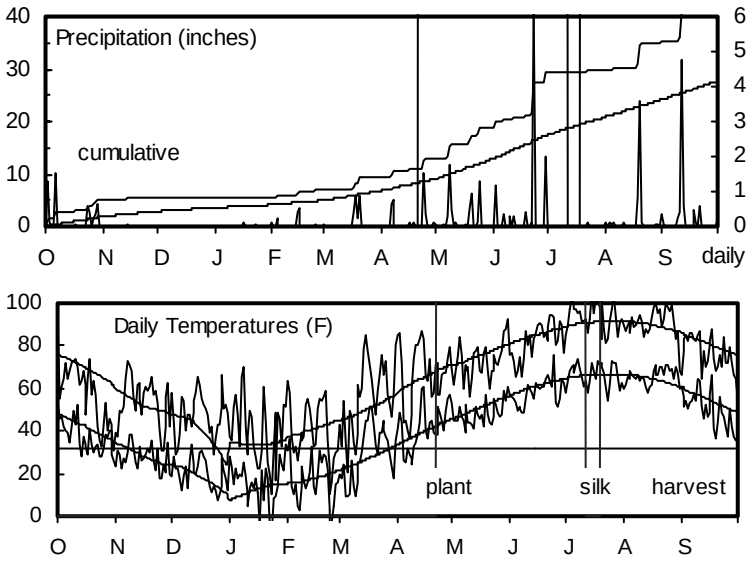


Table 8. Scandia Irrigated Corn Performance Test, 2001-2003.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2002-2003		2003				
BRAND	NAME	2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	2003	2002	2001	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
MATURITY CHECK	SHORT - G8590	213	184	183	199	194	97	82	93	80	15	80	17	120	--	58
GARST	8545	215	--	--	--	--	98	--	--	--	--	80	19	118	--	58
MIDLAND	7B13	215	--	209	--	--	98	--	106	--	--	81	18	117	--	58
NK	N65-M7	229	--	--	--	--	104	--	--	--	--	81	18	119	--	58
MYCOGEN	2A812	210	--	--	--	--	96	--	--	--	--	82	18	118	--	58
NK	N70-F1	219	--	--	--	--	100	--	--	--	--	82	18	117	--	58
RENZE	6363	192	--	--	--	--	87	--	--	--	--	82	18	120	--	58
MATURITY CHECK	MID - H2649	227	193	200	210	207	103	86	101	82	15	83	17	121	--	58
MYCOGEN	2P682	205	--	--	--	--	93	--	--	--	--	83	17	117	--	58
AGSOURCE	6163Bt	212	--	--	--	--	96	--	--	--	--	83	18	117	--	58
AGSOURCE	6203Bt	199	215	--	207	--	91	96	--	83	16	83	18	115	--	58
AGSOURCE	6883Bt	221	--	--	--	--	101	--	--	--	--	83	18	116	--	58
ASGROW	RX752YG	215	--	--	--	--	98	--	--	--	--	83	18	120	--	58
CROPLAN GEN.	818RRBT	231	--	--	--	--	105	--	--	--	--	83	18	117	--	58
DEKALB	DKC60-19RR/YG	206	--	--	--	--	94	--	--	--	--	83	18	118	--	58
GARST	8454YG1	239	--	--	--	--	109	--	--	--	--	83	18	121	--	58
KRUGER	K-9115YGCB	215	--	--	--	--	98	--	--	--	--	83	18	118	--	58
MIDWEST SEED	G 8070B	230	218	--	224	--	105	97	--	83	16	83	18	121	--	58
NC+	6362B	236	--	--	--	--	107	--	--	--	--	83	18	121	--	58
PRODUCERS	7371BT	223	--	--	--	--	102	--	--	--	--	83	18	119	--	58
RENZE	9454YGCB/RR	221	--	--	--	--	101	--	--	--	--	83	18	118	--	58
THOMPSON	T-2015BT	213	--	--	--	--	97	--	--	--	--	83	18	119	--	58
THOMPSON	T-5115RR/YGCB	225	--	--	--	--	103	--	--	--	--	83	18	120	--	58
AGSOURCE	6183Bt	204	--	--	--	--	93	--	--	--	--	84	18	118	--	58

(continued)

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

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2002-2003		2003				
BRAND	NAME	2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	2003	2002	2001	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
KRUGER	EX115YGCB	210	--	--	--	--	96	--	--	--	--	84	18	121	--	58
KRUGER	K-9414	210	--	--	--	--	96	--	--	--	--	84	18	123	--	58
KRUGER	K-9415	209	--	--	--	--	95	--	--	--	--	84	18	122	--	58
MIDLAND	798Bt	217	--	--	--	--	99	--	--	--	--	84	18	118	--	58
MIDWEST SEED	G 8125B	227	--	--	--	--	103	--	--	--	--	84	18	119	--	58
PIONEER	32H69	246	--	--	--	--	112	--	--	--	--	84	18	119	--	58
PIONEER	33R77	248	218	211	233	226	113	97	107	83	16	84	18	121	--	58
PRODUCERS	795BT	203	--	--	--	--	92	--	--	--	--	84	18	122	--	58
RENZE	8364YGCB	206	--	--	--	--	94	--	--	--	--	84	18	123	--	58
THOMPSON	T-4115YGCB	242	--	--	--	--	110	--	--	--	--	84	18	121	--	58
NC+	5202B	223	227	--	225	--	102	101	--	83	15	85	17	116	--	58
DEKALB	DKC63-50YGCB	226	--	--	--	--	103	--	--	--	--	85	18	120	--	58
FONTANELLE	HC-7951Bt	220	--	--	--	--	100	--	--	--	--	85	18	120	--	58
FONTANELLE	HC-7987Bt	207	--	--	--	--	94	--	--	--	--	85	18	122	--	58
KRUGER	K-9212RR/YGCB	198	--	--	--	--	90	--	--	--	--	85	18	118	--	58
MIDLAND	7A16RR	219	--	--	--	--	100	--	--	--	--	85	18	122	--	58
MYCOGEN	2E685	212	--	--	--	--	96	--	--	--	--	85	18	116	--	58
NK	N70-T9	218	--	--	--	--	99	--	--	--	--	85	18	123	--	58
PIONEER	33P67	239	231	218	235	229	109	103	110	83	16	85	18	121	--	58
RENZE	6424	229	--	--	--	--	104	--	--	--	--	85	18	120	--	58
RENZE	8383YGCB	195	--	--	--	--	89	--	--	--	--	85	18	122	--	58
RENZE	8454YGCB	210	--	--	--	--	96	--	--	--	--	85	18	116	--	58
MIDLAND	7A17Bt	216	--	--	--	--	99	--	--	--	--	85	19	117	--	58
AGSOURCE	7783Bt	220	--	--	--	--	100	--	--	--	--	86	18	117	--	58
CROPLAN GEN.	691BTLL	230	--	--	--	--	105	--	--	--	--	86	18	118	--	58
FONTANELLE	5234	210	--	--	--	--	96	--	--	--	--	86	18	119	--	58
FONTANELLE	5800	219	235	--	227	--	100	105	--	84	16	86	18	120	--	58
GARST	8288	264	224	--	244	--	120	100	--	85	16	86	18	118	--	58
GARST	8383YG1	229	256	--	242	--	104	114	--	84	16	86	18	122	--	58
THOMPSON	T-4112YGCB	222	--	--	--	--	101	--	--	--	--	86	18	115	--	58
MATURITY CHECK	FULL - M798	239	189	197	214	209	109	84	100	86	16	87	18	120	--	58
	AVERAGES	220	225	198	222	214	220	225	198	83	16	84	18	119	--	58
	CV (%)	5	5	3	--	--	5	5	3	--	--	1	1	3	--	1
	LSD (0.05)**	18	17	8	--	--	8	8	4	--	--	1	--	NS	--	1

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

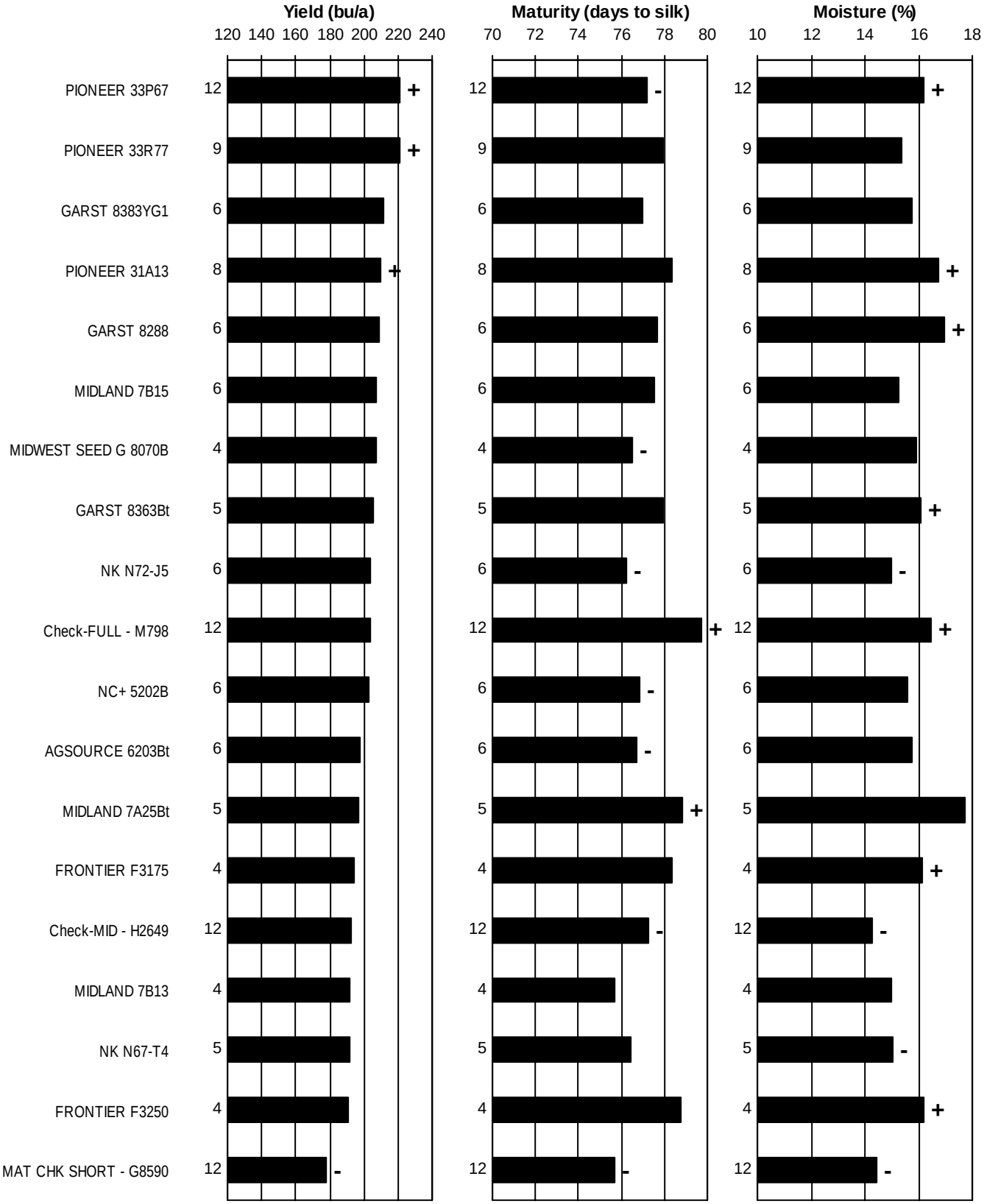
Table 9. NORTHEAST Kansas IRRIGATED corn hybrid yield summary (% of test avg.), 2003.

BRAND/NAME	TOP[1]	CLI	SCA	AVG.
AGSOURCE				
6163Bt	100	101	96	99
6183Bt	91	105	93	96
6203Bt	106	94	91	97
6883Bt	100	97	101	99
7783Bt	114	103	100	106
ASGROW				
RX718RR/YG	73	--	--	--
RX752YG	90	--	98	--
CROPLAN GEN.				
691BTLL	101	99	105	102
818RRBT	106	109	105	107
DEKALB				
DKC60-19RR/YGCB	97	--	94	--
DKC63-50YGCB	101	--	103	--
DKC63-79YGCB	100	--	--	--
DKC64-01YGCB	72	--	--	--
FONTANELLE				
5234	--	--	96	--
5800	--	--	100	--
HC-7951Bt	--	--	100	--
HC-7987Bt	--	--	94	--
FRONTIER				
F3175	--	95	--	--
F3250	--	101	--	--
GARST				
8288	96	103	120	106
8383YG1	100	92	104	99
8454YG1	101	--	109	--
8510YG1/RR	--	97	--	--
8545	100	94	98	97
KRUGER				
EX115YGCB	98	89	96	94
K-9115YGCB	102	98	98	99
K-9212RR/YGCB	108	108	90	102
K-9414	99	106	96	100
K-9415	97	107	95	100
LEWIS				
7044YGCB	--	107	--	--
MIDLAND				
798Bt	--	--	99	--
7A15Bt	102	--	--	--
7A16RR	--	95	100	--
7A17Bt	--	--	99	--
7A25Bt	91	--	--	--
7A28	--	105	--	--
7A28Bt	99	--	--	--
7B13	--	96	98	--
7B13Bt	93	--	--	--
EX896	--	97	--	--
MIDWEST SEED				
G 8070B	106	--	105	--
G 8125B	105	--	103	--
MYCOGEN				
2A812	109	104	96	103
2D835	--	97	--	--
2E685	--	--	96	--
2G768	98	--	--	--
2P682	--	--	93	--

BRAND/NAME	TOP[1]	CLI	SCA	AVG.
MYCOGEN				
2R773	107	--	--	--
NC+				
4823B	92	--	--	--
5193B	96	--	--	--
5202B	106	100	102	102
5433RB	110	101	--	--
6362B	--	--	107	--
NK				
N65-M7	--	--	104	--
N70-F1	--	--	100	--
N70-T9	104	--	99	--
N72-J5	97	--	--	--
PFISTER				
2540Bt	87	--	--	--
2656Bt	102	--	--	--
2750Bt	88	--	--	--
2760	94	--	--	--
3030Bt	109	--	--	--
3356Bt	109	--	--	--
PIONEER				
31A13	107	100	--	--
32H69	--	--	112	--
33P67	121	109	109	113
33R77	126	109	113	116
PREMIUM				
P245	--	94	--	--
PRODUCERS				
7284BT	109	--	--	--
7371BT	--	--	102	--
795BT	113	--	92	--
RENZE				
6363	--	--	87	--
6424	--	--	104	--
8364YGCB	--	--	94	--
8383YGCB	--	--	89	--
8454YGCB	--	--	96	--
9454YGCB/RR	--	--	101	--
STINE				
8040-49	--	101	--	--
9616Bt	95	--	--	--
9803YGCB	94	109	--	--
THOMPSON				
T-2015BT	--	--	97	--
T-4112YGCB	--	--	101	--
T-4115YGCB	--	--	110	--
T-5115RR/YGCB	--	--	103	--
TRIUMPH				
1866Bt	--	92	--	--
2011RR	--	96	--	--
MATURITY CHECK				
FULL - M798	108	100	109	106
MID - H2649	92	98	103	98
SHORT - G8590	76	90	97	88
AVERAGES (bu/a)	195	222	220	212
CV (%)	10	6	5	--
LSD (0.05)**	16	9	8	--

[1] TOP = Topeka, Shawnee Co. CLI = Clifton, Clay Co. SCA = Scandia, Republic Co.

Figure 5. NORTHEAST Kansas IRRIGATED corn hybrid standardized performance summary, 2001-2003.



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

NORTHEAST KANSAS DRYLAND CORN TEST ON SILTY CLAY LOAM

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

Silt loam; Soybean in 2002

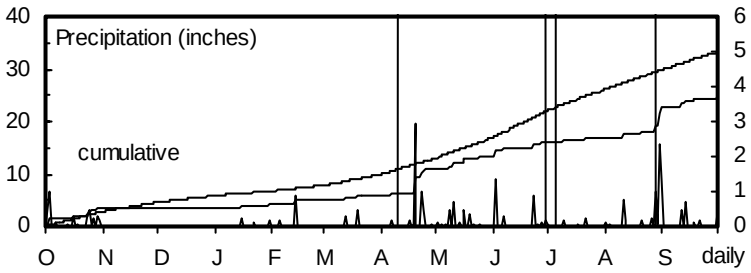
140 - 35 - 0 lb/a N, P, K

Planted on 4/11/03; Harvested on 8/27/03

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

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

	Precipitation		Average Temp.		GDU	
Month	2003	Norm.	2003	Norm.	2003	Norm.
Oct.-Mar.	6.0	9.8	38	38	175	55
April	4.9	3.0	58	54	349	242
May	2.4	4.0	64	64	452	452
June	3.0	5.1	71	74	623	704
July	0.5	4.1	81	78	844	828
August	6.2	3.7	80	77	777	799
Sept.	2.0	3.5	64	69	464	560
Totals:	24.8	33.1	54	54	3,684	3,640



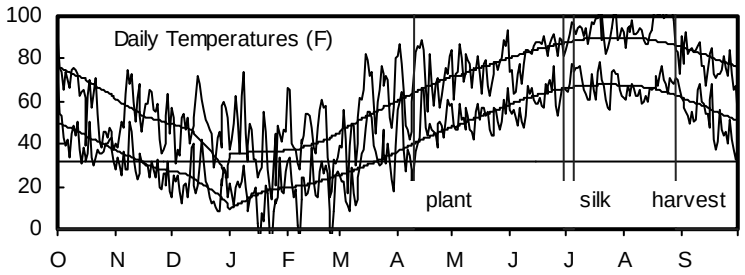


Table 10. Topeka Dryland Corn Performance Test, 2001-2003.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2002-2003		2003				
BRAND	NAME	2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	2003	2002	2001	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
AGSOURCE	6163Bt	64	--	--	--	--	100	--	--	--	--	79	10	98	41	54
NC+	4823B	52	--	--	--	--	81	--	--	--	--	79	10	93	48	54
RENZE	8364YGCB	59	--	--	--	--	91	--	--	--	--	79	10	92	57	54
AGSOURCE	6183Bt	67	--	--	--	--	105	--	--	--	--	79	11	88	41	55
AGSOURCE	6883Bt	62	--	--	--	--	97	--	--	--	--	79	11	92	25	55
PFISTER	2540Bt	69	--	--	--	--	107	--	--	--	--	79	11	99	41	56
PFISTER	2656Bt	55	--	--	--	--	86	--	--	--	--	79	11	91	32	54
PIONEER	34H31	74	--	--	--	--	116	--	--	--	--	79	11	101	19	57
RENZE	8454YGCB	65	--	--	--	--	102	--	--	--	--	79	11	94	23	55
STINE	8040-49	52	--	--	--	--	81	--	--	--	--	79	11	93	46	54
STINE	9711	68	--	--	--	--	105	--	--	--	--	79	11	95	38	54
STINE	9716	54	55	--	55	--	85	108	--	79	12	79	11	93	50	56
AGSOURCE	6203Bt	56	--	--	--	--	87	--	--	--	--	79	12	102	9	56
GARST	8328Bt/IT	65	--	--	--	--	101	--	--	--	--	79	12	103	21	55
GARST	8545	67	--	--	--	--	105	--	--	--	--	79	12	92	10	54
MYCOGEN	2R773	59	--	--	--	--	92	--	--	--	--	79	12	98	4	55
PIONEER	35P15	58	--	--	--	--	90	--	--	--	--	79	12	94	30	55
NK	N65-M7	61	54	--	58	--	95	107	--	79	12	80	10	100	33	55
MATURITY CHECK	SHORT - G8590	57	49	98	53	68	89	97	73	79	13	80	11	97	15	55
MIDLAND	7A15Bt	65	--	--	--	--	101	--	--	--	--	80	11	88	26	55
MIDLAND	7B13Bt	68	--	--	--	--	105	--	--	--	--	80	11	95	49	54
MYCOGEN	2G768	75	--	--	--	--	116	--	--	--	--	80	11	102	24	55
NC+	5193B	56	--	--	--	--	87	--	--	--	--	80	11	96	23	55

(continued)

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

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2002-2003		2003				
BRAND	NAME	2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	2003	2002	2001	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
NK	N70-T9	67	--	--	--	--	104	--	--	--	--	80	11	98	66	55
RENZE	6424	73	--	--	--	--	113	--	--	--	--	80	11	98	27	55
RENZE	9363YGCB/RR	70	--	--	--	--	110	--	--	--	--	80	11	97	82	55
RENZE	9454YGCB/RR	63	--	--	--	--	98	--	--	--	--	80	11	88	28	56
MYCOGEN	2A812	72	--	--	--	--	112	--	--	--	--	80	12	96	12	54
NK	N72-J5	72	--	139	--	--	112	--	103	--	--	80	12	100	28	56
PFISTER	2750Bt	67	--	--	--	--	104	--	--	--	--	80	12	103	21	55
PIONEER	34M95	85	--	--	--	--	132	--	--	--	--	80	12	101	16	56
RENZE	8383YGCB	58	--	--	--	--	90	--	--	--	--	80	12	107	4	56
NC+	5433RB	52	--	--	--	--	80	--	--	--	--	80	14	96	6	56
MATURITY CHECK	MID - H2649	62	51	153	57	89	96	101	114	80	12	81	10	99	25	53
PFISTER	2760	79	--	--	--	--	123	--	--	--	--	81	11	102	34	55
PFISTER	3356Bt	67	--	--	--	--	104	--	--	--	--	81	11	95	69	55
AGSOURCE	7783Bt	66	--	--	--	--	102	--	--	--	--	82	12	88	52	54
MIDLAND	7A28Bt	66	--	--	--	--	103	--	--	--	--	82	12	93	49	54
PFISTER	3030Bt	65	--	--	--	--	101	--	--	--	--	82	12	104	43	54
MATURITY CHECK	FULL - M798	59	56	160	57	91	92	110	119	83	16	84	14	101	49	56
	AVERAGES	64	51	134	57	83	64	51	134	80	13	80	11	97	33	55
	CV (%)	14	14	10	--	--	14	14	10	--	--	1	4	6	57	2
	LSD (0.05)**	13	10	18	--	--	20	19	14	--	--	1	1	8	26	1

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

SOUTHEAST KANSAS DRYLAND CORN TEST ON RIVER-BOTTOM SILT LOAM SOIL

Private farm south of Erie; James Long, agronomist; Kelly Kusel, research technician

Lanton silt loam; Soybean in 2002

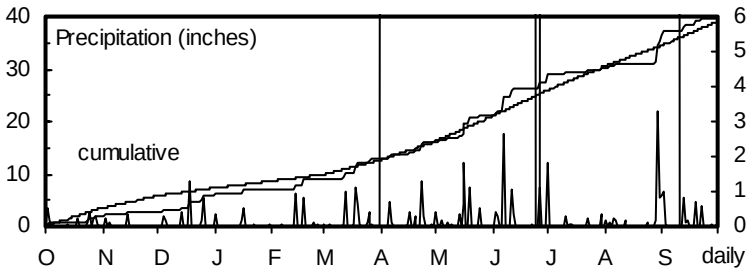
220 - 100 - 100 lb/a N, P, K

Planted on 4/1/03; Harvested on 9/9/03

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

Good planting conditions and excellent soil moisture through pollination carried the test through to harvest.

	Precipitation		Average Temp.		GDU	
Month	2003	Norm.	2003	Norm.	2003	Norm.
Oct.-Mar.	12.8	12.5	41	41	153	87
April	3.7	3.5	57	56	315	272
May	4.9	4.9	65	66	481	494
June	7.8	4.9	71	75	626	728
July	1.0	4.6	80	80	857	845
August	6.2	4.0	82	78	847	815
Sept.	3.5	4.5	66	71	496	615
Totals:	39.9	38.8	56	56	3,776	3,856



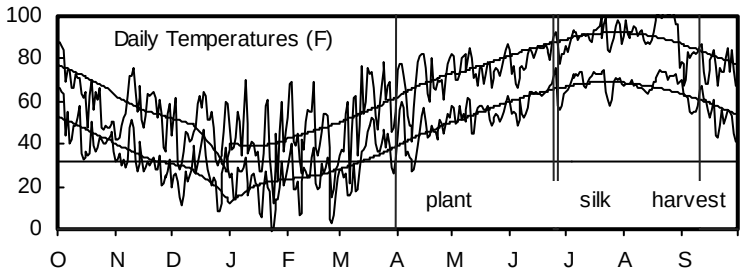


Table 11. Erie Corn Performance Test, 2001-2003.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2002-2003		2003				
BRAND	NAME	2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	2003	2002	2001	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
GARST	8545	197	--	--	--	--	101	--	--	--	--	84	14	100	--	57
MATURITY CHECK	SHORT - G8590	162	168	169	165	166	83	89	84	83	13	84	14	93	--	58
NC+	4573B	196	--	--	--	--	100	--	--	--	--	84	14	98	--	58
DEKALB	DKC63-50YGCB	189	--	--	--	--	96	--	--	--	--	84	15	99	--	58
GARST	8328Bt/IT	162	165	--	164	--	83	88	--	83	15	84	15	94	--	59
MYCOGEN	2K785	201	--	--	--	--	103	--	--	--	--	84	15	102	--	57
ASGROW	RX718RR/YG	183	--	--	--	--	94	--	--	--	--	85	14	98	--	60
ASGROW	RX752YG	205	--	--	--	--	105	--	--	--	--	85	14	103	--	58
DEKALB	DKC60-19RR/YG	181	181	--	181	--	93	96	--	84	14	85	14	102	--	59
DEKALB	DKC63-79YGCB	193	--	--	--	--	98	--	--	--	--	85	14	92	--	59
MATURITY CHECK	MID - H2649	190	158	197	174	182	97	84	98	84	14	85	14	105	--	57
NC+	4823B	203	--	--	--	--	104	--	--	--	--	85	14	94	--	58
GARST	8350YG1	196	--	--	--	--	100	--	--	--	--	85	15	101	--	59
GARST	8454YG1	205	--	--	--	--	105	--	--	--	--	85	15	97	--	56
MIDLAND	7A15Bt	200	--	--	--	--	102	--	--	--	--	85	15	97	--	57
MYCOGEN	2A812	205	--	--	--	--	105	--	--	--	--	85	15	101	--	56
PIONEER	31B13	211	218	218	215	216	108	116	108	85	15	85	15	105	--	59
NC+	5423B	213	--	--	--	--	109	--	--	--	--	85	16	98	--	56
PIONEER	31A13	204	230	225	217	220	104	122	112	85	15	85	16	99	--	58
NC+	6962R	176	--	--	--	--	90	--	--	--	--	86	14	93	--	58
TRIUMPH	1866Bt	214	--	--	--	--	109	--	--	--	--	86	14	108	--	59
MATURITY CHECK	FULL - M798	193	199	197	196	196	98	106	98	85	14	86	15	111	--	59
MIDLAND	7A28Bt	206	--	--	--	--	105	--	--	--	--	86	16	99	--	55
PIONEER	33R77	213	199	226	206	212	109	105	112	86	15	86	16	96	--	56
	AVERAGES	196	188	201	192	195	196	188	201	84	14	85	15	99	--	58
	CV (%)	6	9	7	--	--	6	9	7	--	--	1	3	5	--	1
	LSD (0.05)**	17	23	19	--	--	9	12	10	--	--	1	1	7	--	1

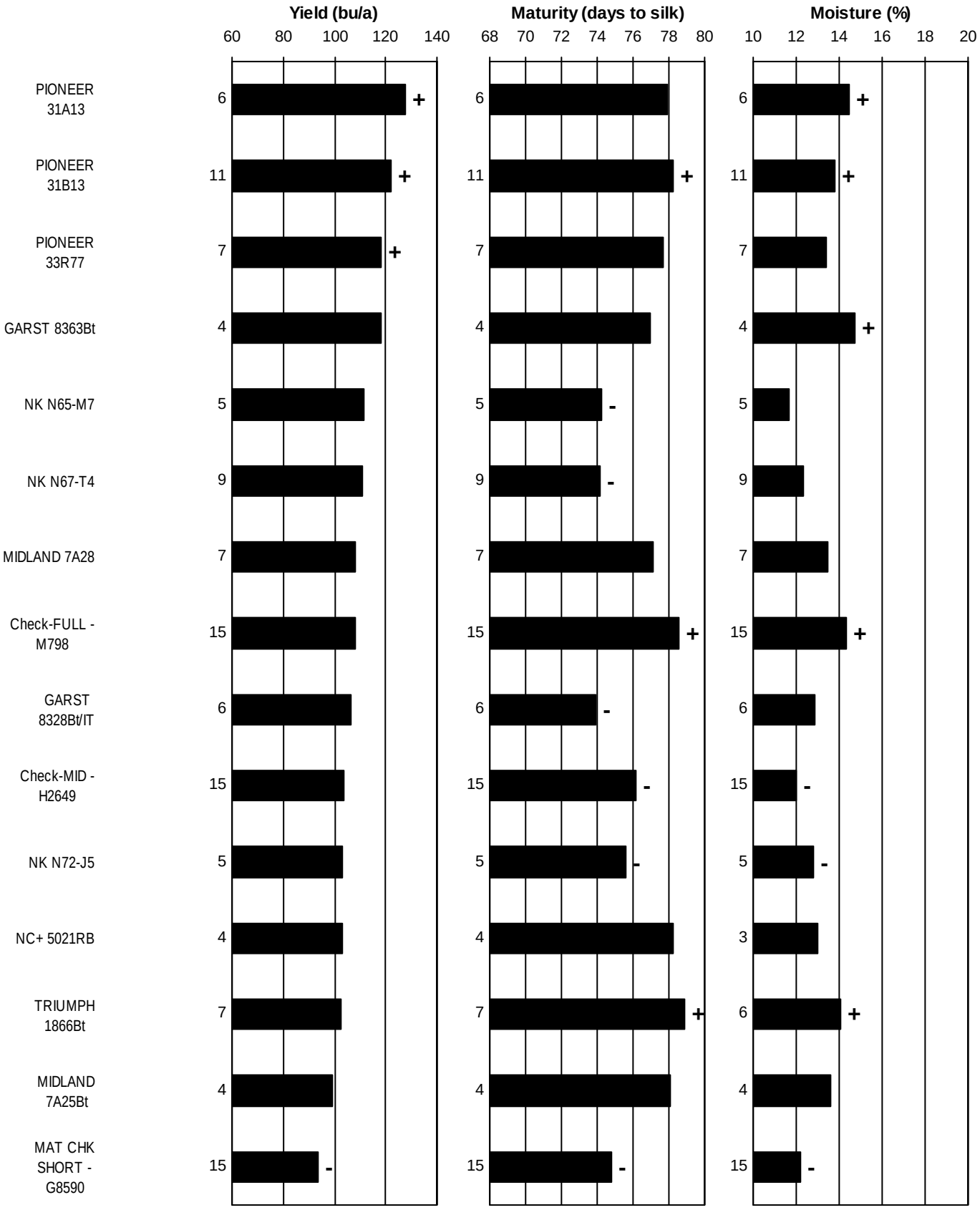
** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other.

Table 12. EAST Kansas corn hybrid yield summary (% of test average), 2003.

BRAND/NAME	TOP[1]	OTT	ERI	AVG.
AGSOURCE				
6163Bt	100	--	--	--
6183Bt	105	--	--	--
6203Bt	87	--	--	--
6883Bt	97	--	--	--
7783Bt	102	--	--	--
ASGROW				
RX718RR/YG	--	--	94	--
RX752YG	--	--	105	--
DEKALB				
DKC51-43	--	--	--	--
DKC52-45YGCB	--	--	--	--
DKC57-84YGCB	--	--	--	--
DKC60-19RR/YGCB	--	--	93	--
DKC63-50YGCB	--	--	96	--
DKC63-79YGCB	--	--	98	--
GARST				
8328Bt/IT	101	--	83	92
8350YG1	--	--	100	--
8454YG1	--	--	105	--
8545	105	--	101	103
8552YG1	--	--	--	--
MIDLAND				
7A14Bt	--	--	--	--
7A15Bt	101	--	102	101
7A28Bt	103	--	105	104
7B13Bt	105	--	--	--
7B15	--	--	--	--
MIDWEST SEED				
G 7122	--	--	--	--
G 7716B	--	--	--	--
MYCOGEN				
2A812	112	--	105	108
2G768	116	--	--	--
2K785	--	--	103	--
2R773	92	--	--	--
6920BT	--	--	--	--
NC+				
4573B	--	--	100	--
4823B	81	--	104	92
5021RB	--	--	--	--
5193B	87	--	--	--
5423B	--	--	109	--
5433RB	80	--	--	--
6962R	--	--	90	--
NK				
N58-D1	--	--	--	--
N65-M7	95	--	--	--
N67-T4	--	--	--	--
N70-T9	104	--	--	--
N72-J5	112	--	--	--
PFISTER				
2540Bt	107	--	--	--
2656Bt	86	--	--	--
2750Bt	104	--	--	--
2760	123	--	--	--
3030Bt	101	--	--	--
3356Bt	104	--	--	--
PIONEER				
31A13	--	--	104	--
31B13	--	--	108	--
33B51	--	--	--	--
33R77	--	--	109	--
34H31	116	--	--	--
34M95	132	--	--	--
35P15	90	--	--	--
RENZE				
6424	113	--	--	--
8364YGCB	91	--	--	--
8383YGCB	90	--	--	--
8454YGCB	102	--	--	--
9363YGCB/RR	110	--	--	--
9454YGCB/RR	98	--	--	--
STINE				
8040-49	81	--	--	--
9711	105	--	--	--
9716	85	--	--	--
TRIUMPH				
1866Bt	--	--	109	--
2011RR	--	--	--	--
3421RR	--	--	--	--
MATURITY CHECK				
FULL - M798	92	--	98	95
MID - H2649	96	--	97	97
SHORT - G8590	89	--	83	86
AVERAGES (bu/a)	64	--	196	130
CV (%)	14	--	6	--
LSD (0.05)**	20	--	9	--

[1] TOP = Topeka, Shawnee Co. OTT = Ottawa, Franklin Co. ERI = Erie, Neosho Co.

Figure 6. EAST Kansas corn hybrid standardized performance summary, 2001-2003.



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

EAST CENTRAL KANSAS DRYLAND SHORT-SEASON CORN TEST ON SILT LOAM SOIL

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

Woodson silt loam; Soybean in 2002

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

Planted on 4/17/03; Harvested on 8/27/03

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

Excellent spring, but summer was hot and very dry. The corn died before fully mature. Yields were highly correlated with maturity.

	Precipitation		Average Temp.		GDU	
Month	2003	Norm.	2003	Norm.	2003	Norm.
Oct.-Mar.	8.7	9.1	41	41	181	99
April	4.3	2.9	59	56	363	282
May	4.1	4.1	66	66	501	489
June	5.1	4.9	73	74	664	718
July	1.5	4.0	82	80	883	831
August	5.0	3.2	82	79	844	804
Sept.	4.0	4.0	66	70	502	606
Totals:	32.7	32.3	56	56	3,938	3,830

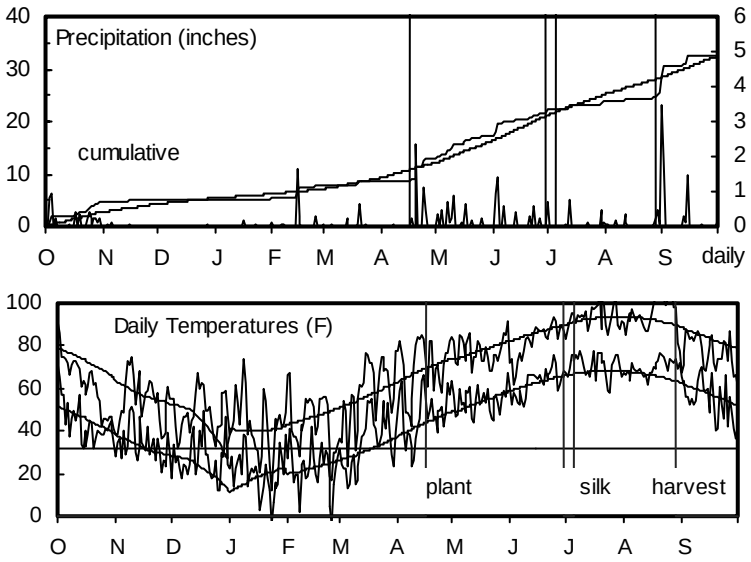


Table 13. Ottawa Short-Season Corn Performance Test, 2001-2003.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2002-2003		2003				
BRAND	NAME	2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	2003	2002	2001	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
PIONEER	35P12	47	55	103	51	68	138	117	115	74	11	73	10	103	--	51
CROPLAN GEN.	441RR	40	--	--	--	--	117	--	--	--	--	75	10	105	--	49
MYCOGEN	2M527	35	--	--	--	--	101	--	--	--	--	75	10	100	--	49
GARST	8787YG1	33	--	--	--	--	98	--	--	--	--	76	10	97	--	53
MYCOGEN	2G626	33	--	--	--	--	98	--	--	--	--	76	10	108	--	51
NC+	3451B	37	--	--	--	--	107	--	--	--	--	76	10	107	--	50
STINE	8016-23	38	--	--	--	--	110	--	--	--	--	76	10	96	--	47
NK	N58-D1	32	52	87	42	57	94	112	96	76	11	76	11	106	--	51
NK	N65-M7	32	48	--	40	--	93	102	--	76	11	76	11	107	--	53
PIONEER	34H31	42	--	--	--	--	124	--	--	--	--	76	11	98	--	54
PRODUCERS	7001BT	35	--	--	--	--	104	--	--	--	--	76	12	97	--	52
GARST	8545	37	--	--	--	--	110	--	--	--	--	76	13	101	--	50
PIONEER	34M95	41	53	--	47	--	120	114	--	77	11	77	11	108	--	53
MATURITY CHECK	SHORT - G8590	30	48	81	39	53	87	104	89	78	12	77	12	93	--	55
MATURITY CHECK	MID - H2649	30	41	107	35	59	88	88	118	79	12	78	12	95	--	50
MYCOGEN	2K690	30	--	--	--	--	88	--	--	--	--	78	12	110	--	51
STINE	8007-44	22	--	--	--	--	64	--	--	--	--	78	13	97	--	54
MATURITY CHECK	FULL - M798	20	35	100	28	52	59	76	111	80	15	79	14	97	--	51
	AVERAGES	34	47	90	40	57	34	47	90	77	12	76	11	101	--	51
	CV (%)	12	15	9	--	--	12	15	9	--	--	1	5	7	--	2
	LSD (0.05)**	6	10	12	--	--	17	21	13	--	--	1	1	10	--	1

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

SOUTHEAST KANSAS DRYLAND SHORT-SEASON CORN TEST

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

Parsons silt loam; Soybean in 2002

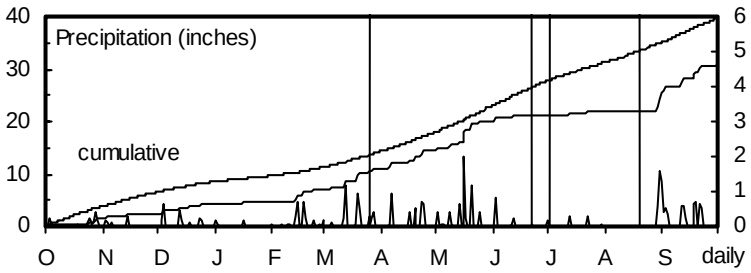
140 - 70 - 70 lb/a N, P, K

Planted on 3/27/03; Harvested on 8/18/03

Target stand of 20,000 plants/acre;10.5 in. spacing

Excellent conditions until mid-June, then hot and very dry until harvest.

	Precipitation		Average Temp.		GDU	
Month	2003	Norm.	2003	Norm.	2003	Norm.
Oct.-Mar.	11.2	14.1	41	43	153	130
April	3.3	3.7	58	57	336	288
May	5.5	5.0	66	66	511	487
June	1.4	4.8	73	74	687	717
July	0.7	3.5	83	80	902	834
August	3.5	3.9	83	78	895	815
Sept.	5.2	4.5	68	71	562	624
Totals:	30.8	39.4	57	57	4,044	3,894



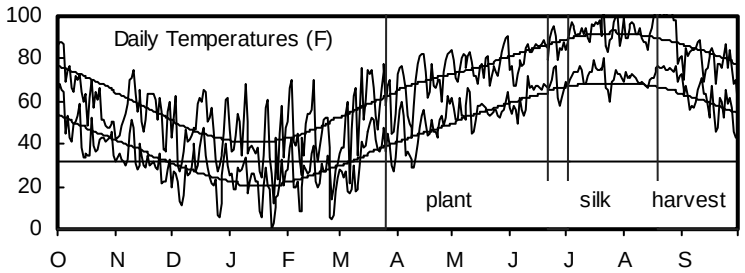


Table 14. Pittsburg Short-Season Corn Test, 2001-2003.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2002-2003		2003				
BRAND	NAME	2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	2003	2002	2001	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
DEKALB	DKC51-43	82	--	--	--	--	122	--	--	--	--	86	11	100	--	55
CROPLAN GEN.	441RR	71	--	--	--	--	105	--	--	--	--	86	13	103	--	55
DEKALB	DKC52-45YGCB	78	--	--	--	--	116	--	--	--	--	87	11	106	--	52
NC+	3451B	59	--	--	--	--	88	--	--	--	--	87	11	105	--	55
NK	N58-D1	92	128	163	110	128	136	102	107	88	13	87	13	101	--	56
MYCOGEN	2M527	72	--	--	--	--	107	--	--	--	--	88	11	103	--	53
GARST	8787YG1	70	--	--	--	--	104	--	--	--	--	88	12	97	--	57
MYCOGEN	2G626	74	--	--	--	--	111	--	--	--	--	88	12	106	--	55
MATURITY CHECK	SHORT - G8590	57	135	156	96	116	85	108	102	90	13	88	13	82	--	55
ASGROW	RX664RR/YG	71	--	--	--	--	106	--	--	--	--	88	14	104	--	54
PIONEER	35P12	87	150	152	118	130	130	119	100	90	13	88	14	95	--	55
GARST	8545	73	--	--	--	--	108	--	--	--	--	88	15	84	--	53
PIONEER	34H31	78	--	--	--	--	116	--	--	--	--	88	15	107	--	58
DEKALB	DKC60-19RR/YG	74	134	--	104	--	110	106	--	90	13	89	13	103	--	55
ASGROW	RX718RR/YG	64	--	--	--	--	95	--	--	--	--	89	14	109	--	57
PIONEER	34M95	76	133	--	105	--	113	106	--	91	14	89	14	95	--	57
GARST	8552YG1	64	--	--	--	--	95	--	--	--	--	90	14	98	--	53
MATURITY CHECK	MID - H2649	46	105	159	75	103	68	83	104	91	14	90	14	95	--	55
NK	N65-M7	76	137	--	106	--	112	109	--	91	14	90	14	106	--	55
MYCOGEN	2K690	50	--	--	--	--	75	--	--	--	--	92	14	99	--	55
NC+	6362B	29	--	--	--	--	43	--	--	--	--	95	19	89	--	52
MATURITY CHECK	FULL - M798	38	130	160	84	109	56	104	105	95	18	96	21	96	--	52
	AVERAGES	67	126	152	96	115	67	126	152	90	14	89	14	99	--	55
	CV (%)	9	10	6	--	--	9	10	6	--	--	1	6	7	--	1
	LSD (0.05)**	9	17	13	--	--	13	13	9	--	--	2	1	10	--	1

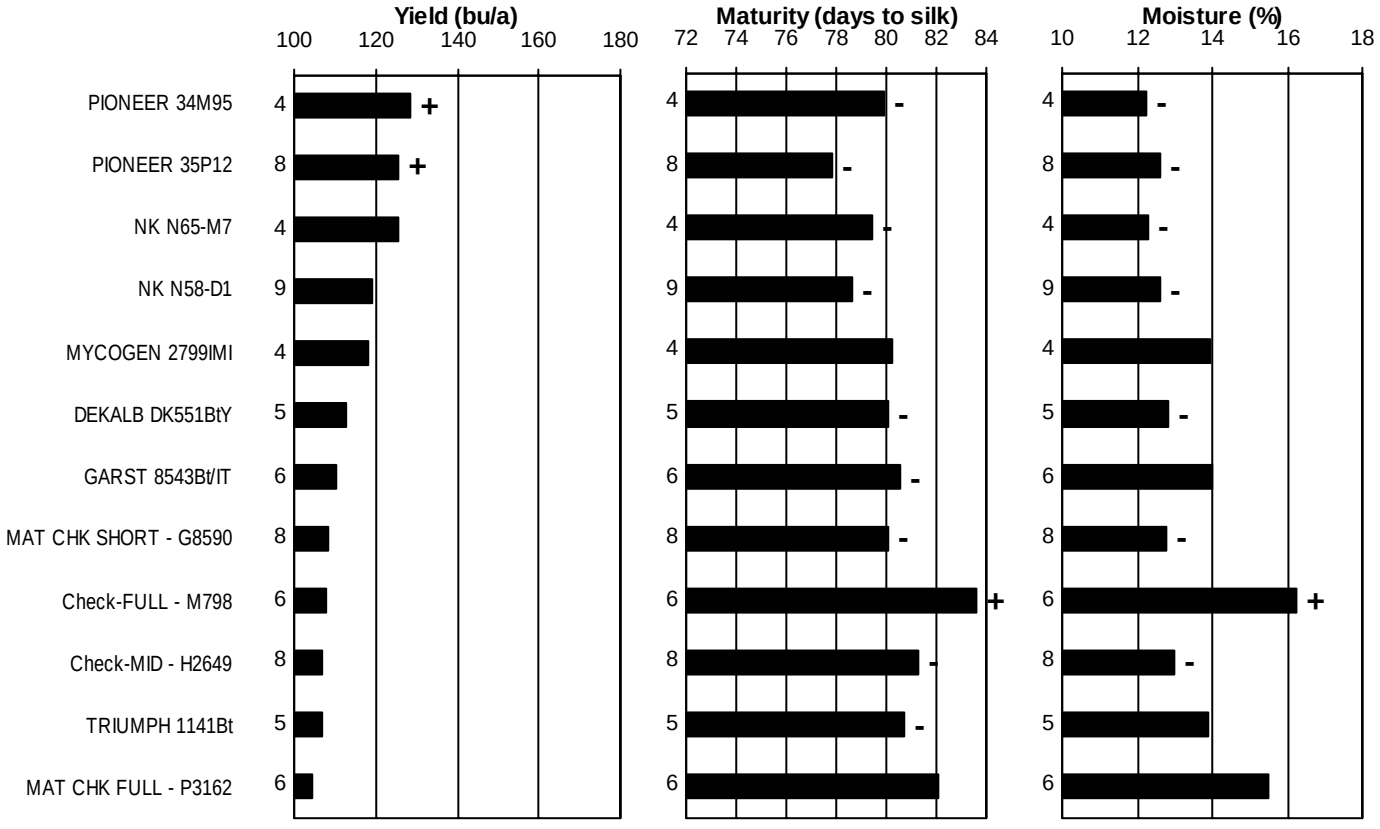
** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other.

Table 15. SOUTHEAST SHORT-SEASON corn hybrid yield summary (% of test average), 2003.

BRAND/NAME	OTT[1]	PIT	AVG.	BRAND/NAME	OTT[1]	PIT	AVG.
ASGROW				**NK**			
RX664RR/YG	--	106	--	N58-D1	94	136	115
RX718RR/YG	--	95	--	N65-M7	93	112	103
CROPLAN GEN.				**PIONEER**			
441RR	117	105	111	34H31	124	116	120
DEKALB				34M95	120	113	117
DKC51-43	--	122	--	35P12	138	130	134
DKC52-45YGCB	--	116	--	**PRODUCERS**			
DKC60-19RR/YGCB	--	110	--	7001BT	104	--	--
GARST				**STINE**			
8545	110	108	109	8007-44	64	--	--
8552YG1	--	95	--	8016-23	110	--	--
8787YG1	98	104	101	**MATURITY CHECK**			
MYCOGEN				FULL - M798	59	56	58
2G626	98	111	104	MID - H2649	88	68	78
2K690	88	75	81	SHORT - G8590	87	85	86
2M527	101	107	104				
NC+				AVERAGES (bu/a)	34	67	51
3451B	107	88	97	CV (%)	12	9	--
6362B	--	43	--	LSD (0.05)**	17	13	--

[1] OTT = Ottawa, Franklin Co. PIT = Pittsburg, Crawford Co.

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



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

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

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

Irwin silty clay loam; Wheat in 2002

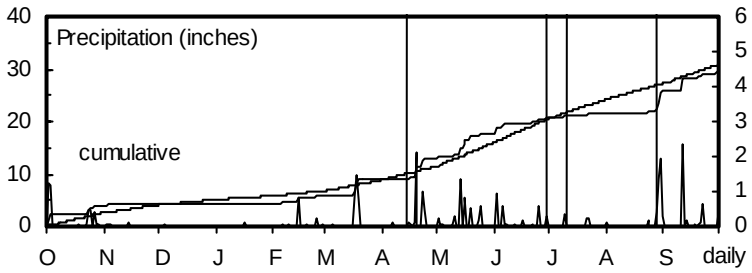
125 - 37 - 0 lb/a N, P, K

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

Target stand of 20,000 plants/acre;10.5 in. spacing

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

	Precipitation		Average Temp.		GDU	
Month	2003	Norm.	2003	Norm.	2003	Norm.
Oct.-Mar.	9.0	8.7	39	41	142	97
April	4.0	2.6	57	56	311	277
May	4.9	4.4	62	66	406	486
June	2.9	4.7	71	75	624	730
July	0.9	3.6	83	81	872	841
August	4.3	3.1	81	80	830	816
Sept.	3.8	3.7	65	71	468	623
Totals:	29.7	30.8	54	56	3,653	3,870



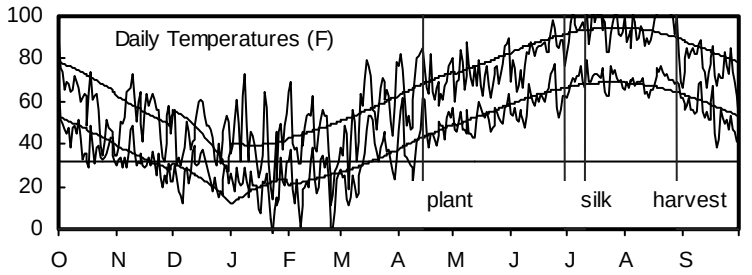


Table 16. Hesston Min-Till, Dryland Corn Test, 2001-2003.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2002-2003		2003				
BRAND	NAME	2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	2003	2002	2001	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
DEKALB	DKC51-43	23	--	--	--	--	166	--	--	--	--	75	10	111	9	51
DEKALB	DKC52-45YGCB	24	--	--	--	--	174	--	--	--	--	76	9	119	9	50
DEKALB	DKC57-84YGCB	20	--	--	--	--	140	--	--	--	--	76	10	107	5	52
MIDWEST SEED	G 7122	19	--	--	--	--	134	--	--	--	--	76	10	108	6	52
NK	N58-D1	14	--	--	--	--	103	--	--	--	--	76	10	113	3	52
PIONEER	35P15	18	--	--	--	--	129	--	--	--	--	76	10	97	15	54
GARST	8328Bt/IT	27	67	--	47	--	194	115	--	75	11	76	11	112	4	52
NK	N67-T4	9	69	37	39	38	68	118	124	75	11	76	11	110	3	56
GARST	8552YG1	12	--	--	--	--	88	--	--	--	--	77	10	110	1	49
TRIUMPH	3421RR	21	--	--	--	--	147	--	--	--	--	77	10	100	6	52
MYCOGEN	6920BT	11	--	32	--	--	79	--	109	--	--	77	11	112	1	55
MATURITY CHECK	SHORT - G8590	12	67	41	40	40	89	114	138	76	11	78	11	101	1	56
MIDWEST SEED	G 7716B	9	--	--	--	--	67	--	--	--	--	78	11	101	1	55
MYCOGEN	2A812	12	--	--	--	--	83	--	--	--	--	78	11	107	2	54
NK	N65-M7	16	61	--	39	--	117	105	--	76	11	78	11	108	3	55
NK	N70-T9	16	--	--	--	--	116	--	--	--	--	78	11	117	8	56
PIONEER	33B51	15	70	44	42	43	105	119	150	76	11	78	11	112	2	52
MATURITY CHECK	MID - H2649	20	49	42	35	37	146	84	143	78	10	79	10	103	1	53
MIDLAND	7B15	8	59	31	33	33	56	101	107	77	11	79	11	102	4	54
MYCOGEN	2G768	16	--	--	--	--	117	--	--	--	--	79	11	107	2	53
MIDLAND	7A14Bt	1	50	--	25	--	8	85	--	79	11	80	11	112	3	56
MATURITY CHECK	FULL - M798	8	47	27	28	27	56	81	93	81	13	82	12	108	12	55
PIONEER	31B13	8	64	21	36	31	58	110	70	80	11	83	10	112	1	52
NC+	5021RB	2	49	--	25	--	17	83	--	81	11	83	11	106	1	55
TRIUMPH	2011RR	6	--	--	--	--	43	--	--	--	--	86	10	106	3	37
	AVERAGES	14	59	30	36	34	14	59	30	77	11	78	11	108	4	53
	CV (%)	32	8	15	--	--	32	8	15	--	--	1	5	5	104	4
	LSD (0.05)**	6	6	6	--	--	44	11	21	--	--	1	1	8	6	3

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

SOUTH CENTRAL KANSAS IRRIGATED CORN TEST ON SILT LOAM SOIL

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

Crete silt loam; Soybean in 2002

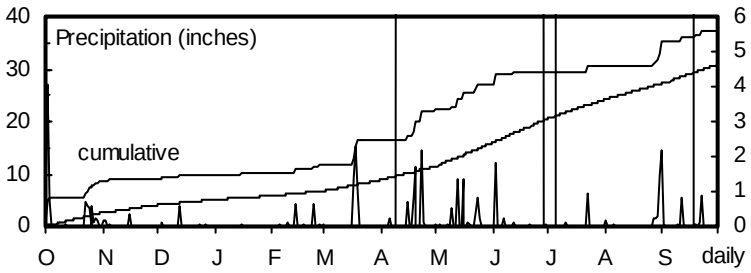
165 - 30 - 0 lb/a N, P, K

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

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

Excellent planting and growing conditions, combined with adequate irrigation, produced excellent yields.

	Precipitation		Average Temp.		GDU	
Month	2003	Norm.	2003	Norm.	2003	Norm.
Oct.-Mar.	16.3	8.7	39	41	142	97
April	5.9	2.6	55	56	298	277
May	5.0	4.4	62	66	414	486
June	2.3	4.7	72	75	627	730
July	1.1	3.6	83	81	863	841
August	4.8	3.1	81	80	828	816
Sept.	2.2	3.7	65	71	477	623
Totals:	37.4	30.8	54	56	3,649	3,870



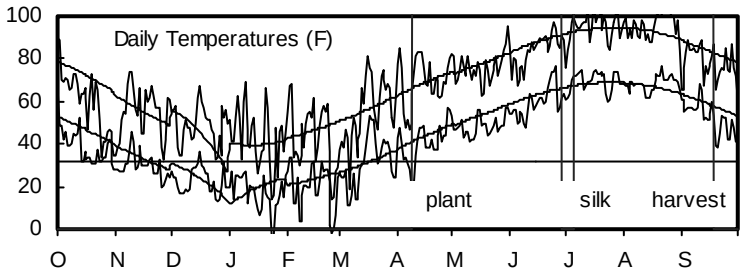


Table 17. Inman Irrigated Corn Performance Test, 2001-2003.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2002-2003		2003				
BRAND	NAME	2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	2003	2002	2001	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
DEKALB	DKC60-19RR/YG	221	--	--	--	--	99	--	--	--	--	79	17	105	1	59
ASGROW	RX752YG	234	--	--	--	--	104	--	--	--	--	79	18	103	7	58
DEKALB	DKC63-50YGCB	228	--	--	--	--	101	--	--	--	--	79	18	107	2	58
NK	N65-M7	235	--	--	--	--	105	--	--	--	--	80	17	100	2	58
GARST	8510YG1/RR	211	--	--	--	--	94	--	--	--	--	80	18	102	0	58
MIDLAND	7B15	225	125	190	175	180	100	106	105	79	16	80	18	101	3	57
NK	N70-F1	228	--	--	--	--	101	--	--	--	--	80	18	100	2	57
MATURITY CHECK	SHORT - G8590	205	116	168	160	163	91	99	93	79	14	81	17	103	4	59
MIDWEST SEED	G 8070B	216	131	--	174	--	96	112	--	79	15	81	17	90	6	58
MYCOGEN	2R773	228	--	--	--	--	102	--	--	--	--	81	17	102	1	59
MIDWEST SEED	G 8125B	219	--	--	--	--	98	--	--	--	--	81	18	102	1	57
NK	N72-J5	238	122	198	180	186	106	104	109	79	16	81	18	105	3	57
MATURITY CHECK	MID - H2649	215	82	176	148	158	96	70	98	80	14	82	16	100	4	58
GARST	8383YG1	221	114	--	167	--	98	97	--	80	16	82	18	99	2	59
GARST	8454YG1	225	--	--	--	--	100	--	--	--	--	82	18	99	1	56
MIDLAND	7A14Bt	227	108	--	168	--	101	92	--	80	15	82	18	104	0	57
NC+	5433RB	217	--	--	--	--	97	--	--	--	--	82	18	99	0	58
MYCOGEN	2A812	226	--	--	--	--	101	--	--	--	--	83	18	103	1	56
MIDLAND	7A28Bt	230	--	--	--	--	102	--	--	--	--	83	19	101	2	54
CROPLAN GEN.	818RRBT	238	--	--	--	--	106	--	--	--	--	83	20	102	2	56
GARST	8288	230	126	--	178	--	103	107	--	81	18	83	21	105	1	57
NC+	5021RB	214	132	--	173	--	95	112	--	83	15	84	16	95	6	58
MATURITY CHECK	FULL - M798	212	111	171	161	165	95	94	95	83	17	84	19	96	7	58
TRIUMPH	1866Bt	217	124	172	171	171	97	106	95	83	18	84	19	97	2	59
PIONEER	31A13	238	144	--	191	--	106	122	--	83	18	84	20	106	2	59
PIONEER	33P67	241	--	--	--	--	107	--	--	--	--	84	20	109	0	60
PIONEER	33R77	220	138	199	179	186	98	117	110	83	16	85	19	93	2	56
	AVERAGES	224	117	180	171	174	224	117	180	80	16	82	18	101	2	58
	CV (%)	6	15	6	--	--	6	15	6	--	--	1	2	7	163	1
	LSD (0.05)**	19	25	16	--	--	8	22	9	--	--	1	1	9	5	1

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

SOUTH CENTRAL KANSAS IRRIGATED CORN TEST ON SANDY LOAM SOIL

Evans Seed Farm; Bill Heer, agronomist

Punkin silt loam; Soybean in 2002

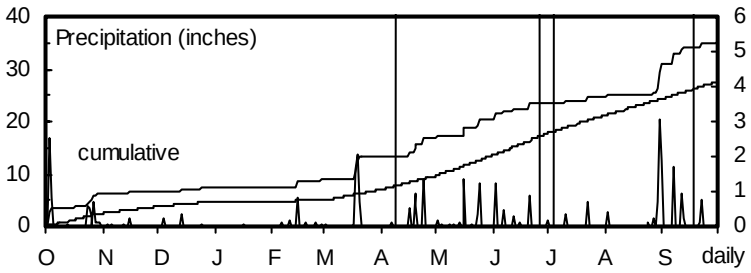
200 - 30 - 0 lb/a N, P, K

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

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

Favorable spring and early summer conditions, along with adequate irrigation in July and August, set up the test for excellent yields.

	Precipitation		Average Temp.		GDU	
Month	2003	Norm.	2003	Norm.	2003	Norm.
Oct.-Mar.	13.3	6.9	39	41	126	107
April	3.6	2.6	56	56	308	275
May	3.5	3.9	63	65	428	466
June	3.2	4.3	71	75	615	717
July	1.1	3.4	82	81	853	834
August	6.5	3.1	81	79	833	803
Sept.	4.0	3.3	65	70	465	600
Totals:	35.1	27.5	55	56	3,627	3,801



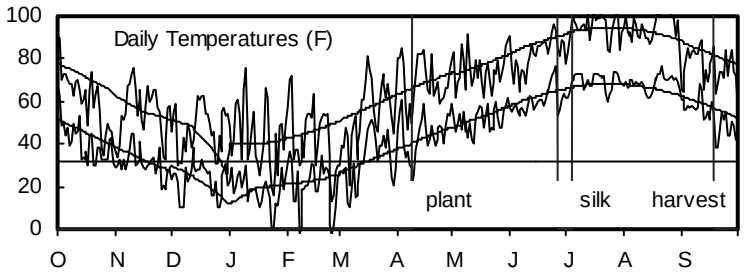


Table 18. Hutchinson Irrigated Corn Performance Test, 2001-2003.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2002-2003		2003				
BRAND	NAME	2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	2003	2002	2001	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
NK	N65-M7	215	--	--	--	--	100	--	--	--	--	77	16	109	--	58
MATURITY CHECK	SHORT - G8590	192	--	--	--	--	90	--	--	--	--	78	16	107	--	59
MIDLAND	7A14Bt	218	--	--	--	--	102	--	--	--	--	78	17	111	--	58
MIDLAND	7B15	230	--	--	--	--	107	--	--	--	--	78	17	106	--	58
MIDWEST SEED	G 8070B	206	--	--	--	--	96	--	--	--	--	78	17	98	--	58
NK	N72-J5	216	--	--	--	--	101	--	--	--	--	78	17	106	--	58
MIDWEST SEED	G 8125B	217	--	--	--	--	101	--	--	--	--	78	18	105	--	57
NK	N67-T4	210	--	--	--	--	98	--	--	--	--	79	17	106	--	58
MYCOGEN	2A812	204	--	--	--	--	95	--	--	--	--	80	17	105	--	56
NK	N70-F1	222	--	--	--	--	103	--	--	--	--	80	17	109	--	57
MATURITY CHECK	MID - H2649	192	--	--	--	--	89	--	--	--	--	81	16	103	--	58
MATURITY CHECK	FULL - M798	208	--	--	--	--	97	--	--	--	--	81	18	102	--	59
MIDLAND	7A28Bt	230	--	--	--	--	107	--	--	--	--	82	18	104	--	54
MYCOGEN	7821BT	209	--	--	--	--	97	--	--	--	--	82	18	110	--	59
CROPLAN GEN.	818RRBT	241	--	--	--	--	112	--	--	--	--	82	20	107	--	56
PIONEER	33R77	216	--	--	--	--	101	--	--	--	--	83	18	106	--	56
PIONEER	31A13	224	--	--	--	--	104	--	--	--	--	83	20	110	--	60
PIONEER	31N27	224	--	--	--	--	104	--	--	--	--	83	20	100	--	58
NC+	6362B	204	--	--	--	--	95	--	--	--	--	84	18	106	--	57
	AVERAGES	215	--	--	--	--	215	--	--	--	--	80	18	106	--	58
	CV (%)	6	--	--	--	--	6	--	--	--	--	1	2	4	--	1
	LSD (0.05)**	20	--	--	--	--	9	--	--	--	--	1	--	6	--	1

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

SOUTH CENTRAL KANSAS IRRIGATED CORN TEST ON SANDY LOAM SOIL

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

Naron loamy fine sand; Corn in 2002

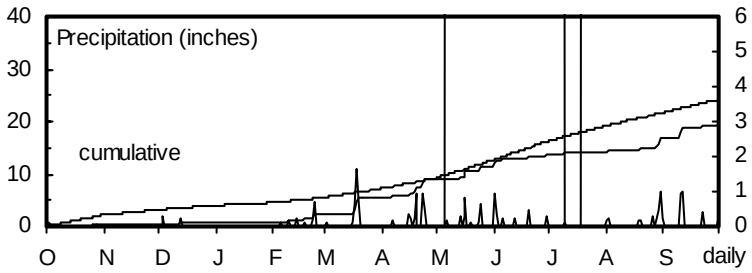
225 - 0 - 0 lb/a N, P, K

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

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

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

	Precipitation		Average Temp.		GDU	
Month	2003	Norm.	2003	Norm.	2003	Norm.
Oct.-Mar.	5.5	7.2	40	42	150	132
April	3.4	2.0	57	57	311	308
May	2.4	3.4	63	66	434	506
June	2.5	3.7	72	76	633	730
July	0.1	2.9	84	79	860	825
August	3.0	2.5	81	78	811	760
Sept.	2.7	2.5	66	69	496	559
Totals:	19.7	24.1	55	57	3,695	3,819



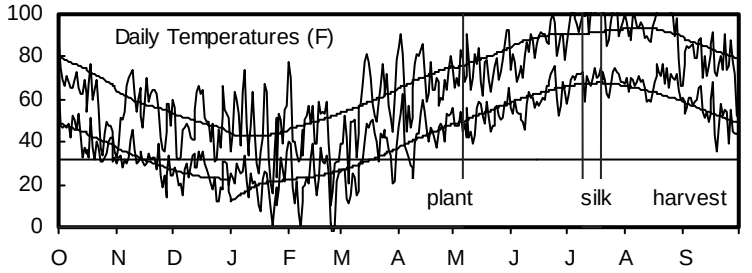


Table 19. St. John Irrigated Corn Performance Test, 2001-2003.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2002-2003		2003				
BRAND	NAME	2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	2003	2002	2001	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
ASGROW	RX752YG	187	--	--	--	--	102	--	--	--	--	64	14	113	0	--
DEKALB	DKC63-50YGCB	190	--	--	--	--	103	--	--	--	--	64	14	112	2	--
MATURITY CHECK	SHORT - G8590	173	161	187	167	174	94	88	100	69	14	65	14	103	1	--
MIDWEST SEED	G 8125B	186	--	--	--	--	101	--	--	--	--	65	14	103	1	--
MYCOGEN	6920BT	201	--	230	--	--	110	--	123	--	--	65	14	108	0	--
FONTANELLE	HC-7951Bt	193	--	--	--	--	105	--	--	--	--	66	14	105	0	--
MYCOGEN	2G768	194	--	--	--	--	106	--	--	--	--	66	14	109	0	--
NK	N70-F1	182	--	--	--	--	99	--	--	--	--	66	14	106	0	--
NK	N70-T9	209	--	--	--	--	114	--	--	--	--	66	15	113	0	--
GARST	8510YG1/RR	201	--	--	--	--	110	--	--	--	--	67	14	111	1	--
MATURITY CHECK	MID - H2649	148	161	164	154	157	80	88	87	70	13	67	14	105	1	--
MIDWEST SEED	G 8070B	198	205	--	202	--	108	112	--	70	14	67	14	108	0	--
TRIUMPH	1416Bt	186	--	--	--	--	101	--	--	--	--	67	14	109	1	--
FONTANELLE	5652	168	--	--	--	--	91	--	--	--	--	68	14	100	1	--
FONTANELLE	5800	175	170	--	173	--	95	93	--	72	14	68	14	107	1	--
FONTANELLE	HC-7987Bt	184	--	--	--	--	100	--	--	--	--	68	14	102	0	--
GARST	8371	181	--	--	--	--	99	--	--	--	--	68	14	95	3	--
GARST	8383YG1	197	199	--	198	--	107	109	--	71	13	68	14	101	0	--
GARST	8454YG1	170	--	--	--	--	93	--	--	--	--	68	14	101	2	--
MIDLAND	7A04Bt	166	189	--	177	--	90	103	--	72	14	68	14	112	1	--
NC+	5433RB	194	--	--	--	--	105	--	--	--	--	68	14	103	1	--
PIONEER	31N27	187	186	--	187	--	102	102	--	72	14	68	14	96	5	--
PIONEER	33P67	195	--	--	--	--	106	--	--	--	--	68	14	102	2	--
CROPLAN GEN.	818RRBT	185	--	--	--	--	101	--	--	--	--	68	15	109	0	--
PIONEER	31A13	185	215	210	200	203	100	118	112	72	14	69	15	109	1	--
MATURITY CHECK	FULL - M798	179	170	177	174	175	97	93	94	74	14	70	14	102	4	--
NC+	5021RB	189	198	--	193	--	103	108	--	73	13	70	14	106	1	--
TRIUMPH	1866Bt	170	164	196	167	176	92	90	104	74	14	70	14	100	2	--
DEKALB	DKC68-70YGCB	194	211	--	203	--	105	115	--	75	15	70	15	101	3	--
DEKALB	DKC69-70YGCB	145	197	--	171	--	79	108	--	77	15	73	14	110	2	--
	AVERAGES	184	183	188	183	185	184	183	188	71	14	68	14	105	1	--
	CV (%)	10	12	8	--	--	10	12	8	--	--	2	4	6	142	--
	LSD (0.05)**	25	31	21	--	--	14	17	11	--	--	1	1	8	2	--

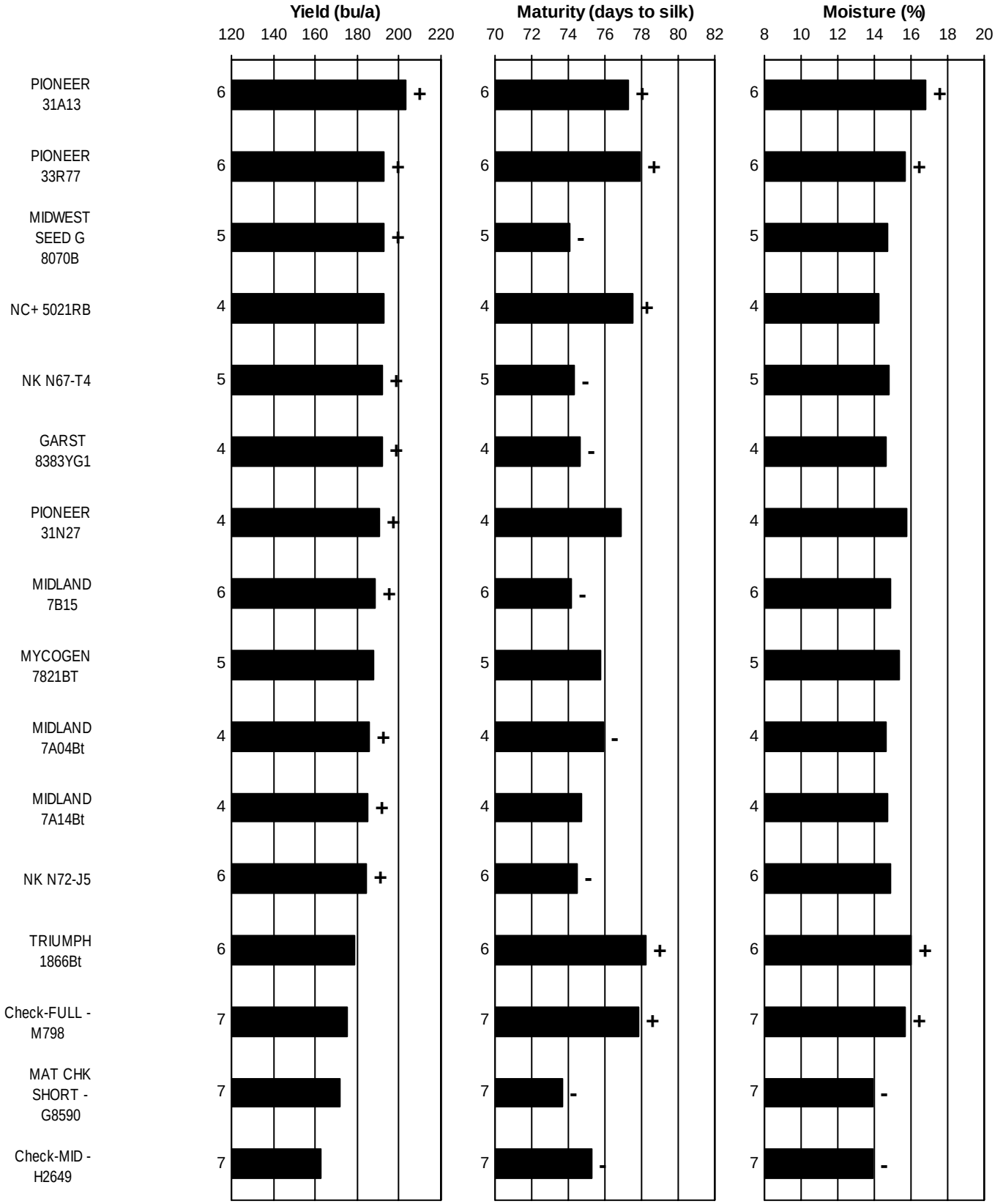
** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other.

Table 20. CENTRAL IRRIGATED corn hybrid yield summary (% of test average), 2003.

BRAND/NAME	INM[1]	HUT	STJ	AVG.
ASGROW				
RX752YG	104	--	102	--
CROPLAN GEN.				
818RRBT	106	112	101	106
DEKALB				
DKC60-19RR/YGCB	99	--	--	--
DKC63-50YGCB	101	--	103	--
DKC68-70YGCB	--	--	105	--
DKC69-70YGCB	--	--	79	--
FONTANELLE				
5652	--	--	91	--
5800	--	--	95	--
HC-7951Bt	--	--	105	--
HC-7987Bt	--	--	100	--
GARST				
8288	103	--	--	--
8371	--	--	99	--
8383YG1	98	--	107	--
8454YG1	100	--	93	--
8510YG1/RR	94	--	110	--
MIDLAND				
7A04Bt	--	--	90	--
7A14Bt	101	102	--	--
7A28Bt	102	107	--	--
7B15	100	107	--	--
MIDWEST SEED				
G 8070B	96	96	108	100
G 8125B	98	101	101	100
MYCOGEN				
2A812	101	95	--	--
2G768	--	--	106	--
2R773	102	--	--	--
6920BT	--	--	110	--
7821BT	--	97	--	--
NC+				
5021RB	95	--	103	--
5433RB	97	--	105	--
6362B	--	95	--	--
NK				
N65-M7	105	100	--	--
N67-T4	--	98	--	--
N70-F1	101	103	99	101
N70-T9	--	--	114	--
N72-J5	106	101	--	--
PIONEER				
31A13	106	104	100	104
31N27	--	104	102	--
33P67	107	--	106	--
33R77	98	101	--	--
TRIUMPH				
1416Bt	--	--	101	--
1866Bt	97	--	92	--
MATURITY CHECK				
FULL - M798	95	97	97	96
MID - H2649	96	89	80	88
SHORT - G8590	91	90	94	92
AVERAGES (bu/a)	224	215	184	208
CV (%)	6	6	10	--
LSD (0.05)**	8	9	14	--

[1] INM = Inman, McPherson Co. HUT = Hutchinson, Reno Co. STJ = St. John, Stafford Co.

Figure 8. CENTRAL Kansas IRRIGATED corn hybrid standardized performance summary, 2001-2003.



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

NORTH CENTRAL KANSAS NO-TILL, DRYLAND CORN TEST

KSU Agricultural Research Center - Hays; Ken Kofoid, agronomist

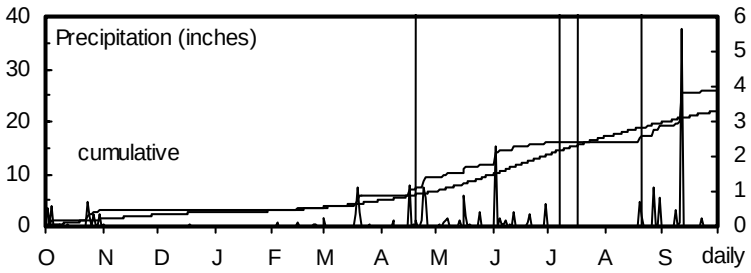
Harney clay loam; Soybean in 2002

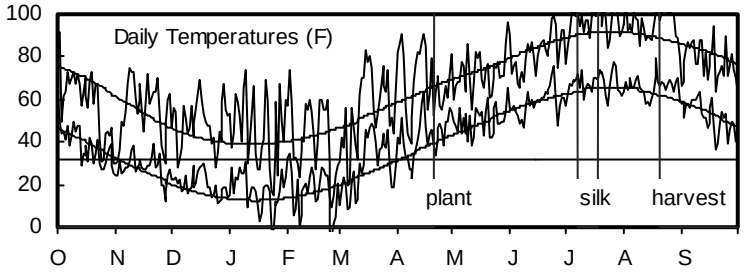
65 - 0 - 0 lb/a N, P, K

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

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

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





Month	Precipitation 2003	Precipitation Norm.	Average Temp. 2003	Average Temp. Norm.	GDU 2003	GDU Norm.
Oct.-Mar.	5.8	4.8	38	36	156	44
April	3.7	1.8	55	51	297	210
May	2.3	3.1	62	62	391	388
June	4.5	3.8	70	72	575	643
July	0.0	3.4	83	78	831	784
August	3.0	2.8	80	76	789	757
Sept.	6.5	2.2	65	68	469	531
Totals:	25.8	21.9	54	52	3,508	3,356

Table 21. Hays Dryland Corn Performance Test, 2000-2003.

BRAND	NAME	ACRE YIELD, BUSHELS 2003	2001	2000	2-Yr. AVG.	3-Yr. AVG.	YIELD AS % OF TEST AVERAGE 2003	2001	2000	2001-2003 Days to Silk	2001-2003 Grain Moist. %	2003 Days to Silk	2003 Forage Moist. %	2003 Forage Yield lb DM/acre
DEKALB	DKC51-43	13	--	--	--	--	159	--	--	--	--	76	70	3839
FONTANELLE	HC-7764RR	24	--	--	--	--	297	--	--	--	--	78	69	4184
PIONEER	33B51	13	51	101	32	55	154	123	120	78	--	78	70	3948
DEKALB	DKC52-45YGCB	17	--	--	--	--	202	--	--	--	--	80	70	3485
MATURITY CHECK	SHORT - G8590	7	39	75	23	40	80	94	89	80	--	80	73	3830
DEKALB	DKC57-84YGCB	12	--	--	--	--	150	--	--	--	--	81	71	3866
MATURITY CHECK	MID - H2649	9	40	78	24	42	104	97	93	82	--	81	72	3848
CROPLAN GEN.	705RR	6	--	--	--	--	78	--	--	--	--	82	73	3639
PIONEER	34M95	6	--	--	--	--	74	--	--	--	--	82	70	4084
PIONEER	34N44	4	--	--	--	--	50	--	--	--	--	82	68	3657
NC+	5433RB	2	--	--	--	--	24	--	--	--	--	83	74	3430
NC+	6362B	3	--	--	--	--	38	--	--	--	--	83	74	3694
TRIUMPH	1120BtRR	3	--	--	--	--	32	--	--	--	--	83	75	3376
NC+	4990B	3	--	--	--	--	39	--	--	--	--	84	72	3512
MATURITY CHECK	FULL - M798	1	58	77	30	46	18	140	91	87	--	87	76	4565
	AVERAGES	8	42	85	25	45	8	42	85	81	--	81	72	3797
	CV (%)	47	11	10	--	--	47	11	10	--	--	1	3	11
	LSD (0.05)**	5	10	11	--	--	67	23	13	--	--	2	3	609

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

NORTHWEST KANSAS IRRIGATED CORN TEST ON SILT LOAM SOIL

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

Keith silt loam; Sunflower in 2002

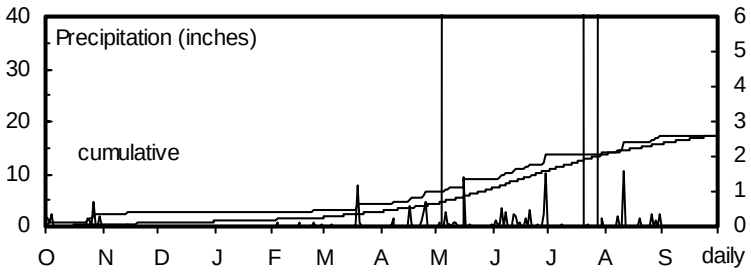
225 - 60 - 0 lb/a N, P, K

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

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

Good spring moisture and stand establishment. Hot, dry summer; spider mites caused some damage.

	Precipitation		Average Temp.		GDU	
Month	2003	Norm.	2003	Norm.	2003	Norm.
Oct.-Mar.	4.4	2.8	37	36	162	22
April	2.2	1.4	52	49	278	193
May	2.3	2.9	60	60	370	357
June	4.7	3.5	68	70	525	599
July	0.4	3.1	80	76	769	750
August	3.0	2.1	77	74	730	710
Sept.	0.0	1.6	64	65	479	474
Totals:	17.1	17.4	52	51	3,311	3,105



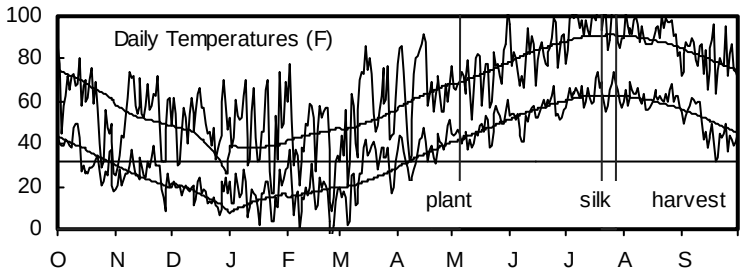


Table 22. Colby Irrigated Corn Performance Test, 2001-2003.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2002-2003		2003				
BRAND	NAME	2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	2003	2002	2001	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
RENZE	8244YGCB	191	--	--	--	--	79	--	--	--	--	76	15	121	4	57
GARST	8545	212	--	--	--	--	88	--	--	--	--	76	16	117	26	55
MATURITY CHECK	SHORT - G8590	232	236	236	234	235	96	89	96	76	17	76	18	119	1	56
AGSOURCE	6163Bt	210	--	--	--	--	87	--	--	--	--	76	19	114	6	53
DEKALB	DKC60-19RR/YG	234	--	--	--	--	97	--	--	--	--	76	19	121	4	55
DEKALB	DKC63-50YGCB	233	--	--	--	--	97	--	--	--	--	76	19	123	7	54
ASGROW	RX752YG	233	--	--	--	--	96	--	--	--	--	76	20	120	6	54
DEKALB	DKC58-24RR/YG	224	--	--	--	--	93	--	--	--	--	77	17	118	1	57
GARST	8461	224	--	--	--	--	93	--	--	--	--	77	19	118	4	52
FONTANELLE	5591	220	265	251	243	245	91	100	102	76	19	77	20	120	4	52
OTTILIE	5216Bt	228	--	--	--	--	94	--	--	--	--	77	20	121	11	54
PIONEER	34N44	241	--	--	--	--	100	--	--	--	--	77	20	116	0	54
AGSOURCE	6883Bt	244	--	--	--	--	101	--	--	--	--	77	21	113	7	52
NK	N70-F1	225	--	--	--	--	93	--	--	--	--	77	21	117	2	52
RENZE	8454YGCB	265	--	--	--	--	110	--	--	--	--	77	23	116	2	51
AGSOURCE	6183Bt	234	--	--	--	--	97	--	--	--	--	78	20	114	4	53
FONTANELLE	5234	214	--	--	--	--	89	--	--	--	--	78	20	119	2	52
PIONEER	33B51	258	--	244	--	--	107	--	100	--	--	78	20	120	0	54
RENZE	8364YGCB	229	--	--	--	--	95	--	--	--	--	78	20	116	0	52
TRIUMPH	1120BtRR	256	266	247	261	256	106	100	101	77	19	78	20	117	1	55
FONTANELLE	5282	230	285	--	257	--	95	108	--	77	19	78	21	116	7	52
KAYSTAR	KX-8770Bt	245	--	--	--	--	101	--	--	--	--	78	21	114	1	53
MIDWEST SEED	G 8070B	256	--	--	--	--	106	--	--	--	--	78	21	119	0	52
NC+	4990B	234	--	243	--	--	97	--	99	--	--	78	21	121	6	53

(continued)

Table 22. Colby Irrigated Corn Performance Test, 2001-2003 - continued.

BRAND	NAME	ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2002-2003		2003				
		2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	2003	2002	2001	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
OTTILIE	5267Bt	234	274	249	254	252	97	104	101	77	19	78	21	120	2	53
PRODUCERS	7321BT	231	--	--	--	--	96	--	--	--	--	78	21	119	4	52
RENZE	6363	230	--	--	--	--	95	--	--	--	--	78	21	119	1	52
RENZE	6386	229	--	--	--	--	95	--	--	--	--	78	21	122	1	53
CROPLAN GEN.	699BtLL	238	--	--	--	--	99	--	--	--	--	78	22	118	5	51
FONTANELLE	HC-7951Bt	268	--	--	--	--	111	--	--	--	--	78	22	118	7	51
LG SEEDS	LG2619BT	267	--	--	--	--	111	--	--	--	--	78	22	118	2	51
MIDWEST SEED	G 8125B	267	--	--	--	--	110	--	--	--	--	78	22	116	2	51
MYCOGEN	2R773	274	--	--	--	--	113	--	--	--	--	78	22	122	0	52
NK	N70-T9	252	--	--	--	--	104	--	--	--	--	78	22	121	0	51
OTTILIE	5436Bt	277	--	--	--	--	115	--	--	--	--	78	22	121	1	51
PRODUCERS	7371BT	269	--	--	--	--	111	--	--	--	--	78	22	120	2	51
RENZE	6424	263	--	--	--	--	109	--	--	--	--	78	22	122	5	51
HAWKEYE	02-880BT	262	--	--	--	--	109	--	--	--	--	78	23	121	0	51
TRIUMPH	1416Bt	242	--	--	--	--	100	--	--	--	--	79	20	113	1	52
CROPLAN GEN.	691BTLL	238	--	--	--	--	99	--	--	--	--	79	21	120	0	51
OTTILIE	5334Bt	235	--	--	--	--	97	--	--	--	--	79	21	123	1	52
AGSOURCE	6203Bt	260	--	--	--	--	107	--	--	--	--	79	22	117	1	53
NC+	5202B	253	282	--	268	--	105	107	--	78	20	79	22	121	0	52
NK	N72-J5	237	287	261	262	262	98	109	106	76	20	79	22	120	2	51
RENZE	9384YGCB/RR	256	--	--	--	--	106	--	--	--	--	79	22	122	0	52
NC+	5433RB	241	--	--	--	--	100	--	--	--	--	79	23	117	1	52
OTTILIE	5437RRBt	251	--	--	--	--	104	--	--	--	--	79	24	117	5	50
MATURITY CHECK	MID - H2649	223	244	247	234	238	92	92	101	78	18	80	20	109	1	53
MYCOGEN	2A812	245	--	--	--	--	102	--	--	--	--	80	20	122	2	51
GARST	8288	268	283	--	276	--	111	107	--	79	20	80	22	121	0	53
GARST	8383YG1	261	--	--	--	--	108	--	--	--	--	80	22	116	0	53
CROPLAN GEN.	818RRBT	256	--	--	--	--	106	--	--	--	--	80	23	120	0	51
FONTANELLE	5800	245	293	--	269	--	101	111	--	79	21	80	23	117	3	50
FONTANELLE	HC-7987Bt	233	--	--	--	--	96	--	--	--	--	80	23	119	7	52
AGSOURCE	7783Bt	244	--	--	--	--	101	--	--	--	--	80	24	114	2	49
PIONEER	33P67	269	302	--	286	--	111	114	--	79	20	81	22	118	0	55
PREMIUM	P234	272	--	--	--	--	112	--	--	--	--	81	22	116	0	55
MATURITY CHECK	FULL - M798	212	261	255	237	243	88	99	104	82	21	82	22	116	11	53
TRIUMPH	1866Bt	208	267	251	237	242	86	101	102	81	21	82	22	118	14	53
NC+	6362B	228	--	--	--	--	94	--	--	--	--	82	23	124	3	50
FONTANELLE	5652	233	--	--	--	--	97	--	--	--	--	82	25	111	1	49
	AVERAGES	242	264	246	253	251	242	264	246	77	19	78	21	118	3	52
	CV (%)	7	8	5	--	--	7	8	5	--	--	1	5	3	143	2
	LSD (0.05)**	24	30	19	--	--	10	11	8	--	--	2	2	5	6	1

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

WEST CENTRAL KANSAS IRRIGATED CORN TEST ON SILT LOAM SOIL

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

Ulysses silt loam; Sorghum in 2002

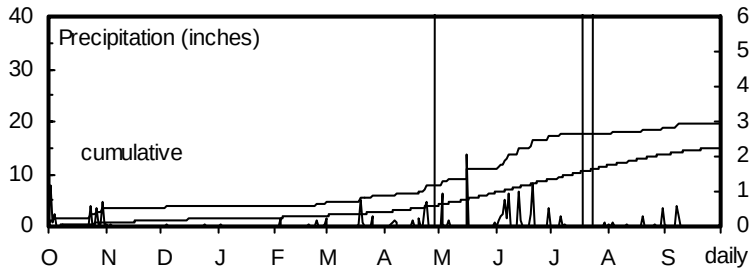
185 - 17 - 0 lb/a N, P, K

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

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

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

	Precipitation		Average Temp.		GDU	
Month	2003	Norm.	2003	Norm.	2003	Norm.
Oct.-Mar.	5.8	2.7	39	37	163	78
April	2.0	1.3	53	49	289	227
May	3.4	2.3	61	60	396	386
June	6.0	2.6	68	70	530	589
July	0.6	2.5	80	76	758	721
August	1.1	2.2	78	74	716	694
Sept.	0.9	1.3	64	66	474	497
Totals:	19.7	15.0	53	52	3,325	3,191



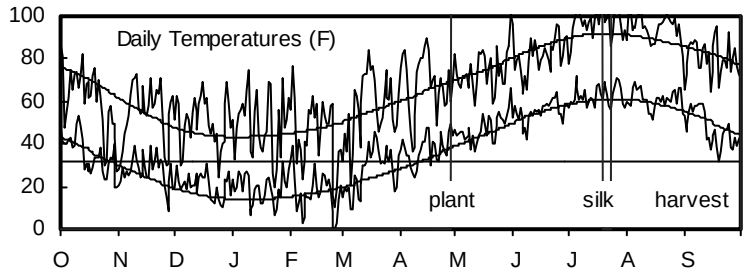


Table 23. Tribune Irrigated Corn Performance Test, 2001-2003.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2002-2003		2003				
BRAND	NAME	2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	2003	2002	2001	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
GARST	8545	183	--	--	--	--	85	--	--	--	--	80	23	83	6	53
FONTANELLE	5591	218	148	226	183	197	102	101	106	82	25	80	25	95	6	52
PIONEER	34N44	216	--	--	--	--	101	--	--	--	--	80	26	89	0	53
RENZE	8244YGCB	181	--	--	--	--	84	--	--	--	--	81	21	94	0	54
MATURITY CHECK	SHORT - G8590	179	130	210	155	173	84	89	99	83	22	81	22	89	6	53
RENZE	6386	221	--	--	--	--	103	--	--	--	--	81	25	103	5	52
OTTILIE	5267Bt	210	--	234	--	--	98	--	110	--	--	81	26	96	1	52
RENZE	8364YGCB	213	--	--	--	--	99	--	--	--	--	81	27	90	0	51
FONTANELLE	5234	193	--	--	--	--	90	--	--	--	--	82	25	87	7	52
RENZE	6363	207	--	--	--	--	97	--	--	--	--	82	25	92	8	51
RENZE	9363YGCB/RR	213	--	--	--	--	99	--	--	--	--	82	25	92	0	51
TRIUMPH	1120BtRR	215	143	233	179	197	100	98	109	84	26	82	25	91	0	52
TRIUMPH	1302RW	183	--	--	--	--	85	--	--	--	--	82	25	89	8	51
FONTANELLE	5282	201	141	--	171	--	94	96	--	84	26	82	26	89	9	51
TRIUMPH	1416Bt	224	--	--	--	--	105	--	--	--	--	82	26	99	1	51
MYCOGEN	7821BT	250	202	--	226	--	117	138	--	84	27	82	27	105	1	52
NK	N70-T9	225	--	--	--	--	105	--	--	--	--	82	27	97	0	51
PIONEER	33B51	245	--	209	--	--	114	--	98	--	--	82	27	98	2	53
RENZE	6424	210	--	--	--	--	98	--	--	--	--	82	27	96	10	52
RENZE	8381YGCB	205	--	--	--	--	95	--	--	--	--	82	27	91	4	52
GARST	8371	209	--	--	--	--	97	--	--	--	--	82	28	93	9	52
GARST	8510YG1/RR	217	--	--	--	--	101	--	--	--	--	82	28	95	0	51
CROPLAN GEN.	691BTLL	211	--	--	--	--	98	--	--	--	--	82	29	97	0	51

(continued)

Table 23. Tribune Irrigated Corn Performance Test, 2001-2003 - continued.

BRAND	NAME	ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2002-2003		2003				
		2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	2003	2002	2001	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
LG SEEDS	LG2619BT	230	--	--	--	--	107	--	--	--	--	82	29	87	0	51
NK	N70-F1	216	--	--	--	--	101	--	--	--	--	82	30	85	1	51
RENZE	9454YGCB/RR	224	--	--	--	--	104	--	--	--	--	82	30	89	0	51
NC+	5423B	235	--	--	--	--	110	--	--	--	--	82	31	88	0	51
OTTILIE	5436Bt	224	--	--	--	--	105	--	--	--	--	82	31	88	0	51
OTTILIE	5437RRBt	221	--	--	--	--	103	--	--	--	--	82	31	90	2	51
RENZE	8454YGCB	237	--	--	--	--	111	--	--	--	--	82	31	92	0	51
OTTILIE	5334Bt	230	--	--	--	--	107	--	--	--	--	83	28	100	0	51
RENZE	9384YGCB/RR	224	--	--	--	--	105	--	--	--	--	83	28	95	0	52
RENZE	8383YGCB	234	--	--	--	--	109	--	--	--	--	83	29	99	0	52
FONTANELLE	5800	204	148	--	176	--	95	101	--	85	29	83	30	98	12	51
KAYSTAR	KX-8770Bt	215	--	--	--	--	100	--	--	--	--	83	30	84	0	52
CROPLAN GEN.	818RRBT	221	--	--	--	--	103	--	--	--	--	83	32	94	0	51
OTTILIE	5216Bt	224	--	--	--	--	105	--	--	--	--	83	33	95	0	51
MATURITY CHECK	MID - H2649	178	113	204	145	165	83	77	96	85	25	84	26	87	3	52
NK	N72-J5	212	132	236	172	193	99	90	111	84	26	84	27	88	6	51
MYCOGEN	2A812	232	--	--	--	--	108	--	--	--	--	84	29	97	2	50
NC+	5202B	233	152	--	193	--	109	104	--	85	30	84	30	98	1	51
PIONEER	33P67	211	182	--	196	--	98	124	--	85	29	84	30	88	0	53
FONTANELLE	5652	189	--	--	--	--	88	--	--	--	--	84	31	87	14	49
FONTANELLE	HC-7987Bt	222	--	--	--	--	104	--	--	--	--	84	33	93	0	51
MATURITY CHECK	FULL - M798	200	166	215	183	194	93	114	101	89	31	85	30	88	7	52
	AVERAGES	214	146	213	180	191	214	146	213	84	27	82	28	93	3	51
	CV (%)	7	12	8	--	--	7	12	8	--	--	1	4	6	96	1
	LSD (0.05)**	22	25	23	--	--	10	17	11	--	--	1	2	7	4	1

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

SOUTHWEST KANSAS IRRIGATED CORN TEST ON SILT LOAM SOIL

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

Keith silt loam; Soybean in 2002

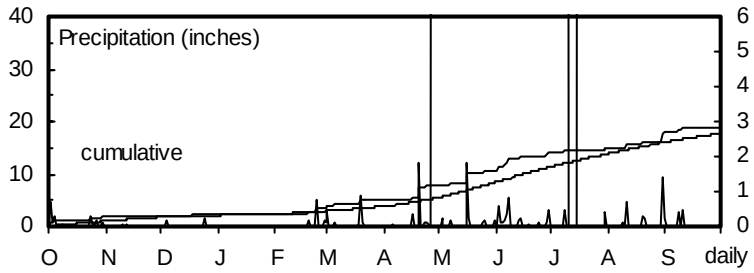
180 - 0 - 0 lb/a N, P, K

Planted on 4/27/03; Harvested on 10/3/03

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

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

	Precipitation		Average Temp.		GDU	
Month	2003	Norm.	2003	Norm.	2003	Norm.
Oct.-Mar.	5.2	3.8	39	38	145	60
April	2.5	1.6	55	51	307	219
May	3.0	2.9	63	62	440	396
June	3.4	3.0	70	72	589	642
July	0.9	2.5	82	78	798	769
August	3.0	2.2	80	75	780	743
Sept.	0.9	1.6	67	67	518	522
Totals:	18.8	17.6	54	53	3,576	3,350



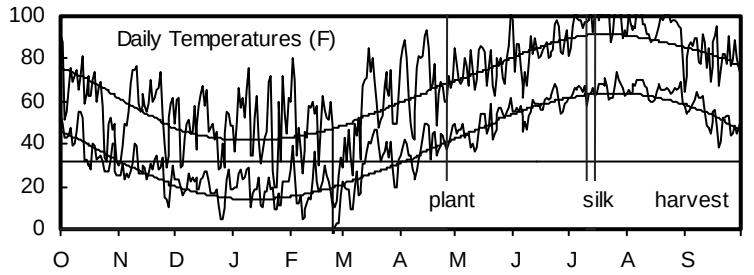


Table 24. Garden City Irrigated Corn Performance Test, 2001-2003.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2002-2003		2003				
BRAND	NAME	2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	2003	2002	2001	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
NK	N70-F1	263	--	--	--	--	97	--	--	--	--	74	16	104	1	--
ASGROW	RX752YG	272	--	--	--	--	100	--	--	--	--	74	17	107	0	--
DEKALB	DKC60-19RR/YG	267	227	--	247	--	98	101	--	73	16	74	17	107	0	--
FONTANELLE	5234	270	--	--	--	--	99	--	--	--	--	74	17	111	0	--
MIDLAND	7B15	278	233	196	255	235	102	104	102	73	15	74	17	101	1	--
TRIUMPH	1120BtRR	258	231	184	245	224	95	103	96	74	15	74	17	97	0	--
MATURITY CHECK	SHORT - G8590	209	201	154	205	188	77	90	80	74	14	75	15	100	5	--
NK	N72-J5	273	240	201	256	238	100	107	105	74	15	75	16	107	1	--
STINE	8023-28	275	--	--	--	--	101	--	--	--	--	75	16	102	0	--
FONTANELLE	HC-7951Bt	294	--	--	--	--	108	--	--	--	--	75	17	105	0	--
GARST	8461	257	--	--	--	--	95	--	--	--	--	75	17	105	0	--
TRIUMPH	1302RW	249	--	--	--	--	91	--	--	--	--	75	17	106	2	--
CROPLAN GEN.	691BTLL	282	--	--	--	--	104	--	--	--	--	75	18	104	0	--
CROPLAN GEN.	699BtLL	285	--	--	--	--	105	--	--	--	--	75	18	104	0	--
DEKALB	DKC63-50YGCB	277	--	--	--	--	102	--	--	--	--	75	18	106	0	--
FONTANELLE	5591	265	218	187	242	224	97	97	98	73	16	75	18	100	0	--
FONTANELLE	HC-7987Bt	272	--	--	--	--	100	--	--	--	--	75	18	110	0	--
FRONTIER	F3175	266	--	--	--	--	98	--	--	--	--	75	18	104	1	--
GARST	8383YG1	270	247	--	259	--	99	110	--	75	17	75	18	102	1	--
MIDWEST SEED	G 8070B	274	234	--	254	--	101	104	--	75	16	75	18	103	1	--
MIDWEST SEED	G 8125B	278	--	--	--	--	102	--	--	--	--	75	18	105	0	--
NC+	5423B	295	--	--	--	--	108	--	--	--	--	75	18	104	0	--
NK	N70-T9	274	--	--	--	--	101	--	--	--	--	75	18	109	1	--

(continued)

Table 24. Garden City Irrigated Corn Performance Test, 2001-2003 - continued.

BRAND	NAME	ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2002-2003		2003				
		2003	2002	2001	2-Yr. AVG.	3-Yr. AVG.	2003	2002	2001	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
STINE	9803YGCB	279	--	--	--	--	103	--	--	--	--	75	18	101	2	--
MATURITY CHECK	MID - H2649	257	219	194	238	223	94	98	101	75	14	76	16	103	0	--
GARST	8363Bt	236	235	210	235	227	87	104	110	75	16	76	17	101	0	--
GARST	8371	296	--	--	--	--	109	--	--	--	--	76	17	100	1	--
MYCOGEN	2R773	263	--	--	--	--	97	--	--	--	--	76	17	103	0	--
NC+	5202B	278	226	--	252	--	102	101	--	75	16	76	17	103	0	--
CROPLAN GEN.	818RRBT	279	--	--	--	--	103	--	--	--	--	76	18	105	0	--
FONTANELLE	5652	284	--	--	--	--	104	--	--	--	--	76	18	99	0	--
FRONTIER	F3250	258	--	197	--	--	95	--	103	--	--	76	18	94	0	--
MIDLAND	7A28Bt	287	--	--	--	--	106	--	--	--	--	76	18	99	0	--
MYCOGEN	2A812	278	--	--	--	--	102	--	--	--	--	76	18	106	0	--
NC+	5433RB	278	--	--	--	--	102	--	--	--	--	76	18	107	1	--
PIONEER	33P67	288	239	--	264	--	106	107	--	75	16	76	18	104	0	--
FONTANELLE	5800	262	239	--	251	--	96	107	--	76	17	76	19	106	1	--
NC+	6362B	266	--	--	--	--	98	--	--	--	--	77	17	106	0	--
MYCOGEN	2D835	274	--	--	--	--	101	--	--	--	--	77	18	107	1	--
PIONEER	31N27	295	230	--	263	--	109	102	--	76	17	77	19	106	1	--
PIONEER	33R77	273	--	203	--	--	100	--	106	--	--	78	17	106	1	--
MATURITY CHECK	FULL - M798	282	212	186	247	226	103	94	97	78	17	78	18	103	0	--
TRIUMPH	1866Bt	286	241	203	264	244	105	107	106	78	17	78	18	100	0	--
	AVERAGES	272	225	192	248	230	272	225	192	75	16	76	17	104	1	--
	CV (%)	6	7	7	--	--	6	7	7	--	--	1	5	5	190	--
	LSD (0.05)**	21	21	19	--	--	8	9	10	--	--	1	1	7	1	--

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

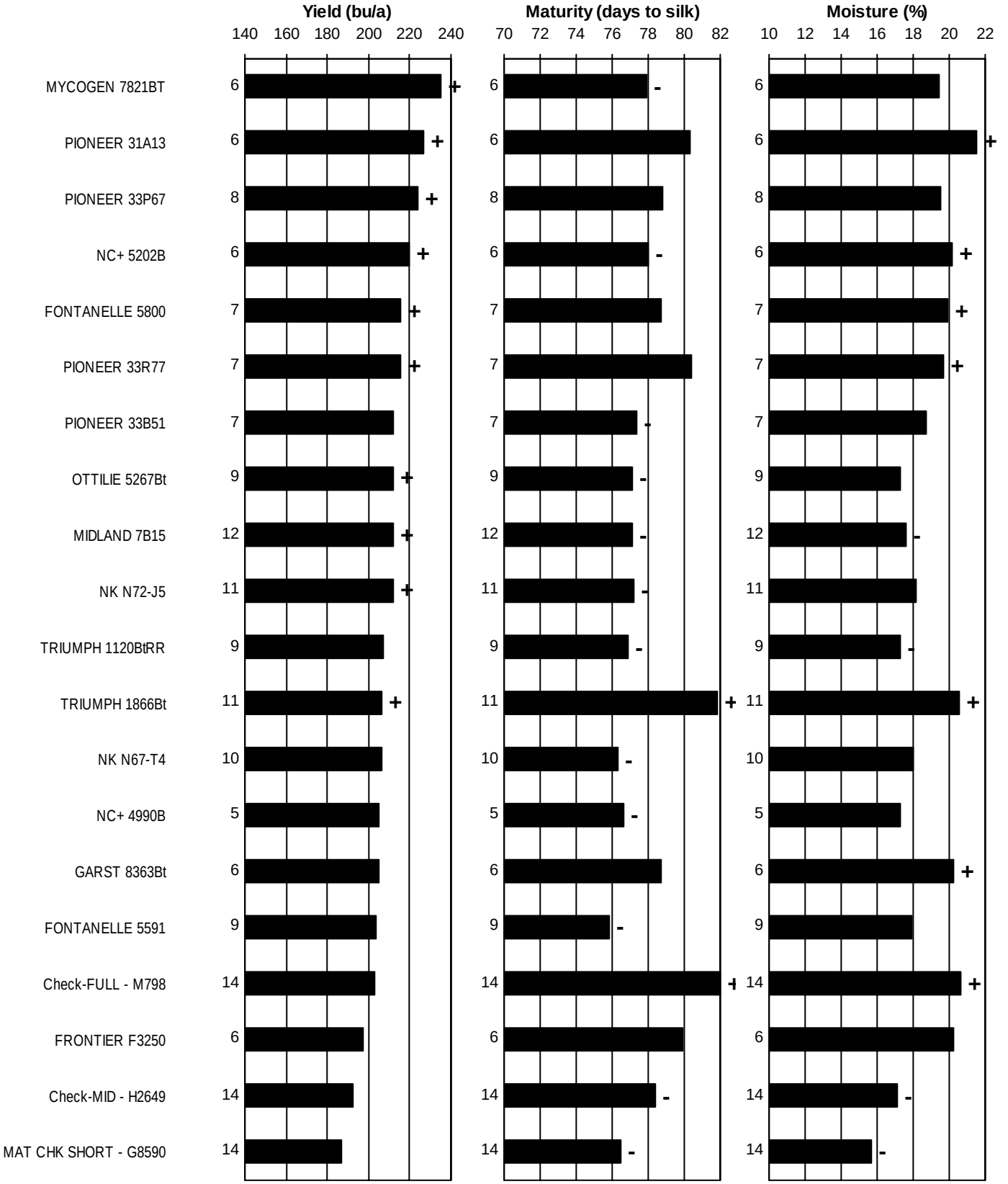
Table 25. WEST Kansas IRRIGATED corn hybrid yield summary (% of test average), 2003.

BRAND/NAME	COL[1]	TRI	GC	AVG.
AGSOURCE				
6163Bt	87	--	--	--
6183Bt	97	--	--	--
6203Bt	107	--	--	--
6883Bt	101	--	--	--
7783Bt	101	--	--	--
ASGROW				
RX752YG	96	--	100	--
CROPLAN GEN.				
691BTLL	99	98	104	100
699BtLL	99	--	105	--
818RRBT	106	103	103	104
DEKALB				
DKC58-24RR/YGCB	93	--	--	--
DKC60-19RR/YGCB	97	--	98	--
DKC63-50YGCB	97	--	102	--
FONTANELLE				
5234	89	90	99	93
5282	95	94	--	--
5591	91	102	97	97
5652	97	88	104	96
5800	101	95	96	98
HC-7951Bt	111	--	108	--
HC-7987Bt	96	104	100	100
FRONTIER				
F3175	--	--	98	--
F3250	--	--	95	--
GARST				
8288	111	--	--	--
8363Bt	--	--	87	--
8371	--	97	109	--
8383YG1	108	--	99	--
8461	93	--	95	--
8510YG1/RR	--	101	--	--
8545	88	85	--	--
HAWKEYE				
02-880BT	109	--	--	--
KAYSTAR				
KX-8770Bt	101	100	--	--
LG SEEDS				
LG2619BT	111	107	--	--
MIDLAND				
7A28Bt	--	--	106	--
7B15	--	--	102	--
MIDWEST SEED				
G 8070B	106	--	101	--
G 8125B	110	--	102	--
MYCOGEN				
2A812	102	108	102	104
2D835	--	--	101	--
2R773	113	--	97	--
7821BT	--	117	--	--

BRAND/NAME	COL	TRI	GC	AVG.
NC+				
4990B	97	--	--	--
5202B	105	109	102	105
5423B	--	110	108	--
5433RB	100	--	102	--
6362B	94	--	98	--
NK				
N70-F1	93	101	97	97
N70-T9	104	105	101	103
N72-J5	98	99	100	99
OTTILIE				
5216Bt	94	105	--	--
5267Bt	97	98	--	--
5334Bt	97	107	--	--
5436Bt	115	105	--	--
5437RRBt	104	103	--	--
PIONEER				
31N27	--	--	109	--
33B51	107	114	--	--
33P67	111	98	106	105
33R77	--	--	100	--
34N44	100	101	--	--
PREMIUM				
P234	112	--	--	--
PRODUCERS				
7321BT	96	--	--	--
7371BT	111	--	--	--
RENZE				
6363	95	97	--	--
6386	95	103	--	--
6424	109	98	--	--
8244YGCB	79	84	--	--
8364YGCB	95	99	--	--
8381YGCB	--	95	--	--
8383YGCB	--	109	--	--
8454YGCB	110	111	--	--
9363YGCB/RR	--	99	--	--
9384YGCB/RR	106	105	--	--
9454YGCB/RR	--	104	--	--
STINE				
8023-28	--	--	101	--
9803YGCB	--	--	103	--
TRIUMPH				
1120BtRR	106	100	95	100
1302RW	--	85	91	--
1416Bt	100	105	--	--
1866Bt	86	--	105	--
MATURITY CHECK				
FULL - M798	88	93	103	95
MID - H2649	92	83	94	90
SHORT - G8590	96	84	77	86
AVERAGES (bu/a)	242	214	272	243
CV (%)	7	7	6	--
LSD (0.05)**	10	10	8	--

[1] COL = Colby, Thomas Co. TRI = Tribune, Greeley Co. GC = Garden City, Finney Co.

Figure 9. WEST Kansas IRRIGATED corn hybrid standardized performance summary, 2001-2003.



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

APPENDIX: Entries in the 2003 Kansas Corn Performance Tests

	GDD	DBL	RES	P	F*
AGSOURCE					
6163Bt	2720	111	Bt	Y	Y
6183Bt	2730	111	Bt	Y	Y
6203Bt	2750	112	Bt	Y	Y
6883Bt	2800	114	Bt	Y	Y
7783Bt	2870	116	Bt	Y	Y
ASGROW					
RX664RR/YG	2720	107	RR,YGCB	--	--
RX718RR/YG	2780	110	RR,YGCB	--	--
RX752YG	2750	112	YGCB	--	--
CROPLAN GEN.					
441RR	--	102	RR	--	Y
699BtLL	--	112	Bt,LL	--	Y
705RR	--	112	Bt	--	Y
691BTLL	--	113	Bt,LL	--	Y
818RRBT	--	115	RR,Bt	--	Y
DEKALB					
DKC51-43	2530	101	YGCB	--	--
DKC52-45YGCB	2550	102	YGCB	--	--
DKC57-84YGCB	2720	107	YGCB	--	--
DKC58-24RR/YGCB	2650	108	RR/YG	--	--
DKC60-19RR/YGCB	2750	110	RR/YG	--	--
DKC63-79YGCB	2790	113	YGCB	--	--
DKC63-50YGCB	2800	113	YGCB	--	--
DKC64-01YGCB	2800	114	YGCB	--	--
DKC68-70YGCB	2930	118	YGCB	--	--
DKC69-70YGCB	2975	119	YGCB	--	--
FONTANELLE					
5234	--	--	--	N	Y
5282	--	--	--	N	Y
5652	--	--	--	N	Y
HC-7764RR	--	--	RR	N	N
HC-7951Bt	--	--	Bt	N	Y
HC-7987Bt	--	--	Bt	N	Y
5591	--	115	--	N	Y
5800	--	118	--	N	Y
FRONTIER					
F3250	2880	115	--	--	Y
F3175	2900	116	--	Y	Y
GARST					
8787YG1	2360	102	Bt	--	N
8590IT	2540	106	CL	N	Y
8552YG1	2555	108	Bt	--	Y
8545	2555	109	--	--	Y
8461	2575	109	--	N	Y
8510YG1/RR	2570	110	Bt/RR	--	Y
8454YG1	2600	112	Bt	--	Y
8383YG1	2610	114	Bt	N	Y
8328Bt/IT	2600	115	Bt,CL	N	Y
8363Bt	2610	115	Bt	N	Y
8371	2620	115	--	N	Y
8288	2650	116	--	N	Y
8350YG1	2650	116	Bt	--	Y
HAWKEYE					
02-833	--	--	--	--	--
SX65	2610	112	--	--	--
02-880BT	2620	113	Bt	--	--
2725	2620	113	--	--	--
SX68	2620	113	--	--	--
SX70	2620	113	--	Y	Y
KAYSTAR					
KX-8770Bt	--	--	Bt	N	Y
KRUGER					
EX115YGCB	--	--	YG	--	--
EX215	--	--	--	--	--
EX617YGCB	--	--	YG	--	--
K-9017YGCB	--	--	YG	--	--
K-9115YGCB	--	--	YG	--	--
K-9212RR/YGCB	--	--	RR,YG	--	--
K-9315YGCB	--	--	YG	--	--
K-9412YGCB	--	--	YG	--	--
K-9414	--	--	--	--	--
K-9415	--	--	--	--	--
LEWIS					
4864YGCBRR	--	--	YGCB,RR	--	--
7044YGCB	--	--	YGCB,RR	--	--
LG SEEDS					
LG2540BT	2585	110	Bt	N	Y
LG2619BT	2680	114	Bt	N	Y
MIDLAND					
7A17Bt	--	--	--	--	--
7A04Bt	2750	110	Bt	Y	Y
7B13Bt	2760	110	Bt	--	Y
7B13	2725	111	--	N	Y
7A14Bt	2790	112	Bt	--	Y
7A15Bt	2780	113	Bt	Y	Y
7A36	2800	113	--	--	Y
EX896	2800	114	--	N	Y
7B15	2820	114	--	Y	Y
798Bt	2820	115	Bt	N	Y
7A16RR	2820	115	RR	N	Y
7A25Bt	2820	115	Bt	--	Y
7A28	2850	116	--	N	Y
7A28Bt	2840	117	Bt	--	Y
MIDWEST SEED					
G 7122	--	101	--	N	Y
7806RB	--	110	RR,Bt	N	Y
G 7716B	--	110	Bt	N	Y
8075RB	--	112	RR,Bt	N	Y
G 7950	--	112	--	N	Y
G 8070B	--	112	Bt	N	Y
8127RB	--	113	RR,Bt	N	Y
G 8125B	--	113	Bt	N	Y
MYCOGEN					
2M527	2395	102	--	N	--
2G626	2550	105	Bt	N	--

*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.

(continued)

APPENDIX: Entries in the 2003 Kansas Corn Performance Tests

	GDD	DBL	RES	P	F*
MYCOGEN					
2P682	2560	109	--	N	Y
2K690	2585	109	--	N	--
2E685	2635	110	--	N	Y
6920BT	2545	111	Bt	N	Y
2K785	2660	113	Bt	N	--
2G768	2685	113	Bt	N	--
2R773	2640	114	Bt	N	Y
2A812	2680	114	Bt	N	--
7821BT	2680	114	Bt	N	Y
2D835	2760	116	--	N	Y
NC+					
3451B	2555	106	Bt	-	Y
4990B	2715	112	Bt	-	Y
4573B	2720	112	Bt	-	Y
5193B	2720	112	Bt	Y	-
4823B	2730	112	Bt	-	Y
5021RB	2710	113	RR,Bt	-	Y
5202B	2733	113	Bt	-	Y
5423B	2755	114	Bt	-	-
5433RB	2755	114	Bt,RR	-	Y
6362B	2830	117	Bt	Y	-
6962R	2850	118	RR	-	Y
NK					
N58-D1	2660	107	Bt,LL	N	Y
N67-T4	2630	109	Bt,LL	Y	Y
N65-M7	2690	109	--	Y	Y
N70-F1	2650	112	Bt,LL	Y	Y
N70-T9	2670	112	Bt,CL,LL	Y	Y
N72-J5	2780	112	--	Y	Y
NX7630	2830	114	Bt,LL	N	Y
OTTILIE					
5267Bt	2690	112	Bt	N	Y
5216Bt	2700	112	Bt	N	Y
5334Bt	2730	113	Bt	N	Y
5436Bt	2760	114	Bt	N	Y
5437RRBt	2760	114	RR,Bt	N	Y
PFISTER					
2540Bt	--	--	--	--	--
2656Bt	2750	110	Bt	N	Y
2760	2760	111	--	N	Y
2750Bt	2770	112	Bt	N	Y
3030Bt	2800	113	Bt	Y	Y
3356Bt	2850	115	Bt	N	Y
PIONEER					
35P12	2530	105	--	N	Y
35P15	2530	105	Bt	N	Y
34N44	2600	108	Bt	N	Y
34H31	2630	109	--	N	Y
34M95	2650	110	Bt	N	N
33B51	2680	111	Bt	N	Y
33P67	2760	114	Bt	N	Y
33R77	2760	114	--	N	Y
31A13	2810	116	Bt	N	Y
PIONEER					
32H69	2810	116	Bt	N	Y
31B13	2830	117	Bt	Y	Y
31G66	2860	118	--	Y	Y
31N27	2910	119	--	N	Y
PREMIUM					
P234	--	112	--	N	S
P245	--	112	--	N	Y
PRODUCERS					
7001BT	2570	130	Bt	N	Y
7284BT	2620	134	Bt	N	Y
7371BT	2680	135	Bt	N	Y
7321BT	2615	136	Bt	N	Y
795BT	2695	136	Bt	N	Y
RENZE					
8244YGCB	--	106	Bt	--	Y
6363	--	112	--	--	Y
6386	2605	112	--	--	Y
8364YGCB	--	113	Bt	--	Y
9363YGCB/RR	--	113	RR,Bt	--	Y
6424	--	114	--	--	Y
8381YGCB	--	114	Bt	--	Y
8383YGCB	--	115	Bt	--	Y
9384YGCB/RR	--	115	RR,Bt	--	Y
8454YGCB	--	116	Bt	--	Y
9454YGCB/RR	--	116	RR,Bt	--	Y
STINE					
8016-23	2420	105	--	N	Y
8007-44	2500	107	--	N	Y
9616Bt	2520	110	Bt	N	N
9711	2520	110	--	N	Y
9716	2560	113	--	N	Y
8023-28	2570	113	--	N	Y
8040-49	2620	114	--	N	Y
9803YGCB	2620	114	Bt	N	Y
THOMPSON					
T-4112YGCB	--	113	Bt	--	Y
T-2015BT	--	115	Bt	--	Y
T-4115YGCB	--	116	Bt	--	Y
T-5115RR/YGCB	--	116	RR/Bt	--	Y
TRIUMPH					
3421RR	2330	105	RR	N	Y
1120BtRR	2480	111	BtCB,RR	N	Y
1416Bt	2500	113	BtCB	N	Y
1302RW	2510	113	BtRW	N	Y
1866Bt	2610	117	BtCB	N	Y
2011RR	2650	119	RR	N	Y
MATURITY CHECK					
SHORT - G8590	2560	106	--	--	Y
MID - H2649	2560	110	--	N	Y
FULL - M798	2820	115	--	Y	Y

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