

2000

KANSAS PERFORMANCE TESTS WITH

CORN

HYBRIDS

REPORT OF PROGRESS 860

Kansas State University
Agricultural Experiment Station
and Cooperative Extension Service

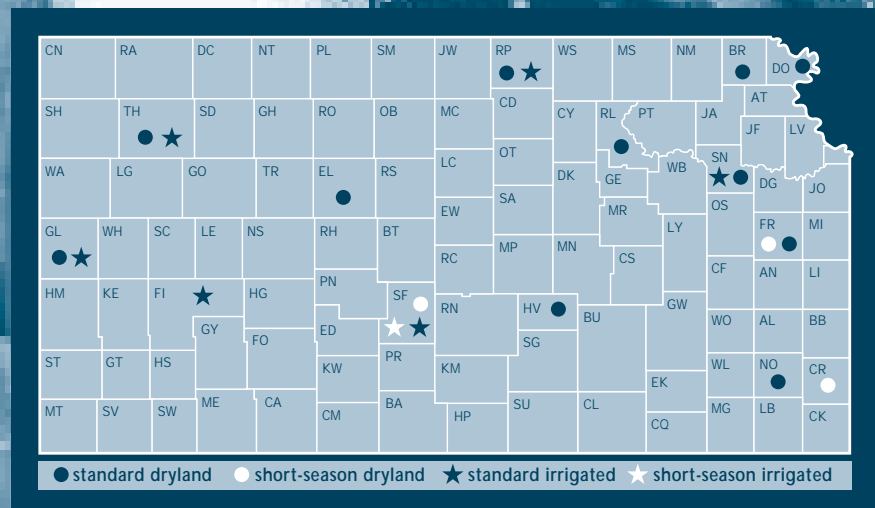


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2000 KANSAS CORN PERFORMANCE TESTS

INTRODUCTION

TEST OBJECTIVES AND PROCEDURES

Corn Performance Tests, conducted annually by the Kansas Agricultural Experiment Station, provide farmers, extension workers, and private research and sales 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 are similar to the full-season tests, except where noted. This series of tests targets evaluation of corn hybrids for use in early-planted, short-season, cropping systems. Hybrids with adequate heat and drought tolerance are needed for these systems. These hybrids often will be subjected to severe heat and drought stress in July and August. These systems typically are utilized on soils with poor water-holding capacities. Early-maturing hybrids often are able to escape a good portion of the typical stress, if they can be planted early. Utilization of short-season hybrids under irrigation often is related to the desire to reduce irrigation inputs or to facilitate specific crop rotations.

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 2000 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. Growing degree graphs include cumulative lines for 2000 and normal. All graphs include vertical lines indicating planting, silking, and harvest dates, if available. General trends in

precipitation and temperature relative to normal are readily observed in the graphs. For more detailed information, a table is included with monthly totals and averages for the growing season.

CORN BORER status of a representative susceptible hybrid is listed with the other descriptive information preceding each table for several locations. The listed infestation rates and tunnel lengths may not represent the actual extent of damage if the sampling date precedes harvest by several weeks, but they do provide an indication of the level of corn borer infestation at a given location. Early harvest prevented sampling at many locations.

Explanatory information is given preceding data summaries for each test. Tables 1-24 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. Yield summaries following each group of tests (Tables 4, 8, 13, 18, 22, 25) present yield as a percent of the average for each location and averaged over all locations in that region. The 2000 entrants and entries are listed in the Appendixes.

Figures 5-10 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 (Pioneer 3162 and Golden Harvest H2530). 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 (+), lower (-), or not different (no symbol) than the average of the check hybrids. As with individual test results, small differences should not be overemphasized. Rather relative ranking and large differences are better indicators of hybrid 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.

Tractor-powered, modified, White air-planters were used for nearly all tests. Four plots (replications) of each hybrid were grown at each location in a randomized complete block design. Four-row plots were used in the west no-till tests. Each harvested plot consisted of two rows trimmed to a specific length ranging from 20 to 30 feet at the different locations. 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%. *BUSHEL YIELDS* are given but also are converted to *YIELDS AS PERCENTAGES OF THE TEST AVERAGE* to speed recognition of highest-yielding hybrids (more than 100%, the test average). The actual test average in bushels per acre is listed as the test average in the *YIELD AS % OF TEST AVERAGE* columns as a guide to actual yields. Hybrids yielding more than 100% of the test average year after year merit consideration, but adaptation to individual farms for appropriate maturity, stalk strength, and other factors also must be considered.

The number of *LODGED EARS* is reported, when appropriate. Plants broken over below the ear and dropped ears were considered *LODGED*, although many 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* at most locations. 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.

The *GROWTH UNIT* or *GROWING DEGREE DAY* concept was developed to measure the amount of heat available for growth and maturation. The formula used to generate the monthly totals in individual test discussions follows. Take the maximum temperature plus the minimum temperature for each day, divide by 2, and then subtract a base temperature of 50 each day. Any temperature below 50°F was considered to be 50, and any temperature over 86°F was called 86. Growth unit accumulations for the current year are compared with the long-term average or 'normal' for each test.

Small differences in yield or other characteristics should not be overemphasized. Least significant differences (LSD's) 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 to estimate the degree of confidence one can have in published data from replicated tests. In this testing program, CV's below 10% generally indicate reliable, uniform data, whereas CV's of 10 to 15% are not uncommon and usually indicate that data are acceptable for the rough performance comparisons desired from these tests. Tests with CV's over 15% still may be useful, but hybrid comparisons lack precision.

2000 STATEWIDE GROWING CONDITIONS

Temperature (Figure 1) and precipitation as reflected in topsoil moisture status (Figure 2) should be considered together when examining their affect on the condition (Figure 3) and development (Figure 4) of the 2000 corn crop. Relatively warm, dry conditions early in the season prompted early planting in many parts of the state. Roughly 75% of the crop was in the ground by May 1, 2 weeks ahead of the 5-year average. Most of the state had adequate soil moisture at planting, but some areas were already dry at that time. Topsoil moisture generally declined from early April until harvest. Heavy rainfall in late July provided much-needed moisture in southern Kansas, but northern areas received little relief. High temperatures near or

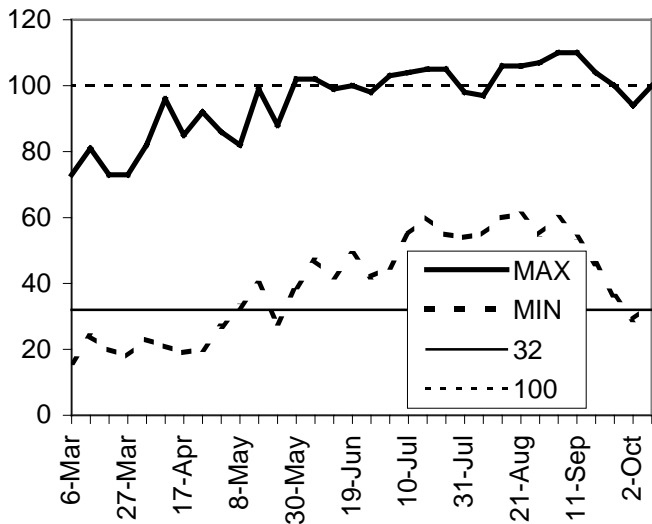


Figure 1. 2000 Kansas weekly maximum and minimum temperatures.

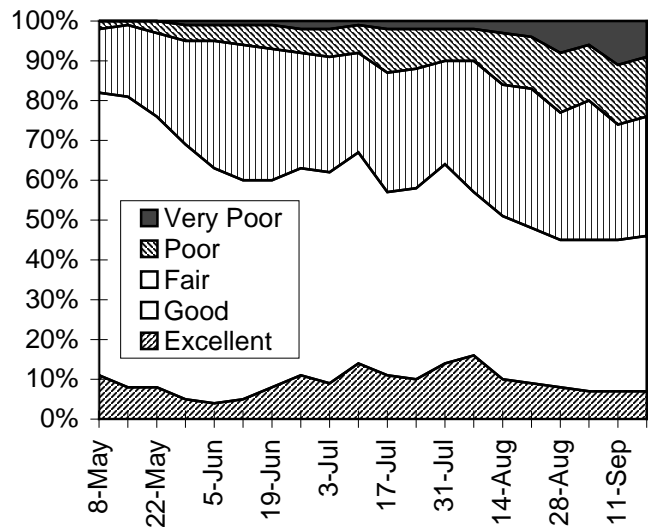


Figure 3. Condition of 2000 Kansas corn crop.

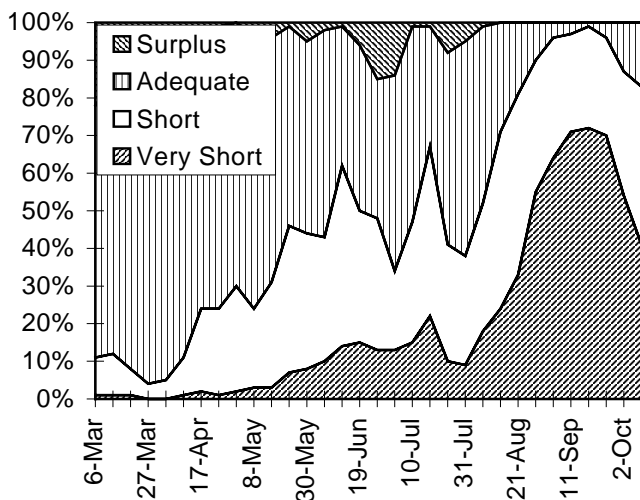


Figure 2. Statewide status of topsoil moisture.

above 100° F prevailed from early June through harvest. The high temperatures coupled with the ongoing decline in soil moisture during this same time period caused the condition of the crop to decline accordingly. By late August, over half the crop was characterized as fair, poor, or very poor.

The early planting caused the corn crop to reach silking about a week and a half ahead of average. The crop reached the dent stage roughly 1 week early. The dry, hot conditions in August accelerated maturation and dry-down. As a result, harvest progressed well ahead of average and was over 85% complete by October 1.

(From Crop-Weather reports, Kansas Agricultural Statistics, Topeka).

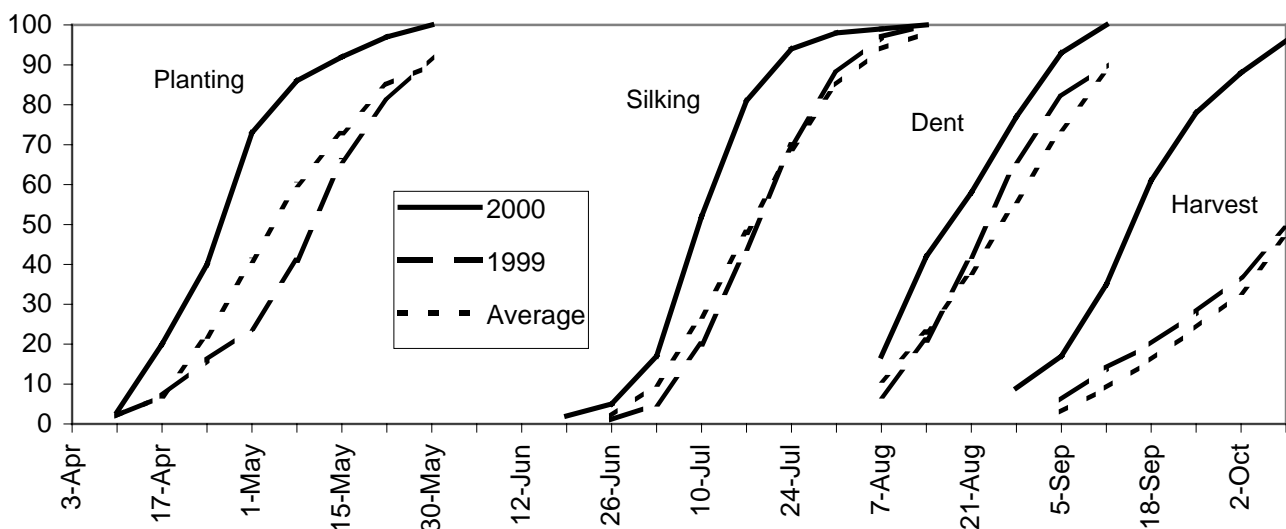


Figure 4. Progress of 2000 Kansas corn crop.

A number of insect pests appeared in corn fields across the state in 2000. Flea beetles damaged some fields in May. Typically, corn can grow out of this damage, but several producers applied insecticide. Southern corn billbug severely damaged a 20-acre field in Finney County in June.

Both southwestern and European corn borers began laying eggs in mid-June. By mid-late June, southwestern corn borers were appearing as far north as the Nebraska border. Unusually high levels of southwestern corn borer in north central Kansas likely resulted from the mild temperatures experienced last winter. High levels of this pest also were found in south central and southwestern Kansas corn fields, contributing to substantial lodging if not adequately controlled.

Spider mites were noted in some fields. However, populations didn't develop as much as might be expected with the dry weather.

(From Kansas Insect Newsletter, Extension Entomology, Kansas State University and Kansas Cooperative Economic Insect Survey Reports, Kansas Department of Agriculture.)

The below-average rainfall throughout the season in most areas of the state resulted in less disease pressure than in recent years. Some corn planted very early in the season suffered from a physiological problem known as cold weather crown injury. Heavy flea beetle pressure resulted in significant levels of Stewart's bacterial wilt in

some fields. In the most severe cases, plants were killed and stands were thinned. Other than Stewart's wilt, few seedling blight problems were reported from around the state. Because of the lack of rainfall, few foliar disease problems were reported.

Although the dry weather limited seedling and foliar disease problems, it favored the development of both fusarium stalk rot and charcoal rot. Anthracnose stalk rot also was found in a few fields. Some fields were near 100% infected. Yield loss varied from field to field and was dependent on how early the disease developed and the susceptibility of the hybrid.

Ear rot pressure was generally low, but some problems were reported from southwestern Kansas, particularly on double-cropped corn. Low humidity in August resulted in few problems from *Aspergillus flavus*, the producer of aflatoxin, but significant levels of *Fusarium* developed in some fields.

(From Doug Jardine, Extension Plant Pathologist, Kansas State University Department of Plant Pathology.)

The October 12 Crops Report predicted a 416 million bushel crop, down 1% from last year's crop. This production is from 3.25 million harvested acres, up 9% from last year. The predicted average yield of 128 bushels per acre is 13 bushels below that in 1999.

(From Kansas Agricultural Statistics.)

NORTHEASTERN KANSAS STANDARD CORN TEST ON SILT LOAM SOIL

TARGET POPULATION: 25,000 plants/acre, 8.4 in. spacing
FINAL STAND (% of target): 104
SILK DATES: 7/13/00 - 7/18/00
YIELD: Avg. (bu/a): 189 **Range (bu/a):** 157 - 216
LSD (bu/a): 17 **CV (%):** 8

COUNTY: DONIPHAN

LOCATION: Private farm 1 mile north of Severance

TEST SITE: Manona silt loam

1999 CROP: Soybean

1998 CROP: Corn

FERTILIZER (lbs/acre): 150 N 0 P₂O₅ 0 K₂O

PLANTING DATE: 4/19/00

HARVEST DATE: 9/8/00

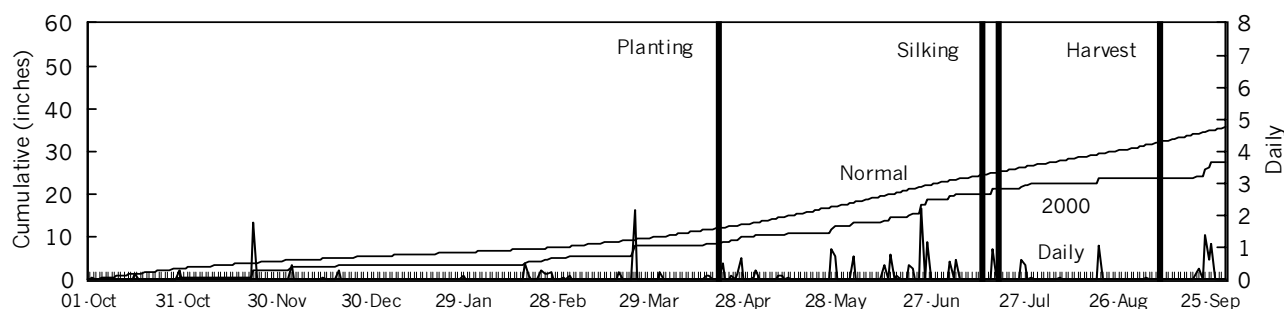
COOPERATORS: Fuhrman Farms, Inc.

CORN BORERS: (sus. hybrid)	Infestation (% plants)		Tunnels (in./plant)	Sample date
	ECB	SWCB		
	--	--	--	--

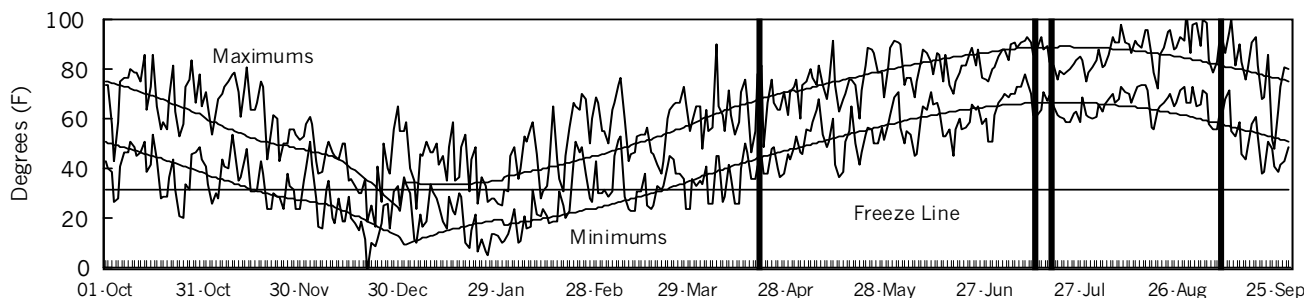
2000 GROWING CONDITONS:

A slightly dry seedbed appeared not to decrease emergence and final stands. Flea beetles caused minimal damage in mid-May. Favorable rains through July enabled the hybrids to yield well, even though hot, dry conditions in August hastened maturation and dry-down.

PRECIPITATION



DAILY TEMPERATURES



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	2000	Normal	2000	Normal	2000	Normal
April	2.1	3.2	51	54	222	249
May	2.5	4.4	64	65	464	444
June	6.4	5.2	70	73	593	720
July	3.5	4.1	75	78	759	840
August	1.3	3.8	78	76	811	752
Sept.	3.9	4.9	69	68	556	542
Season Totals	19.6	25.7	68	69	3403	3546

GROWING DEGREE DAYS

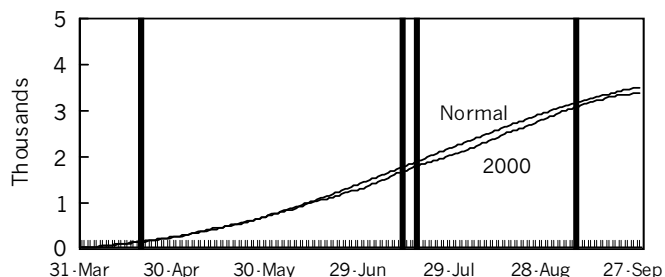


TABLE 1. Doniphan Co. Corn Performance Test, 1998-2000.

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			1999-2000		2000				
		2000	1999	1998	2-Yr. AVG.	3-Yr. AVG.	2000	1999	1998	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
MATURITY CHECK	MID - H2649	184	--	--	--	--	97	--	--	--	--	85	14	98	--	57
LEWIS	4740	193	--	--	--	--	102	--	--	--	--	85	15	101	--	57
PIONEER	33G27	202	--	--	--	--	107	--	--	--	--	85	18	99	--	59
MATURITY CHECK	SHORT - C4111	174	144	160	159	160	92	83	72	81	14	86	13	107	--	58
AGSOURCE	5970	200	--	--	--	--	106	--	--	--	--	86	15	109	--	58
AGSOURCE	6887	198	--	--	--	--	105	--	--	--	--	86	15	107	--	57
CROPLAN GEN.	676 RR	179	--	--	--	--	95	--	--	--	--	86	15	106	--	57
PIONEER	34K77	164	--	--	--	--	87	--	--	--	--	86	15	109	--	58
FREEDOM	5503	181	162	--	172	--	96	93	--	82	17	86	16	105	--	57
HOEGEMEYER	2668	164	175	--	170	--	87	101	--	81	17	86	16	95	--	57
MYCOGEN	2833	200	--	--	--	--	106	--	--	--	--	86	16	102	--	56
PFISTER	2750	201	--	--	--	--	106	--	--	--	--	86	16	117	--	56
LEWIS	5830	177	--	--	--	--	93	--	--	--	--	86	17	102	--	59
GARST	8363Bt	207	--	--	--	--	109	--	--	--	--	86	18	114	--	57
HOEGEMEYER	HBt821	196	--	--	--	--	104	--	--	--	--	86	18	109	--	56
MIDWEST SEED	G 8758Bt	200	176	--	188	--	105	102	--	81	20	86	18	111	--	57
PIONEER	33P67	205	--	--	--	--	108	--	--	--	--	86	18	102	--	59
ASGROW	RX799Bt	199	188	--	193	--	105	108	--	81	20	86	19	107	--	57
CROPLAN GEN.	818	199	--	--	--	--	105	--	--	--	--	86	19	108	--	55
PSA	4700Bt	202	181	254	192	212	107	104	115	81	20	86	19	109	--	57
WILSON	1861Bt	199	193	--	196	--	105	112	--	81	20	86	19	102	--	57
MATURITY CHECK	SHORT - G8590	177	--	--	--	--	94	--	--	--	--	87	14	108	--	57
CROPLAN GEN.	661	196	--	--	--	--	104	--	--	--	--	87	15	105	--	57
DEKALB	DK611	196	182	--	189	--	104	105	--	82	16	87	15	101	--	58
ASGROW	RX740	195	178	--	186	--	103	103	--	82	17	87	16	104	--	59
HAWKEYE	SX70	200	--	--	--	--	105	--	--	--	--	87	16	109	--	57
LEWIS	5450	195	--	--	--	--	103	--	--	--	--	87	16	95	--	57
AGSOURCE	6787	197	--	--	--	--	104	--	--	--	--	87	17	111	--	56
ASGROW	RX730YG	211	170	--	191	--	111	98	--	82	18	87	17	105	--	57
PFISTER	3977	178	186	237	182	200	94	107	107	82	19	87	17	107	--	56
PSA	7855	177	--	213	--	--	93	--	96	--	--	87	17	100	--	56
WILSON	1762	195	--	--	--	--	103	--	--	--	--	87	17	109	--	56
GOLDEN HARVEST	H-9533Bt	188	--	--	--	--	99	--	--	--	--	87	18	100	--	55
HAWKEYE	SX76	200	177	216	188	198	106	102	98	82	19	87	18	106	--	57
NK	N79-L3	191	166	243	179	200	101	96	110	82	20	87	19	112	--	59
MATURITY CHECK	MID - H2530	167	160	196	163	174	88	92	88	82	15	88	13	99	--	56
HOEGEMEYER	2718	178	--	--	--	--	94	--	--	--	--	88	15	105	--	55
NC+	5018	169	196	--	182	--	89	113	--	83	17	88	15	101	--	57
FREEDOM	5555	203	--	236	--	--	107	--	107	--	--	88	16	106	--	56
FREEDOM	5662	173	--	--	--	--	91	--	--	--	--	88	16	96	--	56
MIDLAND	XA15	184	--	--	--	--	97	--	--	--	--	88	16	101	--	57
MYCOGEN	2767	179	--	--	--	--	94	--	--	--	--	88	16	107	--	57
NK	N67-T4	202	--	--	--	--	107	--	--	--	--	88	16	107	--	57
PSA	7727	186	156	223	171	188	98	90	101	82	17	88	16	112	--	57
AGSOURCE	5983Bt	172	--	--	--	--	91	--	--	--	--	88	17	99	--	57

(continued)

TABLE 1. Doniphan Co. Corn Performance Test, 1998-2000.

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			1999-2000		2000				
		2000	1999	1998	2-Yr.	3-Yr.	2000	1999	1998	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
					AVG.	AVG.										
AGSOURCE	6412	179	--	--	--	--	95	--	--	--	--	88	17	109	--	59
CROPLAN GEN.	762 Bt/CL	199	--	--	--	--	105	--	--	--	--	88	17	107	--	56
DEKALB	DK647BtY	214	184	--	199	--	113	106	--	83	18	88	17	111	--	56
GARST	8341	175	--	--	--	--	93	--	--	--	--	88	17	99	--	57
LEWIS	6420	216	--	--	--	--	114	--	--	--	--	88	17	103	--	57
MIDLAND	XA17	170	--	--	--	--	90	--	--	--	--	88	17	94	--	58
MIDWEST SEED	G 7711	195	--	181	--	--	103	--	82	--	--	88	17	106	--	57
MIDWEST SEED	G 7718Bt	212	--	--	--	--	112	--	--	--	--	88	17	106	--	56
PFISTER	3350	157	--	--	--	--	83	--	--	--	--	88	17	78	--	58
ASGROW	RX889	171	178	--	175	--	91	103	--	82	20	88	18	107	--	56
TAYLOR	877Bt	182	--	--	--	--	96	--	--	--	--	88	19	96	--	57
PIONEER	31A13	214	--	--	--	--	113	--	--	--	--	88	20	108	--	58
NK	N83-Z8	196	--	--	--	--	104	--	--	--	--	88	21	101	--	57
MATURITY CHECK	FULL - P3162	165	160	203	163	176	87	92	92	83	18	89	17	107	--	57
MIDLAND	786	192	179	241	185	204	101	103	109	83	19	89	17	107	--	54
PSA	7864	197	167	251	182	205	104	96	114	83	19	89	17	109	--	57
HAWKEYE	9191	205	175	--	190	--	108	101	--	83	19	89	18	102	--	57
AGSOURCE	7890	192	180	--	186	--	101	104	--	83	20	89	19	104	--	57
MYCOGEN	2888IMI	189	170	--	180	--	100	98	--	83	20	89	19	106	--	58
MIDLAND	798	202	--	--	--	--	107	--	--	--	--	89	20	94	--	57
MATURITY CHECK	FULL - DS1997	169	--	--	--	--	90	--	--	--	--	90	18	84	--	56
MIDWEST SEED	G 8795	202	187	--	195	--	107	108	--	84	20	90	19	107	--	58
WILSON	2330	178	192	239	185	203	94	111	108	84	22	90	21	105	--	54
	AVERAGES	189	173	221	181	195	189	173	221	82	18	87	17	104	--	57
	CV (%)	8	8	8	--	--	8	8	8	--	--	2	5	7	--	1
	LSD (0.05)**	17	16	19	--	--	9	9	9	--	--	2	1	8	--	1

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

NORTHEASTERN KANSAS STANDARD CORN TEST ON SILTY CLAY LOAM SOIL

TARGET POPULATION: 22,000 plants/acre, 9.5 in. spacing
FINAL STAND (% of target): 109
SILK DATES: 7/3/00 - 7/14/00
YIELD: Avg. (bu/a): 113 Range (bu/a): 81 - 138
LSD (bu/a): 13 CV (%): 10

COUNTY: BROWN

LOCATION: Cornbelt Experiment Field, Powhattan

TEST SITE: Grundy silty clay loam

1999 CROP: Soybean

1998 CROP: Corn

FERTILIZER (lbs/acre): 110 N 0 P₂O₅ 0 K₂O

PLANTING DATE: 4/13/00

HARVEST DATE: 9/7/00

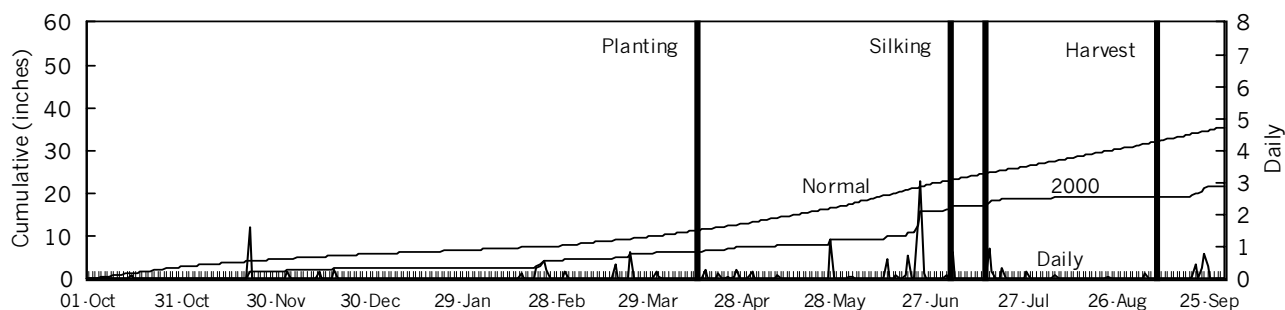
COOPERATORS: Larry Maddux, agronomist; Steve Milne and David Zeit, technicians

CORN BORERS: (susc. hybrid)	Infestation (% plants)		Tunnels (in./plant)	Sample date
	ECB	SWCB		
	--	--	--	--

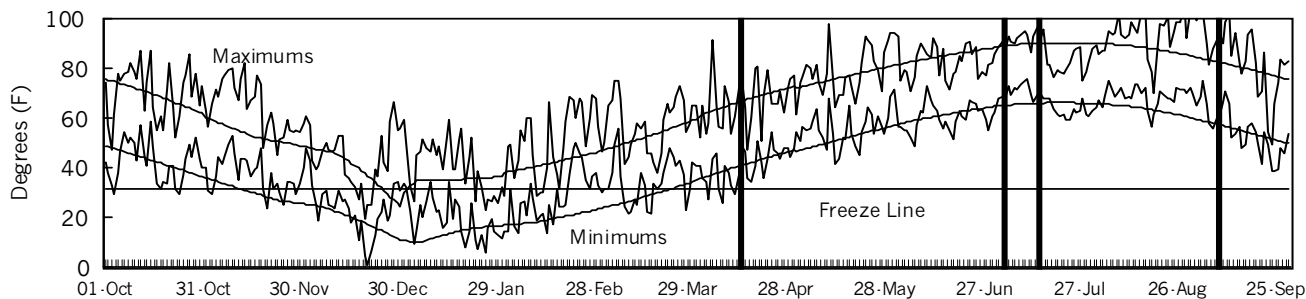
2000 GROWING CONDITIONS:

The hybrids established adequate stands and started off well, until an apparent infestation of flea beetles. The flea beetles caused some chlorosis and slowed seedling growth. Dry conditions extending back to last fall limited potential yields. The hot, dry August caused the test to mature and dry down very quickly and increased variability to some extent.

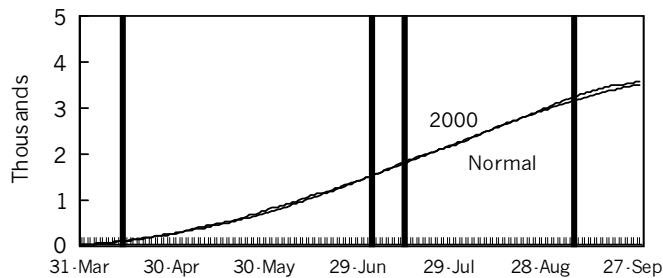
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	2000	Normal	2000	Normal	2000	Normal
April	1.4	3.1	53	54	244	268
May	1.7	4.0	67	65	523	442
June	7.0	5.6	72	73	633	715
July	2.9	4.1	77	78	782	833
August	0.3	4.0	81	76	839	748
Sept.	2.4	4.6	71	68	573	541
Season Totals	15.5	25.5	70	69	3594	3547

TABLE 2. Brown Co. Corn Performance Test, 1998-2000.

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			1999-2000		2000				
		2000	1999	1998	2-Yr.	3-Yr.	2000	1999	1998	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
					AVG.	AVG.										
MATURITY CHECK	SHORT - C4111	109	94	123	101	109	97	89	77	72	11	81	10	114	--	55
PIONEER	34K77	121	107	152	114	127	107	103	95	73	11	82	10	110	--	58
MYCOGEN	2833	131	--	--	--	--	116	--	--	--	--	83	10	110	--	55
PIONEER	33P67	118	--	--	--	--	104	--	--	--	--	83	11	113	--	59
MATURITY CHECK	MID - H2530	95	105	136	100	112	84	100	85	74	11	84	9	100	--	54
US SEEDS	US C1119RR	105	97	--	101	--	93	93	--	75	11	84	9	103	--	53
AGSOURCE	6787	118	--	--	--	--	105	--	--	--	--	84	10	108	--	57
AGSOURCE	6887	118	--	--	--	--	105	--	--	--	--	84	10	108	--	56
CROPLAN GEN.	661	123	--	--	--	--	109	--	--	--	--	84	10	111	--	57
LEWIS	4740	113	--	--	--	--	101	--	--	--	--	84	10	109	--	55
MATURITY CHECK	SHORT - G8590	110	--	--	--	--	98	--	--	--	--	84	10	110	--	56
MIDWEST SEED	G 7718Bt	124	--	--	--	--	110	--	--	--	--	84	10	111	--	56
MYCOGEN	2767	109	--	--	--	--	96	--	--	--	--	84	10	111	--	56
NC+	4880	118	113	--	116	--	105	108	--	74	11	84	10	107	--	56
NK	N67-T4	123	--	--	--	--	109	--	--	--	--	84	10	113	--	43
NK	N7590BT	126	--	--	--	--	112	--	--	--	--	84	10	113	--	55
PSA	7727	120	107	137	114	122	107	102	86	75	11	84	10	110	--	57
US SEEDS	US C1129Bt	117	107	--	112	--	104	102	--	74	11	84	10	104	--	56
AGSOURCE	5983Bt	116	--	--	--	--	103	--	--	--	--	84	11	104	--	56
FONTANELLE	5301	115	--	--	--	--	102	--	--	--	--	84	11	108	--	57
MIDWEST SEED	G 7711	116	--	148	--	--	103	--	92	--	--	84	11	112	--	57
US SEEDS	US C1120	109	98	--	103	--	96	94	--	75	12	84	11	100	--	56
US SEEDS	US C1131ND	108	--	--	--	--	96	--	--	--	--	84	11	99	--	59
WILSON	1762	118	--	--	--	--	105	--	--	--	--	84	11	109	--	55
GARST	8363Bt	110	--	--	--	--	97	--	--	--	--	84	12	114	--	58
MATURITY CHECK	FULL - P3162	103	89	155	96	116	92	85	96	75	12	84	12	111	--	58
WILSON	1861Bt	123	108	--	116	--	109	103	--	75	13	84	12	111	--	57
AGRIPRO	9689Bt	126	--	--	--	--	111	--	--	--	--	84	13	114	--	58
NK	N79-L3	130	102	159	116	130	115	97	99	75	14	84	13	113	--	60
AGSOURCE	5970	116	--	--	--	--	103	--	--	--	--	85	10	116	--	56
FREEDOM	5503	116	106	--	111	--	103	101	--	76	12	85	10	111	--	56
FREEDOM	5662	111	--	--	--	--	98	--	--	--	--	85	10	106	--	56
HAWKEYE	SX70	117	--	--	--	--	104	--	--	--	--	85	10	114	--	56
MATURITY CHECK	MID - H2649	115	--	--	--	--	102	--	--	--	--	85	10	109	--	55
PFISTER	2750	124	--	--	--	--	110	--	--	--	--	85	10	112	--	56
ASGROW	RX730YG	123	102	--	112	--	109	97	--	76	12	85	11	114	--	57
CROPLAN GEN.	818	115	--	--	--	--	102	--	--	--	--	85	12	114	--	56
PIONEER	31A13	138	--	--	--	--	122	--	--	--	--	85	13	117	--	58
PSA	7855	108	--	170	--	--	96	--	106	--	--	86	10	108	--	55
TRIUMPH	1514Bt	123	104	--	114	--	109	99	--	77	12	86	10	112	--	55
US SEEDS	US C1139RR	95	100	--	97	--	84	95	--	77	12	86	10	102	--	56
CROPLAN GEN.	762 Bt/CL	110	--	--	--	--	97	--	--	--	--	86	11	114	--	57
GOLDEN HARVEST	H-9533Bt	104	--	--	--	--	92	--	--	--	--	86	11	113	--	55
HAWKEYE	SX51	101	--	--	--	--	90	--	--	--	--	86	11	112	--	58
PFISTER	3350	94	--	--	--	--	84	--	--	--	--	86	11	87	--	57

(continued)

TABLE 2. Brown Co. Corn Performance Test, 1998-2000.

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			1999-2000		2000				
		2000	1999	1998	2-Yr.	3-Yr.	2000	1999	1998	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
					AVG.	AVG.										
PFISTER	3977	121	99	157	110	126	108	95	98	76	12	86	11	113	--	57
ASGROW	RX799Bt	118	98	--	108	--	105	94	--	77	13	86	12	109	--	58
FONTANELLE	5800	113	--	--	--	--	101	--	--	--	--	86	12	109	--	56
PSA	4700Bt	112	97	181	105	130	99	93	113	76	13	86	12	112	--	58
MIDLAND	798 Bt	105	--	--	--	--	93	--	--	--	--	86	13	101	--	57
NC+	5018	119	104	175	111	133	106	99	109	78	11	87	9	116	--	54
GARST	8366Bt/LL	104	97	--	100	--	92	93	--	78	12	87	10	114	--	55
AGSOURCE	6412	95	--	--	--	--	85	--	--	--	--	87	11	109	--	59
ASGROW	RX740	106	107	--	106	--	94	102	--	78	12	87	11	116	--	58
HAWKEYE	9191	114	119	--	116	--	101	114	--	78	12	87	11	105	--	55
MYCOGEN	2888IMI	129	107	--	118	--	114	102	--	78	13	87	12	112	--	57
MIDWEST SEED	G 8795	106	127	--	117	--	94	121	--	79	14	87	13	108	--	57
AGRIPRO	9660Bt	119	--	--	--	--	105	--	--	--	--	88	10	111	--	55
CROPLAN GEN.	676 RR	81	--	--	--	--	72	--	--	--	--	88	10	110	--	53
DEKALB	DK647BtY	116	--	--	--	--	103	--	--	--	--	88	10	115	--	56
NC+	6359	88	--	--	--	--	78	--	--	--	--	88	10	113	--	55
LEWIS	6420	114	--	--	--	--	101	--	--	--	--	88	11	102	--	57
PIONEER	33G27	109	--	--	--	--	97	--	--	--	--	88	11	109	--	58
PSA	7864	118	110	170	114	133	105	105	106	78	12	88	11	112	--	55
ASGROW	RX889	107	97	--	102	--	95	92	--	79	13	88	12	114	--	57
MIDLAND	786	113	116	174	114	134	100	111	109	79	13	88	12	102	--	53
MIDLAND	798	110	--	175	--	--	98	--	109	--	--	88	12	112	--	57
AGSOURCE	7890	115	118	--	117	--	102	113	--	78	13	88	13	113	--	57
DEKALB	DK679	110	--	--	--	--	98	--	--	--	--	88	13	114	--	57
TRIUMPH	1866Bt	110	--	--	--	--	97	--	--	--	--	88	13	103	--	56
FREEDOM	5555	115	--	176	--	--	102	--	109	--	--	90	10	116	--	54
MATURITY CHECK	FULL - DS1997	101	--	--	--	--	89	--	--	--	--	90	11	92	--	54
WILSON	2330	84	115	180	100	126	75	110	112	82	15	92	15	112	--	54
	AVERAGES	113	105	160	109	126	113	105	160	77	12	86	11	109	--	56
	CV (%)	10	10	7	--	--	10	10	7	--	--	1	5	5	--	6
	LSD (0.05)**	13	12	13	--	--	12	12	8	--	--	1	1	6	--	4

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

NORTHEASTERN KANSAS STANDARD CORN TEST ON SILT LOAM SOIL

TARGET POPULATION: 22,000 plants/acre, 9.5 in. spacing
FINAL STAND (% of target): 107
SILK DATES: 7/2/00 - 7/9/00
YIELD: Avg. (bu/a): 176 **Range (bu/a):** 138 - 201
LSD (bu/a): 13 **CV (%):** 6

COUNTY: RILEY

LOCATION: Agronomy North Farm near Manhattan

TEST SITE: Reading silt loam

1999 CROP: Soybean

1998 CROP: Corn

FERTILIZER (lbs/acre): 130 N 30 P₂O₅ 0 K₂O

PLANTING DATE: 4/21/00

HARVEST DATE: 9/6/00

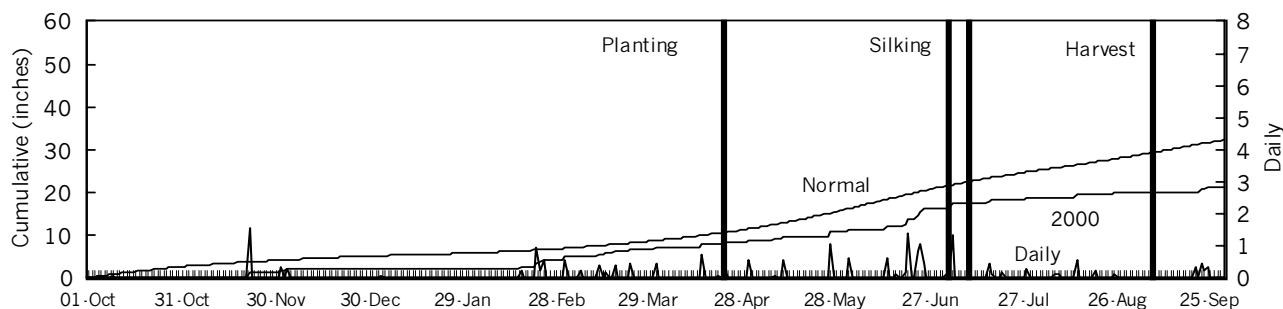
COOPERATORS: Kraig Roozeboom, agronomist; Karl Mannschreck, superintendent

CORN BORERS: (sus. hybrid)	Infestation (% plants)		Tunnels (in./plant)	Sample date
	ECB	SWCB		
--	--	--	--	--

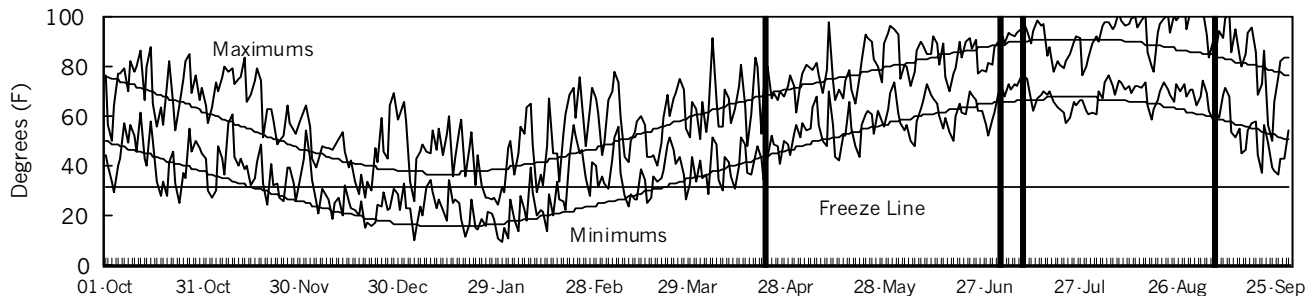
2000 GROWING CONDITIONS:

An excellent seedbed resulted in good stands. Flea beetles caused some damage at about the three-leaf stage, but the corn appeared to grow out of it fairly quickly. Adequate rainfall through July enabled the test to produce excellent yields, even though the grain filling period was shortened by heat and drought stress in August.

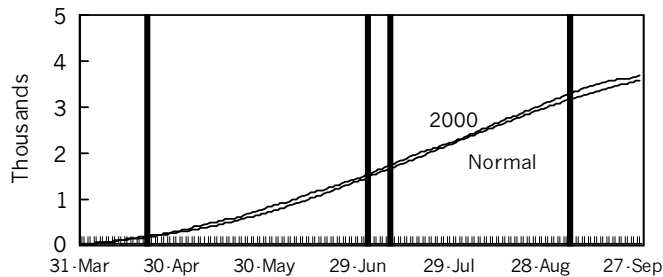
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	2000	Normal	2000	Normal	2000	Normal
April	1.7	2.8	55	54	259	254
May	2.4	4.4	68	64	538	438
June	5.3	5.3	73	73	648	717
July	2.5	3.9	78	79	800	851
August	1.2	3.4	83	77	858	771
Sept.	1.5	3.8	71	69	590	577
Season Totals	14.6	23.5	71	70	3693	3606

TABLE 3. Riley Co. Corn Performance Test, 1998-2000.

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			1999-2000		2000				
		2000	1999	1998	2-Yr.	3-Yr.	2000	1999	1998	Days	Grain	Days	Grain	Final Stand %	Ldg %	Test Wt. lb/bu
					AVG.	AVG.				to Silk	to Moist. %	to Silk	to Moist. %			
MATURITY CHECK	SHORT - C4111	151	136	102	143	129	86	95	79	69	13	72	11	103	--	58
MYCOGEN	2833	185	--	--	--	--	106	--	--	--	--	72	15	106	--	55
MATURITY CHECK	SHORT - G8590	173	--	--	--	--	98	--	--	--	--	73	12	108	--	58
CROPLAN GEN.	661	175	--	--	--	--	100	--	--	--	--	73	15	107	--	57
DEKALB	DK611	185	158	--	172	--	106	111	--	72	15	74	13	110	--	59
MIDLAND	7A18	138	--	--	--	--	79	--	--	--	--	74	14	98	--	58
MIDLAND	7E04	174	143	--	158	--	99	100	--	71	16	74	14	102	--	57
AGSOURCE	5983Bt	182	--	--	--	--	104	--	--	--	--	74	15	108	--	57
ASGROW	RX730YG	177	150	--	163	--	101	105	--	71	17	74	15	112	--	57
MYCOGEN	2767	187	--	--	--	--	106	--	--	--	--	74	15	110	--	56
PSA	7727	174	135	124	154	144	99	94	96	71	17	74	15	108	--	57
CROPLAN GEN.	762 Bt/CL	170	--	--	--	--	97	--	--	--	--	74	16	109	--	56
CROPLAN GEN.	818	189	--	--	--	--	108	--	--	--	--	74	16	106	--	56
PFISTER	2750	180	--	--	--	--	102	--	--	--	--	74	16	112	--	56
GOLDEN HARVEST	H-9533Bt	191	--	--	--	--	109	--	--	--	--	74	17	111	--	55
AGRIPRO	9689Bt	188	--	--	--	--	107	--	--	--	--	74	18	112	--	58
MATURITY CHECK	MID - H2530	175	127	120	151	141	100	89	93	72	13	75	11	108	--	56
MATURITY CHECK	MID - H2649	166	--	--	--	--	95	--	--	--	--	75	12	103	--	57
AGSOURCE	6412	159	--	--	--	--	90	--	--	--	--	75	14	104	--	60
AGRIPRO	9570Bt	183	--	--	--	--	104	--	--	--	--	75	15	112	--	56
AGSOURCE	6787	174	--	--	--	--	99	--	--	--	--	75	15	106	--	57
FREEDOM	5503	160	142	--	151	--	91	100	--	72	17	75	15	104	--	56
PSA	7855	172	--	127	--	--	98	--	98	--	--	75	15	106	--	57
ASGROW	RX799Bt	190	144	--	167	--	108	101	--	72	19	75	18	112	--	57
GARST	8363Bt	187	--	--	--	--	107	--	--	--	--	75	18	110	--	58
PSA	4700Bt	174	138	129	156	147	99	97	100	72	19	75	18	112	--	58
AGSOURCE	5970	177	--	--	--	--	101	--	--	--	--	76	11	105	--	58
CROPLAN GEN.	676 RR	164	--	--	--	--	94	--	--	--	--	76	13	107	--	58
NC+	5169	169	--	--	--	--	97	--	--	--	--	76	13	110	--	59
FREEDOM	5662	169	--	--	--	--	97	--	--	--	--	76	14	105	--	56
MIDLAND	XA17	160	--	--	--	--	91	--	--	--	--	76	14	103	--	59
PFISTER	3350	149	--	--	--	--	85	--	--	--	--	76	15	92	--	59
AGSOURCE	6887	194	--	--	--	--	110	--	--	--	--	76	16	107	--	56
MATURITY CHECK	FULL - P3162	164	123	134	143	140	93	86	104	74	18	76	16	106	--	59
NC+	6359	184	--	--	--	--	105	--	--	--	--	76	16	106	--	56
PIONEER	33G27	190	--	--	--	--	108	--	--	--	--	76	17	109	--	60
PIONEER	33P67	201	--	--	--	--	115	--	--	--	--	76	17	110	--	58
PFISTER	3977	180	147	146	164	158	103	103	113	73	20	76	18	108	--	55
NC+	5018	176	150	145	163	157	100	105	112	74	16	77	15	110	--	56
ASGROW	RX889	180	156	--	168	--	102	109	--	74	19	77	17	111	--	57
MIDLAND	795	180	149	--	164	--	102	104	--	74	19	77	17	101	--	57
PSA	7864	186	150	142	168	159	106	105	110	74	19	77	17	102	--	56
MIDLAND	798	176	151	127	164	151	101	106	98	75	21	77	18	105	--	57
MYCOGEN	2888IMI	174	152	--	163	--	99	107	--	74	20	77	18	110	--	57
AGSOURCE	7890	177	--	--	--	--	101	--	--	--	--	77	19	108	--	56
DEKALB	DK679	178	--	--	--	--	101	--	--	--	--	77	19	110	--	56
DEKALB	DK647BtY	187	--	--	--	--	106	--	--	--	--	78	16	112	--	56
FREEDOM	5555	181	--	126	--	--	103	--	98	--	--	78	18	107	--	56
MATURITY CHECK	FULL - DS1997	162	--	--	--	--	92	--	--	--	--	78	18	94	--	55
	AVERAGES	176	143	129	159	149	176	143	129	72	18	75	16	107	--	57
	CV (%)	6	6	9	--	--	6	6	9	--	--	1	7	4	--	1
	LSD (0.05)**	13	11	13	--	--	8	8	10	--	--	1	1	5	--	1

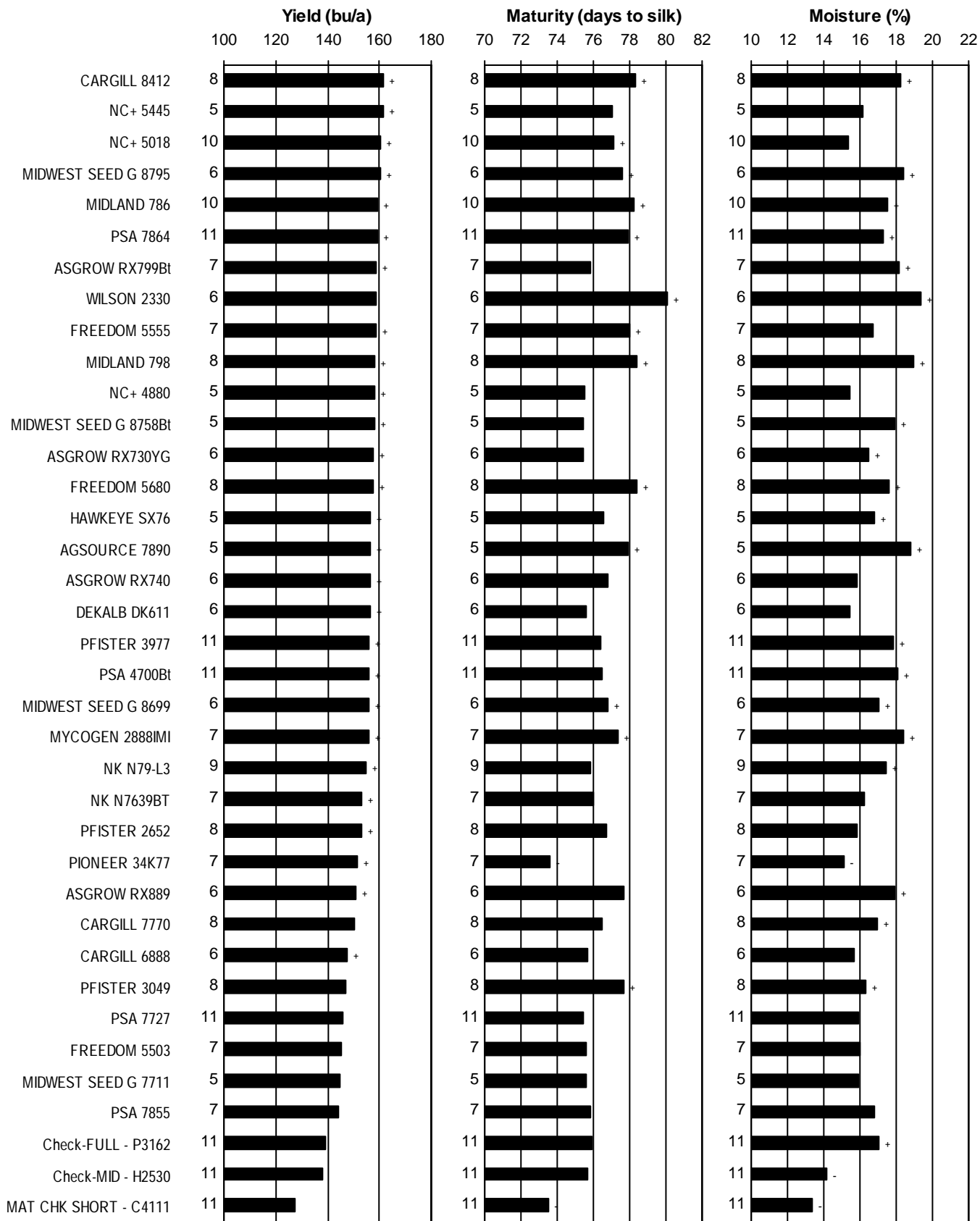
** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other.

TABLE 4. NORTHEAST Kansas corn hybrid yield summary (% of test average), 2000.

BRAND/NAME	DND ¹	BRD	RPD	RLD	AVG.	BRAND/NAME	DND ¹	BRD	RPD	RLD	AVG.
AGRIPRO						786	101	100	--	--	--
9570Bt	--	--	--	104	--	795	--	--	--	102	--
9660Bt	--	105	--	--	--	798	107	98	--	101	102
9689Bt	--	111	--	107	--	798 Bt	--	93	--	--	--
AGSOURCE						7A18	--	--	--	79	--
5970	106	103	--	101	103	7E04	--	--	--	99	--
5983Bt	91	103	--	104	99	XA15	97	--	--	--	--
6412	95	85	--	90	90	XA17	90	--	--	91	--
6787	104	105	--	99	103	MIDWEST SEED					
6887	105	105	--	110	107	G 7711	103	103	--	--	--
7890	101	102	--	101	101	G 7718Bt	112	110	--	--	--
ASGROW						G 8758Bt	105	--	--	--	--
RX730YG	111	109	--	101	107	G 8795	107	94	--	--	--
RX740	103	94	--	--	--	MYCOGEN					
RX799Bt	105	105	--	108	106	2767	94	96	--	106	99
RX889	91	95	--	102	96	2833	106	116	--	106	109
CROPLAN GEN.						2888IMI	100	114	--	99	104
661	104	109	--	100	104	NC+					
676 RR	95	72	--	94	87	4880	--	105	--	--	--
762 Bt/CL	105	97	--	97	100	5018	89	106	--	100	98
818	105	102	--	108	105	5169	--	--	--	97	--
DEKALB						6359	--	78	--	105	--
DK611	104	--	--	106	--	NK					
DK647BtY	113	103	--	106	107	N67-T4	107	109	--	--	--
DK679	--	98	--	101	--	N7590BT	--	112	--	--	--
FONTANELLE						N79-L3	101	115	--	--	--
5301	--	102	--	--	--	N83-Z8	104	--	--	--	--
5800	--	101	--	--	--	PFISTER					
FREEDOM						2750	106	110	--	102	106
5503	96	103	--	91	97	3350	83	84	--	85	84
5555	107	102	--	103	104	3977	94	108	--	103	102
5662	91	98	--	97	95	PIONEER					
GARST						31A13	113	122	--	--	--
8341	93	--	--	--	--	33G27	107	97	--	108	104
8363Bt	109	97	--	107	104	33P67	108	104	--	115	109
8366Bt/LL	--	92	--	--	--	34K77	87	107	--	--	--
GOLDEN HARVEST						PSA					
H-9533Bt	99	92	--	109	100	4700Bt	107	99	--	99	102
HAWKEYE						7727	98	107	--	99	101
9191	108	101	--	--	--	7855	93	96	--	98	96
SX51	--	90	--	--	--	7864	104	105	--	106	105
SX70	105	104	--	--	--	TAYLOR					
SX76	106	--	--	--	--	877Bt	96	--	--	--	--
HOEGEMEYER						TRIUMPH					
2668	87	--	--	--	--	1514Bt	--	109	--	--	--
2718	94	--	--	--	--	1866Bt	--	97	--	--	--
HBt821	104	--	--	--	--	US SEEDS					
LEWIS						US C1119RR	--	93	--	--	--
4740	102	101	--	--	--	US C1120	--	96	--	--	--
5450	103	--	--	--	--	US C1129Bt	--	104	--	--	--
5830	93	--	--	--	--	US C1131ND	--	96	--	--	--
6420	114	101	--	--	--	US C1139RR	--	84	--	--	--
MATURITY CHECK						WILSON					
FULL - DS1997	90	89	--	92	90	1762	103	105	--	--	--
FULL - P3162	87	92	--	93	91	1861Bt	105	109	--	--	--
MID - H2530	88	84	--	100	91	2330	94	75	--	--	--
MID - H2649	97	102	--	95	98	AVERAGES (bu/a)	189	113	--	176	159
SHORT - C4111	92	97	--	86	92	CV (%)	8	10	--	6	--
SHORT - G8590	94	98	--	98	97	LSD (0.05)**	9	12	--	8	--
MIDLAND											

¹ DND = Doniphan Co., Severance BRD = Brown Co., Powhattan RPD = Republic Co., Belleville RLD = Riley Co., Manhattan

FIGURE 5. NORTHEAST Kansas corn hybrid standardized performance summary, 1998-2000.



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

EAST CENTRAL KANSAS STANDARD CORN TEST ON SILT LOAM SOIL, IRRIGATED

TARGET POPULATION: 30,000 plants/acre, 7.0 in. spacing
FINAL STAND (% of target): 105
SILK DATES: 6/25/00 - 7/1/00
YIELD: Avg. (bu/a): 169 **Range (bu/a):** 137 - 204
LSD (bu/a): 17 **CV (%):** 8

COUNTY: SHAWNEE

LOCATION: Kansas River Valley Experiment Field, Silver Lake

TEST SITE: Eudora silt loam

1999 CROP: Soybean

1998 CROP: Corn

FERTILIZER (lbs/acre): 160 N 35 P₂O₅ 0 K₂O

PLANTING DATE: 4/12/00

HARVEST DATE: 9/1/00

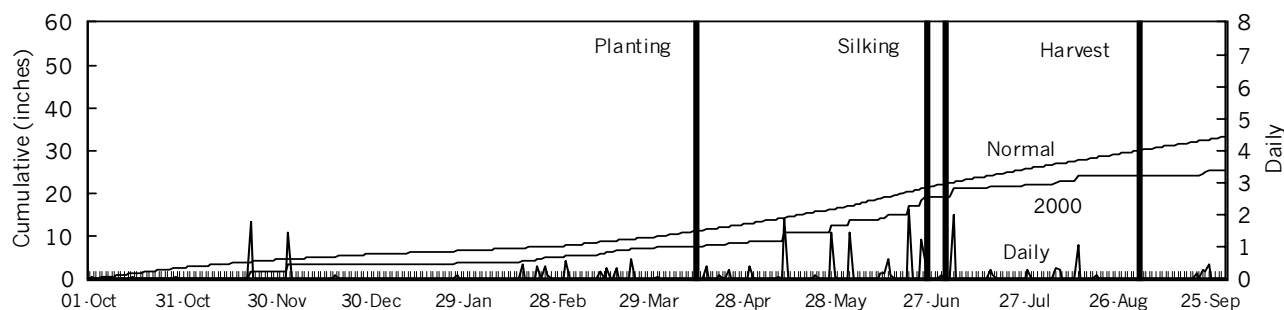
COOPERATORS: Larry Maddux, agronomist; Charles Clark and William Riley, technicians

CORN BORERS: (susc. hybrid)	Infestation (% plants)		Tunnels (in./plant)	Sample date
	ECB	SWCB		
	--	--	--	--

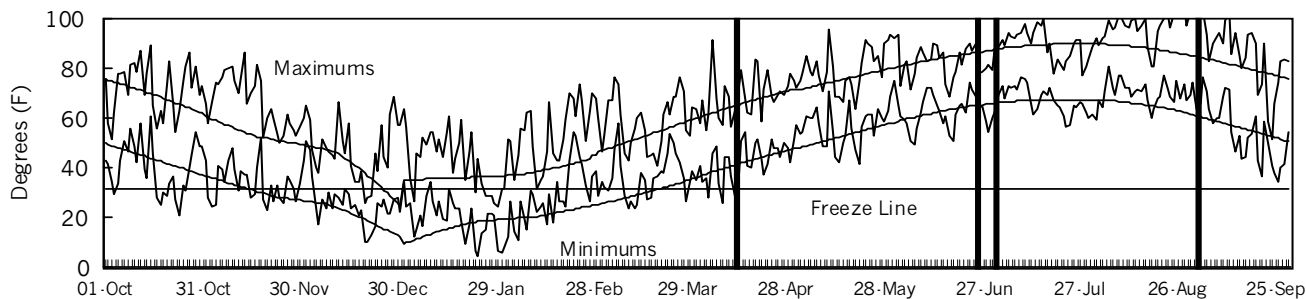
2000 GROWING CONDITIONS:

A warm April and good early-season growing conditions facilitated good early growth, although most of May was drier than normal. Early planting and silking enabled the test to set grain and mature before most of the heat and drought stress that arrived in August. An August windstorm caused considerable stalk lodging. Some cornborer damage also may have weakened some stalks.

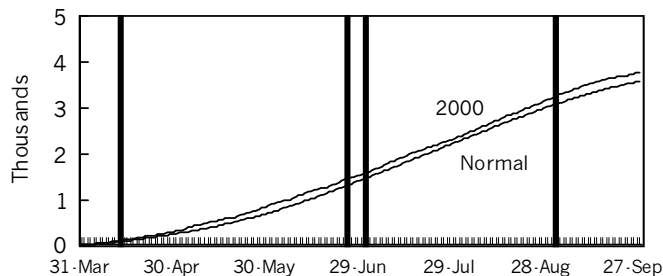
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	2000	Normal	2000	Normal	2000	Normal
April	1.0	3.2	56	54	287	253
May	4.2	3.9	68	65	560	441
June	6.8	5.3	73	74	671	730
July	3.0	4.0	78	79	803	855
August	1.8	3.6	83	77	864	772
Sept.	1.2	3.5	71	69	595	560
Season Totals	18.0	23.3	72	69	3780	3611

TABLE 5. Shawnee Co. Irrigated Corn Performance Test, 1998-2000.

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			1999-2000		2000				
		2000	1999	1998	2-Yr. AVG.	3-Yr. AVG.	2000	1999	1998	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
		MATURITY CHECK	SHORT - C4111	137	134	116	136	129	81	91	77	76	15	74	14	108
MATURITY CHECK	SHORT - G8590	158	--	--	--	--	94	--	--	--	--	74	14	104	3	57
KAYSTAR	KX - 911	180	--	--	--	--	107	--	--	--	--	74	15	101	4	57
MYCOGEN	2833	158	--	--	--	--	93	--	--	--	--	74	15	97	5	56
MATURITY CHECK	MID - H2530	156	133	124	145	138	93	90	82	77	15	75	14	102	2	56
AGRIPRO	9570Bt	158	--	--	--	--	93	--	--	--	--	75	15	112	8	57
ASGROW	RX730YG	175	158	--	167	--	104	107	--	77	17	75	15	109	4	57
ASGROW	RX799Bt	204	156	--	180	--	121	106	--	77	17	75	15	113	17	57
DEKALB	DKC63-22	176	--	--	--	--	104	--	--	--	--	75	15	109	3	57
GARST	8341	160	--	--	--	--	95	--	--	--	--	75	15	104	3	56
KAYSTAR	KX - 890 Bt	155	--	--	--	--	92	--	--	--	--	75	15	106	5	56
MIDLAND	XA15	159	--	--	--	--	94	--	--	--	--	75	15	103	7	57
MYCOGEN	2767	161	--	--	--	--	95	--	--	--	--	75	15	110	3	57
NK	N67-T4	160	--	--	--	--	95	--	--	--	--	75	15	110	5	57
PIONEER	34R07	150	133	--	142	--	89	90	--	77	16	75	15	100	1	57
TAYLOR	EXP7550	178	--	--	--	--	105	--	--	--	--	75	15	110	2	57
MATURITY CHECK	MID - H2649	150	--	--	--	--	89	--	--	--	--	76	14	94	5	57
AGRIPRO	9689Bt	177	--	--	--	--	105	--	--	--	--	76	15	109	20	57
ASGROW	RX813	173	--	134	--	--	102	--	89	--	--	76	15	104	4	57
DEKALB	DK611	171	--	--	--	--	101	--	--	--	--	76	15	107	6	57
GOLDEN HARVEST	H-9533Bt	156	--	--	--	--	92	--	--	--	--	76	15	107	3	56
HOEGEMEYER	2666	149	140	146	145	145	88	95	97	77	17	76	15	106	4	57
HOEGEMEYER	HBt821	168	--	--	--	--	100	--	--	--	--	76	15	109	4	57
MIDLAND	XA17	152	--	--	--	--	90	--	--	--	--	76	15	100	9	58
NK	N79-L3	165	136	165	151	156	98	92	110	78	17	76	15	112	8	60
PIONEER	33P67	187	--	--	--	--	111	--	--	--	--	76	15	118	10	58
CROPLAN GEN.	818	187	--	--	--	--	111	--	--	--	--	76	16	97	5	56
GARST	8363Bt	195	--	--	--	--	115	--	--	--	--	76	16	116	7	58
MATURITY CHECK	FULL - P3162	149	156	122	153	143	88	106	81	77	19	76	16	99	7	58
DEKALB	DK647BtY	180	154	--	167	--	107	104	--	78	17	77	15	107	9	56
PIONEER	3237	180	140	164	160	161	106	95	109	80	17	77	15	109	4	57
MIDLAND	798	191	--	155	--	--	113	--	103	--	--	78	16	105	12	58
MYCOGEN	2888IMI	194	161	--	178	--	115	109	--	79	18	78	16	109	11	58
PIONEER	31A13	184	--	--	--	--	109	--	--	--	--	78	16	103	11	58
TAYLOR	877Bt	180	--	--	--	--	106	--	--	--	--	78	16	97	18	58
NC+	6359	158	--	--	--	--	94	--	--	--	--	79	15	103	11	55
HOEGEMEYER	2728	190	--	--	--	--	113	--	--	--	--	79	16	102	16	58
MIDLAND	786	188	176	154	182	172	111	120	102	79	17	79	16	93	6	56
MATURITY CHECK	FULL - DS1997	157	150	--	153	--	93	102	--	80	17	80	16	90	11	56
	AVERAGES	169	148	151	158	156	169	148	151	78	17	76	15	105	7	57
	CV (%)	8	12	6	--	--	8	12	6	--	--	1	2	5	70	1
	LSD (0.05)**	17	21	13	--	--	10	14	9	--	--	1	0	6	6	1

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

NORTHEAST KANSAS STANDARD CORN TEST ON SILT LOAM SOIL, IRRIGATED

TARGET POPULATION: 30,000 plants/acre, 7.0 in. spacing

FINAL STAND (% of target): 107

SILK DATES: 7/4/00 - 7/12/00

YIELD: Avg. (bu/a): 153 **Range (bu/a):** 111 - 180

LSD (bu/a): 16 **CV (%):** 9

COUNTY: CLAY

LOCATION: Mark Taddiken farm near Clifton

TEST SITE: Muir silt loam

1999 CROP: Soybean

1998 CROP: Corn

FERTILIZER (lbs/acre): 200 N 15 P₂O₅ 0 K₂O

PLANTING DATE: 4/25/00

HARVEST DATE: 9/21/00

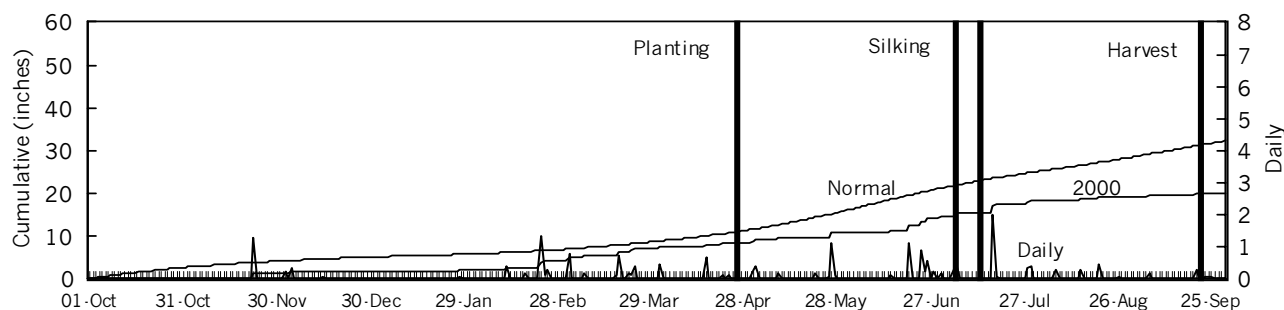
COOPERATORS: Mark Taddiken; Taddiken Farm, Inc.

CORN BORERS: (sus. hybrid)	Infestation (% plants)		Tunnels (in./plant)	Sample date
	ECB	SWCB		
	--	--	--	--

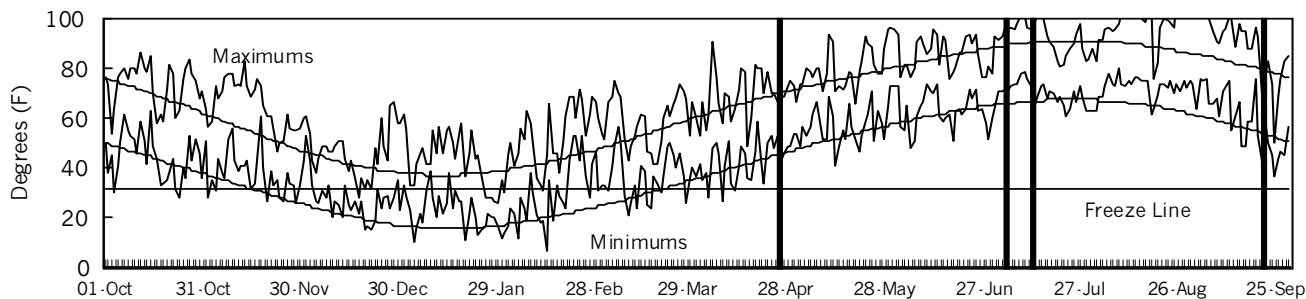
2000 GROWING CONDITONS:

The test was no-till planted into soybean stubble with good moisture. Good stands and early growth got the test off to a fast start. Insecticide was applied on May 6 and May 22 to control flea beetles and dingy cutworm. Hot, dry conditions in August shortened grain fill, hastened dry-down, and weakened stalks. All hybrids had some level of lodging, but many were severely lodged.

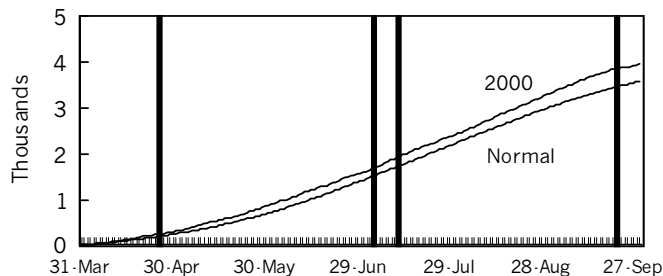
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	2000	Normal	2000	Normal	2000	Normal
April	1.5	2.8	56	54	293	254
May	2.5	4.4	69	64	561	438
June	3.3	5.3	75	73	700	717
July	3.9	3.9	81	79	849	851
August	1.2	3.4	85	77	897	771
Sept.	0.7	3.8	75	69	658	577
Season Totals	13.1	23.5	73	70	3958	3606

TABLE 6. Clay Co. Irrigated Corn Performance Test, 1998-2000.

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			1999-2000		2000				
		2000	1999	1998	2-Yr.	3-Yr.	2000	1999	1998	Days	Grain	Days	Grain	Final Stand %	Ldg %	Test Wt. lb/bu
					AVG.	AVG.				to Silk	to Moist. %	to Silk	to Moist. %			
MATURITY CHECK	SHORT - C4111	129	--	--	--	--	84	--	--	--	--	70	10	112	41	57
GOLDEN HARVEST	H-9177Bt	166	--	--	--	--	108	--	--	--	--	71	10	114	8	59
MIDLAND	7A18	153	--	--	--	--	100	--	--	--	--	71	10	100	28	60
PREMIUM	P230	167	--	--	--	--	109	--	--	--	--	71	10	110	21	59
US SEEDS	US C1120	178	--	--	--	--	116	--	--	--	--	71	11	102	6	59
AGRIPRO	9570Bt	168	--	--	--	--	110	--	--	--	--	72	10	112	16	59
AGSOURCE	5983Bt	172	--	--	--	--	112	--	--	--	--	72	10	108	40	59
DEKALB	DK611	140	--	--	--	--	91	--	--	--	--	72	10	110	41	59
GARST	8341	140	--	--	--	--	91	--	--	--	--	72	10	97	33	59
KAYSTAR	KX - 890 Bt	164	--	--	--	--	107	--	--	--	--	72	10	113	58	58
MATURITY CHECK	SHORT - G8590	164	--	--	--	--	107	--	--	--	--	72	10	109	18	58
MIDLAND	785RR	156	--	--	--	--	102	--	--	--	--	72	10	101	36	58
MIDLAND	XB15	161	--	--	--	--	105	--	--	--	--	72	10	110	48	59
MIDWEST SEED	G 7711	129	--	--	--	--	84	--	--	--	--	72	10	104	60	58
MIDWEST SEED	G 7718Bt	180	--	--	--	--	117	--	--	--	--	72	10	111	40	59
MYCOGEN	2767	163	--	--	--	--	106	--	--	--	--	72	10	108	24	59
MYCOGEN	2833	172	--	--	--	--	112	--	--	--	--	72	10	106	23	58
US SEEDS	US C1119RR	163	--	--	--	--	106	--	--	--	--	72	10	106	23	56
US SEEDS	US C1129Bt	167	--	--	--	--	109	--	--	--	--	72	10	108	36	59
AGSOURCE	6787	169	--	--	--	--	110	--	--	--	--	72	11	108	31	59
US SEEDS	US C1151ND	144	--	--	--	--	94	--	--	--	--	72	11	101	70	60
AGRIPRO	9689Bt	165	--	--	--	--	108	--	--	--	--	72	12	112	78	61
AGSOURCE	5970	162	--	--	--	--	105	--	--	--	--	73	10	107	26	59
MATURITY CHECK	MID - H2530	161	--	--	--	--	105	--	--	--	--	73	10	104	26	57
MATURITY CHECK	MID - H2649	141	--	--	--	--	92	--	--	--	--	73	10	99	25	59
MIDLAND	XA15	177	--	--	--	--	116	--	--	--	--	73	10	106	23	59
US SEEDS	US C1139RR	146	--	--	--	--	96	--	--	--	--	73	10	102	63	59
AGSOURCE	6412	147	--	--	--	--	96	--	--	--	--	73	11	103	31	61
AGSOURCE	6887	176	--	--	--	--	115	--	--	--	--	73	11	110	9	60
ASGROW	RX740	150	--	--	--	--	98	--	--	--	--	73	11	110	33	61
DEKALB	DKC63-22	166	--	--	--	--	108	--	--	--	--	73	11	110	16	59
KAYSTAR	KX - 911	159	--	--	--	--	104	--	--	--	--	73	11	107	24	59
PIONEER	34R07	145	--	--	--	--	94	--	--	--	--	73	11	106	73	59
US SEEDS	US C1131ND	111	--	--	--	--	72	--	--	--	--	73	11	108	65	60
GARST	8363Bt	148	--	--	--	--	96	--	--	--	--	73	12	114	73	61
MATURITY CHECK	FULL - P3162	130	--	--	--	--	85	--	--	--	--	73	12	110	20	62
ASGROW	RX799Bt	149	--	--	--	--	97	--	--	--	--	74	11	108	58	61
DEKALB	DK647BtY	159	--	--	--	--	103	--	--	--	--	74	11	118	18	59
GARST	8366Bt/LL	132	--	--	--	--	86	--	--	--	--	74	11	112	21	59
PIONEER	3237	155	--	--	--	--	101	--	--	--	--	74	11	100	12	59
PIONEER	33P67	171	--	--	--	--	112	--	--	--	--	74	11	109	19	61
MIDLAND	XA17	148	--	--	--	--	96	--	--	--	--	75	10	99	34	60
CROPLAN GEN.	818	177	--	--	--	--	116	--	--	--	--	75	11	110	16	58
MIDLAND	798 Bt	138	--	--	--	--	90	--	--	--	--	75	11	99	83	60
MIDWEST SEED	G 8795	141	--	--	--	--	92	--	--	--	--	75	11	106	68	59
PIONEER	31A13	162	--	--	--	--	105	--	--	--	--	75	12	110	48	60
MIDLAND	795	148	--	--	--	--	96	--	--	--	--	76	10	103	31	59
AGSOURCE	7890	136	--	--	--	--	89	--	--	--	--	76	11	107	55	61
ASGROW	RX889	156	--	--	--	--	102	--	--	--	--	76	11	115	13	60
MIDLAND	798	127	--	--	--	--	83	--	--	--	--	76	11	106	78	60
MYCOGEN	2888IMI	133	--	--	--	--	87	--	--	--	--	76	11	103	55	60
MATURITY CHECK	FULL - DS1997	133	--	--	--	--	87	--	--	--	--	78	11	94	14	59
	AVERAGES	153	--	--	--	--	153	--	--	--	--	73	11	107	36	59
	CV (%)	9	--	--	--	--	9	--	--	--	--	1	4	4	61	1
	LSD (0.05)**	16	--	--	--	--	11	--	--	--	--	1	1	5	26	1

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

NORTH CENTRAL KANSAS STANDARD CORN TEST, IRRIGATED

TARGET POPULATION: 30,000 plants/acre, 7.0 in. spacing
FINAL STAND (% of target): 118
SILK DATES: 7/6/00 - 7/13/00
YIELD: Avg. (bu/a): 198 Range (bu/a): 153 - 228
LSD (bu/a): 16 CV (%): 7

COUNTY: REPUBLIC

LOCATION: Irrigation Experiment Field, Scandia

TEST SITE: Crete silt loam

1999 CROP: Soybean

1998 CROP: Corn

FERTILIZER (lbs/acre): 220 N 30 P₂O₅ 0 K₂O

PLANTING DATE: 4/17/00

HARVEST DATE: 9/20/00

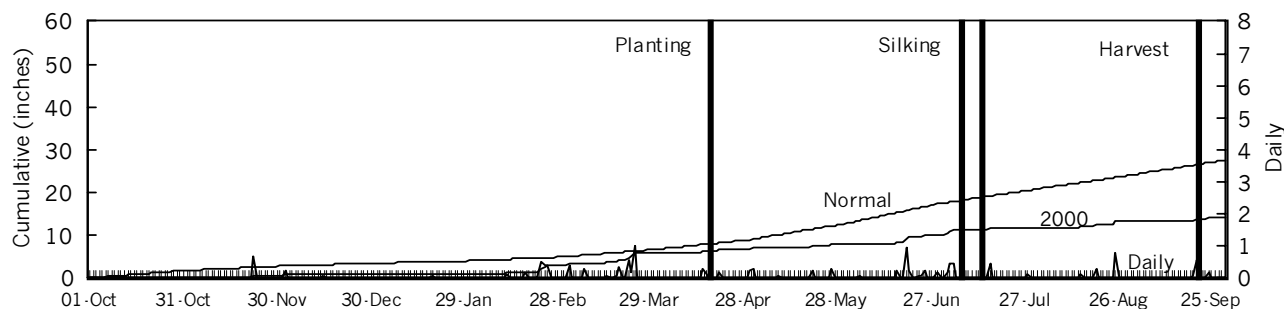
COOPERATORS: Barney Gordon, agronomist; Michael Larson and Allan Milner, technicians

CORN BORERS: (susc. hybrid)	Infestation (% plants)		Tunnels (in./plant)	Sample date
	ECB	SWCB		
	--	--	--	--

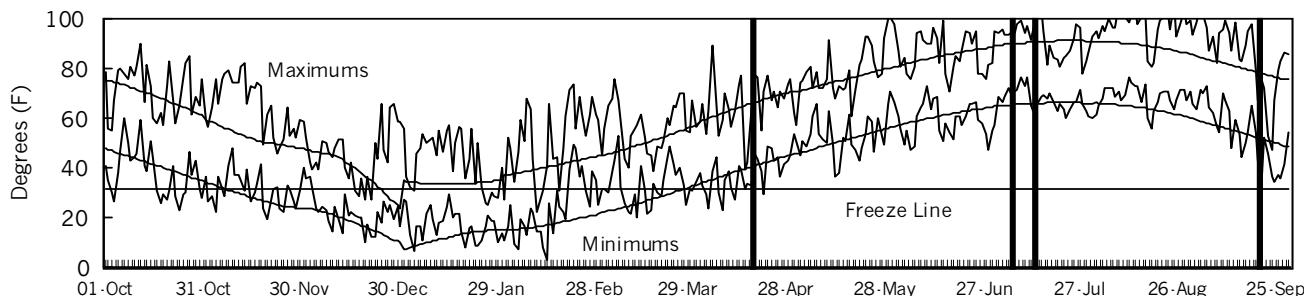
2000 GROWING CONDITIONS:

Favorable planting conditions resulted in excellent stand establishment. Dry, hot conditions characterized the rest of the growing season. Frequent irrigations maintained soil moisture, resulting in excellent yields.

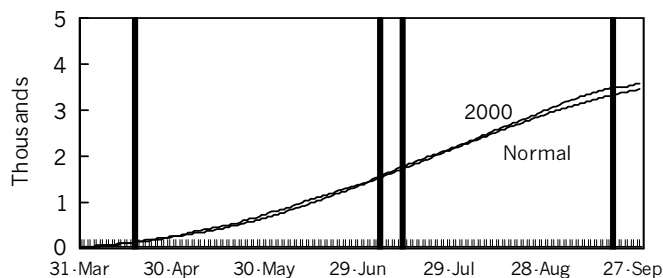
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	2000	Normal	2000	Normal	2000	Normal
April	0.7	2.4	51	52	241	235
May	1.2	3.7	66	64	487	419
June	2.2	4.8	73	73	637	711
July	1.8	3.3	79	79	810	834
August	1.3	3.3	83	77	842	751
Sept.	0.9	3.5	70	68	578	528
Season Totals	8.1	20.9	71	69	3595	3478

TABLE 7. Republic Co. Irrigated Corn Performance Test, 1998-2000.

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			1999-2000		2000				
		2000	1999	1998	2-Yr.	3-Yr.	2000	1999	1998	Days	Grain	Days	Grain	Final Stand %	Ldg %	Test Wt. lb/bu
					AVG.	AVG.				to Silk	to Moist. %	to Silk	to Moist. %			
MATURITY CHECK	SHORT - C4111	153	169	138	161	153	77	88	79	74	11	80	10	122	--	59
MATURITY CHECK	SHORT - G8590	190	--	--	--	--	96	--	--	--	--	80	11	115	--	60
MYCOGEN	2767	215	--	--	--	--	108	--	--	--	--	81	12	120	--	59
MYCOGEN	2833	228	--	--	--	--	115	--	--	--	--	81	12	115	--	59
FONTANELLE	5301	200	--	--	--	--	101	--	--	--	--	82	11	114	--	60
KAYSTAR	KX - 890 Bt	226	--	--	--	--	114	--	--	--	--	82	11	121	--	59
KAYSTAR	KX - 911	193	--	--	--	--	97	--	--	--	--	82	11	116	--	59
MIDLAND	XB15	206	--	--	--	--	104	--	--	--	--	82	12	119	--	60
NC+	4880	203	209	--	206	--	102	110	--	76	13	82	12	118	--	59
GARST	8341	208	--	--	--	--	105	--	--	--	--	82	13	116	--	59
GARST	8543Bt/IT	221	206	--	214	--	111	108	--	77	14	82	13	121	--	59
MATURITY CHECK	FULL - P3162	191	163	158	177	171	96	86	90	77	14	82	13	115	--	61
PIONEER	31A13	195	--	--	--	--	98	--	--	--	--	82	13	117	--	61
MYCOGEN	2888IMI	204	189	--	197	--	103	99	--	78	15	82	14	120	--	60
DEKALB	DK595BtY	184	210	--	197	--	93	110	--	77	12	83	10	123	--	59
MATURITY CHECK	MID - H2530	191	181	148	186	173	96	95	84	77	12	83	10	118	--	59
MATURITY CHECK	MID - H2649	190	--	--	--	--	96	--	--	--	--	83	10	115	--	59
MIDLAND	785RR	200	--	--	--	--	101	--	--	--	--	83	11	110	--	60
MIDWEST SEED	G 7711	208	--	181	--	--	105	--	103	--	--	83	11	118	--	59
MIDWEST SEED	G 7718Bt	220	--	--	--	--	111	--	--	--	--	83	11	120	--	59
GARST	8363Bt	192	--	--	--	--	97	--	--	--	--	83	12	126	--	61
NC+	5445	207	208	192	208	202	105	109	110	78	13	83	12	120	--	59
NK	N67-T4	200	--	--	--	--	101	--	--	--	--	83	12	121	--	59
NK	N79-L3	213	207	182	210	201	108	108	104	78	14	83	12	124	--	61
AGRIPRO	9570Bt	196	--	--	--	--	99	--	--	--	--	83	13	118	--	60
ASGROW	RX799Bt	176	194	192	185	187	88	102	110	78	15	83	13	118	--	60
PIONEER	33P67	223	--	--	--	--	113	--	--	--	--	83	13	122	--	61
ASGROW	RX740	205	198	--	202	--	103	104	--	78	12	84	11	122	--	61
DEKALB	DK611	213	--	--	--	--	107	--	--	--	--	84	11	113	--	61
HOEGEMEYER	2668	184	187	--	185	--	93	98	--	77	13	84	11	118	--	59
MIDLAND	XA17	176	--	--	--	--	89	--	--	--	--	84	11	113	--	61
FONTANELLE	5800	195	--	--	--	--	99	--	--	--	--	84	12	124	--	59
GARST	8366Bt/LL	188	194	--	191	--	95	102	--	80	13	84	12	122	--	58
MIDLAND	795	189	211	--	200	--	95	111	--	80	13	84	12	113	--	59
MIDLAND	XA15	189	--	--	--	--	95	--	--	--	--	84	12	114	--	59
PIONEER	3237	203	188	184	196	192	102	99	105	80	14	84	12	116	--	61
PIONEER	33H68	220	--	--	--	--	111	--	--	--	--	84	12	122	--	61
AGRIPRO	9689Bt	181	--	--	--	--	91	--	--	--	--	84	13	125	--	60
ASGROW	RX889	206	191	195	199	197	104	100	111	80	14	84	13	123	--	60
CROPLAN GEN.	818	219	--	--	--	--	110	--	--	--	--	84	13	116	--	59
GOLDEN HARVEST	H-9533Bt	191	--	--	--	--	96	--	--	--	--	84	13	118	--	59
HOEGEMEYER	2728	197	--	--	--	--	99	--	--	--	--	84	13	121	--	60
MIDLAND	798 Bt	214	--	--	--	--	108	--	--	--	--	84	13	107	--	60
MIDLAND	798	207	200	193	204	200	104	105	110	80	15	84	14	113	--	60
HOEGEMEYER	2718	207	186	--	196	--	104	98	--	78	13	85	11	118	--	58
DEKALB	DKC63-22	181	--	--	--	--	91	--	--	--	--	85	12	121	--	60
NC+	6359	204	--	--	--	--	103	--	--	--	--	85	12	118	--	59
MIDWEST SEED	G 8795	170	179	--	175	--	86	94	--	80	15	86	13	114	--	60
NK	N83-Z8	173	--	--	--	--	87	--	--	--	--	86	13	111	--	60
MATURITY CHECK	FULL - DS1997	180	--	--	--	--	91	--	--	--	--	87	13	109	--	59
	AVERAGES	198	191	175	194	188	198	191	175	78	14	83	12	118	--	60
	CV (%)	7	4	4	--	--	7	4	4	--	--	1	7	3	--	1
	LSD (0.05)**	16	9	8	--	--	8	5	5	--	--	0	1	4	--	1

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

TABLE 8. NORTHEAST Kansas IRRIGATED corn hybrid yield summary (% of test avg.), 2000.

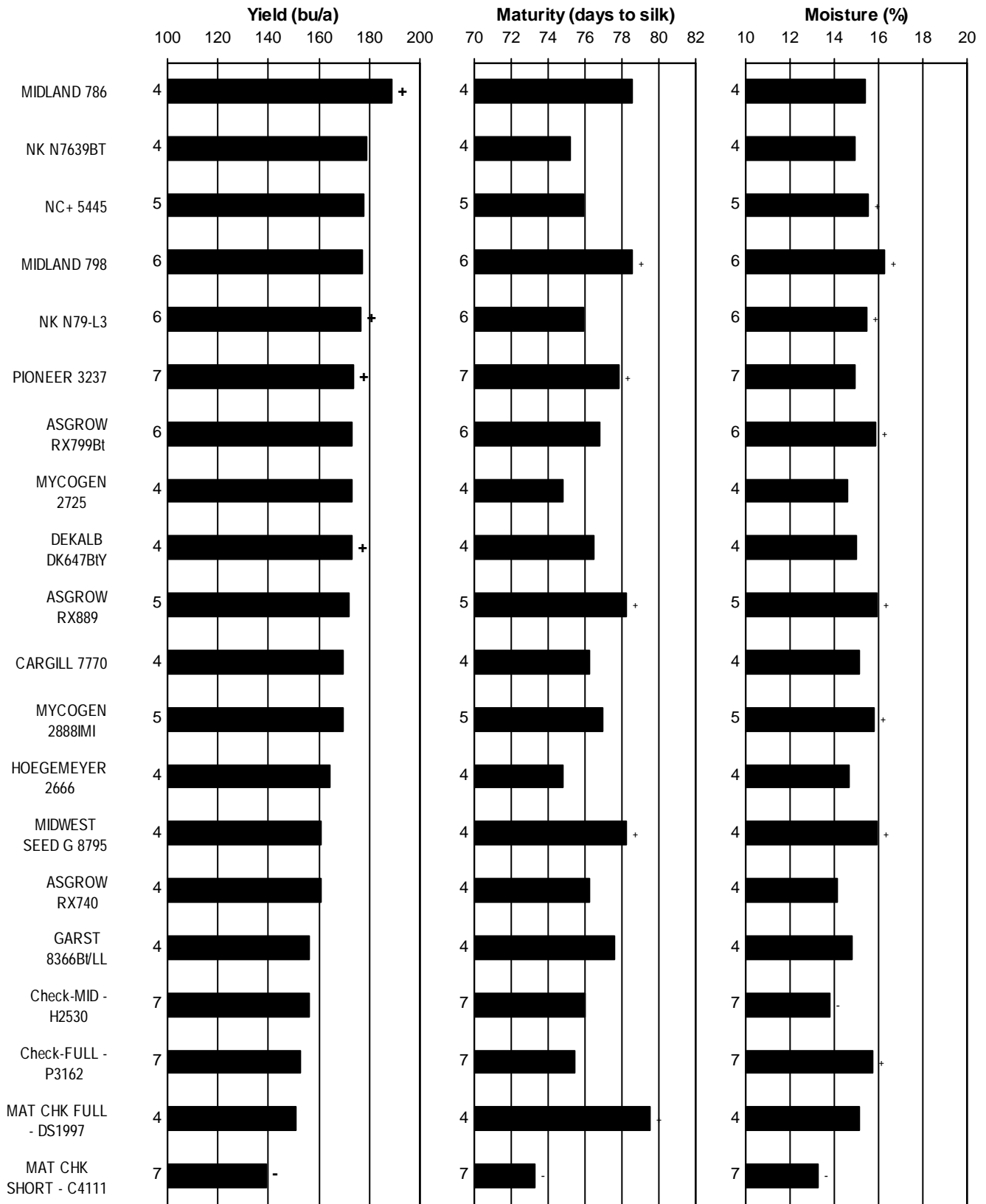
BRAND/NAME	SHI ¹	CLI	RPI	AVG.	BRAND/NAME	SHI ¹	CLI	RPI	AVG.
AGRIPRO					MIDLAND				
9570Bt	93	110	99	101	785RR	--	102	101	--
9689Bt	105	108	91	101	786	111	--	--	--
AGSOURCE					MIDWEST SEED				
5970	--	105	--	--	G 7711	--	84	105	--
5983Bt	--	112	--	--	G 7718Bt	--	117	111	--
6412	--	96	--	--	G 8795	--	92	86	--
6787	--	110	--	--	MYCOGEN				
6887	--	115	--	--	2767	95	106	108	103
7890	--	89	--	--	2833	93	112	115	107
ASGROW					NC+				
RX730YG	104	--	--	--	4880	--	--	102	--
RX740	--	98	103	--	5445	--	--	105	--
RX799Bt	121	97	88	102	6359	94	--	103	--
RX813	102	--	--	--	NK				
RX889	--	102	104	--	N67-T4	95	--	101	--
CROPLAN GEN.					PIONEER				
818	111	116	110	112	31A13	109	105	98	104
DEKALB					PREMIUM				
DK595BtY	--	--	93	--	P230	--	109	--	--
DK611	101	91	107	100	TAYLOR				
DK647BtY	107	103	--	--	877Bt	106	--	--	--
DKC63-22	104	108	91	101	EXP7550	105	--	--	--
FONTANELLE					US SEEDS				
5301	--	--	101	--	US C1119RR	--	106	--	--
5800	--	--	99	--	US C1120	--	116	--	--
GARST					US C1129Bt				
8341	95	91	105	97	US C1131ND	--	72	--	--
8363Bt	115	96	97	103	US C1139RR	--	96	--	--
8366Bt/LL	--	86	95	--	US C1151ND	--	94	--	--
8543Bt/IT	--	--	111	--	AVERAGES (bu/a)				
GOLDEN HARVEST					CV (%)				
H-9177Bt	--	108	--	--	8	9	7	--	--
H-9533Bt	92	--	96	--	LSD (0.05)**				
HOEGEMEYER					10				
2666	88	--	--	--					
2668	--	--	93	--					
2718	--	--	104	--					
2728	113	--	99	--					
HBt821	100	--	--	--					
KAYSTAR									
KX - 890 Bt	92	107	114	104					
KX - 911	107	104	97	103					
MATURITY CHECK									
FULL - DS1997	93	87	91	90					
FULL - P3162	88	85	96	90					
MID - H2530	93	105	96	98					
MID - H2649	89	92	96	92					
SHORT - C4111	81	84	77	81					
SHORT - G8590	94	107	96	99					

¹ SHI = Shawnee Co., Silver Lake

CLI = Clay Co., Clifton

RPI = Republic Co., Scandia

FIGURE 6. NORTHEAST Kansas IRRIGATED corn hybrid standardized performance summary, 1998-2000.



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

EAST CENTRAL KANSAS STANDARD CORN TEST ON SILTY CLAY LOAM

TARGET POPULATION: 22,000 plants/acre, 9.5 in. spacing

FINAL STAND (% of target): 95

SILK DATES: 6/25/00 - 7/3/00

YIELD: Avg. (bu/a): 141 **Range (bu/a):** 122 - 168

LSD (bu/a): 18 **CV (%):** 11

COUNTY: SHAWNEE

LOCATION: Erma Harden farm northwest of Topeka

TEST SITE: Silt loam

1999 CROP: Soybean

1998 CROP: Corn

FERTILIZER (lbs/acre): 140 N 35 P₂O₅ 0 K₂O

PLANTING DATE: 4/12/00

HARVEST DATE: 9/1/00

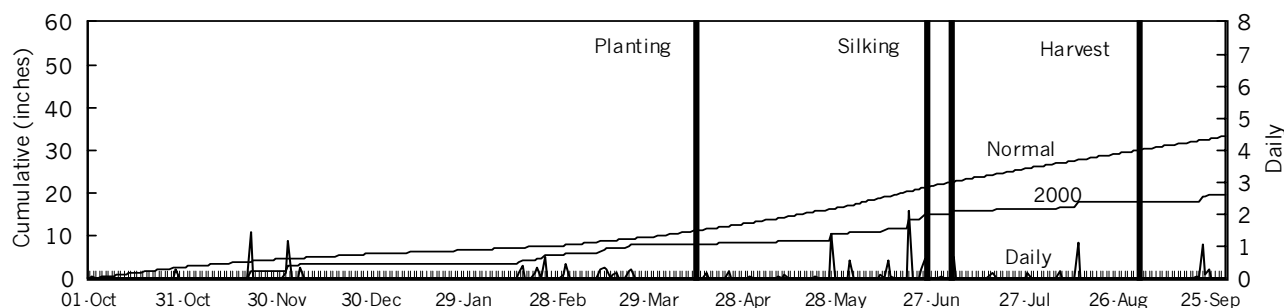
COOPERATORS: Larry Maddux, agronomist; Charles Clark and William Riley, technicians; Hap Anderson and J.D. Hanna

CORN BORERS:	Infestation (% plants)		Tunnels (in./plant)	Sample date
	ECB	SWCB		
(susc. hybrid)	--	--	--	--

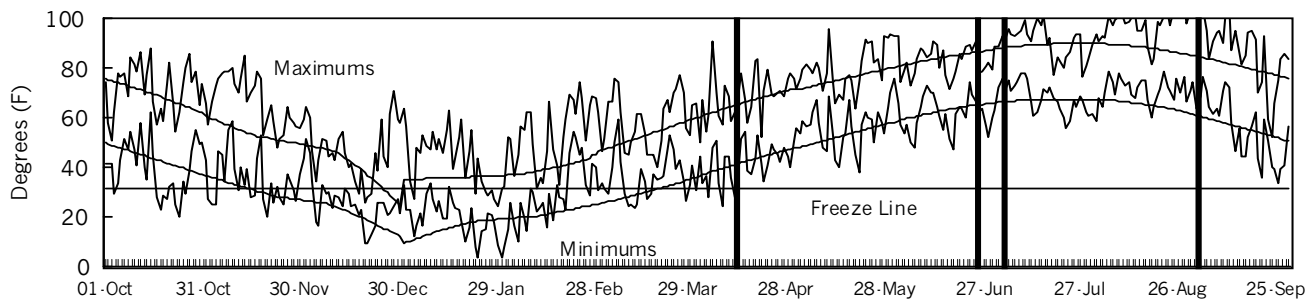
2000 GROWING CONDITIONS:

A warm April followed by favorable early-season growing conditions enabled a good start, although May was drier than normal. The good early-season growth set the stage for good yields. Early planting and silking helped avoid heat and drought stress during grain fill. Lodging and insect damage were minimal.

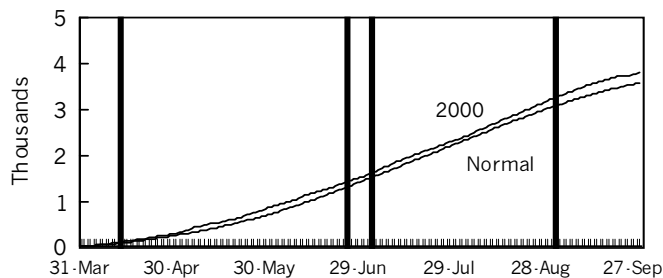
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	2000	Normal	2000	Normal	2000	Normal
April	0.6	3.2	55	54	282	253
May	1.9	3.9	68	65	553	441
June	4.6	5.3	73	74	662	730
July	1.4	4.0	79	79	816	855
August	1.5	3.6	84	77	878	772
Sept.	1.6	3.5	72	69	616	560
Season Totals	11.5	23.3	72	69	3805	3611

TABLE 9. Shawnee Co. Dryland Corn Performance Test, 1998-2000.

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			1999-2000		2000				
		2000	1999	1998	2-Yr. AVG.	3-Yr. AVG.	2000	1999	1998	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
		MATURITY CHECK	SHORT - C4111	130	87	109	108	108	92	79	69	69	14	74	13	104
CROPLAN GEN.	661	135	--	--	--	--	95	--	--	--	--	74	14	89	0	56
CROPLAN GEN.	762 Bt/CL	126	--	--	--	--	89	--	--	--	--	74	14	90	0	56
GARST	8543Bt/IT	134	101	--	118	--	95	92	--	71	15	75	13	99	0	55
ASGROW	RX730YG	168	125	--	146	--	119	113	--	70	14	75	14	99	0	57
MATURITY CHECK	SHORT - G8590	124	--	--	--	--	88	--	--	--	--	75	14	92	0	57
MIDWEST SEED	G 7711	133	--	--	--	--	94	--	--	--	--	75	14	94	0	56
MIDWEST SEED	G 7718Bt	143	--	--	--	--	101	--	--	--	--	75	14	94	0	56
MYCOGEN	2799IMI	126	--	--	--	--	89	--	--	--	--	75	14	98	0	56
MYCOGEN	2833	137	--	--	--	--	97	--	--	--	--	75	14	87	0	55
NK	N67-T4	150	--	--	--	--	106	--	--	--	--	75	14	102	0	56
PIONEER	34R07	140	--	--	--	--	99	--	--	--	--	75	14	88	0	57
MATURITY CHECK	MID - H2530	130	101	147	116	126	92	92	92	71	14	76	13	92	0	55
MIDLAND	785RR	144	--	--	--	--	102	--	--	--	--	76	13	96	0	56
ASGROW	RX740	133	122	--	127	--	94	111	--	71	15	76	14	96	0	58
DEKALB	DK611	154	--	--	--	--	109	--	--	--	--	76	14	102	0	57
HOEGEMEYER	2668	130	117	--	123	--	92	106	--	70	15	76	14	93	0	56
HOEGEMEYER	HBt821	139	--	--	--	--	98	--	--	--	--	76	14	96	0	56
MIDLAND	785	123	--	--	--	--	87	--	--	--	--	76	14	83	0	58
NK	N79-L3	151	110	178	130	146	107	99	112	72	16	76	14	104	0	60
CROPLAN GEN.	676 RR	156	--	--	--	--	110	--	--	--	--	77	13	99	0	56
MATURITY CHECK	MID - H2649	128	--	--	--	--	90	--	--	--	--	77	13	89	0	57
DEKALB	DK647BtY	148	--	--	--	--	105	--	--	--	--	77	14	100	0	56
MATURITY CHECK	FULL - P3162	139	98	161	118	132	98	89	101	72	15	77	14	92	0	58
MIDLAND	XA17	137	--	--	--	--	97	--	--	--	--	77	14	93	0	57
NC+	5169	140	--	--	--	--	99	--	--	--	--	77	14	95	0	57
PIONEER	33P67	157	--	--	--	--	111	--	--	--	--	77	14	104	0	58
CROPLAN GEN.	818	160	--	--	--	--	113	--	--	--	--	77	15	92	0	56
HOEGEMEYER	2718	138	104	--	121	--	98	94	--	73	14	78	13	100	1	55
DEKALB	DK679	155	--	--	--	--	109	--	--	--	--	78	14	103	1	57
NC+	6359	145	--	--	--	--	103	--	--	--	--	78	14	95	0	55
PIONEER	33G27	134	--	--	--	--	95	--	--	--	--	78	14	92	0	58
MIDLAND	798	166	132	--	149	--	118	120	--	73	16	78	15	97	1	57
MIDLAND	798 IMI	147	--	--	--	--	104	--	--	--	--	78	15	92	0	57
MIDWEST SEED	G 8795	152	--	--	--	--	107	--	--	--	--	78	15	103	0	57
MYCOGEN	2888IMI	166	119	--	142	--	117	108	--	74	16	78	15	100	1	57
MIDLAND	786	154	125	--	140	--	109	113	--	74	16	80	15	90	1	55
ASGROW	RX897	138	--	--	--	--	98	--	--	--	--	81	15	97	1	56
MATURITY CHECK	FULL - DS1997	130	110	173	120	138	92	100	109	76	15	82	14	84	0	55
DELANGE	DS 1995	122	--	144	--	--	86	--	91	--	--	82	16	79	0	56
	AVERAGES	141	110	159	126	137	141	110	159	72	15	77	14	95	0	56
	CV (%)	11	16	8	--	--	11	16	8	--	--	1	2	6	223	1
	LSD (0.05)**	18	25	15	--	--	13	22	9	--	--	1	0	6	1	1

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

EAST CENTRAL KANSAS STANDARD CORN TEST ON UPLAND SILT LOAM SOIL

TARGET POPULATION: 21,000 plants/acre, 10.0 in. spacing

FINAL STAND (% of target): 109

SILK DATES: 6/28/00 - 7/8/00

YIELD: Avg. (bu/a): 98 **Range (bu/a):** 53 - 119

LSD (bu/a): 10 **CV (%):** 8

COUNTY: FRANKLIN

LOCATION: East Central Kansas Experiment Field, Ottawa

TEST SITE: Woodson silt loam

1999 CROP: Soybean

1998 CROP: Corn

FERTILIZER (lbs/acre): 111 N 38 P₂O₅ 0 K₂O

PLANTING DATE: 4/14/00

HARVEST DATE: 9/9/00

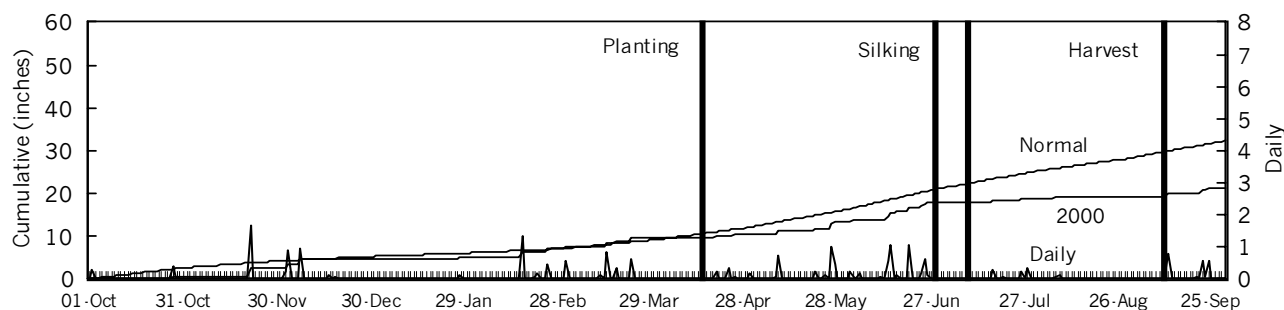
COOPERATORS: Keith Janssen, agronomist; Jim Kimball, technician

CORN BORERS: (susc. hybrid)	Infestation (% plants)		Tunnels (in./plant)	Sample date
	ECB	SWCB		
	--	--	--	--

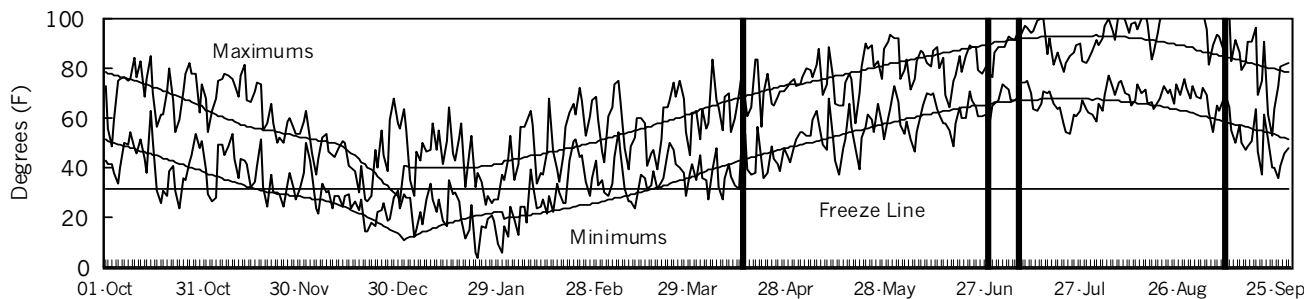
2000 GROWING CONDITONS:

Favorable planting conditions resulted in good stands, but cool temperatures slowed early growth. Adequate rainfall through late June provided for good vegetative growth. Dry conditions during the rest of the growing season limited yields. The plants eventually died from lack of moisture rather than normal maturation and dry-down. Insects and diseases caused no visible problems.

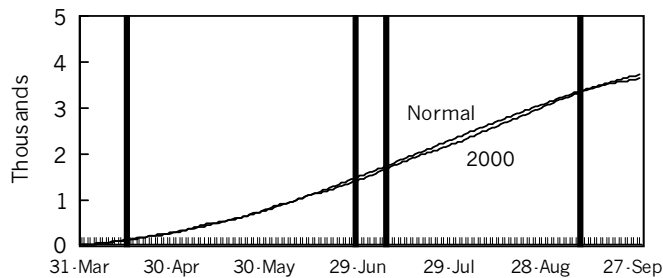
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	2000	Normal	2000	Normal	2000	Normal
April	0.8	3.0	54	56	266	295
May	2.9	4.1	67	66	517	477
June	4.5	5.1	71	75	632	744
July	1.1	4.0	78	80	795	858
August	0.2	3.1	84	79	858	777
Sept.	2.2	4.0	71	70	588	606
Season Totals	11.8	23.2	71	71	3655	3756

TABLE 10. Franklin Co. Corn Performance Test, 1998-2000.

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			1999-2000		2000				
		2000	1999	1998	2-Yr.	3-Yr.	2000	1999	1998	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
					AVG.	AVG.										
MATURITY CHECK	SHORT - C4111	102	80	89	91	90	104	76	65	72	11	74	9	118	0	54
US SEEDS	US C1119RR	87	97	--	92	--	89	93	--	73	13	75	9	97	0	54
US SEEDS	US C1120	96	98	--	97	--	97	93	--	73	15	75	10	103	0	57
MYCOGEN	2799IMI	99	--	--	--	--	101	--	--	--	--	76	9	101	0	55
CROPLAN GEN.	661	112	--	--	--	--	114	--	--	--	--	76	10	113	0	57
HOEGEMEYER	2666	108	102	140	105	117	110	97	102	74	14	76	10	115	0	57
MIDWEST SEED	G 7711	105	--	--	--	--	107	--	--	--	--	76	10	109	0	57
MIDWEST SEED	G 7718Bt	114	--	--	--	--	116	--	--	--	--	76	10	114	0	56
NK	N67-T4	103	--	--	--	--	106	--	--	--	--	76	10	115	0	57
US SEEDS	US C1129Bt	99	90	--	95	--	101	86	--	74	11	77	9	100	0	56
CROPLAN GEN.	762 Bt/CL	92	--	--	--	--	94	--	--	--	--	77	10	110	0	57
GARST	8342GLS/Bt/IT	119	110	--	115	--	122	106	--	74	15	77	10	113	0	57
MIDLAND	XA15	99	--	--	--	--	101	--	--	--	--	77	10	105	0	58
HOEGEMEYER	2668	90	100	--	95	--	92	96	--	75	13	78	9	101	8	56
HOEGEMEYER	HBt821	111	--	--	--	--	114	--	--	--	--	78	9	111	0	56
MATURITY CHECK	MID - H2530	97	108	109	103	105	99	103	80	75	13	78	9	111	0	55
MATURITY CHECK	SHORT - G8590	97	--	--	--	--	99	--	--	--	--	78	9	106	0	56
MYCOGEN	2833	101	--	--	--	--	103	--	--	--	--	78	9	101	0	55
MATURITY CHECK	FULL - P3162	95	84	120	90	100	97	80	88	75	15	78	10	110	0	58
ASGROW	RX799Bt	108	115	--	111	--	110	109	--	76	16	78	11	115	6	60
NK	N79-L3	104	92	140	98	112	106	88	102	75	16	78	11	113	0	61
MATURITY CHECK	MID - H2649	97	--	--	--	--	99	--	--	--	--	79	9	110	0	55
GARST	8273IT	106	--	--	--	--	108	--	--	--	--	79	10	111	0	58
US SEEDS	US C1159	94	101	--	98	--	96	97	--	76	15	79	10	99	0	56
MYCOGEN	2888IMI	102	115	--	108	--	104	110	--	77	16	79	11	113	2	58
CROPLAN GEN.	676 RR	84	--	--	--	--	85	--	--	--	--	80	9	119	4	57
CROPLAN GEN.	818	95	--	--	--	--	97	--	--	--	--	80	10	113	0	56
MIDLAND	785RR	89	--	--	--	--	90	--	--	--	--	80	10	105	0	56
MIDLAND	XA17	93	--	--	--	--	95	--	--	--	--	80	10	104	0	58
MIDWEST SEED	G 8795	104	--	--	--	--	106	--	--	--	--	80	10	108	3	58
NC+	6359	96	--	--	--	--	97	--	--	--	--	80	10	105	0	57
PIONEER	31A13	115	--	--	--	--	117	--	--	--	--	80	10	113	0	58
PIONEER	3237	109	120	141	114	123	111	114	103	77	15	80	10	106	0	58
US SEEDS	US C1139RR	84	99	--	92	--	86	95	--	77	15	80	10	110	1	57
GARST	8363Bt	100	--	--	--	--	102	--	--	--	--	80	11	118	6	60
NC+	5018	92	116	134	104	114	94	110	98	77	13	81	9	111	4	55
ASGROW	RX740	94	107	--	101	--	96	103	--	77	14	81	10	115	0	58
MIDLAND	785	93	--	--	--	--	95	--	--	--	--	81	10	107	1	58
TRIUMPH	1866Bt	99	--	--	--	--	101	--	--	--	--	81	10	110	3	58
DEKALB	DK679	98	--	--	--	--	100	--	--	--	--	81	11	109	0	58
HOEGEMEYER	2728	101	--	--	--	--	103	--	--	--	--	81	11	109	0	58
MIDLAND	786	95	108	--	101	--	97	103	--	78	16	81	11	103	0	57
MIDLAND	798	95	106	127	101	109	97	102	93	78	16	81	11	106	0	58
PIONEER	31B13	119	101	--	110	--	121	96	--	78	16	81	11	115	0	59
ASGROW	RX889	92	110	--	101	--	94	105	--	79	16	82	11	117	0	58
DEKALB	DK668	89	--	--	--	--	90	--	--	--	--	82	12	116	0	58
MATURITY CHECK	FULL - DS1997	84	107	138	95	109	85	102	101	79	16	83	11	99	0	57
DELANGE	DS 1995	53	--	--	--	--	54	--	--	--	--	85	13	79	0	58
	AVERAGES	98	105	137	101	113	98	105	137	76	15	79	10	109	1	57
	CV (%)	8	9	9	--	--	8	8	9	--	--	1	3	6	368	1
	LSD (0.05)**	10	11	14	--	--	10	10	10	--	--	1	0	7	3	1

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

SOUTHEASTERN KANSAS STANDARD CORN TEST ON RIVER-BOTTOM SOIL

TARGET POPULATION: 24,000 plants/acre, 8.7 in. spacing
FINAL STAND (% of target): 102
SILK DATES: 6/24/00 - 7/2/00
YIELD: Avg. (bu/a): 162 **Range (bu/a):** 104 - 213
LSD (bu/a): 19 **CV (%):** 10

COUNTY: NEOSHO

LOCATION: Private farm south of Erie

TEST SITE: Lanton silt loam

1999 CROP: Soybean

1998 CROP: Soybean

FERTILIZER (lbs/acre): 150 N 30 P₂O₅ 30 K₂O

PLANTING DATE: 4/14/00

HARVEST DATE: 8/31/00

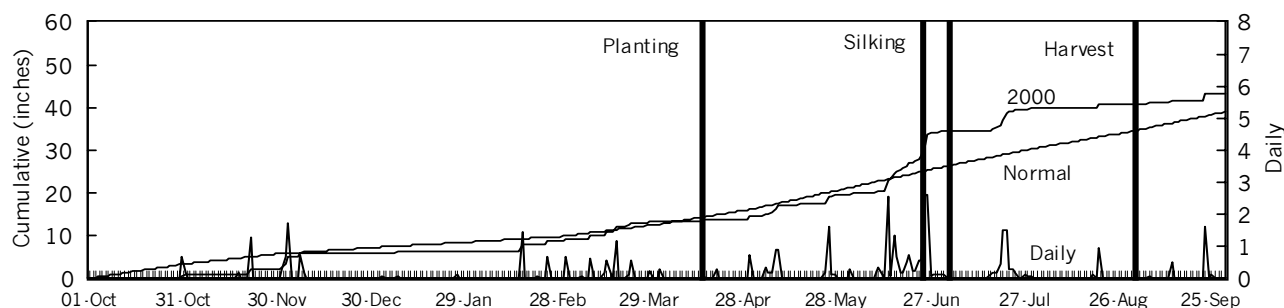
COOPERATORS: James Long, agronomist

CORN BORERS: (susceptible hybrid)	Infestation (% plants)		Tunnels (in./plant)	Sample date
	ECB	SWCB		
	--	--	--	--

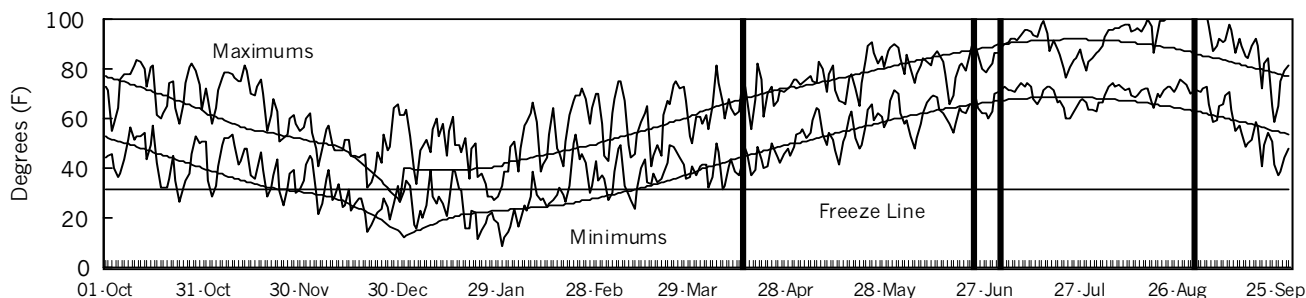
2000 GROWING CONDITIONS:

Cool, dry weather slowed early growth and root development. Seedling diseases killed some plants, and insects such as chinch bugs, wireworms, and grubs injured others. Stand variability increased as a result. Excellent rainfall from late spring until late July facilitated good yields. Adequate profile moisture enabled the test to finish well.

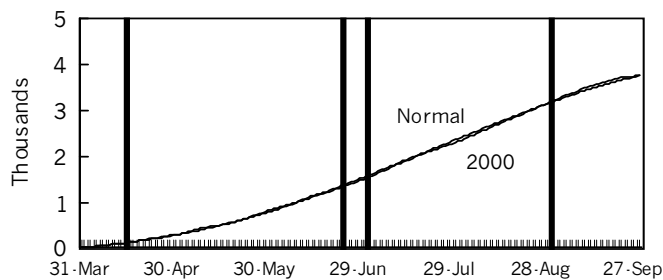
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	2000	Normal	2000	Normal	2000	Normal
April	0.7	3.6	55	57	263	284
May	5.5	4.8	67	66	528	482
June	14.8	5.1	72	75	660	755
July	5.4	4.5	79	80	834	872
August	1.1	3.9	84	78	880	788
Sept.	2.5	4.5	73	71	622	615
Season Totals	30.1	26.4	72	71	3787	3795

TABLE 11. Neosho Co. Corn Performance Test, 1998-2000.

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			1999-2000		2000				
		2000	1999	1998	2-Yr. AVG.	3-Yr. AVG.	2000	1999	1998	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
		MYCOGEN	2799IMI	181	--	--	--	--	112	--	--	--	--	71	13	113
MATURITY CHECK	SHORT - C4111	136	95	138	115	123	84	93	85	63	14	72	11	116	--	57
GARST	8342GLS/Bt/IT	179	97	--	138	--	111	95	--	65	17	72	12	106	--	58
MATURITY CHECK	MID - H2649	152	--	--	--	--	94	--	--	--	--	72	12	98	--	57
MATURITY CHECK	SHORT - G8590	136	--	--	--	--	84	--	--	--	--	72	12	92	--	57
MYCOGEN	2833	160	--	--	--	--	99	--	--	--	--	72	12	96	--	55
NC+	3709	108	--	--	--	--	67	--	--	--	--	72	12	78	--	58
NK	N67-T4	170	--	--	--	--	105	--	--	--	--	72	12	106	--	57
PFISTER	2750	173	--	--	--	--	107	--	--	--	--	72	12	107	--	57
AGRIPRO	9689Bt	198	--	--	--	--	122	--	--	--	--	72	13	103	--	59
ASGROW	RX799Bt	199	111	--	155	--	123	109	--	65	18	72	13	118	--	58
CROPLAN GEN.	661	172	--	--	--	--	106	--	--	--	--	72	13	109	--	57
CROPLAN GEN.	762 Bt/CL	175	--	--	--	--	108	--	--	--	--	72	13	116	--	57
MATURITY CHECK	MID - H2530	139	97	149	118	129	86	95	92	64	15	73	11	95	--	56
HOEGEMEYER	2668	149	103	--	126	--	92	101	--	65	16	73	12	85	--	57
GARST	8363Bt	201	--	--	--	--	124	--	--	--	--	73	13	108	--	58
HOEGEMEYER	HBt821	174	--	--	--	--	107	--	--	--	--	73	13	98	--	57
MATURITY CHECK	FULL - P3162	155	86	172	120	138	96	84	106	64	17	73	13	99	--	59
MIDLAND	XA15	162	--	--	--	--	100	--	--	--	--	73	13	101	--	57
ASGROW	RX740	170	108	--	139	--	105	106	--	67	17	74	12	107	--	59
DEKALB	DK611	172	--	--	--	--	106	--	--	--	--	74	12	108	--	58
MIDLAND	785	156	--	--	--	--	96	--	--	--	--	74	12	105	--	59
MIDLAND	798	162	119	--	141	--	100	116	--	67	17	74	12	96	--	58
NK	N79-L3	137	96	175	116	136	85	94	107	66	17	74	12	115	--	61
PFISTER	3350	135	--	--	--	--	83	--	--	--	--	74	12	86	--	58
CROPLAN GEN.	818	160	--	--	--	--	99	--	--	--	--	74	13	104	--	57
MYCOGEN	2888IMI	182	93	--	137	--	112	91	--	68	18	74	13	111	--	58
PFISTER	3977	171	--	--	--	--	106	--	--	--	--	74	13	109	--	57
CROPLAN GEN.	676 RR	156	--	--	--	--	96	--	--	--	--	75	12	111	--	57
NC+	5018	143	108	175	125	142	88	105	107	67	16	75	12	100	--	55
PIONEER	3237	173	102	178	137	151	107	100	109	68	17	75	13	102	--	59
TRIUMPH	1866Bt	151	--	--	--	--	93	--	--	--	--	75	13	86	--	58
DEKALB	DK679	177	--	--	--	--	109	--	--	--	--	76	13	101	--	58
HOEGEMEYER	2728	185	--	--	--	--	114	--	--	--	--	76	13	102	--	58
MIDLAND	786	162	95	173	128	143	100	93	106	69	19	76	13	86	--	56
PIONEER	31A13	188	--	--	--	--	116	--	--	--	--	76	13	114	--	58
PIONEER	31B13	213	114	206	163	178	132	112	127	68	19	76	13	120	--	59
ASGROW	RX889	146	107	--	127	--	90	105	--	68	19	77	13	112	--	57
MATURITY CHECK	FULL - DS1997	118	116	162	117	132	73	114	99	69	18	78	13	81	--	56
DELANGE	DS 1995	104	107	143	105	118	64	105	88	71	19	79	14	83	--	57
	AVERAGES	162	102	163	132	142	162	102	163	66	18	74	13	102	--	58
	CV (%)	10	15	8	--	--	10	15	8	--	--	1	4	13	--	1
	LSD (0.05)**	19	18	15	--	--	12	18	9	--	--	1	1	15	--	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 CORN TEST, MIN-TILL DRYLAND

TARGET POPULATION: 20,000 plants/acre, 10.5 in. spacing

FINAL STAND (% of target): 98

SILK DATES: 6/24/00 - 7/7/00

YIELD: Avg. (bu/a): 96 **Range (bu/a):** 55 - 120

LSD (bu/a): 11 **CV (%):** 9

COUNTY: HARVEY

LOCATION: Harvey County Experiment Field, Hesston

TEST SITE: Smolan silt loam

1999 CROP: Wheat

1998 CROP: Soybean

FERTILIZER (lbs/acre): 125 N 37 P₂O₅ 0 K₂O

PLANTING DATE: 4/14/00

HARVEST DATE: 8/28/00

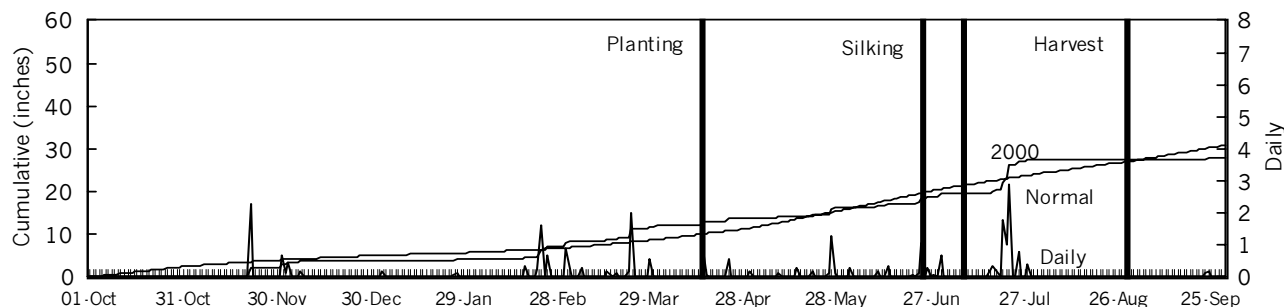
COOPERATORS: Mark Claassen, agronomist; Kevin Duerksen and Lowell Stucky, technicians

CORN BORERS: (sus. hybrid)	Infestation (% plants)		Tunnels (in./plant)	Sample date
	ECB	SWCB		
	--	--	--	--

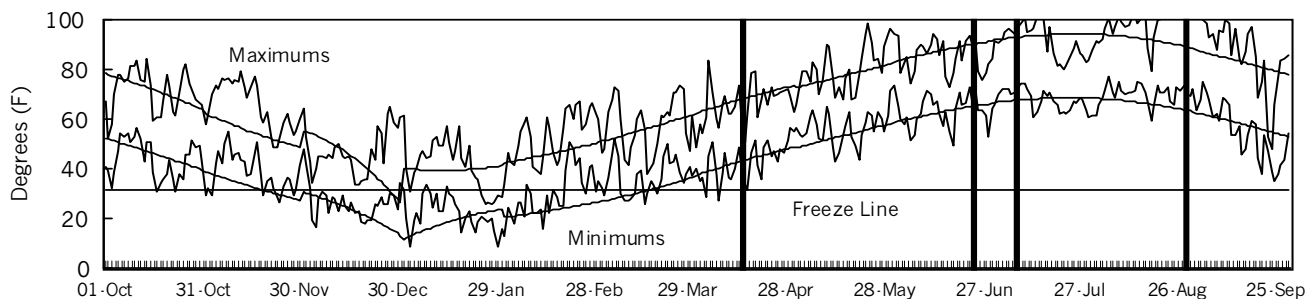
2000 GROWING CONDITIONS:

The test was planted into a good seedbed with excellent soil moisture. Temperatures and precipitation were below average from April-June. Heavy rainfall in late July coupled with favorable temperatures ensured a good crop even though no meaningful rainfall occurred after July 28. During August, the maximum temperature averaged 6.5F above normal. A moderate infestation of flea beetles in early-mid May, followed by an invasion of chinch bugs, caused no apparent long-term damage after an insecticide application.

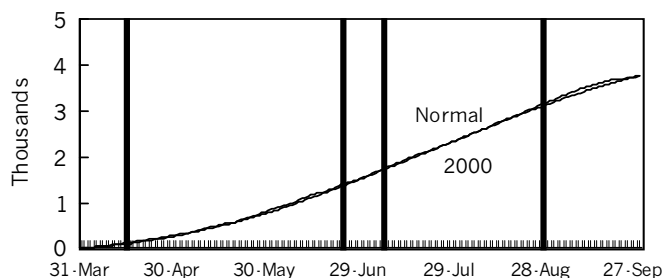
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	2000	Normal	2000	Normal	2000	Normal
April	1.7	2.7	55	56	255	288
May	2.5	4.3	68	66	552	474
June	2.6	4.8	75	76	698	756
July	8.6	3.6	80	81	826	869
August	0.1	2.9	84	80	867	789
Sept.	0.3	3.7	72	71	599	623
Season Totals	15.9	22.0	72	72	3796	3799

TABLE 12. Harvey Co. Min-Till, Dryland Corn Test, 1998-2000.

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			1999-2000		2000				
		2000	1999	1998	2-Yr. AVG.	3-Yr. AVG.	2000	1999	1998	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
ASGROW	RX508	100	--	--	--	--	105	--	--	--	--	70	9	98	5	57
MATURITY CHECK	SHORT - C4111	78	78	--	78	--	82	90	--	66	10	72	9	100	1	58
GARST	8539BLT	76	90	--	83	--	79	104	--	65	12	72	10	97	0	57
PIONEER	35N05	113	--	--	--	--	117	--	--	--	--	72	10	100	0	60
ASGROW	RX670	98	--	--	--	--	102	--	--	--	--	72	11	98	1	59
MYCOGEN	2725	105	--	--	--	--	110	--	--	--	--	72	12	100	0	59
DEKALB	DK567	93	--	--	--	--	97	--	--	--	--	73	10	99	0	58
DEKALB	DK595BtY	91	89	--	90	--	95	103	--	66	12	73	10	100	0	59
DEKALB	DKC57-38	83	--	--	--	--	87	--	--	--	--	73	10	99	0	60
GARST	8590	91	--	--	--	--	95	--	--	--	--	73	10	98	1	58
MATURITY CHECK	SHORT - G8590	84	--	--	--	--	87	--	--	--	--	73	10	95	0	59
ASGROW	RX740	99	85	--	92	--	104	99	--	68	13	74	10	96	0	61
MATURITY CHECK	MID - H2530	92	93	--	93	--	96	108	--	68	11	74	10	98	3	59
MATURITY CHECK	MID - H2649	103	--	--	--	--	108	--	--	--	--	74	10	100	0	59
MIDLAND	785RR	94	89	--	91	--	98	103	--	69	12	74	10	100	0	60
PIONEER	33V08	103	82	--	92	--	107	95	--	68	12	74	11	99	0	60
AGRIPRO	9689Bt	108	--	--	--	--	113	--	--	--	--	74	12	100	1	60
MIDLAND	XA17	92	--	--	--	--	96	--	--	--	--	75	11	100	0	60
MIDLAND	7A08	104	99	--	102	--	109	115	--	70	13	75	12	99	0	58
MATURITY CHECK	FULL - P3162	96	78	--	87	--	100	90	--	71	14	76	12	96	1	61
PIONEER	31B13	119	100	--	109	--	124	116	--	71	14	76	12	100	0	60
NC+	5018	101	--	--	--	--	105	--	--	--	--	77	10	98	1	58
MIDLAND	798	110	98	--	104	--	115	114	--	72	15	77	13	101	0	58
MYCOGEN	2888IMI	120	103	--	111	--	125	120	--	71	15	77	13	100	0	58
MIDLAND	786	101	79	--	90	--	106	92	--	72	17	78	15	99	0	54
MATURITY CHECK	FULL - DS1997	86	--	--	--	--	90	--	--	--	--	80	14	95	1	56
TRIUMPH	2010RR	85	--	--	--	--	89	--	--	--	--	80	15	100	0	55
DELANGE	DS 1995	55	--	--	--	--	58	--	--	--	--	84	14	89	0	55
	AVERAGES	96	86	--	91	--	96	86	--	69	13	75	11	98	1	58
	CV (%)	9	8	--	--	--	9	8	--	--	--	1	6	3	174	1
	LSD (0.05)**	11	8	--	--	--	11	9	--	--	--	1	1	3	1	1

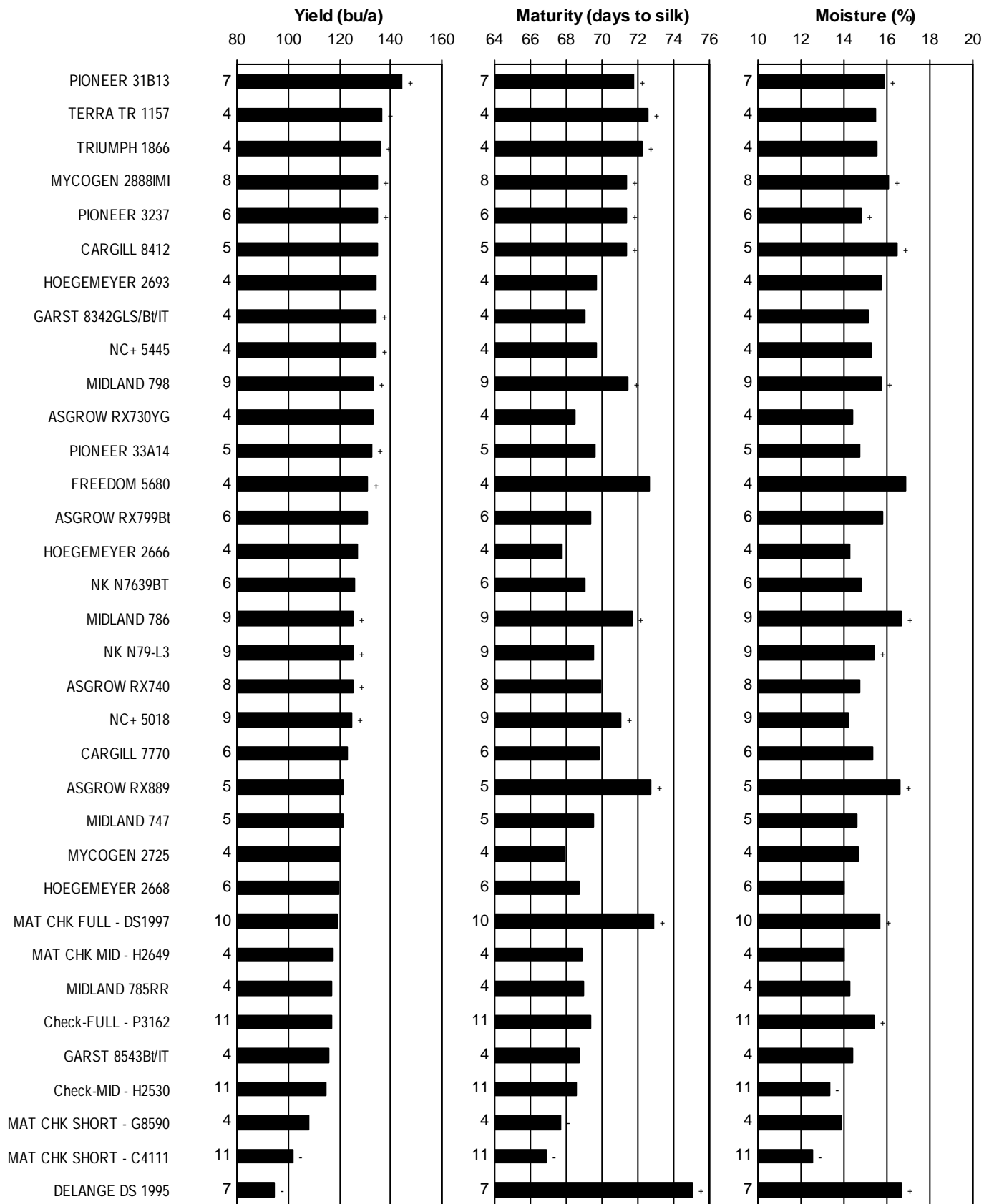
** Unless two varieties differ by more than the LSD, little confidence can be placed in one being superior to the other.

TABLE 13. EAST/CENTRAL Kansas corn hybrid yield summary (% of test average), 2000.

BRAND/NAME	SHD ¹	FRD	NOD	HVD	AVG.	BRAND/NAME	SHD ¹	FRD	NOD	HVD	AVG.
AGRIPRO						798 IMI	104	--	--	--	--
9689Bt	--	--	122	113	--	7A08	--	--	--	109	--
ASGROW						XA15	--	101	100	--	--
RX508	--	--	--	105	--	XA17	97	95	--	96	--
RX670	--	--	--	102	--	MIDWEST SEED					
RX730YG	119	--	--	--	--	G 7711	94	107	--	--	--
RX740	94	96	105	104	100	G 7718Bt	101	116	--	--	--
RX799Bt	--	110	123	--	--	G 8795	107	106	--	--	--
RX889	--	94	90	--	--	MYCOGEN					
RX897	98	--	--	--	--	2725	--	--	--	110	--
CROPLAN GEN.						2799IMI	89	101	112	--	--
661	95	114	106	--	--	2833	97	103	99	--	--
676 RR	110	85	96	--	--	2888IMI	117	104	112	125	114
762 Bt/CL	89	94	108	--	--	NC+					
818	113	97	99	--	--	3709	--	--	67	--	--
DEKALB						5018	--	94	88	105	--
DK567	--	--	--	97	--	5169	99	--	--	--	--
DK595BtY	--	--	--	95	--	6359	103	97	--	--	--
DK611	109	--	106	--	--	NK					
DK647BtY	105	--	--	--	--	N67-T4	106	106	105	--	--
DK668	--	90	--	--	--	N79-L3	107	106	85	--	--
DK679	109	100	109	--	--	PFISTER					
DKC57-38	--	--	--	87	--	2750	--	--	107	--	--
DELANGE						3350	--	--	83	--	--
DS 1995	86	54	64	58	66	3977	--	--	106	--	--
GARST						PIONEER					
8273IT	--	108	--	--	--	31A13	--	117	116	--	--
8342GLS/Bt/IT	--	122	111	--	--	31B13	--	121	132	124	--
8363Bt	--	102	124	--	--	3237	--	111	107	--	--
8539BLT	--	--	--	79	--	33G27	95	--	--	--	--
8543Bt/IT	95	--	--	--	--	33P67	111	--	--	--	--
8590	--	--	--	95	--	33V08	--	--	--	107	--
HOEGEMEYER						34R07	99	--	--	--	--
2666	--	110	--	--	--	35N05	--	--	--	117	--
2668	92	92	92	--	--	TRIUMPH					
2718	98	--	--	--	--	1866Bt	--	101	93	--	--
2728	--	103	114	--	--	2010RR	--	--	--	89	--
HBt821	98	114	107	--	--	US SEEDS					
MATURITY CHECK						US C1119RR	--	89	--	--	--
FULL - DS1997	92	85	73	90	85	US C1120	--	97	--	--	--
FULL - P3162	98	97	96	100	98	US C1129Bt	--	101	--	--	--
MID - H2530	92	99	86	96	94	US C1139RR	--	86	--	--	--
MID - H2649	90	99	94	108	98	US C1159	--	96	--	--	--
SHORT - C4111	92	104	84	82	90	AVERAGES (bu/a)	141	98	162	96	124
SHORT - G8590	88	99	84	87	89	CV (%)	11	8	10	9	--
MIDLAND						LSD (0.05)**	13	10	12	11	--
785	87	95	96	--	--						
785RR	102	90	--	98	--						
786	109	97	100	106	103						
798	118	97	100	115	107						

¹ SHD = Shawnee Co., Silver Lake FRD = Franklin Co., Ottawa NOD = Neosho Co., Erie HVD = Harvey Co., Hesston

FIGURE 7. EAST/CENTRAL Kansas corn hybrid standardized performance summary, 1998-2000.



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

SOUTH CENTRAL KANSAS CORN TEST, MIN-TILL DRYLAND

COUNTY: STAFFORD

LOCATION: Sandyland Experiment Field, St. John

TEST SITE: Naron loamy fine sand

1999 CROP: Wheat

1998 CROP: Fallow

FERTILIZER (lbs/acre): 193 N 46 P₂O₅ 0 K₂O

PLANTING DATE: 4/18/00

HARVEST DATE: 9/19/00

COOPERATORS: Victor Martin, agronomist; Ron Cunningham and Jeff Scott, technicians

TARGET POPULATION: 18,000 plants/acre, 11.6 in. spacing

FINAL STAND (% of target):

SILK DATES: 7/3/00 - 7/13/00

YIELD: Avg. (bu/a): 93 Range (bu/a): 71 - 108

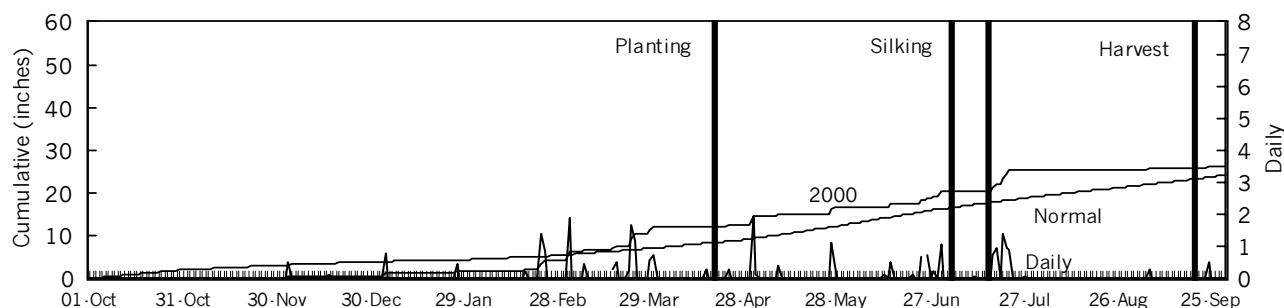
LSD (bu/a): 10 CV (%): 9

CORN BORERS: (susc. hybrid)	Infestation (% plants)		Tunnels (in./plant)	Sample date
	ECB	SWCB		
	5	95	9	9/12/00

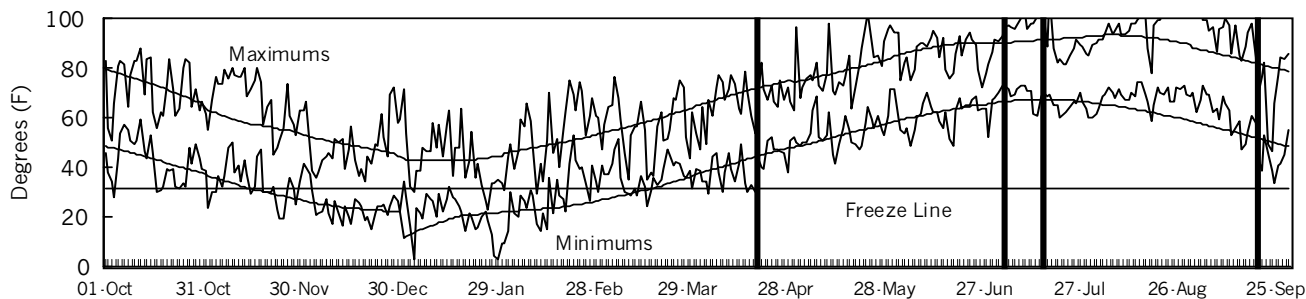
2000 GROWING CONDITIONS:

Good soil moisture under the standing wheat stubble enabled the test to establish good stands and get off to a good start. Adequate rains early in the season resulted in relatively good yields, considering the temperature and moisture stresses encountered in August. Heavy infestations of southwestern corn borers caused most, if not all, of the lodging.

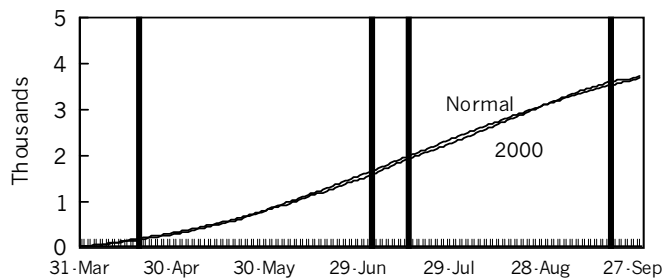
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	2000	Normal	2000	Normal	2000	Normal
April	0.6	2.1	54	57	266	320
May	4.1	3.3	68	66	527	493
June	2.5	3.8	74	76	664	756
July	6.3	2.9	80	79	825	851
August	0.1	2.4	83	78	846	734
Sept.	0.8	2.5	72	69	594	559
Season Totals	14.3	16.9	72	71	3723	3714

TABLE 14. Stafford Co. Min-Till, Dryland Corn Test, 1998-2000.

BRAND	NAME	ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			1999-2000		2000				
		2000	1999	1998	2-Yr. AVG.	3-Yr. AVG.	2000	1999	1998	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
ASGROW	RX508	92	--	--	--	--	98	--	--	--	--	76	8	127	3	57
MATURITY CHECK	SHORT - C4111	100	--	--	--	--	107	--	--	--	--	76	8	132	29	59
DEKALB	DK567	90	--	--	--	--	96	--	--	--	--	77	8	120	22	58
DEKALB	DK595BtY	107	--	--	--	--	114	--	--	--	--	78	9	137	4	58
DEKALB	DKC57-38	98	--	--	--	--	105	--	--	--	--	78	9	139	30	58
MATURITY CHECK	SHORT - G8590	97	--	--	--	--	104	--	--	--	--	78	9	118	21	59
MYCOGEN	2725	90	--	--	--	--	97	--	--	--	--	78	9	131	33	58
PIONEER	33V08	94	--	--	--	--	100	--	--	--	--	78	9	131	1	59
PIONEER	35N05	108	--	--	--	--	116	--	--	--	--	78	9	127	10	59
ASGROW	RX670	84	--	--	--	--	89	--	--	--	--	79	9	124	18	57
GARST	8543Bt/IT	99	--	--	--	--	106	--	--	--	--	79	9	133	0	57
MATURITY CHECK	MID - H2530	94	--	--	--	--	100	--	--	--	--	80	8	120	19	57
MATURITY CHECK	MID - H2649	90	--	--	--	--	96	--	--	--	--	80	9	126	16	58
MATURITY CHECK	FULL - P3162	99	--	--	--	--	106	--	--	--	--	80	10	115	18	60
ASGROW	RX740	82	--	--	--	--	88	--	--	--	--	82	9	128	20	58
MYCOGEN	2888IMI	79	--	--	--	--	84	--	--	--	--	82	9	128	12	59
PIONEER	31B13	106	--	--	--	--	113	--	--	--	--	82	9	126	4	59
AGRIPRO	9689Bt	99	--	--	--	--	106	--	--	--	--	82	10	133	5	61
MATURITY CHECK	FULL - DS1997	103	--	--	--	--	110	--	--	--	--	83	8	100	17	55
TRIUMPH	2010RR	87	--	--	--	--	93	--	--	--	--	84	9	125	11	56
DELANGE	DS 1995	71	--	--	--	--	76	--	--	--	--	86	9	64	22	58
	AVERAGES	93	--	--	--	--	93	--	--	--	--	80	9	123	16	58
	CV (%)	9	--	--	--	--	9	--	--	--	--	2	5	7	67	2
	LSD (0.05)**	10	--	--	--	--	11	--	--	--	--	2	1	10	12	1

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

NORTH CENTRAL KANSAS STANDARD CORN TEST, NO-TILL DRYLAND

TARGET POPULATION: 17,000 plants/acre, 12.3 in. spacing
FINAL STAND (% of target): 100
SILK DATES: 7/9/00 - 7/17/00

COUNTY: ELLIS

YIELD: Avg. (bu/a): 85 **Range (bu/a):** 53 - 114
LSD (bu/a): 11 **CV (%):** 10

LOCATION: KSU Agricultural Research Center - Hays

TEST SITE: Harney clay loam

CORN BORERS: (sus. hybrid)	Infestation (% plants)		Tunnels (in./plant)	Sample date
	ECB	SWCB		
	--	5	--	9/12/00

1999 CROP: Fallow

1998 CROP: Sorghum

FERTILIZER (lbs/acre): 65 N 0 P₂O₅ 0 K₂O

PLANTING DATE: 4/25/00

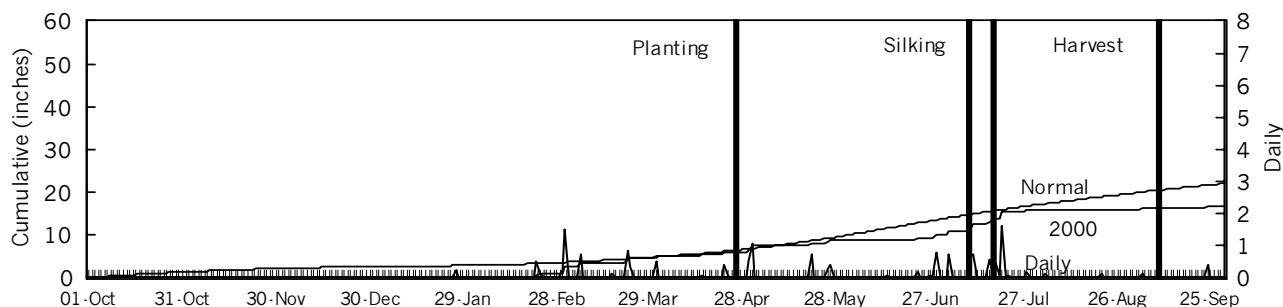
HARVEST DATE: 9/8/00

2000 GROWING CONDITONS:

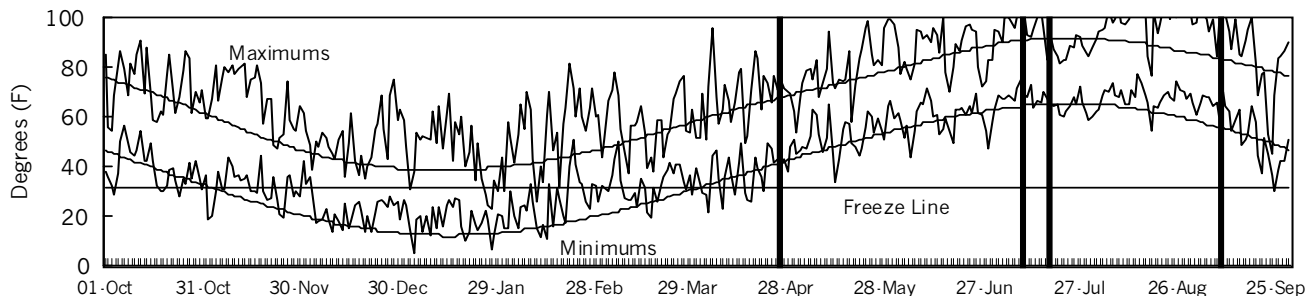
Above-normal temperatures and below-normal rainfall characterized June, August, and September. Spring and July rains carried the test to maturity. A heavy infestation of southwestern corn borer caused most of the lodging.

COOPERATORS: Ken Kofoid, agronomist

PRECIPITATION

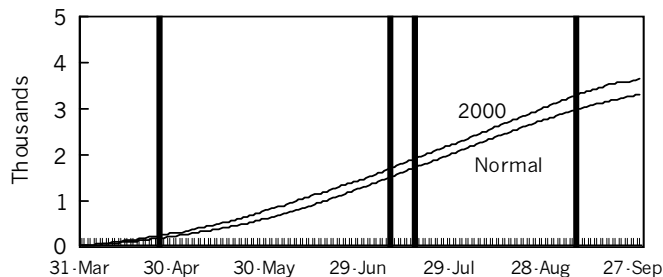


DAILY TEMPERATURES



GROWING-SEASON WEATHER SUMMARY

GROWING DEGREE DAYS



Month	Precipitation		Average Temp.		GDD	
	2000	Normal	2000	Normal	2000	Normal
April	1.2	1.9	53	51	276	220
May	3.1	3.0	66	62	500	379
June	1.2	3.9	73	72	640	668
July	5.6	3.3	79	78	804	810
August	0.3	2.7	84	76	834	731
Sept.	0.6	2.2	72	68	597	531
Season Totals	11.9	17.1	71	68	3652	3337

TABLE 15. Ellis Co. Dryland Corn Performance Test, 1998-2000.

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			1999-2000		2000				
		2000	1999	1998	2-Yr.	3-Yr.	2000	1999	1998	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
					AVG.	AVG.										
MATURITY CHECK	SHORT - C4111	53	91	83	72	76	63	83	84	78	12	75	11	97	15	60
DEKALB	DKC57-38	75	--	--	--	--	89	--	--	--	--	76	11	100	10	59
CROPLAN GEN.	592 CL	76	--	--	--	--	90	--	--	--	--	76	12	96	16	61
PIONEER	33B51	101	--	--	--	--	120	--	--	--	--	76	15	106	2	58
PIONEER	34R07	94	129	--	112	--	111	117	--	78	13	77	11	105	3	59
SEEDS 2000	X3161Bt	81	--	--	--	--	96	--	--	--	--	77	11	103	1	59
GARST	8539BLT	89	124	--	107	--	105	113	--	79	15	77	12	99	1	58
MYCOGEN	2799IMI	102	--	--	--	--	120	--	--	--	--	77	14	98	3	56
OTILIE	5177RRBt	81	--	--	--	--	96	--	--	--	--	77	14	95	1	56
DEKALB	DK567	64	--	--	--	--	75	--	--	--	--	78	11	98	27	58
MATURITY CHECK	MID - H2530	81	114	104	98	100	96	104	106	79	13	78	11	98	4	57
MATURITY CHECK	SHORT - G8590	75	--	--	--	--	89	--	--	--	--	78	11	108	14	55
MIDWEST SEED	G 7707RR	82	--	--	--	--	97	--	--	--	--	78	11	100	14	58
SEEDS 2000	3104RR	62	--	--	--	--	74	--	--	--	--	78	11	95	19	56
KAYSTAR	KX - 890 Bt	106	--	--	--	--	125	--	--	--	--	78	12	98	0	58
NC+	4616	73	--	109	--	--	86	--	111	--	--	78	12	91	12	57
CROPLAN GEN.	666 Bt/RR	86	--	--	--	--	102	--	--	--	--	78	14	101	1	57
GARST	8363Bt	107	--	--	--	--	127	--	--	--	--	78	14	101	4	58
GARST	8559Bt/RR	80	--	--	--	--	95	--	--	--	--	78	14	97	0	55
DEKALB	DK595BtY	96	118	--	107	--	114	107	--	78	14	79	11	106	0	56
GARST	8543Bt/IT	98	129	--	114	--	116	118	--	79	15	79	11	106	1	55
MATURITY CHECK	MID - H2649	78	--	--	--	--	93	--	--	--	--	79	11	96	7	58
NC+	4649B	96	--	--	--	--	113	--	--	--	--	79	11	104	0	57
SEEDS 2000	X3191RR	76	--	--	--	--	90	--	--	--	--	79	11	98	13	57
OTILIE	5267Bt	97	--	--	--	--	115	--	--	--	--	79	12	110	0	57
CARGILL	7770	91	103	--	97	--	107	93	--	79	16	79	13	103	18	57
MIDLAND	7A08	92	110	--	101	--	108	100	--	79	16	79	13	99	30	55
MIDLAND	XA15	88	--	--	--	--	104	--	--	--	--	79	13	99	22	57
MYCOGEN	2725	72	--	--	--	--	85	--	--	--	--	79	13	101	23	57
ASGROW	RX799Bt	114	133	114	123	120	135	120	115	79	17	79	14	105	2	58
MATURITY CHECK	FULL - P3162	76	119	93	98	96	89	109	94	77	17	79	14	100	17	60
ASGROW	RX670	67	--	--	--	--	79	--	--	--	--	80	11	95	17	55
ASGROW	RX740	84	118	--	101	--	99	107	--	80	14	80	11	105	19	60
OTILIE	4911	66	--	--	--	--	78	--	--	--	--	80	11	103	21	57
TRIUMPH	1514Bt	97	--	--	--	--	115	--	--	--	--	80	11	95	5	56
KAYSTAR	KX - 898	68	--	--	--	--	80	--	--	--	--	80	12	97	13	59
CARGILL	8112	94	--	--	--	--	111	--	--	--	--	81	12	104	20	55
MIDLAND	798	77	122	104	100	101	91	111	106	80	17	81	14	98	34	57
FRONTIER	F3175	92	--	--	--	--	109	--	--	--	--	81	16	103	13	57
MATURITY CHECK	FULL - DS1997	85	--	--	--	--	101	--	--	--	--	82	13	98	12	54
MIDLAND	786	86	94	105	90	95	101	86	106	81	16	83	13	99	4	56
	AVERAGES	85	110	99	97	98	85	110	99	79	15	79	12	100	11	57
	CV (%)	10	9	8	--	--	10	9	8	--	--	1	8	7	55	2
	LSD (0.05)**	11	12	10	--	--	13	11	10	--	--	1	1	NS	8	2

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

NORTHWESTERN KANSAS STANDARD CORN TEST, NO-TILL DRYLAND

TARGET POPULATION: 17,000 plants/acre, 12.3 in. spacing

FINAL STAND (% of target): 93

SILK DATES: 7/18/00 - 7/30/00

YIELD: Avg. (bu/a): 28 **Range (bu/a):** 8 - 39

LSD (bu/a): 7 **CV (%):** 22

COUNTY: THOMAS

LOCATION: Northwest Research-Extension Center, Colby

TEST SITE: Keith silt loam

1999 CROP: Wheat

1998 CROP: Fallow

FERTILIZER (lbs/acre): 140 N 0 P₂O₅ 0 K₂O

PLANTING DATE: 4/27/00

HARVEST DATE: 9/11/00

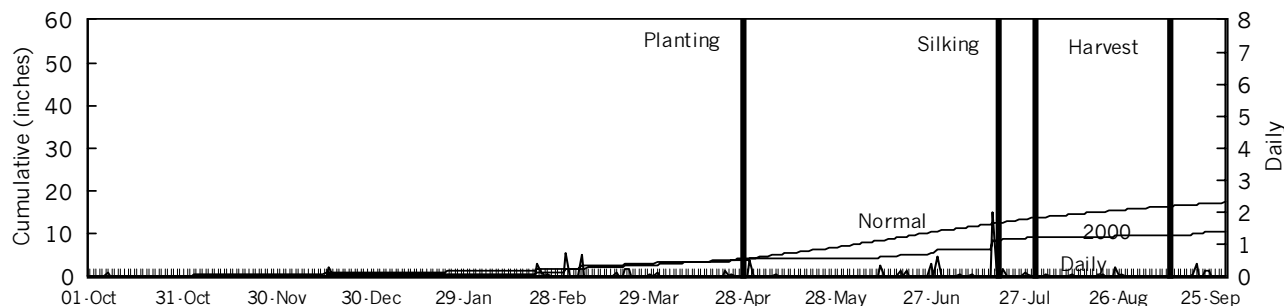
COOPERATORS: Patrick Evans, agronomist

CORN BORERS: (susc. hybrid)	Infestation (% plants)		Tunnels (in./plant)	Sample date
	ECB	SWCB		
	3	0	0.1	9/15/00

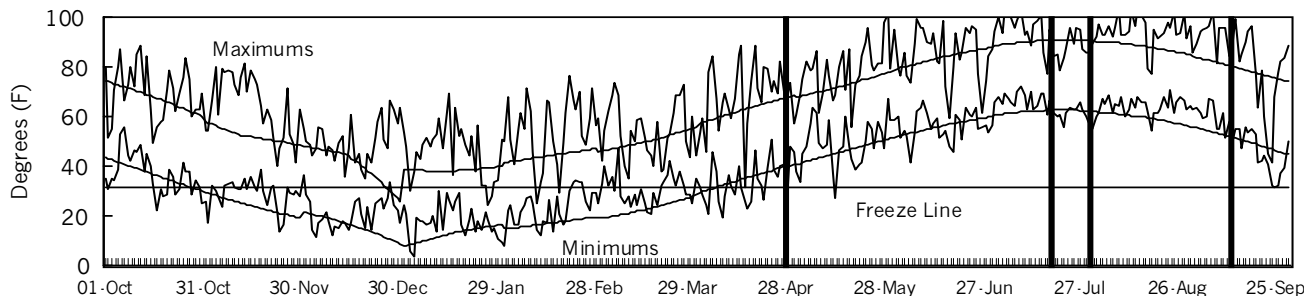
2000 GROWING CONDITIONS:

Fairly good planting conditions allowed adequate stand establishment in most plots. However, the dry winter and spring provided only 5.5" available soil moisture in the 8' profile at planting. Total precipitation from May to harvest was 6.24". Short-season hybrids tended to yield better than others because of the shortened grain filling period.

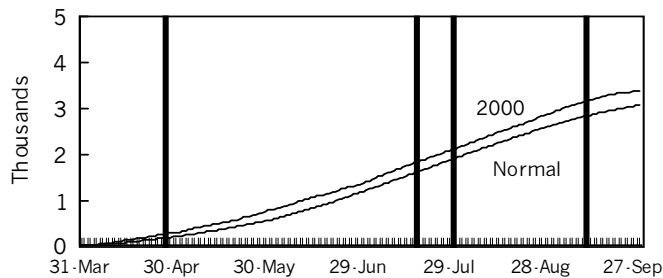
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	2000	Normal	2000	Normal	2000	Normal
April	0.5	1.5	51	49	287	203
May	0.6	2.9	64	60	469	347
June	1.8	3.6	71	70	578	622
July	2.9	3.1	79	76	775	774
August	0.7	2.0	80	74	772	686
Sept.	0.8	1.6	68	65	530	474
Season Totals	7.4	14.6	69	66	3410	3106

TABLE 16. Thomas Co. Dryland Corn Performance Test, 1998-2000.

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			1999-2000		2000				
		2000	1999	1998	2-Yr. AVG.	3-Yr. AVG.	2000	1999	1998	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
ASGROW	RX508	38	--	--	--	--	136	--	--	--	--	82	8	92	0	49
MATURITY CHECK	SHORT - C4111	30	133	131	81	98	108	86	90	79	10	82	9	96	0	51
DEKALB	DK579	30	160	--	95	--	109	104	--	79	14	82	12	98	0	53
LG SEEDS	LG2569	30	--	--	--	--	108	--	--	--	--	82	12	95	0	50
SEEDS 2000	3104RR	34	--	--	--	--	123	--	--	--	--	82	12	92	0	50
MATURITY CHECK	SHORT - G8590	38	--	--	--	--	140	--	--	--	--	83	10	94	0	51
NK	N59-Q9	37	136	--	86	--	133	89	--	80	12	83	10	94	5	50
PIONEER	34R07	35	159	--	97	--	128	104	--	80	13	83	10	88	1	51
CROPLAN GEN.	592 CL	36	--	--	--	--	130	--	--	--	--	83	14	90	0	50
MYCOGEN	2725	31	--	--	--	--	113	--	--	--	--	84	9	95	0	51
AGRIPRO	9570Bt	29	--	--	--	--	106	--	--	--	--	84	10	93	2	50
FONTANELLE	HC7734RR	39	--	--	--	--	140	--	--	--	--	84	11	97	0	44
GARST	8559Bt/RR	28	--	--	--	--	103	--	--	--	--	84	12	89	0	47
NK	N67-T4	30	--	--	--	--	108	--	--	--	--	84	12	96	2	50
PIONEER	33B51	33	--	--	--	--	119	--	--	--	--	84	12	93	0	48
TRIUMPH	1141Bt	24	--	--	--	--	88	--	--	--	--	84	12	98	0	51
MYCOGEN	2799IMI	29	--	--	--	--	104	--	--	--	--	84	13	97	0	49
SEEDS 2000	X3161Bt	30	--	--	--	--	109	--	--	--	--	84	13	88	1	50
DEKALB	DK567	22	--	--	--	--	78	--	--	--	--	84	14	96	0	49
PIONEER	34W67	30	--	--	--	--	108	--	--	--	--	84	14	89	0	53
OTILIE	5267Bt	29	--	--	--	--	104	--	--	--	--	85	9	95	1	48
OTILIE	4911	25	--	--	--	--	92	--	--	--	--	85	12	95	1	52
OTILIE	5177RRBt	31	164	--	98	--	113	107	--	81	15	85	12	95	0	46
DEKALB	DKC57-38	33	--	--	--	--	119	--	--	--	--	85	13	95	0	55
MIDWEST SEED	G 7711	29	--	--	--	--	105	--	--	--	--	85	14	88	2	52
ASGROW	RX670	25	--	--	--	--	89	--	--	--	--	85	19	94	1	52
KAYSTAR	KX - 898	19	--	--	--	--	70	--	--	--	--	86	12	100	1	54
LG SEEDS	C7847	28	--	--	--	--	102	--	--	--	--	86	13	95	1	52
CROPLAN GEN.	666 Bt/RR	22	--	--	--	--	81	--	--	--	--	86	14	93	0	46
FONTANELLE	5301	26	--	--	--	--	94	--	--	--	--	86	14	91	1	52
MATURITY CHECK	MID - H2649	27	--	--	--	--	99	--	--	--	--	86	15	94	2	47
KAYSTAR	KX - 890 Bt	29	--	--	--	--	104	--	--	--	--	86	16	97	2	51
MIDLAND	XA15	27	--	--	--	--	97	--	--	--	--	86	16	84	0	50
GARST	8543Bt/IT	28	159	--	93	--	102	103	--	83	20	86	18	86	0	53
MIDWEST SEED	G 7718Bt	35	--	--	--	--	128	--	--	--	--	86	18	92	3	52
MATURITY CHECK	MID - H2530	25	147	137	86	103	91	96	94	83	16	87	15	91	0	51
FONTANELLE	MP-1155	31	167	--	99	--	112	109	--	84	19	87	17	96	2	48
SEEDS 2000	X3191RR	24	--	--	--	--	86	--	--	--	--	87	17	100	0	52
GARST	8363Bt	32	--	--	--	--	115	--	--	--	--	87	19	94	1	53
TRIUMPH	1514Bt	22	--	--	--	--	79	--	--	--	--	88	19	89	1	52
MATURITY CHECK	FULL - P3162	23	143	164	83	110	82	93	113	84	23	88	22	93	0	50
ASGROW	RX799Bt	27	161	166	94	118	99	105	114	84	24	88	23	96	1	51
CARGILL	7770	32	162	155	97	116	115	106	107	85	23	89	23	91	1	51
MIDLAND	7A08	17	--	--	--	--	63	--	--	--	--	90	23	95	2	49
CARGILL	8112	12	--	--	--	--	44	--	--	--	--	93	32	96	0	44
MATURITY CHECK	FULL - DS1997	8	--	--	--	--	30	--	--	--	--	93	34	95	0	46
MIDLAND	786	10	--	--	--	--	35	--	--	--	--	94	18	91	0	43
MIDLAND	798	14	--	--	--	--	53	--	--	--	--	94	31	90	1	48
	AVERAGES	28	153	145	90	109	28	153	145	82	17	86	16	93	1	50
	CV (%)	22	8	7	--	--	22	8	7	--	--	2	14	9	254	5
	LSD (0.05)**	7	15	12	--	--	26	9	8	--	--	2	4	10	2	4

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

WEST CENTRAL KANSAS STANDARD CORN TEST, NO-TILL DRYLAND

TARGET POPULATION: 17,000 plants/acre, 12.3 in. spacing

FINAL STAND (% of target): 94

SILK DATES: 7/20/00 - 8/2/00

YIELD: Avg. (bu/a): 33 **Range (bu/a):** 18 - 47

LSD (bu/a): 9 **CV (%):** 24

COUNTY: GREELEY

LOCATION: Southwest Research-Extension Center, Tribune

TEST SITE: Ulysses & Colby silt loam

1999 CROP: Wheat

1998 CROP: Fallow

FERTILIZER (lbs/acre): 105 N 17 P₂O₅ 0 K₂O

PLANTING DATE: 5/4/00

HARVEST DATE: 9/20/00

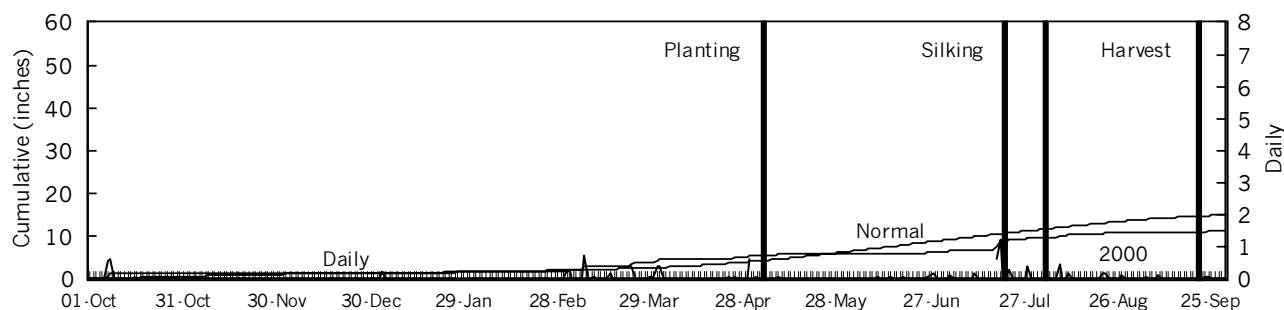
COOPERATORS: Alan Schlegel, agronomist; Ed Beason, agricultural technician

CORN BORERS: (susc. hybrid)	Infestation (% plants)		Tunnels (in./plant)	Sample date
	ECB	SWCB		
	0	63	3.9	9/18/00

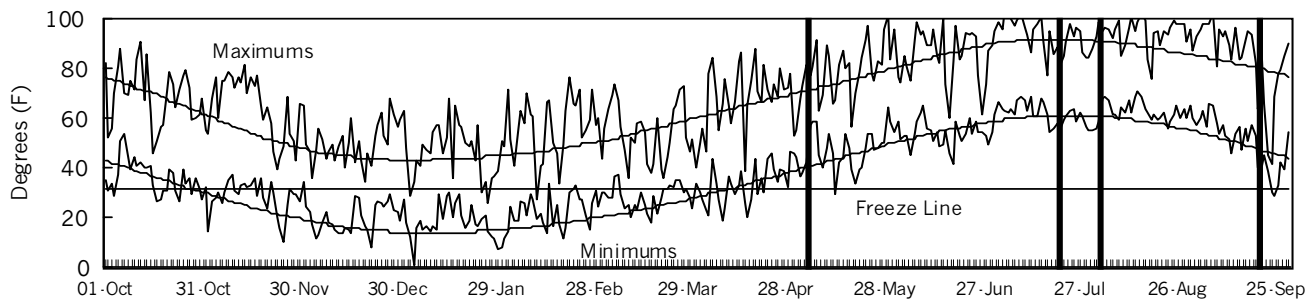
2000 GROWING CONDITONS:

The test was planted into standing wheat stubble, providing moist soil conditions. Emergence was generally good, but stand variability was higher than desired. The overriding factor affecting hybrid performance was the dry, hot weather experienced during most of the growing season. The adverse conditions affected vegetative growth, kernel set, and grain fill.

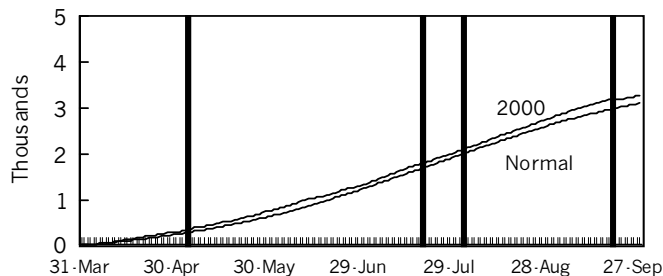
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	2000	Normal	2000	Normal	2000	Normal
April	1.1	1.4	51	49	288	237
May	0.9	2.3	63	60	449	376
June	0.6	2.6	70	70	544	611
July	3.1	2.5	78	76	734	745
August	1.2	2.2	79	74	750	671
Sept.	0.4	1.3	68	66	528	497
Season Totals	7.3	12.3	68	66	3293	3135

TABLE 17. Greeley Co. Dryland Corn test, 1998-2000.

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			1999-2000		2000				
		2000	1999	1998	2-Yr.	3-Yr.	2000	1999	1998	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
					AVG.	AVG.										
ASGROW	RX508	40	--	--	--	--	120	--	--	--	--	77	10	96	3	54
SEEDS 2000	X3161Bt	37	--	--	--	--	113	--	--	--	--	82	13	90	1	54
GARST	8559Bt/RR	32	--	--	--	--	98	--	--	--	--	82	14	88	0	51
PIONEER	34R07	44	128	--	86	--	133	104	--	77	16	82	14	93	0	52
MATURITY CHECK	SHORT - C4111	34	101	55	67	63	102	82	88	77	12	83	11	102	10	54
CROPLAN GEN.	592 CL	44	--	--	--	--	135	--	--	--	--	83	12	92	2	53
DEKALB	DKC57-38	26	--	--	--	--	80	--	--	--	--	83	12	98	2	55
PIONEER	34W67	30	--	--	--	--	92	--	--	--	--	83	12	101	2	54
DEKALB	DK595BtY	38	141	--	89	--	116	114	--	77	15	83	13	101	1	53
MYCOGEN	2725	36	--	--	--	--	109	--	--	--	--	83	13	97	3	54
CROPLAN GEN.	666 Bt/RR	30	--	--	--	--	91	--	--	--	--	83	14	96	0	51
DEKALB	DK567	28	--	--	--	--	85	--	--	--	--	83	14	88	2	53
MIDLAND	XA15	31	--	--	--	--	94	--	--	--	--	83	14	90	6	54
OTILIE	5177RRBt	33	--	--	--	--	102	--	--	--	--	83	14	103	1	52
MATURITY CHECK	SHORT - G8590	44	--	--	--	--	134	--	--	--	--	83	15	99	2	53
TRIUMPH	4542Bt	34	--	--	--	--	102	--	--	--	--	83	15	88	2	52
PIONEER	33B51	47	--	--	--	--	142	--	--	--	--	83	16	94	0	53
KAYSTAR	KX - 898	28	--	--	--	--	85	--	--	--	--	84	14	96	3	54
MATURITY CHECK	MID - H2649	29	--	--	--	--	89	--	--	--	--	84	14	89	0	53
ASGROW	RX740	26	120	--	73	--	80	97	--	79	16	84	15	101	1	55
CARGILL	7770	33	123	85	78	80	100	100	136	79	19	84	15	106	5	54
OTILIE	5267Bt	38	--	--	--	--	115	--	--	--	--	84	15	101	2	52
KAYSTAR	KX - 890 Bt	33	--	--	--	--	101	--	--	--	--	84	16	102	0	54
MATURITY CHECK	MID - H2530	33	123	67	78	74	99	99	107	79	15	85	13	94	5	54
ASGROW	RX670	26	--	--	--	--	78	--	--	--	--	85	14	89	3	53
OTILIE	4911	30	--	--	--	--	92	--	--	--	--	85	14	88	3	52
MYCOGEN	2799IMI	38	--	--	--	--	116	--	--	--	--	85	15	90	1	51
SEEDS 2000	3104RR	40	--	--	--	--	123	--	--	--	--	85	16	88	5	51
SEEDS 2000	X3191RR	34	--	--	--	--	104	--	--	--	--	86	15	91	3	53
GARST	8363Bt	37	--	--	--	--	114	--	--	--	--	86	18	101	0	54
MATURITY CHECK	FULL - P3162	33	133	62	83	76	101	108	99	80	21	86	18	74	4	54
NC+	4649B	31	--	--	--	--	95	--	--	--	--	86	19	103	0	53
GARST	8543Bt/IT	31	141	--	86	--	96	114	--	79	22	86	26	96	0	50
MIDLAND	7A08	28	--	--	--	--	85	--	--	--	--	87	18	94	7	53
MATURITY CHECK	FULL - DS1997	30	--	--	--	--	91	--	--	--	--	88	20	69	4	52
MIDLAND	798	20	--	--	--	--	60	--	--	--	--	88	24	98	4	51
CARGILL	8112	18	--	--	--	--	54	--	--	--	--	89	25	95	5	50
MIDLAND	786	24	--	--	--	--	74	--	--	--	--	90	26	86	2	51
	AVERAGES	33	123	62	78	73	33	123	62	78	17	84	16	94	3	53
	CV (%)	24	10	16	--	--	24	10	16	--	--	2	17	8	104	4
	LSD (0.05)**	9	15	11	--	--	28	12	18	--	--	2	3	9	3	3

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

TABLE 18. WEST Kansas NO-TILL, DRYLAND corn hybrid yield summary (% of test avg.), 2000.

BRAND/NAME	STD ¹	ELD	THD	GRD	AVG.	BRAND/NAME	STD ¹	ELD	THD	GRD	AVG.
AGRIPRO						MIDLAND					
9570Bt	--	--	106	--	--	786	--	101	35	74	--
9689Bt	106	--	--	--	--	798	--	91	53	60	--
ASGROW						MIDWEST SEED					
RX508	98	--	136	120	--	7A08	--	108	63	85	--
RX670	89	79	89	78	84	XA15	--	104	97	94	--
RX740	88	99	--	80	--	MIDWEST SEED					
RX799Bt	--	135	99	--	--	G 7707RR	--	97	--	--	--
CARGILL						MYCOGEN					
7770	--	107	115	100	--	G 7711	--	--	105	--	--
8112	--	111	44	54	--	G 7718Bt	--	--	128	--	--
CROPLAN GEN.						NC+					
592 CL	--	90	130	135	--	4616	--	86	--	--	--
666 Bt/RR	--	102	81	91	--	4649B	--	113	--	95	--
DEKALB						NK					
DK567	96	75	78	85	84	N59-Q9	--	--	133	--	--
DK579	--	--	109	--	--	N67-T4	--	--	108	--	--
DK595BtY	114	114	--	116	--	OTILIE					
DKC57-38	105	89	119	80	98	4911	--	78	92	92	--
DELANGE						PIONEER					
DS 1995	76	--	--	--	--	31B13	113	--	--	--	--
FONTANELLE						SEEDS 2000					
5301	--	--	94	--	--	33B51	--	120	119	142	--
HC7734RR	--	--	140	--	--	33V08	100	--	--	--	--
MP-1155	--	--	112	--	--	34R07	--	111	128	133	--
FRONTIER						TRIUMPH					
F3175	--	109	--	--	--	34W67	--	--	108	92	--
GARST						AVERAGES (bu/a)					
8363Bt	--	127	115	114	--	35N05	116	--	--	--	--
8539BLT	--	105	--	--	--	3104RR	--	74	123	123	--
8543Bt/IT	106	116	102	96	105	X3161Bt	--	96	109	113	--
8559Bt/RR	--	95	103	98	--	X3191RR	--	90	86	104	--
KAYSTAR						CV (%)					
KX - 890 Bt	--	125	104	101	--	4542Bt	--	--	--	102	--
KX - 898	--	80	70	85	--	LSD (0.05)**					
LG SEEDS						CV (%)					
C7847	--	--	102	--	--	9	10	22	24	--	--
LG2569	--	--	108	--	--	11	13	26	28	--	--
MATURITY CHECK						LSD (0.05)**					
FULL - DS1997	110	101	30	91	83	93	85	28	33	60	--
FULL - P3162	106	89	82	101	95	9	10	22	24	--	--
MID - H2530	100	96	91	99	97	11	13	26	28	--	--
MID - H2649	96	93	99	89	94						
SHORT - C4111	107	63	108	102	95						
SHORT - G8590	104	89	140	134	117						

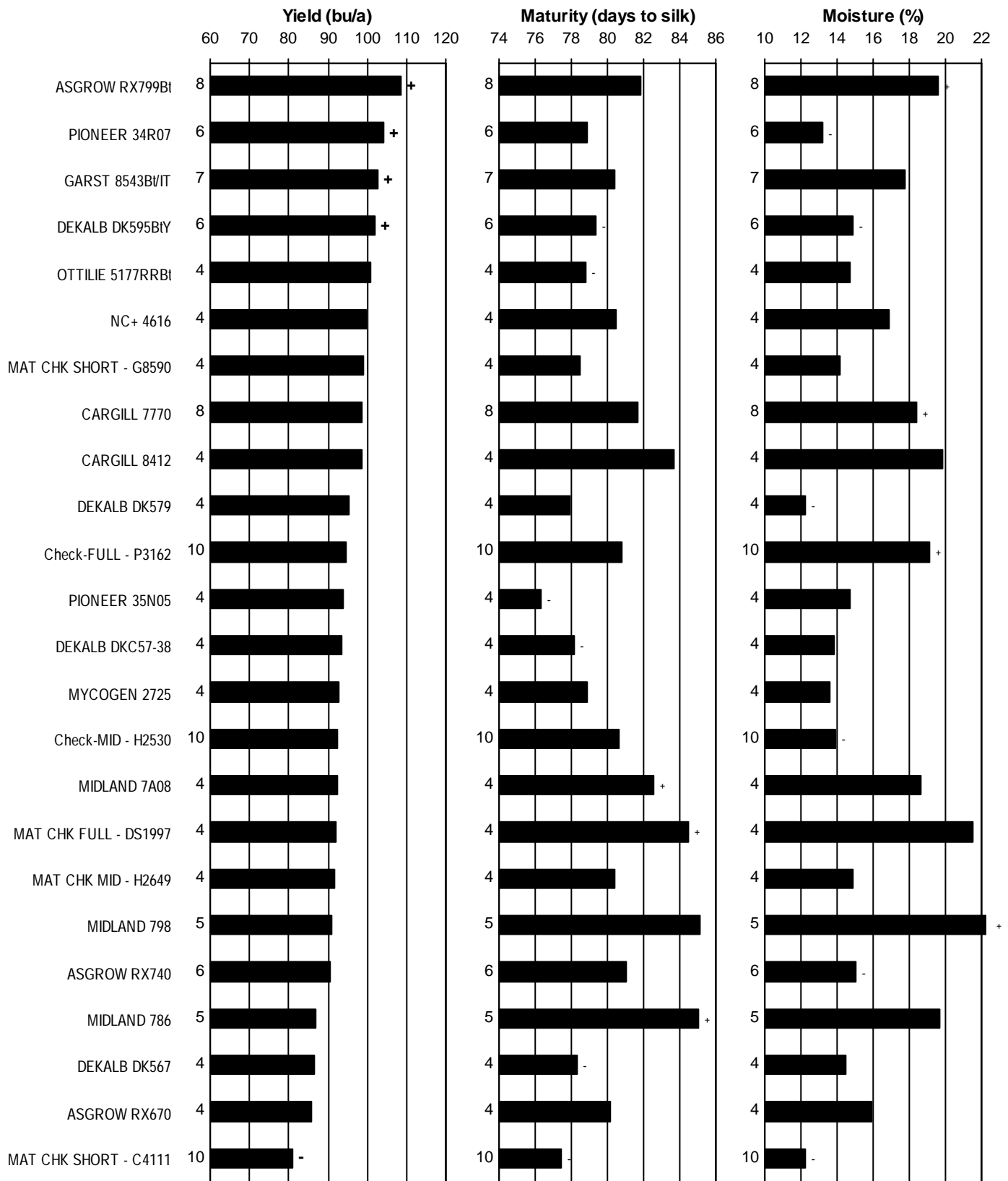
¹ STD = Stafford Co., St. John

ELD = Ellis Co., Hays

THD = Thomas Co., Colby

GRD = Greeley Co., Tribune

FIGURE 8. WEST Kansas NO-TILL, DRYLAND corn hybrid standardized performance summary, 1998-2000.



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

NORTHWESTERN KANSAS STANDARD CORN TEST, IRRIGATED

TARGET POPULATION: 30,000 plants/acre, 7.0 in. spacing
FINAL STAND (% of target): 114
SILK DATES: 7/11/00 - 7/21/00
YIELD: Avg. (bu/a): 185 **Range (bu/a):** 132 - 221
LSD (bu/a): 21 **CV (%):** 10

COUNTY: THOMAS

LOCATION: Northwest Research-Extension Center, Colby

TEST SITE: Keith silt loam

1999 CROP: Soybean

1998 CROP: Sunflower

FERTILIZER (lbs/acre): 250 N 30 P₂O₅ 0 K₂O

PLANTING DATE: 4/28/00

HARVEST DATE: 9/20/00

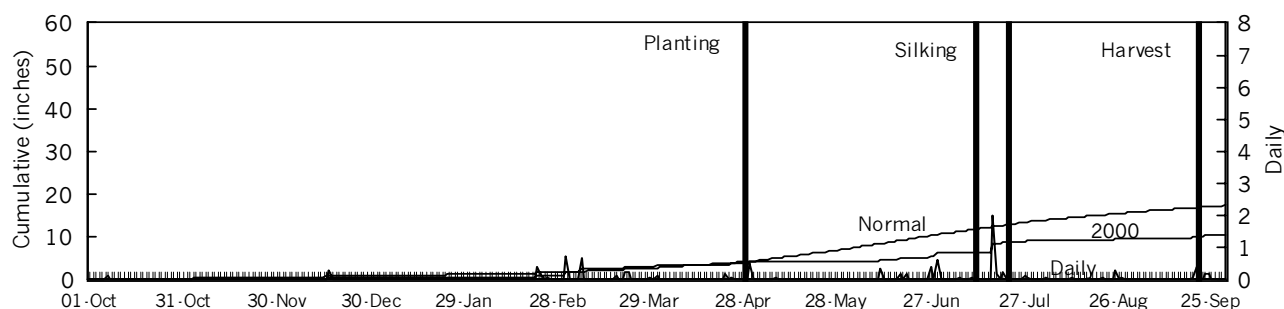
COOPERATORS: Patrick Evans, agronomist

CORN BORERS: (susceptible hybrid)	Infestation (% plants)		Tunnels (in./plant)	Sample date
	ECB	SWCB		
	18	3	0.7	9/15/00

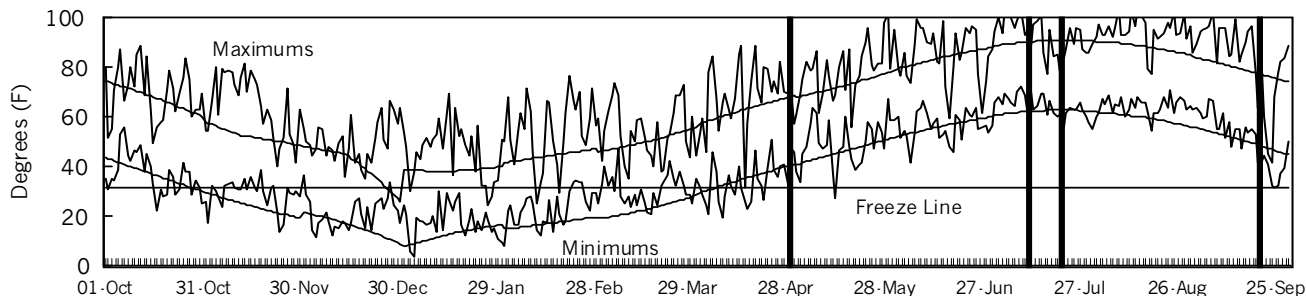
2000 GROWING CONDITIONS:

Aside from the hot, dry conditions during August and September, few problems arose during the season. Insects and diseases caused little, if any, damage.

PRECIPITATION



DAILY TEMPERATURES



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	2000	Normal	2000	Normal	2000	Normal
April	0.5	1.5	51	49	287	203
May	0.6	2.9	64	60	469	347
June	1.8	3.6	71	70	578	622
July	2.9	3.1	79	76	775	774
August	0.7	2.0	80	74	772	686
Sept.	0.8	1.6	68	65	530	474
Season Totals	7.4	14.6	69	66	3410	3106

GROWING DEGREE DAYS

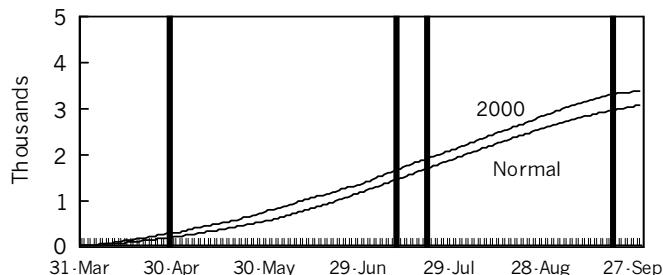


TABLE 19. Thomas Co. Irrigated Corn Performance Test, 1998-2000.

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			1999-2000		2000				
		2000	1999	1998	2-Yr. AVG.	3-Yr. AVG.	2000	1999	1998	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
MATURITY CHECK	SHORT - C4111	148	202	222	175	191	80	86	88	74	11	74	8	117	5	59
DEKALB	DKC57-38	177	--	--	--	--	96	--	--	--	--	74	9	117	1	60
DEKALB	DK551BtY	185	241	--	213	--	100	103	--	75	11	75	7	116	2	57
FONTANELLE	HC7734RR	145	234	--	189	--	78	100	--	74	15	75	10	113	1	55
US SEEDS	US C1120	184	--	--	--	--	99	--	--	--	--	75	15	107	3	57
MATURITY CHECK	SHORT - G8590	174	--	--	--	--	94	--	--	--	--	76	10	115	1	58
NK	N65-A1	161	233	--	197	--	87	100	--	75	14	76	10	115	6	58
OTILIE	5177RRBt	132	226	--	179	--	72	97	--	76	15	76	10	116	3	55
HPH	KS 5130	168	--	--	--	--	91	--	--	--	--	76	11	114	17	57
LG SEEDS	LG2579	174	224	248	199	215	94	95	98	76	16	76	11	115	7	57
OTILIE	5267Bt	195	--	--	--	--	105	--	--	--	--	76	11	117	11	57
ASGROW	RX670	196	--	--	--	--	106	--	--	--	--	76	12	116	5	56
HAWKEYE	SX65	189	--	--	--	--	102	--	--	--	--	76	13	116	11	57
NC+	4990B	204	--	--	--	--	110	--	--	--	--	76	13	116	7	57
NK	N67-T4	185	--	--	--	--	100	--	--	--	--	76	13	116	3	57
PIONEER	33B51	196	--	--	--	--	106	--	--	--	--	76	18	116	0	57
CROPLAN GEN.	762 Bt/CL	193	--	--	--	--	104	--	--	--	--	76	21	116	0	55
MIDWEST SEED	G 7718Bt	193	--	--	--	--	104	--	--	--	--	77	10	115	11	57
AGRIPRO	9559Bt	179	--	--	--	--	96	--	--	--	--	77	11	110	7	57
MYCOGEN	2833	206	--	--	--	--	111	--	--	--	--	77	11	114	3	56
US SEEDS	US C1139RR	163	--	--	--	--	88	--	--	--	--	77	11	105	1	58
CARGILL	6912	184	--	--	--	--	100	--	--	--	--	77	12	116	10	57
PFISTER	2750	202	--	--	--	--	109	--	--	--	--	77	12	116	2	57
HAWKEYE	SX70	190	--	--	--	--	102	--	--	--	--	77	13	116	0	57
MIDWEST SEED	G 7711	171	--	246	--	--	92	--	98	--	--	77	13	115	8	58
MYCOGEN	2767	182	--	--	--	--	98	--	--	--	--	77	13	116	13	57
NK	N7070BT	199	256	258	227	238	107	109	102	77	17	77	13	116	4	57
TRIUMPH	1141Bt	182	--	--	--	--	98	--	--	--	--	77	13	114	3	57
MIDLAND	XB15	194	--	--	--	--	105	--	--	--	--	77	14	112	2	57
OTILIE	5333	183	--	--	--	--	99	--	--	--	--	77	14	116	2	57
US SEEDS	US C1151ND	171	--	--	--	--	92	--	--	--	--	77	19	112	7	54
MATURITY CHECK	MID - H2530	193	215	211	204	207	104	92	84	77	13	78	9	116	3	57
CROPLAN GEN.	676 RR	172	--	--	--	--	93	--	--	--	--	78	10	116	1	57
LG SEEDS	LG2584BT	175	226	--	201	--	95	97	--	77	15	78	10	116	6	57
US SEEDS	US C1129Bt	158	--	--	--	--	85	--	--	--	--	78	10	112	7	56
MATURITY CHECK	MID - H2649	197	--	--	--	--	106	--	--	--	--	78	11	114	4	58
OTILIE	5051 IMI	152	--	--	--	--	82	--	--	--	--	78	11	116	7	57
HPH	KS 2150	184	--	--	--	--	99	--	--	--	--	78	12	116	7	57
FONTANELLE	5301	161	--	--	--	--	87	--	--	--	--	78	13	113	6	58
US SEEDS	US C1131ND	174	--	--	--	--	94	--	--	--	--	78	13	113	11	59
AGRIPRO	9570Bt	174	--	--	--	--	94	--	--	--	--	78	14	117	9	57
LG SEEDS	C7640BT	184	--	--	--	--	99	--	--	--	--	78	14	116	6	55
OTILIE	EO1115EXP	199	--	--	--	--	107	--	--	--	--	78	15	117	1	56
PIONEER	33P67	186	--	--	--	--	100	--	--	--	--	78	15	117	3	60
KAYSTAR	KX - 911	206	--	--	--	--	111	--	--	--	--	78	16	117	3	56

(continued)

TABLE 19. Thomas Co. Irrigated Corn Performance Test, 1998-2000.

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			1999-2000		2000				
		2000	1999	1998	2-Yr.	3-Yr.	2000	1999	1998	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
					AVG.	AVG.										
PFISTER	3350	204	--	--	--	--	110	--	--	--	--	78	19	100	2	57
PFISTER	3977	200	249	277	225	242	108	107	110	77	23	78	19	114	11	55
MATURITY CHECK	FULL - P3162	181	216	238	199	212	98	92	94	78	23	78	20	113	1	57
PREMIUM	P280	180	--	--	--	--	97	--	--	--	--	79	14	109	3	59
KAYSTAR	KX - 920	189	--	--	--	--	102	--	--	--	--	79	16	115	14	55
NC+	5999	186	254	--	220	--	101	108	--	78	22	79	19	113	1	55
ASGROW	RX799Bt	221	249	241	235	237	119	106	95	78	22	79	20	117	1	54
DEKALB	DK611	218	--	--	--	--	118	--	--	--	--	80	11	116	16	58
HAWKEYE	SX76	197	241	266	219	235	107	103	106	79	19	80	14	116	17	57
US SEEDS	US C1159	183	--	--	--	--	99	--	--	--	--	80	14	113	7	57
MIDLAND	7A08	195	232	--	214	--	105	99	--	79	20	80	15	116	13	56
FONTANELLE	MP-1155	195	269	284	232	249	105	115	113	79	20	80	17	113	13	57
CROPLAN GEN.	818	202	--	--	--	--	109	--	--	--	--	80	21	116	1	54
PIONEER	32R42	209	--	--	--	--	113	--	--	--	--	80	21	116	1	57
PIONEER	31A13	199	--	--	--	--	107	--	--	--	--	80	22	114	1	56
DEKALB	DK647BtY	178	242	--	210	--	96	103	--	79	18	81	13	116	11	55
OTILIE	5666	197	--	--	--	--	106	--	--	--	--	81	13	113	10	55
CARGILL	8112	203	--	--	--	--	109	--	--	--	--	81	14	114	32	56
MIDLAND	798	193	254	303	223	250	104	108	120	82	22	82	18	116	37	58
TRIUMPH	1866Bt	206	243	--	224	--	111	104	--	81	22	82	18	113	41	58
MIDLAND	786	204	250	305	227	253	110	107	121	81	23	82	20	112	3	52
MATURITY CHECK	FULL - DS1997	193	--	--	--	--	104	--	--	--	--	84	24	109	3	54
	AVERAGES	185	234	252	210	224	185	234	252	77	18	78	14	114	7	57
	CV (%)	10	6	6	--	--	10	6	6	--	--	1	13	3	74	1
	LSD (0.05)**	21	17	18	--	--	11	7	7	--	--	1	2	4	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 STANDARD CORN TEST, IRRIGATED

TARGET POPULATION: 30,000 plants/acre, 7.0 in. spacing
FINAL STAND (% of target): 93
SILK DATES: 7/24/00 - 8/1/00

COUNTY: GREELEY

YIELD: Avg. (bu/a): 111 **Range (bu/a):** 75 - 144
LSD (bu/a): 19 **CV (%):** 15

LOCATION: Southwest Research-Extension Center, Tribune

TEST SITE: Ulysses silt loam

CORN BORERS: (sus. hybrid)	Infestation (% plants)		Tunnels (in./plant)	Sample date
	ECB	SWCB		
0	50		3.2	9/18/00

1999 CROP: Wheat

1998 CROP: Fallow

FERTILIZER (lbs/acre): 150 N 500 P₂O₅ 0 K₂O

PLANTING DATE: 4/21/00

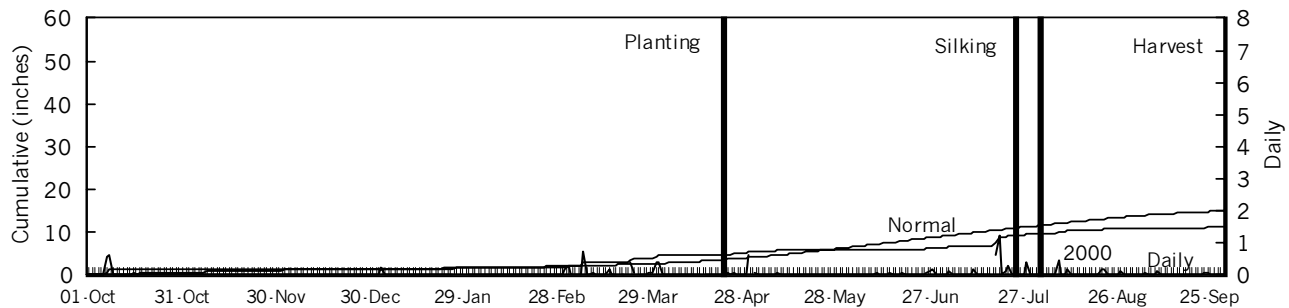
HARVEST DATE: 10/1/00

COOPERATORS: Alan Schlegel, agronomist; Ed Beason, agricultural technician

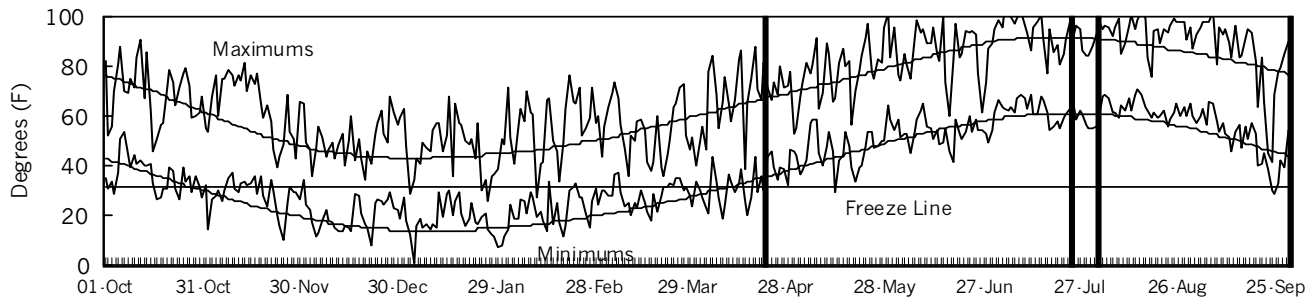
2000 GROWING CONDITIONS:

Heavy wheat residue remained after a high-yielding wheat crop in 1999. Dry conditions after planting resulted in erratic emergence and uneven early growth. The wheat residue appeared to tie up much of the available N, causing variable N-deficiency symptoms. An application of N and P fertilizer in the row at planting failed to overcome this early-season variability.

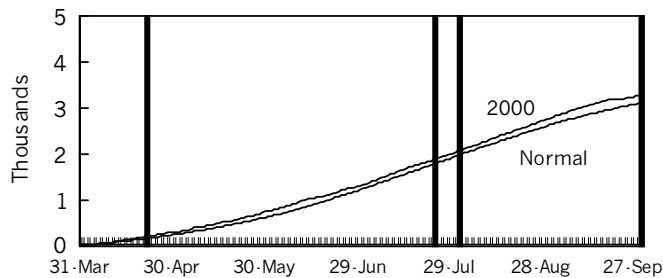
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	2000	Normal	2000	Normal	2000	Normal
April	1.1	1.4	51	49	288	237
May	0.9	2.3	63	60	449	376
June	0.6	2.6	70	70	544	611
July	3.1	2.5	78	76	734	745
August	1.2	2.2	79	74	750	671
Sept.	0.4	1.3	68	66	528	497
Season Totals	7.3	12.3	68	66	3293	3135

TABLE 20. Greeley Co. Irrigated Corn Performance Test, 1997-2000.

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			1998-2000		2000				
		2000	1998	1997	2-Yr. AVG.	3-Yr. AVG.	2000	1998	1997	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
		MATURITY CHECK	SHORT - C4111	113	209	175	161	166	102	90	85	86	15	94	13	115
ASGROW	RX670	99	--	--	--	--	89	--	--	--	--	95	15	90	7	54
MATURITY CHECK	SHORT - G8590	113	--	--	--	--	102	--	--	--	--	95	16	96	7	56
PIONEER	34R07	124	--	--	--	--	112	--	--	--	--	95	16	87	1	55
DEKALB	DK551BtY	138	--	--	--	--	125	--	--	--	--	96	16	87	0	55
MYCOGEN	2767	121	--	--	--	--	109	--	--	--	--	96	16	101	3	54
WILSON	1664	94	242	220	168	185	85	104	107	87	18	96	16	97	8	54
AGRIPRO	9570Bt	118	--	--	--	--	106	--	--	--	--	96	17	99	3	55
HPH	KS 5130	115	--	--	--	--	104	--	--	--	--	96	17	84	12	54
OTILIE	5267Bt	129	--	--	--	--	116	--	--	--	--	96	17	92	4	54
PIONEER	33B51	113	--	--	--	--	102	--	--	--	--	96	19	112	1	55
FONTANELLE	5301	111	--	--	--	--	100	--	--	--	--	97	16	94	3	54
LG SEEDS	LG2579	102	248	--	175	--	92	107	--	87	19	97	16	91	8	54
TRIUMPH	4542Bt	99	--	--	--	--	89	--	--	--	--	97	16	107	1	55
MIDLAND	XB15	144	--	--	--	--	130	--	--	--	--	97	17	107	9	53
MATURITY CHECK	MID - H2530	116	223	205	170	181	105	96	100	89	20	97	18	106	4	53
MYCOGEN	2833	139	--	--	--	--	126	--	--	--	--	97	18	79	1	54
KAYSTAR	KX - 911	108	--	--	--	--	98	--	--	--	--	97	19	90	4	53
OTILIE	5177RRBt	116	--	--	--	--	105	--	--	--	--	97	19	105	1	54
WILSON	1475PT	95	--	190	--	--	86	--	93	--	--	97	19	85	8	53
LG SEEDS	LG2584BT	131	--	--	--	--	118	--	--	--	--	98	15	114	0	54
CARGILL	6912	105	--	--	--	--	95	--	--	--	--	98	17	90	9	55
HPH	KS 2150	89	--	--	--	--	81	--	--	--	--	98	17	95	2	53
OTILIE	5333	111	--	--	--	--	100	--	--	--	--	98	17	98	5	53
ASGROW	RX730YG	115	--	--	--	--	104	--	--	--	--	98	18	103	0	54
CROPLAN GEN.	676 RR	120	--	--	--	--	108	--	--	--	--	98	18	108	12	54
MATURITY CHECK	MID - H2649	100	--	--	--	--	90	--	--	--	--	98	18	89	3	53
CROPLAN GEN.	762 Bt/CL	117	--	--	--	--	105	--	--	--	--	98	21	94	0	53
MATURITY CHECK	FULL - P3162	107	233	217	170	186	96	101	106	89	26	98	24	88	6	54
ASGROW	RX799Bt	126	--	--	--	--	114	--	--	--	--	99	20	118	1	53
PIONEER	32R42	82	--	--	--	--	74	--	--	--	--	99	22	91	3	52
DEKALB	DK611	131	--	--	--	--	118	--	--	--	--	100	21	101	5	54
DEKALB	DK647BtY	110	--	--	--	--	99	--	--	--	--	100	22	105	1	53
KAYSTAR	KX - 920	115	--	--	--	--	104	--	--	--	--	100	22	107	2	52
MIDLAND	7A08	95	--	--	--	--	86	--	--	--	--	100	22	79	8	53
FONTANELLE	5786	82	--	--	--	--	74	--	--	--	--	100	23	75	7	52
CARGILL	8112	127	--	--	--	--	114	--	--	--	--	100	24	87	7	53
MIDLAND	798	99	229	--	164	--	89	99	--	92	26	100	25	76	5	53
CROPLAN GEN.	818	128	--	--	--	--	116	--	--	--	--	100	26	87	2	52
LG SEEDS	LG2651	88	--	--	--	--	79	--	--	--	--	101	22	77	1	52
TRIUMPH	1866Bt	90	--	--	--	--	81	--	--	--	--	101	26	60	2	53
MIDLAND	786	115	218	--	166	--	104	94	--	93	25	102	24	86	3	50
MATURITY CHECK	FULL - DS1997	75	--	--	--	--	68	--	--	--	--	102	26	62	6	52
	AVERAGES	111	232	205	171	183	111	232	205	89	21	98	19	93	4	54
	CV (%)	15	8	8	--	--	15	8	8	--	--	2	7	13	89	1
	LSD (0.05)**	19	24	19	--	--	17	10	9	--	--	2	2	14	4	1

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

SOUTHWESTERN KANSAS STANDARD CORN TEST, IRRIGATED

TARGET POPULATION: 30,000 plants/acre, 7.0 in. spacing

FINAL STAND (% of target): 93

SILK DATES: 7/9/00 - 7/18/00

YIELD: Avg. (bu/a): 194 **Range (bu/a):** 132 - 227

LSD (bu/a): 19 **CV (%):** 8

COUNTY: FINNEY

LOCATION: Southwest Research-Extension Center, Garden City

TEST SITE: Keith silt loam

1999 CROP: Soybean

1998 CROP: Corn

FERTILIZER (lbs/acre): 180 N 0 P₂O₅ 0 K₂O

PLANTING DATE: 4/27/00

HARVEST DATE: 9/22/00

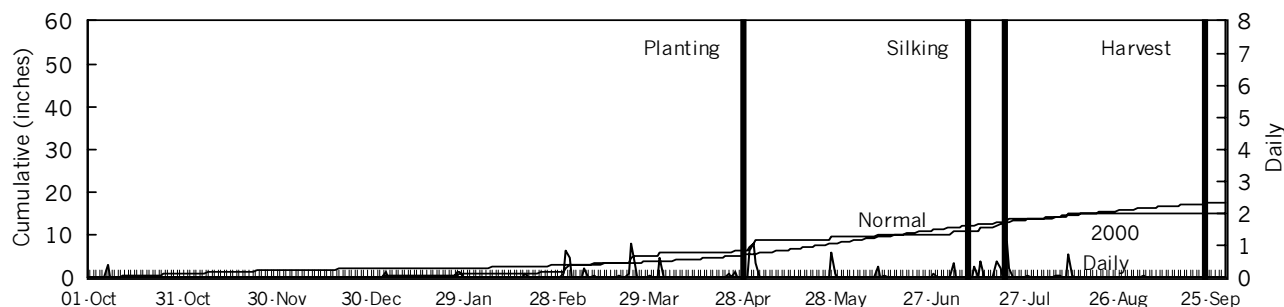
COOPERATORS: Merle Witt, agronomist

CORN BORERS: (sus. hybrid)	Infestation (% plants)		Tunnels (in./plant)	Sample date
	ECB	SWCB		
	0	23	1.5	9/19/00

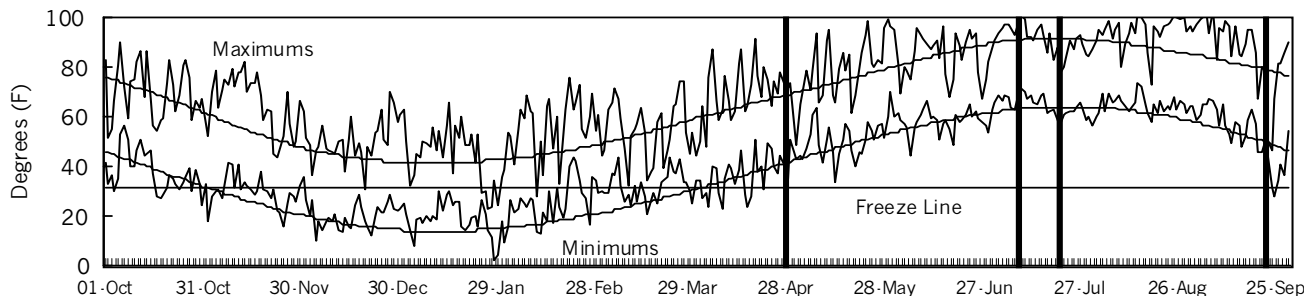
2000 GROWING CONDITIONS:

Emergence and early crop development were accelerated by the warm spring temperatures. This trend continued through the rest of the season with early silking, maturation, dry-down, and harvest.

PRECIPITATION



DAILY TEMPERATURES



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	2000	Normal	2000	Normal	2000	Normal
April	1.0	1.7	53	51	297	229
May	3.4	2.8	65	62	472	386
June	0.7	3.0	72	72	605	666
July	3.8	2.5	78	78	776	794
August	1.0	2.1	80	75	781	718
Sept.	0.1	1.6	70	67	572	522
Season Totals	9.8	13.8	70	67	3503	3314

GROWING DEGREE DAYS

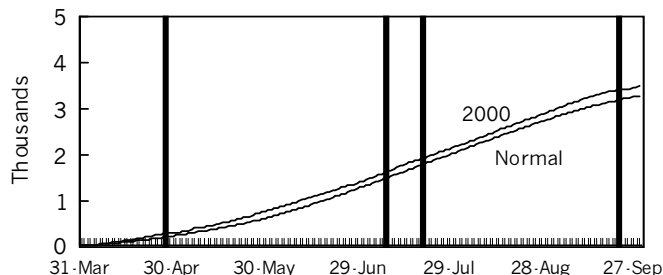


TABLE 21. Finney Co. Irrigated Corn Performance Test, 1998-2000.

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			1999-2000		2000				Test Wt. lb/bu
		2000	1999	1998	2-Yr.	3-Yr.	2000	1999	1998	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %	
					AVG.	AVG.										
MATURITY CHECK	SHORT - C4111	132	118	146	125	132	68	64	81	69	14	73	12	101	3	--
HPH	KS 5130	189	--	--	--	--	97	--	--	--	--	73	15	83	2	--
MATURITY CHECK	SHORT - G8590	183	--	--	--	--	94	--	--	--	--	74	14	95	1	--
AGRIPRO	9570Bt	202	--	--	--	--	104	--	--	--	--	74	15	100	2	--
CARGILL	6912	188	--	--	--	--	97	--	--	--	--	74	15	96	4	--
MYCOGEN	2725	183	--	173	--	--	94	--	96	--	--	74	15	99	1	--
OTILIE	5177RRBt	171	--	--	--	--	88	--	--	--	--	74	15	93	0	--
NC+	4880	203	163	185	183	184	105	89	103	69	17	74	16	99	2	--
NK	N67-T4	187	--	--	--	--	96	--	--	--	--	74	16	99	1	--
OTILIE	EO1115EXP	213	--	--	--	--	110	--	--	--	--	74	16	99	1	--
AGRIPRO	9559Bt	183	--	--	--	--	94	--	--	--	--	75	14	92	5	--
HOEGEMEYER	2668	178	163	--	171	--	91	89	--	71	16	75	14	87	0	--
FONTANELLE	MP-1155	207	--	210	--	--	106	--	116	--	--	75	15	95	5	--
MIDLAND	XB15	200	--	--	--	--	103	--	--	--	--	75	15	96	4	--
NK	N7590BT	203	192	223	198	206	105	105	124	71	17	75	15	95	0	--
TRIUMPH	1141Bt	192	187	--	190	--	99	102	--	71	17	75	15	95	4	--
KAYSTAR	KX - 911	205	--	--	--	--	106	--	--	--	--	75	16	92	1	--
OTILIE	5333	203	--	--	--	--	104	--	--	--	--	75	16	99	5	--
AGRIPRO	9689Bt	199	--	--	--	--	102	--	--	--	--	75	17	98	1	--
KAYSTAR	KX - 920	209	--	--	--	--	107	--	--	--	--	75	17	89	3	--
MATURITY CHECK	MID - H2530	176	177	180	177	178	91	96	100	72	16	76	13	89	2	--
CROPLAN GEN.	676 RR	176	--	--	--	--	90	--	--	--	--	76	14	95	2	--
WILSON	1762	182	--	--	--	--	94	--	--	--	--	76	14	100	3	--
AGRIPRO	9660Bt	177	--	--	--	--	91	--	--	--	--	76	15	96	1	--
DEKALB	DK655	192	169	--	180	--	99	92	--	72	17	76	15	88	1	--
GARST	8341	174	--	--	--	--	89	--	--	--	--	76	15	85	3	--
MATURITY CHECK	MID - H2649	175	--	--	--	--	90	--	--	--	--	76	15	80	1	--
WILSON	1861Bt	198	193	--	196	--	102	105	--	72	16	76	15	97	0	--
ASGROW	RX799Bt	222	197	--	210	--	114	107	--	72	19	76	16	106	2	--
DEKALB	DKC63-22	192	--	--	--	--	99	--	--	--	--	76	16	95	2	--
HPH	KS 2150	194	--	--	--	--	100	--	--	--	--	76	16	94	3	--
LG SEEDS	LG2696	204	--	--	--	--	105	--	--	--	--	76	16	91	2	--
MIDWEST SEED	G 8758Bt	211	--	--	--	--	109	--	--	--	--	76	16	101	1	--
NK	N79-L3	203	177	185	190	188	105	96	103	72	17	76	16	101	1	--
OTILIE	5267Bt	189	--	--	--	--	97	--	--	--	--	76	16	101	1	--
CROPLAN GEN.	762 Bt/CL	174	--	--	--	--	89	--	--	--	--	76	17	94	4	--
HOEGEMEYER	2649	167	--	--	--	--	86	--	--	--	--	76	17	81	1	--
MATURITY CHECK	FULL - P3162	185	204	163	194	184	95	111	90	72	19	76	17	93	2	--
NC+	5588B	200	--	--	--	--	103	--	--	--	--	76	17	99	3	--
PFISTER	3977	221	200	176	211	199	114	109	98	71	19	76	17	98	5	--
PIONEER	33P67	198	--	--	--	--	102	--	--	--	--	76	17	96	0	--
GARST	8363Bt	211	--	--	--	--	109	--	--	--	--	76	19	100	0	--
DEKALB	DK647BtY	192	177	--	184	--	99	96	--	72	17	77	15	93	2	--
FONTANELLE	5800	206	--	--	--	--	106	--	--	--	--	77	15	96	1	--
PFISTER	3350	174	--	--	--	--	90	--	--	--	--	77	15	80	5	--

(continued)

TABLE 21. Finney Co. Irrigated Corn Performance Test, 1998-2000.

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			1999-2000		2000				
		2000	1999	1998	2-Yr.	3-Yr.	2000	1999	1998	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
					AVG.	AVG.										
ASGROW	RX813	207	195	--	201	--	107	106	--	73	17	77	16	102	3	--
PIONEER	31A13	227	--	--	--	--	117	--	--	--	--	77	16	99	3	--
PIONEER	32R42	211	--	--	--	--	109	--	--	--	--	77	16	93	3	--
TRIUMPH	1514Bt	203	--	--	--	--	105	--	--	--	--	77	16	91	2	--
CROPLAN GEN.	818	216	--	--	--	--	111	--	--	--	--	77	17	88	2	--
MIDLAND	7A08	194	203	--	198	--	100	111	--	72	18	77	17	87	1	--
CARGILL	8112	207	--	--	--	--	107	--	--	--	--	78	16	93	3	--
FONTANELLE	5786	197	214	--	206	--	101	116	--	73	18	78	16	92	2	--
ASGROW	RX889	214	225	--	220	--	110	122	--	74	18	78	17	101	4	--
NC+	5445	194	--	169	--	--	100	--	94	--	--	78	17	94	2	--
OTTILIE	5666	195	--	--	--	--	100	--	--	--	--	78	17	87	4	--
PIONEER	31G98	220	--	--	--	--	113	--	--	--	--	78	17	91	1	--
MYCOGEN	2888IMI	205	200	--	203	--	106	109	--	74	19	78	18	98	4	--
HOEGEMEYER	2718	190	165	--	177	--	98	90	--	74	17	79	16	94	2	--
LG SEEDS	LG2726	177	188	194	182	186	91	102	108	75	20	79	17	82	3	--
MIDWEST SEED	G 8795	221	--	--	--	--	114	--	--	--	--	79	17	93	1	--
NK	N83-Z8	210	--	--	--	--	108	--	--	--	--	79	17	93	4	--
TRIUMPH	1866Bt	204	202	--	203	--	105	110	--	74	19	79	17	86	5	--
FRONTIER	F3175	190	--	--	--	--	98	--	--	--	--	80	16	81	1	--
MIDLAND	786	168	171	204	170	181	87	93	113	75	18	80	16	85	2	--
MIDLAND	798	212	201	201	206	205	109	109	112	75	19	80	18	96	2	--
MATURITY CHECK	FULL - DS1997	155	--	187	--	--	80	--	104	--	--	81	18	68	5	--
WILSON	2330	200	193	206	197	200	103	105	114	77	21	82	19	96	1	--
	AVERAGES	194	184	180	189	186	194	184	180	72	18	76	16	93	2	--
	CV (%)	8	9	10	--	--	8	9	10	--	--	1	8	6	93	--
	LSD (0.05)**	18	19	23	--	--	9	10	13	--	--	1	1	6	2	--

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

TABLE 22. WEST Kansas IRRIGATED corn hybrid yield summary (% of test average), 2000.

BRAND/NAME	STI ¹	THI	GRI	FNI	AVG.	BRAND/NAME	STI ¹	THI	GRI	FNI	AVG.
AGRIPRO						HOEGEMEYER					
9559Bt	--	96	--	94	--	2649	--	--	--	86	--
9570Bt	--	94	106	104	101	2668	--	--	--	91	--
9660Bt	--	--	--	91	--	2718	--	--	--	98	--
9689Bt	--	--	--	102	--	<hr/>					
ASGROW						HPH					
RX670	--	106	89	--	--	KS 2150	--	99	81	100	93
RX730YG	--	--	104	--	--	KS 5130	--	91	104	97	97
RX799Bt	--	119	114	114	116	<hr/>					
RX813	--	--	--	107	--	KAYSTAR					
RX889	--	--	--	110	--	KX - 911	--	111	98	106	105
<hr/>						KX - 920	--	102	104	107	105
CARGILL						<hr/>					
6912	--	100	95	97	97	LG SEEDS					
8112	--	109	114	107	110	C7640BT	--	99	--	--	--
<hr/>						LG2579	--	94	92	--	--
CROPLAN GEN.						LG2584BT	--	95	118	--	--
676 RR	--	93	108	90	97	LG2651	--	--	79	--	--
762 Bt/CL	--	104	105	89	100	LG2696	--	--	--	105	--
818	--	109	116	111	112	LG2726	--	--	--	91	--
<hr/>						<hr/>					
DEKALB						MATURITY CHECK					
DK551BtY	--	100	125	--	--	FULL - DS1997	--	104	68	80	84
DK611	--	118	118	--	--	FULL - P3162	--	98	96	95	96
DK647BtY	--	96	99	99	98	MID - H2530	--	104	105	91	100
DK655	--	--	--	99	--	MID - H2649	--	106	90	90	96
DKC57-38	--	96	--	--	--	SHORT - C4111	--	80	102	68	83
DKC63-22	--	--	--	99	--	SHORT - G8590	--	94	102	94	96
<hr/>						<hr/>					
FONTANELLE						MIDLAND					
5301	--	87	100	--	--	786	--	110	104	87	100
5786	--	--	74	101	--	798	--	104	89	109	101
5800	--	--	--	106	--	7A08	--	105	86	100	97
HC7734RR	--	78	--	--	--	XB15	--	105	130	103	112
MP-1155	--	105	--	106	--	<hr/>					
<hr/>						MIDWEST SEED					
FRONTIER						G 7711	--	92	--	--	--
F3175	--	--	--	98	--	G 7718Bt	--	104	--	--	--
<hr/>						G 8758Bt	--	--	--	109	--
GARST						G 8795	--	--	--	114	--
8341	--	--	--	89	--	<hr/>					
8363Bt	--	--	--	109	--	MYCOGEN					
<hr/>						2725	--	--	--	94	--
HAWKEYE						2767	--	98	109	--	--
SX65	--	102	--	--	--	2833	--	111	126	--	--
SX70	--	102	--	--	--	2888IMI	--	--	--	106	--
SX76	--	107	--	--	--	<hr/>					

(continued)

¹ STI = Stafford Co., St. John

THI = Thomas Co., Colby

GRI = Greeley Co., Tribune

FNI = Finney Co., Garden City

TABLE 22. WEST Kansas IRRIGATED corn hybrid yield summary (% of test average), 2000.

BRAND/NAME	STI ¹	THI	GRI	FNI	AVG.	BRAND/NAME	STI ¹	THI	GRI	FNI	AVG.
NC+						US SEEDS					
4880	--	--	--	105	--	US C1120	--	99	--	--	--
4990B	--	110	--	--	--	US C1129Bt	--	85	--	--	--
5445	--	--	--	100	--	US C1131ND	--	94	--	--	--
5588B	--	--	--	103	--	US C1139RR	--	88	--	--	--
5999	--	101	--	--	--	US C1151ND	--	92	--	--	--
NK						WILSON					
N65-A1	--	87	--	--	--	1475PT	--	--	86	--	--
N67-T4	--	100	--	96	--	1664	--	--	85	--	--
N7070BT	--	107	--	--	--	1762	--	--	--	94	--
N7590BT	--	--	--	105	--	1861Bt	--	--	--	102	--
N79-L3	--	--	--	105	--	2330	--	--	--	103	--
N83-Z8	--	--	--	108	--						
OTLILIE						AVERAGES (bu/a)					
5051 IMI	--	82	--	--	--	CV (%)	--	185	111	194	163
5177RRBt	--	72	105	88	88	LSD (0.05)**	--	10	15	8	--
5267Bt	--	105	116	97	106						
5333	--	99	100	104	101						
5666	--	106	--	100	--						
EO1115EXP	--	107	--	110	--						
PFISTER											
2750	--	109	--	--	--						
3350	--	110	--	90	--						
3977	--	108	--	114	--						
PIONEER											
31A13	--	107	--	117	--						
31G98	--	--	--	113	--						
32R42	--	113	74	109	99						
33B51	--	106	102	--	--						
33P67	--	100	--	102	--						
34R07	--	--	112	--	--						
PREMIUM											
P280	--	97	--	--	--						
TRIUMPH											
1141Bt	--	98	--	99	--						
1514Bt	--	--	--	105	--						
1866Bt	--	111	81	105	99						
4542Bt	--	--	89	--	--						

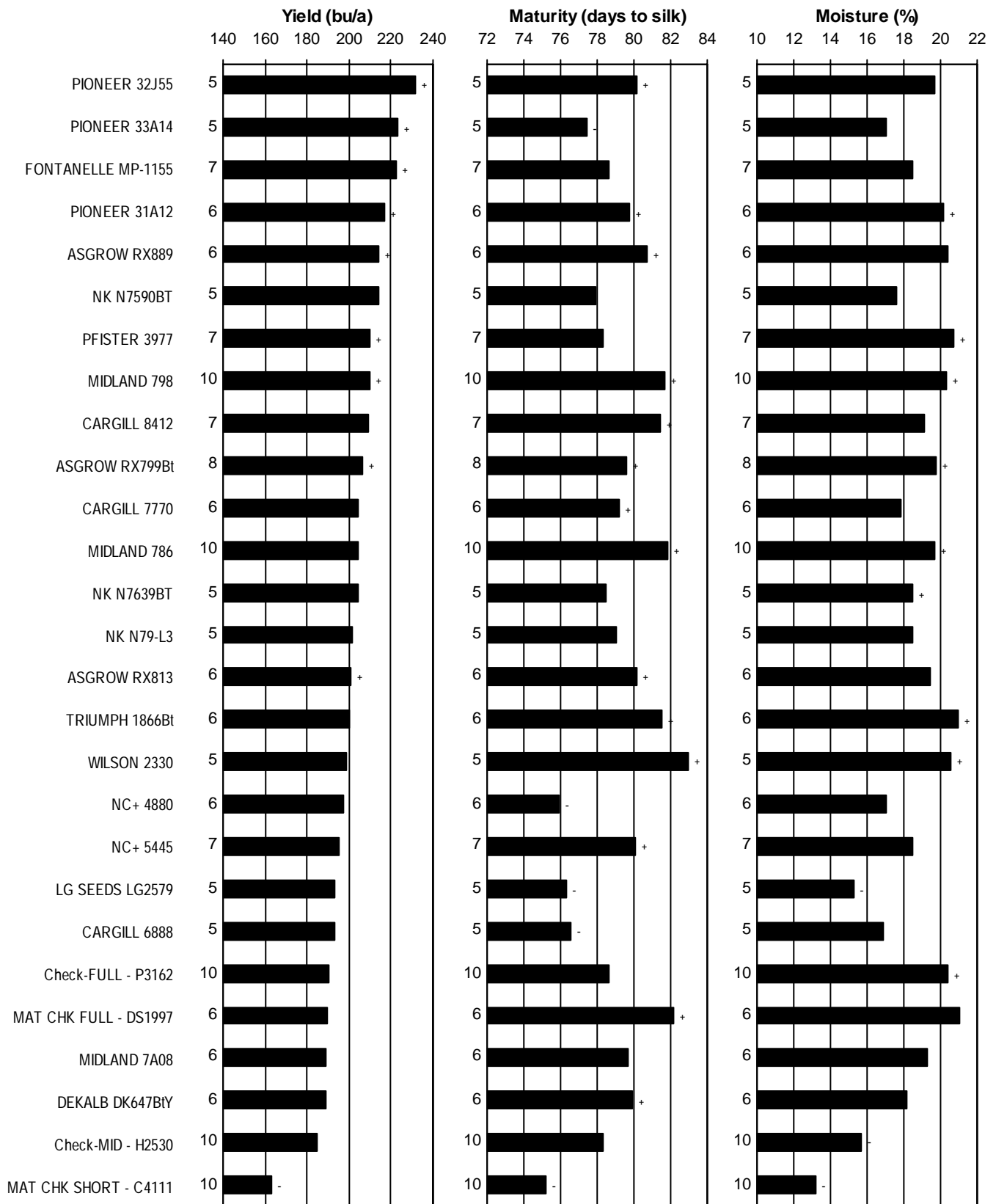
¹ STI = Stafford Co., St. John

THI = Thomas Co., Colby

GRI = Greeley Co., Tribune

FNI = Finney Co., Garden City

FIGURE 9. WEST Kansas IRRIGATED corn hybrid standardized performance summary, 1998-2000.



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

EAST CENTRAL KANSAS SHORT-SEASON CORN TEST

TARGET POPULATION: 22,000 plants/acre, 9.5 in. spacing

FINAL STAND (% of target): 107

SILK DATES: 6/27/00 - 7/7/00

YIELD: Avg. (bu/a): 94 **Range (bu/a):** 65 - 117

LSD (bu/a): 12 **CV (%):** 11

COUNTY: FRANKLIN

LOCATION: East Central Kansas Experiment Field, Ottawa

TEST SITE: Woodson silt loam

1999 CROP: Soybeans

1998 CROP: Corn

FERTILIZER (lbs/acre): 111 N 35 P₂O₅ 0 K₂O

PLANTING DATE: 4/12/00

HARVEST DATE: 8/28/00

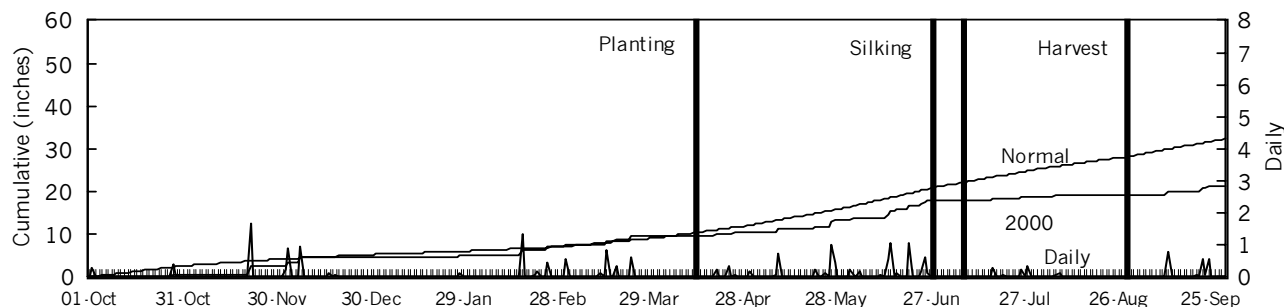
COOPERATORS: Keith Janssen, agronomist; Jim Kimball, technician

CORN BORERS: (sus. hybrid)	Infestation (% plants)		Tunnels (in./plant)	Sample date
	ECB	SWCB		
	--	--	--	--

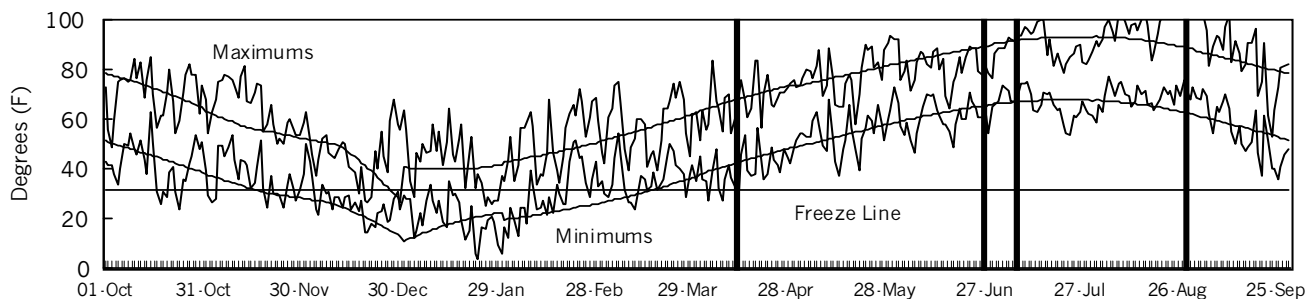
2000 GROWING CONDITIONS:

Dry conditions at planting caused some stand variability that appeared to carry through to harvest and affect yields. Cool temperatures slowed early growth. Adequate rainfall through late June provided for good vegetative growth. Dry conditions during the rest of the growing season limited yields and caused lodging in some hybrids. The plants eventually died from lack of moisture rather than normal maturation and dry-down. Insects and diseases caused no visible problems.

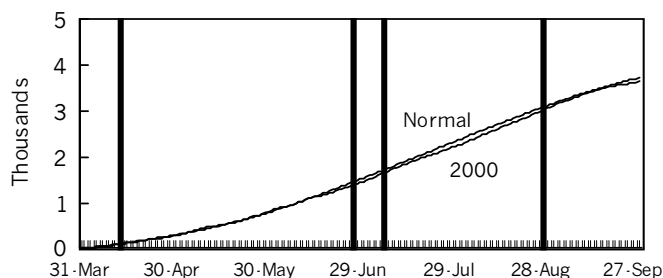
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	2000	Normal	2000	Normal	2000	Normal
April	0.8	3.0	54	56	266	295
May	2.9	4.1	67	66	517	477
June	4.5	5.1	71	75	632	744
July	1.1	4.0	78	80	795	858
August	0.2	3.1	84	79	858	777
Sept.	2.2	4.0	71	70	588	606
Season Totals	11.8	23.2	71	71	3655	3756

TABLE 23. Franklin Co. Short-Season Corn Performance Test, 1998-2000.

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			1999-2000		2000			Test Wt. lb/bu	
		2000	1999	1998	2-Yr.	3-Yr.	2000	1999	1998	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %		Ldg %
					AVG.	AVG.										
PIONEER	35P12	108	--	--	--	--	115	--	--	--	--	76	10	106	0	55
ASGROW	RX508	80	--	--	--	--	84	--	--	--	--	77	9	90	0	53
MIDLAND	XA10	79	--	--	--	--	83	--	--	--	--	77	9	111	1	53
NK	N4640BT	95	--	124	--	--	100	--	107	--	--	77	9	117	0	56
GOLDEN HARVEST	H-8250	87	--	--	--	--	92	--	--	--	--	78	9	118	0	56
MATURITY CHECK	SHORT - C4111	89	--	102	--	--	95	--	88	--	--	78	9	116	0	55
MIDLAND	XB11	86	--	--	--	--	92	--	--	--	--	78	9	111	0	53
CROPLAN GEN.	542 CL	95	--	--	--	--	100	--	--	--	--	78	10	110	0	57
NK	N58-D1	108	--	--	--	--	115	--	--	--	--	78	10	107	0	57
ASGROW	RX670	103	--	122	--	--	109	--	105	--	--	79	9	112	0	55
DEKALB	DK567	103	--	--	--	--	109	--	--	--	--	79	9	108	0	55
GOLDEN HARVEST	H-8562	91	--	--	--	--	97	--	--	--	--	79	9	106	0	55
US SEEDS	US C1059	65	--	--	--	--	69	--	--	--	--	79	9	103	2	54
CROPLAN GEN.	562 Bt/LL	101	--	--	--	--	107	--	--	--	--	79	10	109	0	56
GARST	8600IT	110	--	--	--	--	116	--	--	--	--	79	10	99	0	57
MATURITY CHECK	SHORT - G8590	93	--	--	--	--	99	--	--	--	--	79	10	87	1	56
DEKALB	DK551BtY	90	--	--	--	--	96	--	--	--	--	80	9	101	0	55
DEKALB	DKC57-38	78	--	--	--	--	82	--	--	--	--	80	9	108	0	56
HOEGEMEYER	2609	89	--	--	--	--	94	--	--	--	--	80	9	102	1	54
MATURITY CHECK	MID - H2530	91	--	120	--	--	97	--	103	--	--	80	9	107	0	55
GARST	8543Bt/IT	95	--	--	--	--	100	--	--	--	--	80	10	110	0	55
GARST	8590	98	--	--	--	--	104	--	--	--	--	80	10	101	0	56
HOEGEMEYER	2649	89	--	--	--	--	94	--	--	--	--	80	10	112	3	55
MATURITY CHECK	MID - H2649	102	--	--	--	--	108	--	--	--	--	80	10	115	0	55
MYCOGEN	2689	90	--	--	--	--	95	--	--	--	--	80	10	110	0	57
MYCOGEN	2799IMI	117	--	--	--	--	124	--	--	--	--	80	10	113	0	56
PIONEER	34K77	114	--	--	--	--	121	--	--	--	--	80	10	117	0	57
PIONEER	35N05	107	--	111	--	--	113	--	96	--	--	80	10	119	0	57
TRIUMPH	1141Bt	103	--	--	--	--	109	--	--	--	--	80	10	113	0	56
US SEEDS	US C1051ND	80	--	--	--	--	85	--	--	--	--	80	10	112	12	56
DELANGE	DS 1204	83	--	124	--	--	88	--	107	--	--	81	10	86	0	56
MATURITY CHECK	FULL - P3162	101	--	134	--	--	106	--	116	--	--	81	11	107	0	57
MATURITY CHECK	FULL - DS1997	98	--	--	--	--	104	--	--	--	--	86	12	89	0	56
	AVERAGES	94	--	116	--	--	94	--	116	--	--	79	10	107	1	55
	CV (%)	11	--	9	--	--	11	--	9	--	--	1	5	10	107	1
	LSD (0.05)**	12	--	12	--	--	13	--	11	--	--	1	1	13	1	1

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

SOUTHEASTERN KANSAS SHORT-SEASON CORN TEST

TARGET POPULATION: 22,000 plants/acre, 9.5 in. spacing

FINAL STAND (% of target): 122

SILK DATES: 6/20/00 - 6/29/00

YIELD: Avg. (bu/a): 169 **Range (bu/a):** 140 - 192

LSD (bu/a): 19 **CV (%):** 8

COUNTY: CRAWFORD

LOCATION: Four-State Farm Show, Pittsburg

TEST SITE: Parsons silt loam

1999 CROP: Soybean

1998 CROP: Corn

FERTILIZER (lbs/acre): 180 N 53 P₂O₅ 53 K₂O

PLANTING DATE: 4/7/00

HARVEST DATE: 8/29/00

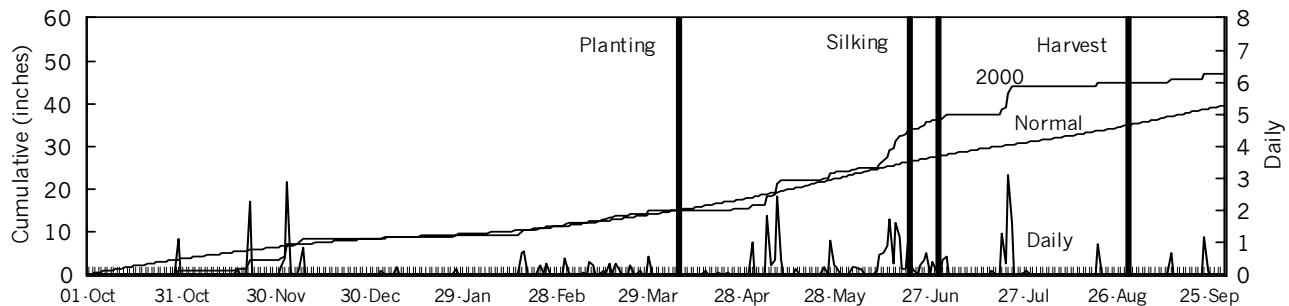
COOPERATORS: James Long, agronomist

CORN BORERS: (susc. hybrid)	Infestation (% plants)		Tunnels (in./plant)	Sample date
	ECB	SWCB		
	--	--	--	--

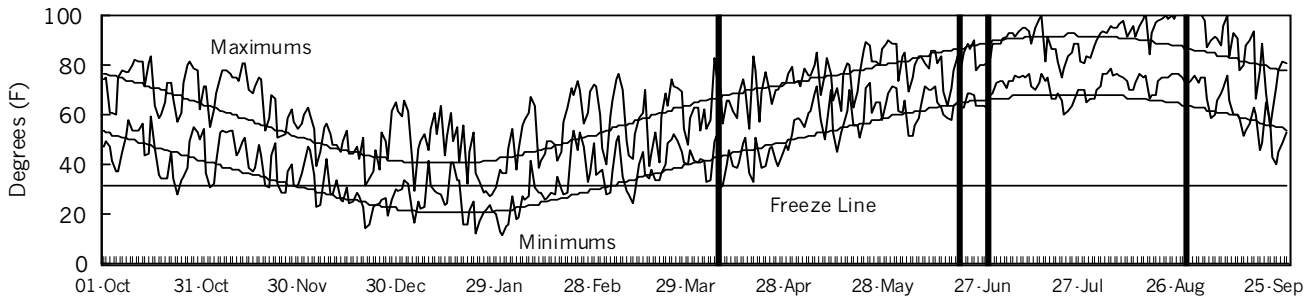
2000 GROWING CONDITONS:

Seedling establishment was relatively problem free. Dry, cool conditions soon after planting gave way to wet conditions until late July. By that time, most hybrids were nearing maturity, so the hot, dry August had a minimal impact on yields.

PRECIPITATION



DAILY TEMPERATURES



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	2000	Normal	2000	Normal	2000	Normal
April	0.3	3.8	55	57	266	300
May	8.8	4.8	69	66	589	476
June	12.1	4.9	72	74	665	744
July	7.9	3.5	80	80	859	861
August	1.0	3.7	85	78	923	788
Sept.	2.0	4.5	74	71	641	624
Season Totals	32.1	25.4	72	71	3942	3791

GROWING DEGREE DAYS

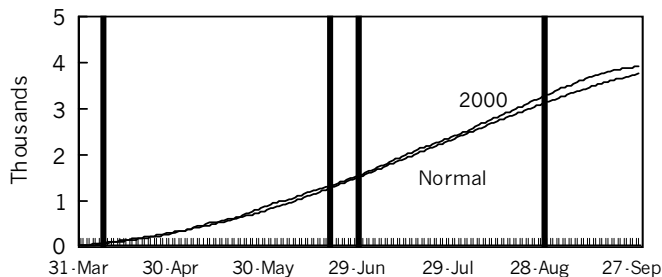


TABLE 24. Southeast Short-Season Corn Test, 1998-2000.

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			1999-2000		2000				
		2000	1999	1998	2-Yr.	3-Yr.	2000	1999	1998	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
					AVG.	AVG.										
DEKALB	DK537	161	--	--	--	--	95	--	--	--	--	74	12	122	--	56
NK	N4640BT	161	147	130	154	146	95	105	116	78	13	75	12	127	--	57
ASGROW	RX508	183	--	--	--	--	108	--	--	--	--	76	12	112	--	56
PIONEER	35P12	192	--	--	--	--	113	--	--	--	--	76	12	112	--	56
CROPLAN GEN.	542 CL	178	--	--	--	--	105	--	--	--	--	76	13	118	--	58
CROPLAN GEN.	562 Bt/LL	143	--	--	--	--	84	--	--	--	--	76	13	111	--	58
MIDLAND	XA10	148	--	--	--	--	87	--	--	--	--	77	12	125	--	57
GARST	8600IT	161	--	117	--	--	95	--	105	--	--	77	13	117	--	57
DEKALB	DK551BtY	185	164	--	175	--	109	117	--	80	13	78	12	129	--	56
GARST	8590	164	--	--	--	--	97	--	--	--	--	78	12	130	--	57
GOLDEN HARVEST	H-8250	157	--	--	--	--	93	--	--	--	--	78	12	127	--	58
MATURITY CHECK	SHORT - G8590	157	--	--	--	--	93	--	--	--	--	78	12	122	--	57
ASGROW	RX670	184	--	115	--	--	109	--	103	--	--	78	13	127	--	56
DEKALB	DKC57-38	179	--	--	--	--	106	--	--	--	--	78	13	138	--	58
GARST	8543Bt/IT	182	140	--	161	--	107	99	--	80	15	78	13	120	--	56
MATURITY CHECK	SHORT - C4111	140	122	92	131	118	83	87	83	80	14	78	13	113	--	57
MIDLAND	XB11	170	--	--	--	--	100	--	--	--	--	78	13	126	--	55
MYCOGEN	2799IMI	190	--	--	--	--	112	--	--	--	--	78	13	134	--	56
PIONEER	34K77	185	147	--	166	--	110	105	--	80	16	78	13	130	--	58
GOLDEN HARVEST	H-8562	146	--	--	--	--	86	--	--	--	--	79	12	124	--	55
NK	N58-D1	180	153	--	166	--	106	109	--	80	14	79	12	145	--	58
PIONEER	35N05	167	159	134	163	153	98	113	120	81	14	79	12	125	--	58
DEKALB	DK567	152	137	--	145	--	90	98	--	81	14	79	13	111	--	56
MATURITY CHECK	FULL - P3162	180	144	138	162	154	106	102	123	82	17	79	13	119	--	59
MYCOGEN	2689	185	--	--	--	--	109	--	--	--	--	79	13	124	--	56
DELANGE	DS 1204	164	124	109	144	132	97	89	97	82	14	80	12	118	--	56
HOEGEMEYER	2649	155	--	--	--	--	92	--	--	--	--	80	13	113	--	57
MATURITY CHECK	MID - H2530	179	136	115	157	143	106	97	103	82	14	80	13	120	--	56
MATURITY CHECK	MID - H2649	157	--	--	--	--	93	--	--	--	--	80	13	118	--	57
TRIUMPH	1141Bt	181	--	--	--	--	107	--	--	--	--	80	14	117	--	57
MATURITY CHECK	FULL - DS1997	169	--	--	--	--	100	--	--	--	--	83	13	105	--	56
	AVERAGES	169	141	112	155	141	169	141	112	80	15	78	13	122	--	57
	CV (%)	8	7	9	--	--	8	7	9	--	--	1	2	10	--	1
	LSD (0.05)**	19	12	12	--	--	11	9	11	--	--	1	0	NS	--	1

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

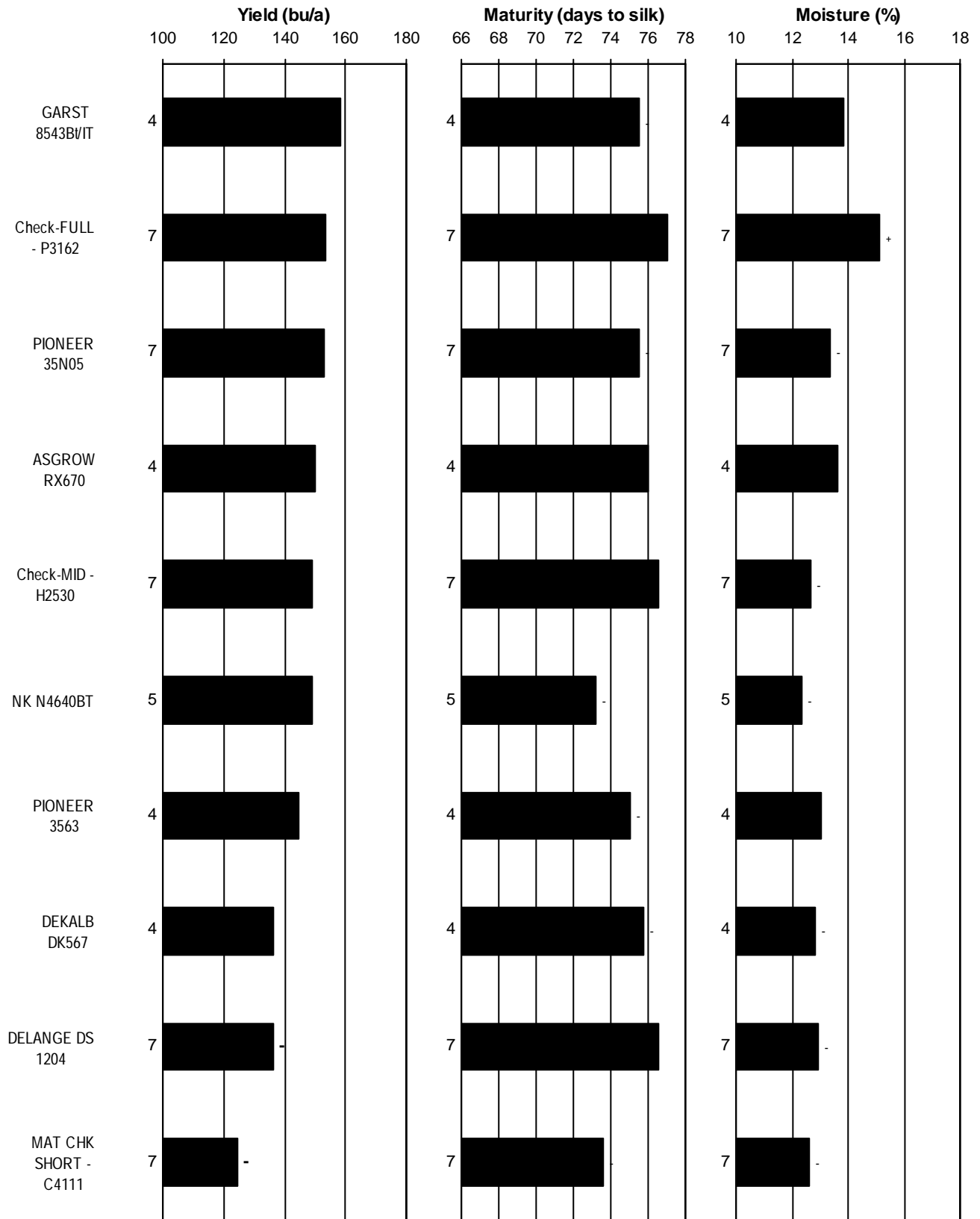
TABLE 25. SHORT-SEASON corn hybrid yield summary (% of test average), 2000.

BRAND/NAME	FRD ¹	CRD	STI	AVG.	BRAND/NAME	FRD ¹	CRD	STI	AVG.
ASGROW					MIDLAND				
RX508	84	108	--	96	XA10	83	87	--	85
RX670	109	109	--	109	XB11	92	100	--	96
CROPLAN GEN.					MYCOGEN				
542 CL	100	105	--	103	2689	95	109	--	102
562 Bt/LL	107	84	--	95	2799IMI	124	112	--	118
DEKALB					NK				
DK537	--	95	--	--	N4640BT	100	95	--	98
DK551BtY	96	109	--	103	N58-D1	115	106	--	110
DK567	109	90	--	99	PIONEER				
DKC57-38	82	106	--	94	34K77	121	110	--	115
DELANGE					35N05	113	98	--	106
DS 1204	88	97	--	92	35P12	115	113	--	114
GARST					TRIUMPH				
8543Bt/IT	100	107	--	104	1141Bt	109	107	--	108
8590	104	97	--	100	US SEEDS				
8600IT	116	95	--	106	US C1051ND	85	--	--	--
GOLDEN HARVEST					US C1059	69	--	--	--
H-8250	92	93	--	92	AVERAGES (bu/a)				
H-8562	97	86	--	92	CV (%)	11	8	--	--
HOEGEMEYER					LSD (0.05)**	13	11	--	--
2609	94	--	--	--					
2649	94	92	--	93					
MATURITY CHECK									
FULL - DS1997	104	100	--	102					
FULL - P3162	106	106	--	106					
MID - H2530	97	106	--	101					
MID - H2649	108	93	--	100					
SHORT - C4111	95	83	--	89					
SHORT - G8590	99	93	--	96					

¹ FRD = Franklin Co., Ottawa

CRD = Crawford Co., Pittsburg STI = Stafford Co. Irrigated, St. John

FIGURE 10. Kansas SHORT-SEASON corn hybrid standardized performance summary, 1998-2000.



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

APPENDIX 1: Entrants in the 2000 Kansas Corn Performance Tests - Sales Contacts

AgSource

Dan Eklund
AgSource Seeds Inc
1717 East 8th St
Boone, IA 50036
(515) 432-8100

Fontanelle

Steven P. Pike
Fontanelle Hybrids
10981 8th St
Fontanelle, NE 68044-2505
402-721-1410

Hoegemeyer

Don Moeller
Hoegemeyer Hybrids
1755 Hoegemeyer Rd
Hooper, NE 68031-2125
402-654-3399

Asgrow

Monsanto Seed
3100 Sycamore Rd
DeKalb, IL 60115
800-833-5252

Freedom

John Sledge
Freedom Seed Co
#1 Seed Corn Road
Astoria, IL 61501
800-262-4480

HPH

Jim Kramer
Kramer Seed Farms
1114 S Monroe
Hugoton, KS 67951-2934
800-848-1988

Cargill

Dan Froehlich
Cargill Hybrid Seeds
PO Box 5645
Minneapolis, MN 55440
612-984-8040

Frontier

Dan Ryan
Frontier Hybrids
PO Box 177
1612 Ave H
Abernathy, TX 79311
806-298-2595

Kaystar

Kaystar Seed
40329 US Hwy 14E
PO Box 947
Huron, SD 57350
605-352-8791

CroPlan Genetics

Barry Bridgers
Land O' Lakes/Croplan Genetics
6555 Quince Rd Suite 202
Memphis, TN 38119
901-758-3439

Garst

Garst Seed Co
2369 330th St
PO Box 500
Slater, IA 50244
800-831-6630

Lewis

Jerry F. Lewis
Lewis Hybrids Inc
PO Box 38
W Maple St
Ursa, IL 62376
800-252-7851

DeKalb

Monsanto Seed
3100 Sycamore Rd
DeKalb, IL 60115
800-833-5252

Golden Harvest

Bill Green
JC Robinson Seed Co
100 JC Robinson Blvd
PO Box A
Waterloo, NE 68069
800-228-9906

LG Seeds

LG Seeds
1620 Hwy 10
Gibbon, NE 68840
877-505-7313

DeLange

Steve Ahring
DeLange Seed
PO Box 7
Girard, KS 66743-0007
316-724-6223

Hawkeye

Arlen Eggerling
Hawkeye Hybrids Inc
2165 Idaho Drive
Pella, IA 50219
515-628-3827

Midland

Ron Sylvester
Midland Genetics Group
1906 Kingman Rd
Ottawa, KS 66067
800-819-SEED

(continued)

APPENDIX 1: Entrants in the 2000 Kansas Corn Performance Tests - Sales Contacts

Midwest Seed

Midwest Seed Genetics
PO Box 518
Carroll, IA 51401
800-369-8218

Mycogen

Kelly Montgomery
Mycogen Seeds
1340 Corp Ctr Crv
PO Box 21428
Eagan, MN 55121-1233
800-380-7282

NC+

Wes Zart
NC+ Hybrids
PO Box 4408
1300 N 79th
Lincoln, NE 68504
402-467-2517

NK

Marcus Schwartz
Novartis Seeds Inc
1060 Wheatland Dr
Buhler, KS 67522
316-543-2707

Ottilie

Jim Ottilie
Ottilie RO Seed
1462 Sanford Ave
Marshalltown, IA 50158
515-753-5561

Pfister

Pfister Hybrid Corn Co
PO Box 187
El Paso, IL 61738
309-527-6000

Pioneer

Brad Lance
Pioneer Hi-Bred Intl Inc
1616 S Kentucky St
Suite C-150
Amarillo, TX 79102
806-356-0160

Premium Seed

Betty M. Shaw
Premium Seed Inc
PO Box 218
Berwick, IL 61417
309-462-2396

PSA

Mitch Quirin
PSA Genetics/Garst
661 510th St
Alta, IA 51002
712-296-3663

Seeds 2000

Kevin Wall
Seeds 2000
Box 200
Breckenridge, MN 56520
218-643-2410

Taylor

Brad Taylor
Taylor Seed Farms Inc
2467 Hwy 7
White Cloud, KS 66094
785-595-3236

Triumph

Ben Benton
Triumph Seed Co Inc
PO Box 1050
Ralls, TX 79357
800-530-4789

US Seeds

Harold Davis
United Suppliers Inc
30473 260th St
PO Box 538
Eldora, IA 50627-0538
515-858-2341

Wilson

Jerry F. Strissel
Wilson Genetics LLC
PO Box 391
Harlan, IA 51537
712-755-3841

APPENDIX 2: Entries in the 2000 Kansas Corn Performance Tests

AGRIPRO						DELANGE					
GDD	DBL	GRN	RES	P	F*	GDD	DBL	GRN	RES	P	F*
9559Bt	2510	110	--	Bt	N Y	DS 1204	2500	104	Wax	--	Y Y
9570Bt	2530	111	--	Bt	N Y	DS 1885	2500	105	Wax	--	Y Y
9660Bt	2560	113	--	Bt	N Y	DS 1995	2700	114	Wax	--	Y Y
9689Bt	2610	114	--	Bt	N Y						
AGSOURCE						FONTANELLE					
GDD	DBL	GRN	RES	P	F*	GDD	DBL	GRN	RES	P	F*
5970	2680	109	--	--	N Y	5301	--	--	--	--	N Y
5983Bt	2720	111	FG	Bt	N Y	5800	--	--	--	--	N Y
6412	2750	112	FG	--	N N	HC7734RR	--	--	--	RR	N Y
6887	2750	112	--	--	N Y	5786	--	115	FG	--	N Y
6787	2800	113	--	--	N Y	MP-1155	--	115	--	--	N Y
7890	2885	118	FG	--	N Y						
ASGROW						FREEDOM					
GDD	DBL	GRN	RES	P	F*	GDD	DBL	GRN	RES	P	F*
RX508	--	--	--	--	--	5662	--	--	--	--	--
RX670	2570	105	--	--	Y Y	5503	2520	107	FG	--	N Y
RX730YG	2550	111	--	Bt	N Y	5555	--	115	--	--	--
RX740	2560	111	--	--	N Y						
RX799Bt	2650	114	--	Bt	N Y	FRONTIER					
RX813	2650	114	FG	--	N Y	GDD	DBL	GRN	RES	P	F*
RX889	2650	117	--	--	Y Y	F3175	2880	116	FG	--	N Y
RX897	2585	118	--	--	N Y						
CARGILL						GARST					
GDD	DBL	GRN	RES	P	F*	GDD	DBL	GRN	RES	P	F*
6912	2580	112	--	--	Y Y	8600IT	2510	105	--	IT	N Y
7770	2630	114	--	--	Y Y	8590	2560	106	--	--	N Y
8112	2730	116	--	--	Y Y	8543Bt/IT	2570	109	--	Bt,IT	N Y
						8539BLT	2555	110	--	Bt,LL,IT	N Y
						8559Bt/RR	2570	110	--	Bt/RR	N Y
						8366Bt/LL	2580	113	--	Bt,LL	N Y
						8342GLS/Bt/IT	2610	114	--	GLS,Bt,IT	N Y
						8363Bt	2610	114	--	Bt	N Y
						8341	2630	115	--	--	N Y
						8273IT	2640	116	--	IT	N Y
CROPLAN GEN.						GOLDEN HARVEST					
GDD	DBL	GRN	RES	P	F*	GDD	DBL	GRN	RES	P	F*
542 CL	2550	105	--	CL	-- Y	H-8250	2585	105	FG	--	N N
562 Bt/LL	2590	105	--	Bt,LL	-- N	H-8562	2600	105	--	--	N Y
592 CL	2680	109	--	CL	-- Y	H-9177Bt	2550	113	--	Bt	N Y
666 Bt/RR	2710	109	--	Bt,RR	-- Y	H-9533Bt	2800	116	--	Bt	N Y
661	2720	109	--	--	-- Y						
676 RR	2740	112	--	RR	-- Y						
762 Bt/CL	2780	114	--	Bt,CL	-- Y						
818	2830	116	--	--	-- Y						
DEKALB						HAWKEYE					
GDD	DBL	GRN	RES	P	F*	GDD	DBL	GRN	RES	P	F*
DK537	--	--	--	--	--	SX51	--	111	--	--	Y Y
DKC57-38	--	--	--	--	--	SX65	--	111	--	--	N Y
DKC63-22	--	--	--	--	--	SX70	--	111	--	--	N Y
DK551BtY	2645	105	--	Bt	Y Y	SX76	2605	112	--	--	N Y
DK567	2650	106	--	--	Y Y	9191	2630	113	--	--	N Y
DK579	2730	107	--	--	Y Y						
DK595BtY	2720	109	--	Bt	Y Y						
DK611	2780	111	--	--	Y Y						
DK647BtY	2800	114	--	Bt	Y Y						
DK655	2800	115	--	--	Y Y						
DK668	2870	116	--	--	Y Y						
DK679	2885	117	--	--	Y Y						

*GDD = growing degree days; DBL = days to black layer; GRN = grain characteristics (FG = food grade, Wax = waxy); RES = herbicide, disease, and insect resistance traits (Bt = transgenic corn borer protection, IMI, IT = imidazolinone resistant/tolerant, ECB = European corn borer resistance, LL = Liberty Link, RR = Roundup Ready, GLS = gray leaf spot); P = prolific; F = flex ear; values provided by entrants.

(continued)

APPENDIX 2: Entries in the 2000 Kansas Corn Performance Tests

HOEGEMEYER						MIDLAND					
	GDD	DBL	GRN	RES	P F*		GDD	DBL	GRN	RES	P F*
2609	2470	107	--	--	N Y	795	--	--	--	--	Y Y
2649	2560	110	--	--	N Y	7A08	--	--	--	--	Y Y
2668	2560	113	--	--	N Y	7A18	--	--	--	--	Y Y
2666	2610	113	--	--	N Y	7B04 Bt	--	--	--	Bt	Y Y
2718	2680	115	--	--	N Y	7E04	--	--	--	--	Y Y
HBt821	2680	116	--	Bt	N Y	XA10	--	98	--	--	Y Y
2728	2700	117	--	--	N Y	XB11	--	101	--	--	Y Y
						785	--	110	--	--	Y Y
HPH						MIDLAND					
	GDD	DBL	GRN	RES	P F*		GDD	DBL	GRN	RES	P F*
KS 5130	--	113	--	--	-- Y	G 7707RR	--	110	--	RR	N Y
KS 2150	--	115	--	--	-- Y	785RR	2760	110	--	RR	Y Y
						G 7718Bt	--	111	--	Bt	N Y
						G 7711	2540	111	--	--	N Y
KAYSTAR						MIDLAND					
	GDD	DBL	GRN	RES	P F*		GDD	DBL	GRN	RES	P F*
KX - 898	--	114	--	--	N Y	XA15	--	113	--	--	Y Y
KX - 890 Bt	--	115	--	Bt	N Y	XA17	--	113	--	--	Y Y
KX - 911	--	115	--	--	N Y	XB15	--	113	--	--	Y Y
KX - 920	--	117	--	--	N Y	G 8758Bt	--	115	--	Bt	N Y
						G 8795	--	115	--	--	N Y
						786	2820	115	--	--	Y Y
LEWIS						MIDLAND					
	GDD	DBL	GRN	RES	P F*		GDD	DBL	GRN	RES	P F*
4740	--	--	--	--	-- --	798	2820	115	--	--	Y Y
5450	--	--	--	--	-- --	798 Bt	2820	115	--	Bt	Y Y
5830	--	--	--	--	-- --	798 IMI	2820	115	--	IMI	Y Y
6420	--	--	--	--	-- --	MYCOGEN					
						2689	2670	109	--	--	N Y
LG SEEDS						MIDLAND					
	GDD	DBL	GRN	RES	P F*		GDD	DBL	GRN	RES	P F*
C7847	2490	106	--	--	N Y	2725	2700	111	--	--	N Y
LG2569	2500	108	--	--	N N	2767	2725	112	--	--	N Y
LG2584BT	2515	109	--	Bt	N Y	2799IMI	2740	114	--	IMI	N Y
LG2579	2520	109	--	--	N Y	2833	2745	115	--	--	N Y
LG2651	2550	114	--	--	N Y	2815	2780	115	--	--	N Y
C7640BT	2575	115	--	Bt	N Y	2888IMI	2860	118	--	IMI	N Y
LG2696	2600	117	--	--	N Y	NC+					
LG2726	2635	118	FG	--	N Y	3709	2450	107	--	--	Y Y
						4649B	2425	111	--	Bt	- Y
MATURITY CHECK						MIDLAND					
	GDD	DBL	GRN	RES	P F*		GDD	DBL	GRN	RES	P F*
SHORT - C4111	2280	102	--	--	-- Y	4616	2425	112	--	--	Y Y
SHORT - G8590	2560	106	--	--	-- Y	4880	2430	112	--	--	N Y
MID - H2530	--	110	--	--	-- --	4990B	2430	112	--	Bt	- Y
MID - H2649	2560	110	--	--	N Y	5018	2440	112	--	--	Y Y
FULL - DS1997	2720	114	Wax	--	Y Y	5169	2480	112	--	--	Y Y
FULL - P3162	2760	118	FG	--	N Y	5445	2515	114	--	--	Y Y
						5588B	2560	115	--	Bt	Y Y
						5999	2520	116	--	--	Y Y
						6359	2575	117	--	--	- N

*GDD = growing degree days; DBL = days to black layer; GRN = grain characteristics (FG = food grade, Wax = waxy); RES = herbicide, disease, and insect resistance traits (Bt = transgenic corn borer protection, IMI, IT = imidazolinone resistant/tolerant, ECB = European corn borer resistance, LL = Liberty Link, RR = Roundup Ready, GLS = gray leaf spot); P = prolific; F = flex ear; values provided by entrants.

(continued)

APPENDIX 2: Entries in the 2000 Kansas Corn Performance Tests

NK	GDD	DBL	GRN	RES	P	F*	SEEDS 2000	GDD	DBL	GRN	RES	P	F*
N58-D1	2600	--	--	Bt,LL	N	Y	3104RR	--	104	--	RR	N	Y
N67-T4	2630	--	--	Bt,LL	N	Y	X3161Bt	--	106	--	Bt	N	Y
N83-Z8	2880	--	--	Bt,LL	N	Y	X3191RR	--	109	--	RR	N	Y
N4640BT	2530	104	--	Bt,LL	N	N							
N59-Q9	2680	109	--	--	N	Y	TAYLOR	GDD	DBL	GRN	RES	P	F*
N65-A1	2690	111	--	Bt,LL	N	N	877Bt	--	--	--	Bt	Y	Y
N7070BT	2760	114	--	Bt,LL	N	Y	EXP7550	--	--	--	--	Y	Y
N7590BT	2810	115	--	Bt,LL	N	N							
N79-L3	2830	118	FG	Bt,LL	N	Y	TRIUMPH	GDD	DBL	GRN	RES	P	F*
							4542Bt	2330	104	--	Bt	N	Y
OTILIE	GDD	DBL	GRN	RES	P	F*	1141Bt	2470	110	--	Bt	N	Y
4911	2480	109	YD	--	Y	Y	1514Bt	2550	114	--	Bt	N	Y
5051 IMI	2490	110	YD	IMI	Y	Y	1866Bt	2610	117	--	Bt	N	Y
5177RRBt	2580	111	YD	RR,Bt	Y	Y	2010RR	2650	118	--	RR	N	Y
5267Bt	2510	112	YD	Bt	Y	Y							
5333	2590	113	YD	--	Y	Y	US SEEDS	GDD	DBL	GRN	RES	P	F*
EO1115EXP	2600	114	YD	--	Y	Y	US C1059	2500	105	--	--	N	Y
5666	2590	116	YD	--	Y	Y	US C1051ND	2575	105	ND	--	N	Y
							US C1119RR	2560	111	--	RR	N	Y
PFISTER	GDD	DBL	GRN	RES	P	F*	US C1120	2570	112	--	--	N	Y
2750	2700	112	--	--	--	Y	US C1129Bt	2580	112	--	Bt	N	Y
3350	2750	114	FG	--	--	Y	US C1131ND	2600	113	ND	--	N	Y
3977	2800	115	--	--	--	Y	US C1139RR	2600	113	--	RR	N	Y
							US C1159	2680	115	--	--	N	Y
PIONEER	GDD	DBL	GRN	RES	P	F*	US C1151ND	2700	115	ND	--	N	Y
35P12	2530	105	--	--	Y	Y							
35N05	2580	107	--	Bt	Y	Y	WILSON	GDD	DBL	GRN	RES	P	F*
34W67	2600	108	--	--	Y	Y	1475PT	2645	108	--	IMI	Y	Y
34R07	2630	109	--	Bt	Y	Y	1664	2775	111	--	--	N	Y
33B51	2660	110	FG	Bt	Y	Y	1762	2702	114	--	--	N	Y
34K77	2660	110	FG	--	Y	Y	1861Bt	2825	116	--	Bt	N	Y
33V08	2680	111	--	Bt	Y	Y	2330	2975	120	--	--	N	Y
33H68	2710	112	FG	Bt	Y	Y							
33P67	2740	113	FG	Bt	Y	Y							
3237	2760	114	--	--	Y	Y							
32R42	2790	115	--	--	Y	Y							
33G27	2810	116	--	Bt	Y	Y							
31A13	2840	117	--	Bt	Y	Y							
31B13	2840	117	--	Bt	Y	Y							
31G98	2870	118	--	--	Y	Y							
PREMIUM	GDD	DBL	GRN	RES	P	F*							
P230	2500	110	--	--	N	S							
P280	2700	114	--	--	N	S							
PSA	GDD	DBL	GRN	RES	P	F*							
7727	2510	112	--	--	N	Y							
4700Bt	2530	114	--	Bt	N	Y							
7855	2550	115	--	--	N	Y							
7864	2570	116	--	--	N	Y							

*GDD = growing degree days; DBL = days to black layer; GRN = grain characteristics (FG = food grade, Wax = waxy); RES = herbicide, disease, and insect resistance traits (Bt = transgenic corn borer protection, IMI, IT = imidazolinone resistant/tolerant, ECB = European corn borer resistance, LL = Liberty Link, RR = Roundup Ready, GLS = gray leaf spot); P = prolific; F = flex ear; values provided by entrants.

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