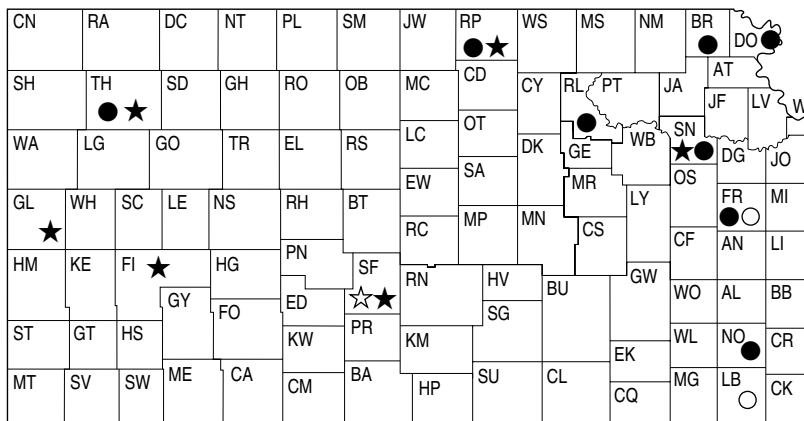




1997

KANSAS PERFORMANCE TESTS WITH CORN HYBRIDS



● standard dryland ★ standard irrigated
 ○ short-season dryland ☆ short-season irrigated

Report of Progress 796

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1997 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.

In 1992, several short-season corn performance tests were added. Procedures for these tests were similar to those for 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 1997 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 1997 and normal. All graphs include vertical lines indicating planting, silking, and harvest dates, if available. General trends in precipitation and rainfall 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. Comparisons of the current year's weather with long-time averages often help explain unusual plant development patterns and inconsistent performance of individual hybrids over years.

Explanatory information is given preceding data summaries for each test. Tables 1-20 contain results from the standard corn 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 5, 8, 12, 15, 20, 24) present yield as a percent of the average for each location and summarize hybrid performance over the past few years in that region. Tables 21-24 contain results from the short-season tests. The 1997 entrants and entries are listed in the Appendixes.

Most corn tests were planted at a rate 10% to 20% above the desired population and only minimally thinned. Planting to stand enables evaluation of product performance for the entire growing season. The performance of the marketed product includes stand establishment as well as genetic yield potential.

Tractor-powered, modified, White air-planters were used for nearly all tests. Except for the Finney County test where space was limited, 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 45 feet at the different locations. Tests were harvested with Gleaner-E 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 are 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 50F was considered to be 50, and any temperature over 86F 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 may 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.

1997 STATEWIDE GROWING CONDITIONS

Topsoil moisture was adequate for corn growth for most of the growing season in most areas. Short periods of inadequate topsoil moisture were separated by longer periods with adequate or surplus moisture (Figure 1). Some regions within the state experienced worse moisture stress than others. Nonirrigated fields in north central Kansas experienced severe moisture stress, but southeastern Kansas had one of the best seasons on record because of favorable moisture distribution.

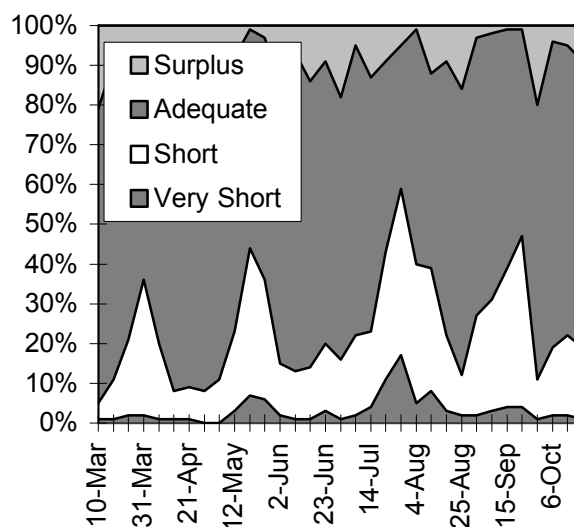


Figure 1. Statewide topsoil moisture status.

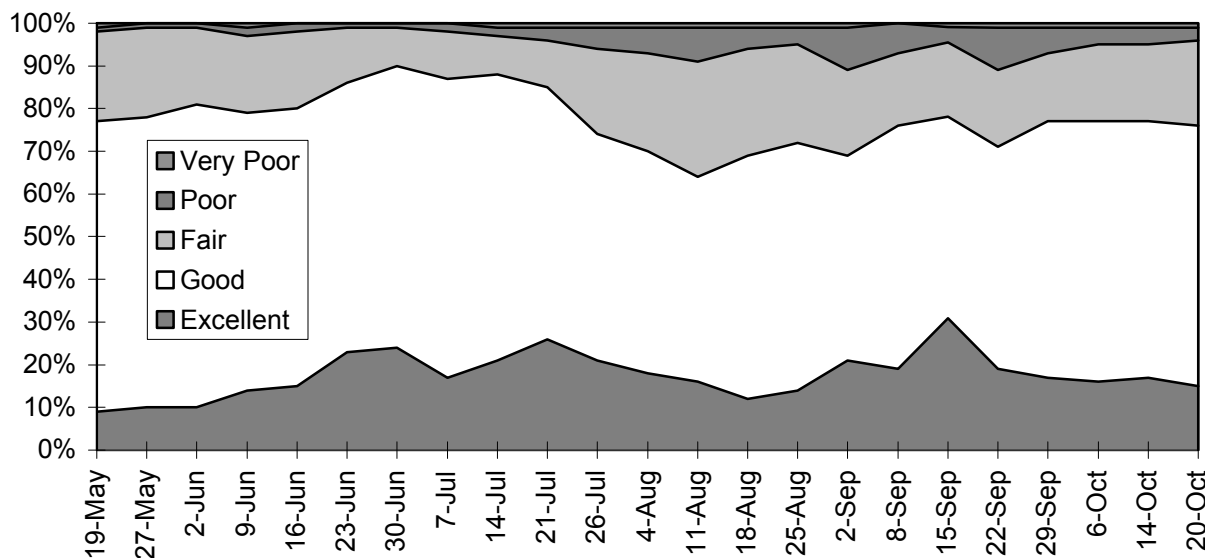


Figure 2. 1997 Kansas corn crop condition.

Most of the corn crop started in good or excellent condition and maintained those ratings for the remainder of the season. Over 70% of the crop rated good or excellent for most of the growing season (Figure 2). At one point in late June, 90% of the crop was included in those two categories. Regional variability in the condition of the corn crop perhaps was greater in 1997 than in 1996, when fewer areas had corn in poor or very poor condition.

Development of the 1997 corn crop lagged behind that of 1996 until later in the season, when harvest was several days earlier than in 1996 and the average (Figure 3). Planting started slowly because of cool temperatures, but the last half of the crop was planted very quickly, so planting finished ahead of average. Silking and denting both started close to average but finished ahead of average. (From Crop-Weather reports, Kansas Agricultural Statistics, Topeka)

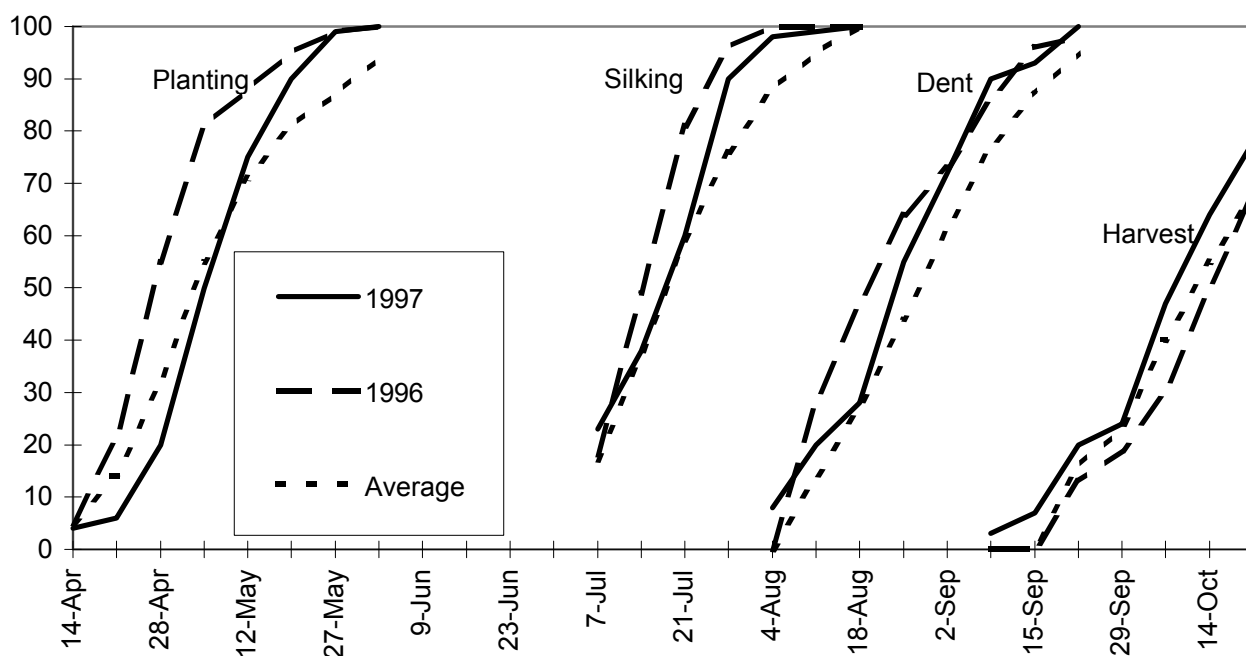


Figure 3. 1997 Kansas corn crop progress.

Insect pests caused typical damage to the corn crop in 1997. Cold temperatures in April slowed early insect activity. Flea beetles damaged some seedling corn in southeastern and south central fields in May. Additional seedling corn fields in that part of the state experienced chinch bug damage in late May and June. Some corn in northeast Kansas suffered from spider mite and southern corn leaf beetle damage in late June and July. Predators had reduced spider mite and two-spotted spider mite populations to nondamaging levels by late July. European and southwestern corn borers were active from June through August. Western bean cutworms were found in northwestern Kansas in late July but caused little widespread damage. (From Cooperative Economic Insect Survey, Kansas Board of Ag.)

No widespread disease epidemics occurred in the 1997 corn crop; however, areas of the state had above-normal levels of some diseases. Cool, wet weather in May caused crown decay problems in some fields in eastern Kansas. Incidence of this problem was less than in 1996. Gray leaf spot continued to expand into new areas of the state, being found further southeast and northwest than in previous years. Gray leaf spot of corn was reported in Stanton County in extreme western Kansas, so the range of the disease in the state now extends from the Missouri border on the east to the western border with Colorado. This disease increased to alarming levels primarily in south central Kansas during mid July. A Crisis Exemption extending the application period for the fungicide Tilt for control of the disease was granted by the Kansas Department of Agriculture in Pawnee, Stafford, Kiowa, Edwards, Pratt, Ford, and Gray counties in south central and southwestern Kansas and Brown, Doniphan, and Wabaunsee counties in northeast Kansas. Overall, fewer fields reached economic damage levels requiring fungicide application than in 1996. In southwest Kansas, the incidence and severity of northern corn leaf blight was very high in some fields and required fungicide application in some instances.

Stewart's wilt in the leaf blight stage was common again in 1997. Levels were well below the standard of 25% leaf severity for systemic

infection of the plants. Stalk rot levels were above average in many areas of the state. Stalk rots observed include Fusarium, Diplodia, charcoal rot and anthracnose. Ear mold reports were well below 1996 levels. Drier weather at pollination and following physiological maturity reduced the levels of infection and growth opportunities for many ear rotting fungi. (From Doug Jardine, Extension Plant Pathologist, Kansas State University Department of Plant Pathology.)

The October 10 Crops Report predicted a record 364.5 million bushel crop, up 2% from last year's record crop. This production is from 2.7 million harvested acres, up 15% from last year. The predicted average yield of 135 bushels per acre is 17 bushels below that in 1996. (From Kansas Agricultural Statistics.)

ACKNOWLEDGMENTS

Cooperation of Research Center and Experiment Field personnel who furnished land and performed many or all of the field operations is sincerely appreciated. Technicians Edward O. Quigley and James R. Cochrane packaged seed and performed field operations for some of the tests. Student worker Ty Barton helped with seed counting, sign painting, and plot maintenance. Mary Knapp of the Weather Data Library provided much of the climatological information.

NORTHEASTERN KANSAS STANDARD CORN TEST ON SILT LOAM SOIL

COUNTY: DONIPHAN

LOCATION: Private farm 1 mile north of Severance

TEST SITE: Manona silt loam

1996 CROP: Soybeans

1995 CROP: Corn

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

PLANTING DATE: 4/28/97

HARVEST DATE: 10/1/97

COOPERATORS:

Fuhrman Farms, Inc.

TARGET POPULATION: 25,000 plants/acre,

8.4 in. spacing

STAND (% of target): 114

YIELD: Average (bu/a): 178

Range (bu/a): 137 - 200

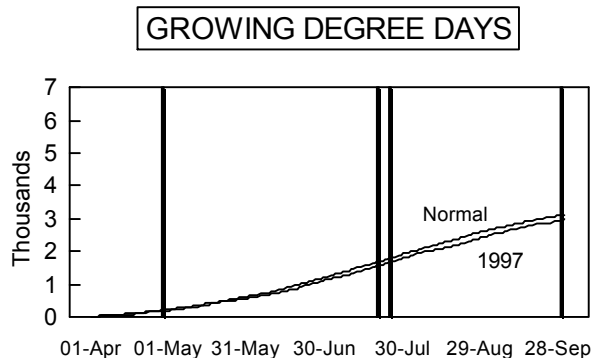
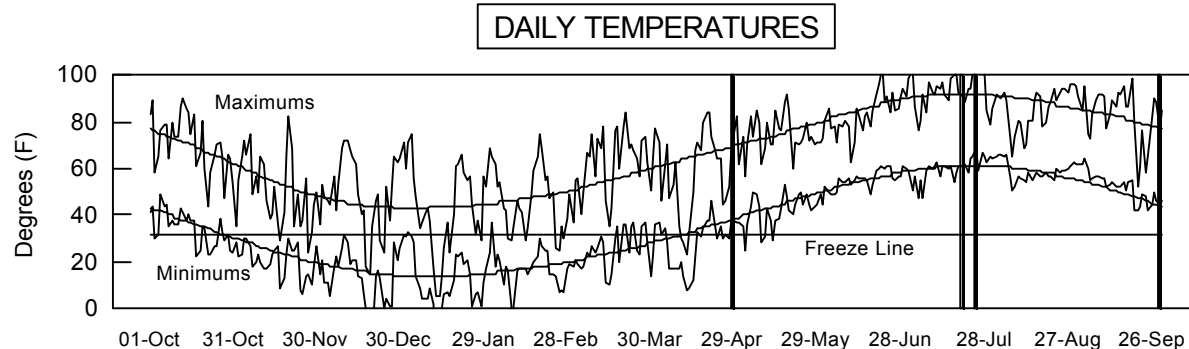
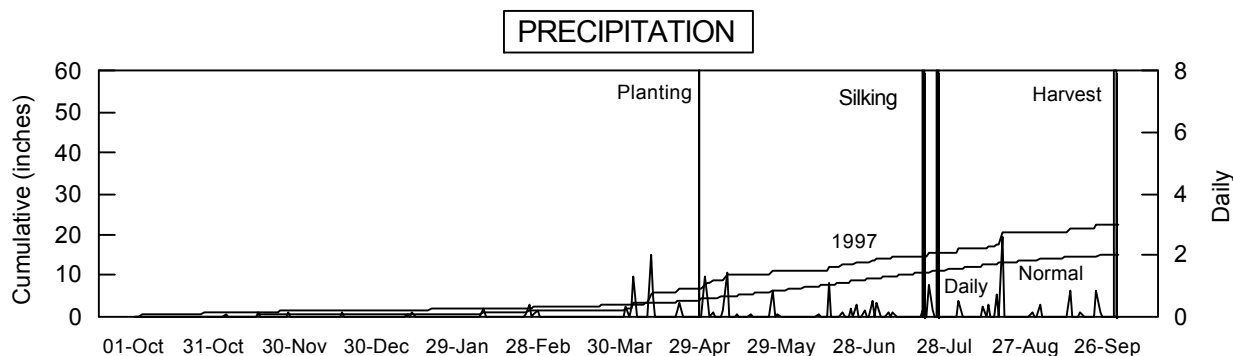
LSD (bu/a): 19

CV (%): 9

SILK DATES: 7/20/97 - 7/25/97

1997 GROWING CONDITIONS:

Moist soil at planting resulted in excellent stands. Disease, weed, and insect pressures were light. Rainfall distribution was somewhat uneven. Dry conditions during critical parts of the growing season may have limited yields.



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	1997	Normal	1997	Normal	1997	Normal
April	6.9	1.4	44	50	204	242
May	2.7	2.3	58	60	364	381
June	2.6	2.6	70	71	581	619
July	2.1	2.5	76	76	727	746
August	4.6	2.1	72	74	613	668
Sept.	2.2	1.3	67	65	502	490
Season Totals	21.0	12.3	65	66	2989	3144

TABLE 1. DONIPHAN CO. CORN PERFORMANCE TEST RESULTS, 1995-1997.

BRAND	NAME	ACRE YIELD, BUSHELS			YIELD AS % OF TEST			96-97		1997		Test Wt. lb/bu				
		1997	1996	1995	2-Yr. 3-Yr.		AVERAGE	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %		Final Stand %	Ldg %		
					AVG.	AVG.									1997	1996
NK	N69-R1	184	--	--	--	--	104	--	--	--	--	83	16	123	5	58
DEKALB	DK595	185	--	--	--	--	104	--	--	--	--	84	15	113	2	59
BO-JAC	415	189	221	--	205	--	106	102	--	85	17	84	16	115	5	56
MATURITY CHECK	SHORT - C4111	170	--	--	--	--	95	--	--	--	--	84	16	117	2	58
FONTANELLE	5335	180	221	--	200	--	101	102	--	85	18	84	17	105	4	58
RENZE	6345	186	220	164	203	190	104	102	117	86	18	84	17	115	2	58
CARGILL	6997	176	214	--	195	--	99	99	--	85	19	84	18	119	3	57
CARGILL	6888	187	--	--	--	--	105	--	--	--	--	84	18	119	1	58
MATURITY CHECK	MID-H-2530	180	209	132	194	174	101	97	94	86	19	84	18	116	2	57
MYCOGEN	7250	179	219	--	199	--	101	102	--	85	19	84	18	112	2	57
NC+	5445	190	--	--	--	--	107	--	--	--	--	84	18	122	1	57
NK	N7070	180	--	--	--	--	101	--	--	--	--	84	18	117	3	58
NK	N7333	158	216	153	187	176	89	100	109	85	20	84	18	113	1	59
PIONEER	3335	194	--	--	--	--	109	--	--	--	--	84	18	117	1	58
CARGILL	7770	170	--	--	--	--	96	--	--	--	--	84	19	111	3	58
LEWIS	5584	169	216	159	192	181	95	100	113	86	20	84	19	116	3	56
MATURITY CHECK	PIONEER 3162	157	--	--	--	--	88	--	--	--	--	84	19	114	3	59
MYCOGEN	2725	184	--	--	--	--	103	--	--	--	--	84	19	117	1	57
PIONEER	3237	194	--	--	--	--	109	--	--	--	--	84	19	112	4	58
FREEDOM	5680	171	--	--	--	--	96	--	--	--	--	84	20	112	4	53
GARST	N5250 EXP	171	--	--	--	--	96	--	--	--	--	84	20	115	1	54
MATURITY CHECK	F-B73 X N204	137	166	101	151	135	77	77	72	86	20	84	20	101	3	56
CARGILL	8311	177	--	--	--	--	99	--	--	--	--	84	21	105	1	54
MATURITY CHECK	FB73rhmxMO17	165	201	127	183	164	92	93	90	87	22	84	21	100	5	55
MSG (OHLDE)	G 8771	187	237	--	212	--	105	110	--	88	22	84	21	115	2	52
MIDLAND	786	176	244	--	210	--	99	113	--	88	22	84	22	119	3	52
RENZE	6506	182	237	--	210	--	102	110	--	88	23	84	22	116	2	55
BO-JAC	544	171	--	--	--	--	96	--	--	--	--	85	17	110	2	56
RENZE	6386	186	221	161	204	189	104	103	114	86	19	85	17	112	1	58
ASGROW	RX760	189	217	--	203	--	106	101	--	86	19	85	18	112	0	56
DEKALB	DK642	200	230	--	215	--	112	107	--	87	20	85	18	116	8	57
FONTANELLE	5567	187	--	--	--	--	105	--	--	--	--	85	18	116	4	58
GOLDEN HARVEST	H-2581	179	--	159	--	--	100	--	113	--	--	85	18	119	0	57
MSG (OHLDE)	O 331	177	216	160	197	185	100	100	114	87	19	85	18	116	2	59
MSG (OHLDE)	G 7711	192	211	156	202	187	108	98	111	86	18	85	18	116	0	57
PFISTER	2650	182	216	148	199	182	102	100	106	85	18	85	18	116	3	58
PIONEER	32K61	198	--	--	--	--	111	--	--	--	--	85	18	120	5	59
PFISTER	2652	173	--	--	--	--	97	--	--	--	--	85	19	116	3	56
PATRIOT	7197	181	--	--	--	--	102	--	--	--	--	85	20	114	3	57
ASGROW	RX897	172	--	--	--	--	96	--	--	--	--	85	21	116	2	54
NC+	6387	172	--	--	--	--	97	--	--	--	--	85	21	114	1	54
PATRIOT	7187	183	--	--	--	--	103	--	--	--	--	85	21	110	1	54
PATRIOT	7172	167	--	--	--	--	94	--	--	--	--	85	22	119	1	52

(continued)

TABLE 1. DONIPHAN CO. CORN PERFORMANCE TEST RESULTS, 1995-1997.

BRAND	NAME	ACRE YIELD, BUSHEL			YIELD AS % OF TEST			96-97		1997		Ldg %	Test Wt. lb/bu			
		1997	1996	1995	2-Yr. AVG.	3-Yr. AVG.	AVERAGE			Days to Silk	Grain to Moist. %			Days to Silk	Grain to Moist. %	Final Stand %
							1997	1996	1995							
GARST	8366	188	--	--	--	--	105	--	--	--	--	86	18	119	5	57
GOLDEN HARVEST	H-2547	179	--	--	--	--	100	--	--	--	--	86	18	112	0	57
HAWKEYE	SX62	188	225	162	207	192	105	105	115	86	19	86	18	112	4	58
HOEGEMEYER	2693	193	222	143	208	186	108	103	102	87	19	86	18	110	9	57
PFISTER	2680	189	--	--	--	--	106	--	--	--	--	86	18	116	2	58
TRIUMPH	1514	167	--	--	--	--	94	--	--	--	--	86	18	106	2	56
ASGROW	RX813	180	--	--	--	--	101	--	--	--	--	86	19	112	4	57
GARST	8396IT	168	--	--	--	--	94	--	--	--	--	86	19	107	0	56
HOEGEMEYER	2689	152	222	143	187	173	85	103	102	88	20	86	19	108	4	57
MSG (OHLDE)	G 8511	192	218	--	205	--	108	101	--	87	20	86	19	119	1	55
PFISTER	3049	174	237	--	206	--	98	110	--	87	20	86	19	113	0	55
HAWKEYE	SX81	161	229	148	195	179	90	106	106	89	21	86	20	112	1	55
PATRIOT	6142	193	229	--	211	--	108	106	--	87	20	86	20	123	2	54
PATRIOT	6168	158	214	--	186	--	89	99	--	88	21	86	20	109	2	55
BO-JAC	614	190	--	--	--	--	107	--	--	--	--	86	21	122	2	53
NC+	7117	177	--	--	--	--	100	--	--	--	--	86	21	117	2	56
WILSON	1792	169	213	--	191	--	95	99	--	88	23	86	23	105	0	54
DEKALB	DK626	194	236	122	215	184	109	109	87	87	19	87	18	112	3	57
CARGILL	8011	182	--	--	--	--	102	--	--	--	--	87	19	111	2	56
FONTANELLE	5676	171	209	--	190	--	96	97	--	87	20	87	19	105	3	55
FONTANELLE	5786	178	--	--	--	--	100	--	--	--	--	87	19	113	4	56
HOEGEMEYER	2682	175	233	--	204	--	98	108	--	87	20	87	19	109	1	57
RENZE	6397	181	--	--	--	--	102	--	--	--	--	87	19	113	2	55
MYCOGEN	8460	160	206	131	183	165	90	96	93	91	23	87	21	119	3	55
WILSON	2335	184	225	--	204	--	103	104	--	91	25	87	24	119	4	53
WILSON	2330	177	212	140	195	177	100	98	100	89	25	87	24	114	2	53
HAWKEYE	SX66	174	228	--	201	--	98	106	--	88	19	88	18	122	3	56
LEWIS	5446	191	246	--	219	--	107	114	--	88	19	88	19	112	4	56
WILSON	E975305	156	--	--	--	--	88	--	--	--	--	88	21	108	5	54
AVERAGES		178	216	140	197	178	178	216	140	87	20	85	19	114	2	56
CV(%)		9	7	9	--	--	9	7	9	--	--	1	5	6	121	2
LSD(0.05)**		19	18	17	--	--	11	8	12	--	--	1	2	8	NS	2

** 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

COUNTY: BROWN

LOCATION: Cornbelt Experiment Field, Powhattan

TEST SITE: Grundy silty clay loam

1996 CROP: Soybeans

1995 CROP: Corn

FERTILIZER (lbs/acre): 100 N 0 P₂O₅ 0 K₂O

PLANTING DATE: 5/6/97

HARVEST DATE: 10/3/97

COOPERATORS:

Brian Marsh, agronomist; Steve Milne and David Zeit, technicians

TARGET POPULATION: 22,000 plants/acre,

9.5 in. spacing

STAND (% of target): 100

YIELD: Average (bu/a): 123

Range (bu/a): 99 - 153

LSD (bu/a): 12

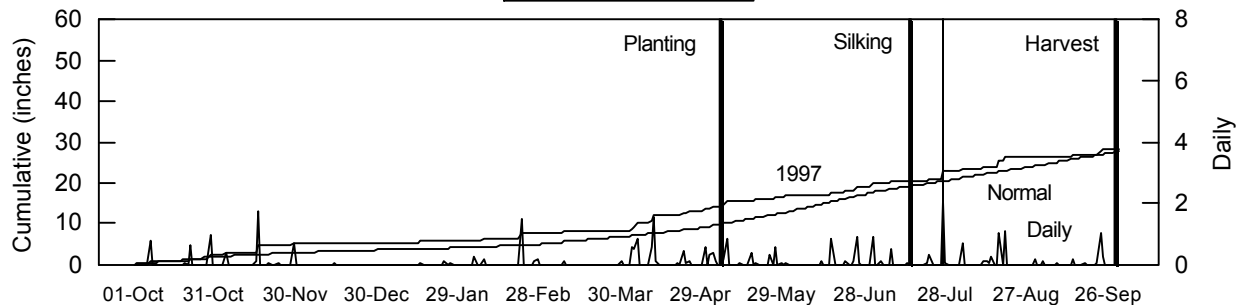
CV (%): 9

SILK DATES: 7/15/97 - 7/27/97

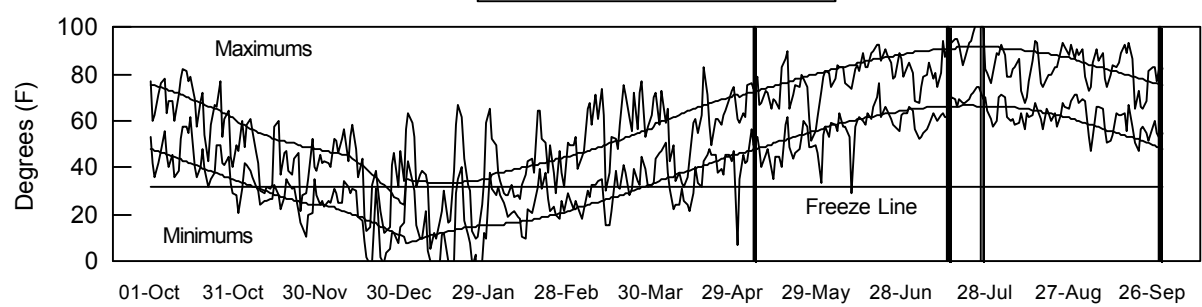
1997 GROWING CONDITONS:

Stands were acceptable for most entries. Summer weather conditions were somewhat dry and may have limited yields. Insect and disease problems were minimal.

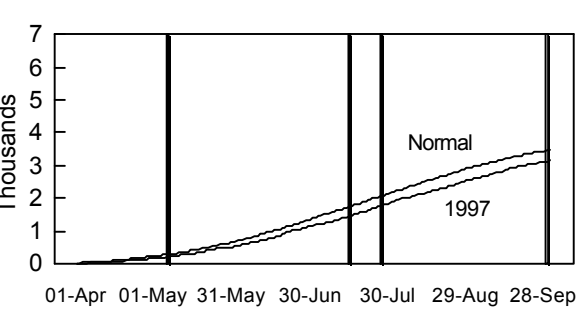
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	1997	Normal	1997	Normal	1997	Normal
April	5.4	2.4	47	53	163	242
May	3.3	3.7	60	64	346	427
June	3.0	4.8	72	74	669	718
July	3.1	3.3	75	79	741	835
August	3.4	3.3	74	77	690	748
Sept.	1.8	3.5	69	67	569	518
Season						
Totals	20.0	20.9	66	69	3177	3487

TABLE 2. BROWN CO. CORN PERFORMANCE TEST RESULTS, 1995-1997.

BRAND	NAME	ACRE YIELD, BUSHEL						YIELD AS % OF TEST			94-97		1997			
		1997	1996	1995	2-Yr. 3-Yr.		AVERAGE			Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
					AVG.	AVG.	1997	1996	1995							
MATURITY CHECK	SHORT - C4111	109	--	--	--	--	88	--	--	--	--	70	14	101	0	54
AGRIPRO	AP 9565	119	--	--	--	--	97	--	--	--	--	71	17	103	0	55
DEKALB	DK595	127	--	--	--	--	104	--	--	--	--	72	16	97	0	57
NK	N69-R1	105	--	--	--	--	85	--	--	--	--	72	16	114	0	55
PFISTER	2650	120	164	80	142	121	98	101	103	78	17	72	16	95	0	55
RENZE	6345	122	--	--	--	--	100	--	--	--	--	72	16	101	0	57
GOLDEN HARVEST	H-2547	121	168	61	144	116	98	104	78	78	18	72	17	96	0	57
MYCOGEN	2725	117	--	--	--	--	95	--	--	--	--	72	17	99	0	55
PFISTER	2680	135	--	--	--	--	110	--	--	--	--	72	17	106	0	56
RENZE	6386	127	--	--	--	--	104	--	--	--	--	72	17	108	0	55
GARST	8342	122	--	--	--	--	99	--	--	--	--	73	18	93	0	54
MYCOGEN	7250	128	163	--	146	--	104	101	--	78	19	73	18	94	0	56
PFISTER	2652	134	--	--	--	--	109	--	--	--	--	74	16	100	0	56
ASGROW	RX760	124	--	--	--	--	101	--	--	--	--	74	17	105	0	55
TRIUMPH	1141	120	--	--	--	--	98	--	--	--	--	74	17	101	0	55
MATURITY CHECK	PIONEER 3162	135	--	--	--	--	110	--	--	--	--	74	19	105	2	56
TRIUMPH	1522	127	166	--	147	--	104	102	--	80	20	74	19	95	2	56
MATURITY CHECK	MID-H-2530	102	157	84	130	114	83	97	107	80	17	75	16	93	0	56
GARST	8366	124	--	--	--	--	101	--	--	--	--	75	17	102	0	54
NK	N7070	114	--	--	--	--	93	--	--	--	--	75	17	106	0	55
DEKALB	DK641	110	173	--	141	--	89	107	--	81	19	75	18	90	2	55
NK	N7333	119	--	--	--	--	97	--	--	--	--	75	18	89	0	57
BO-JAC	544	109	--	--	--	--	88	--	--	--	--	76	16	99	0	56
BO-JAC	415	122	171	--	146	--	99	106	--	81	17	76	16	96	1	56
HAWKEYE	SX66	112	--	--	--	--	91	--	--	--	--	76	17	107	0	55
LEWIS	5446	127	--	--	--	--	104	--	--	--	--	76	17	108	0	54
NC+	5445	121	--	--	--	--	98	--	--	--	--	76	17	100	0	58
PIONEER	3335	124	--	--	--	--	101	--	--	--	--	76	17	110	1	56
TRIUMPH	1514	123	171	--	147	--	100	106	--	81	17	76	17	96	0	56
AGRIPRO	AP 619	122	161	--	141	--	99	99	--	81	19	76	18	97	0	56
ASGROW	RX813	124	--	--	--	--	101	--	--	--	--	76	18	99	0	57
CARGILL	7770	125	--	--	--	--	101	--	--	--	--	76	18	93	0	59
DEKALB	DK626	123	173	79	148	125	100	107	102	81	18	76	18	94	1	56
GARST	8325	129	--	--	--	--	105	--	--	--	--	76	18	93	0	56
GOLDEN HARVEST	H-2581	124	176	76	150	125	101	109	98	81	19	76	18	97	0	53
MIDLAND	774	119	--	--	--	--	97	--	--	--	--	76	18	99	0	54
MSG (OHLDE)	G 8699	114	--	--	--	--	93	--	--	--	--	76	18	95	0	56
PATRIOT	6142	115	--	--	--	--	93	--	--	--	--	76	18	85	1	56
PFISTER	3049	122	159	--	141	--	100	99	--	80	19	76	18	94	0	57
PIONEER	3237	147	--	--	--	--	120	--	--	--	--	76	18	107	0	57

(continued)

TABLE 2. BROWN CO. CORN PERFORMANCE TEST RESULTS, 1995-1997.

BRAND	NAME	ACRE YIELD, BUSHEL			YIELD AS % OF TEST			94-97		1997				Test Wt. lb/bu		
		1997	1996	1995	2-Yr. 3-Yr.		AVERAGE	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %			
					AVG.	AVG.									1997	1996
RENZE	6397	132	--	--	--	--	108	--	--	--	--	76	18	105	0	56
CARGILL	8311	131	--	--	--	--	106	--	--	--	--	76	19	97	0	54
FONTANELLE	5786	115	--	--	--	--	94	--	--	--	--	76	19	92	0	54
MATURITY CHECK	F-B73 X N204	110	149	71	130	110	90	92	91	81	21	76	19	96	1	57
NC+	6387	119	--	--	--	--	97	--	--	--	--	76	19	105	0	55
PATRIOT	7187	138	--	--	--	--	112	--	--	--	--	76	19	102	0	56
ASGROW	RX897	140	--	--	--	--	114	--	--	--	--	76	20	102	0	56
MATURITY CHECK	FB73rhmxMO17	114	156	71	135	114	93	97	92	81	21	76	20	102	0	53
PATRIOT	6168	126	164	--	145	--	102	102	--	82	21	76	20	101	1	53
WILSON	1792	129	--	--	--	--	105	--	--	--	--	76	20	102	1	54
BO-JAC	614	137	156	--	147	--	111	97	--	83	20	77	19	106	2	56
PATRIOT	7172	129	--	--	--	--	105	--	--	--	--	77	20	104	2	55
PATRIOT	7197	111	--	--	--	--	91	--	--	--	--	77	20	102	0	57
RENZE	6506	153	--	--	--	--	125	--	--	--	--	77	21	112	1	59
CARGILL	8011	99	--	--	--	--	80	--	--	--	--	78	18	102	0	55
PIONEER	32K61	145	--	--	--	--	118	--	--	--	--	78	18	112	1	59
MIDLAND	786	129	--	--	--	--	105	--	--	--	--	78	19	102	2	56
CARGILL	8327	123	163	84	143	123	100	101	108	83	21	78	20	86	1	56
HAWKEYE	SX81	136	182	76	159	131	110	113	98	83	21	78	20	101	2	57
LEWIS	6294	122	173	89	147	128	99	107	115	84	21	78	20	102	0	55
NC+	7117	123	160	70	141	117	100	99	90	84	21	78	20	103	0	56
WILSON	2330	126	--	--	--	--	102	--	--	--	--	78	21	102	0	55
WILSON	2335	127	--	--	--	--	104	--	--	--	--	79	22	103	0	56
MYCOGEN	8460	115	175	67	145	119	94	108	87	86	22	82	21	101	2	56
WILSON	E975305	99	--	--	--	--	81	--	--	--	--	82	22	100	1	52
AVERAGES		123	162	78	142	121	123	162	78	81	19	76	18	100	1	56
CV(%)		9	9	12	--	--	9	9	12	--	--	2	3	10	209	4
LSD(0.05)**		12	13	14	--	--	10	8	18	--	--	2	1	12	1	NS

** 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, DRYLAND

COUNTY: REPUBLIC

LOCATION: North Central Kansas Experiment Field, Belleville

TEST SITE: Crete silt loam

1996 CROP: Wheat

1995 CROP: Fallow

FERTILIZER (lbs/acre): 180 N 30 P₂O₅ 0 K₂O

PLANTING DATE: 4/22/97

HARVEST DATE: 9/30/97

COOPERATORS:

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

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

STAND (% of target): 114

YIELD: Average (bu/a): 72

Range (bu/a): 39 - 109

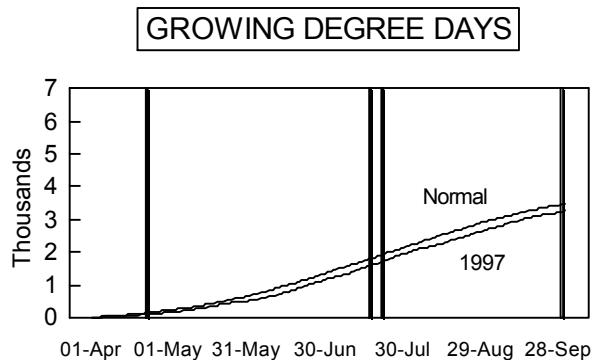
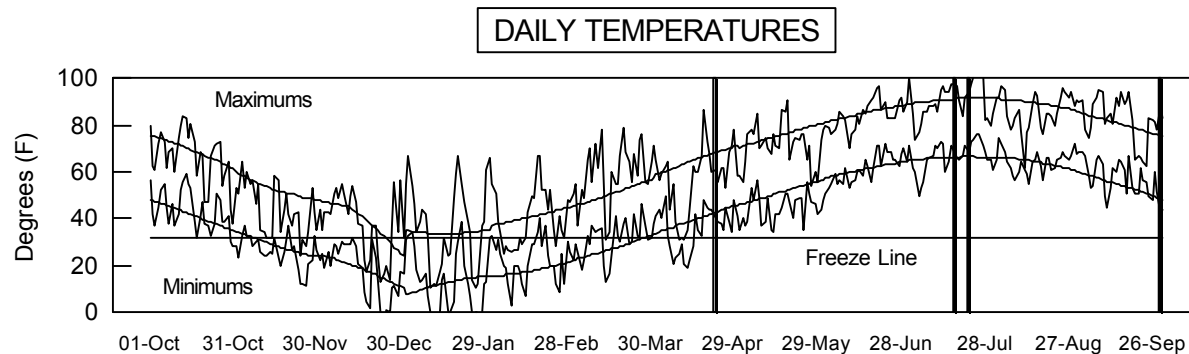
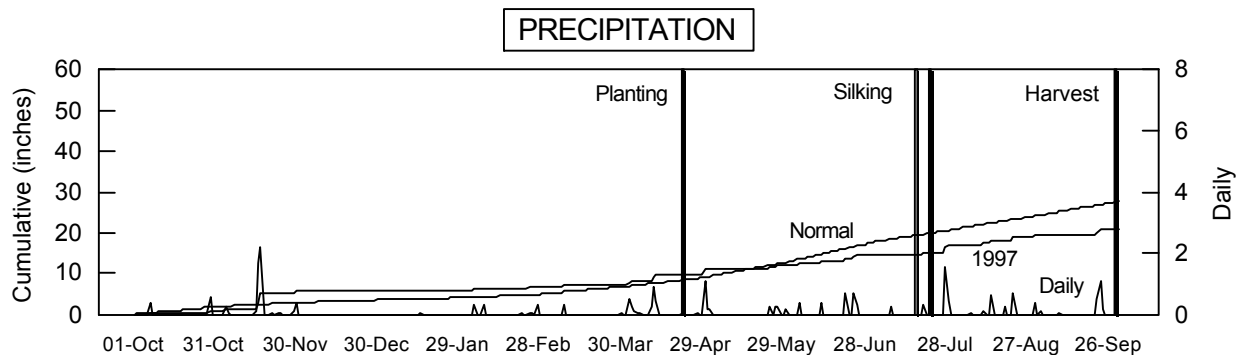
LSD (bu/a): 12

CV (%): 14

SILK DATES: 7/17/97 - 7/22/97

1997 GROWING CONDITIONS:

All plots had nearly perfect stands. Early growth was slowed by cool, dry spring weather. Rainfall was below normal in May, June, and July, causing drought stress and reducing yields. Disease and insect problems were minimal.



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	1997	Normal	1997	Normal	1997	Normal
April	3.9	2.4	47	53	164	242
May	1.0	3.7	59	64	340	427
June	2.4	4.8	74	74	695	718
July	2.6	3.3	78	79	821	835
August	2.1	3.3	75	77	711	748
Sept.	1.9	3.5	70	67	564	518
Season						
Totals	13.9	20.9	67	69	3293	3487

TABLE 3. REPUBLIC CO. DRYLAND CORN PERFORMANCE TEST RESULTS, 1995-1997.

BRAND	NAME	ACRE YIELD, BUSHELS						YIELD AS % OF TEST AVERAGE			96-97		1997			
		1997	1996	1995	2-Yr.	3-Yr.	1997	1996	1995	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
					AVG.	AVG.										
MATURITY CHECK	MID-H-2530	67	153	121	110	114	94	100	104	89	17	86	18	111	5	56
PIONEER	3346	108	154	129	131	130	151	100	111	86	19	86	19	112	6	56
DEKALB	DK569	109	--	--	--	--	152	--	--	--	--	87	17	115	3	56
PIONEER	3563	66	166	122	116	118	93	108	105	87	17	87	17	117	3	58
PIONEER	34K77	103	--	--	--	--	143	--	--	--	--	87	17	114	2	58
MYCOGEN	2689	77	164	--	120	--	107	107	--	88	19	87	20	113	1	55
RENZE	6397	43	--	--	--	--	59	--	--	--	--	87	20	118	3	54
MATURITY CHECK	SHORT - C4111	61	--	--	--	--	85	--	--	--	--	88	15	116	19	57
NK	N69-R1	81	--	--	--	--	113	--	--	--	--	88	15	115	11	57
MILLER PREF.	MP-1134	60	--	--	--	--	84	--	--	--	--	88	17	114	12	57
BO-JAC	415	70	--	--	--	--	98	--	--	--	--	88	20	113	2	54
DEKALB	DK595	107	--	--	--	--	149	--	--	--	--	89	17	111	4	57
ASGROW	RX760	80	--	--	--	--	111	--	--	--	--	89	20	112	2	55
BO-JAC	614	87	--	--	--	--	122	--	--	--	--	89	21	113	5	54
MATURITY CHECK	PIONEER 3162	59	--	--	--	--	82	--	--	--	--	89	21	116	3	56
BO-JAC	544	64	--	--	--	--	90	--	--	--	--	90	20	110	0	54
CARGILL	8011	45	--	--	--	--	62	--	--	--	--	90	20	113	2	54
PFISTER	2652	76	--	--	--	--	105	--	--	--	--	90	20	114	3	54
PFISTER	2650	55	--	--	--	--	76	--	--	--	--	90	20	112	2	55
PFISTER	2680	64	--	--	--	--	90	--	--	--	--	90	20	113	4	55
RENZE	6345	63	--	--	--	--	89	--	--	--	--	90	20	113	0	55
RENZE	6506	81	--	--	--	--	113	--	--	--	--	90	20	114	5	55
CARGILL	7770	103	--	--	--	--	144	--	--	--	--	90	21	112	0	55
MATURITY CHECK	F-B73 X N204	58	154	109	106	107	80	100	94	90	20	90	21	113	4	54
MILLER PREF.	MP-1154	56	--	--	--	--	79	--	--	--	--	90	21	113	1	54
NK	N7590	97	164	117	131	126	135	107	101	89	20	90	21	115	0	54
CARGILL	8311	75	--	--	--	--	104	--	--	--	--	91	20	114	2	55
GOLDEN HARVEST	H-2581	65	--	--	--	--	90	--	--	--	--	91	20	115	1	54
NC+	4880	60	--	--	--	--	83	--	--	--	--	91	20	114	1	55
RENZE	6386	65	--	--	--	--	91	--	--	--	--	91	20	113	4	55
ASGROW	RX897	102	--	--	--	--	142	--	--	--	--	91	21	115	2	54
ASGROW	RX813	52	--	--	--	--	73	--	--	--	--	91	21	114	3	55
MATURITY CHECK	FB73rhmxMO17	57	138	95	97	97	80	90	82	91	20	91	21	115	2	54
MIDLAND	786	67	--	--	--	--	93	--	--	--	--	91	21	112	2	55
MILLER PREF.	MP-1161	74	161	131	118	122	104	105	113	92	21	91	21	113	0	54
NC+	5445	69	--	--	--	--	96	--	--	--	--	91	21	110	1	55
NK	N7333	59	--	--	--	--	82	--	--	--	--	91	21	115	0	54
PFISTER	3049	39	--	--	--	--	54	--	--	--	--	91	21	112	0	54
AVERAGES		72	154	116	113	114	72	154	116	89	19	89	20	114	3	55
CV(%)		14	6	8	--	--	14	6	8	--	--	1	3	3	106	1
LSD(0.05)**		12	10	14	--	--	16	7	12	--	--	1	1	4	4	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 SILT LOAM SOIL

COUNTY: RILEY

LOCATION: Agronomy North Farm near Manhattan

TEST SITE: Reading silt loam

1996 CROP: Soybeans

1995 CROP: Corn

FERTILIZER (lbs/acre): 120 N 0 P₂O₅ 0 K₂O

PLANTING DATE: 4/22/97

HARVEST DATE: 9/7/97

COOPERATORS:

Kraig Roozeboom, agronomist; Karl Mannschreck, superintendent

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

STAND (% of target): 116

YIELD: Average (bu/a): 143

Range (bu/a): 120 - 166

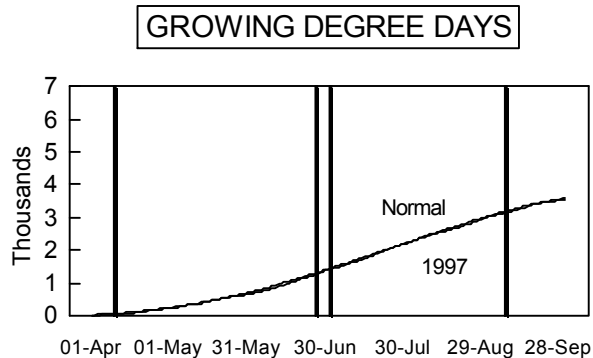
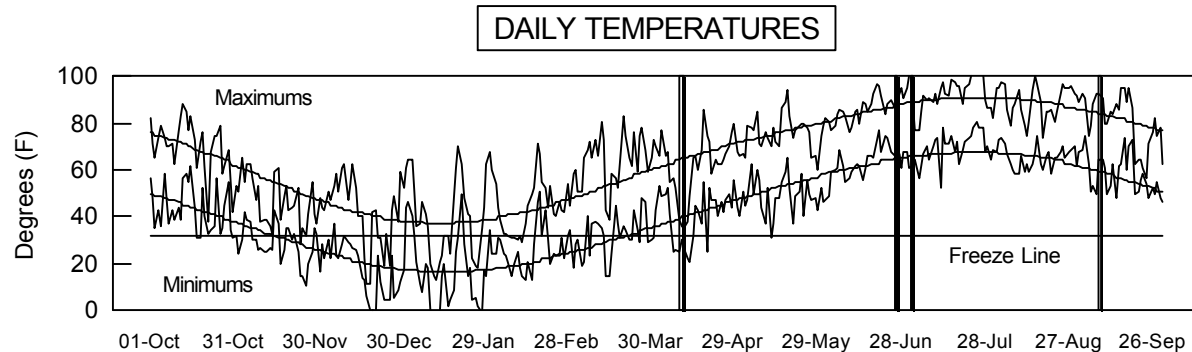
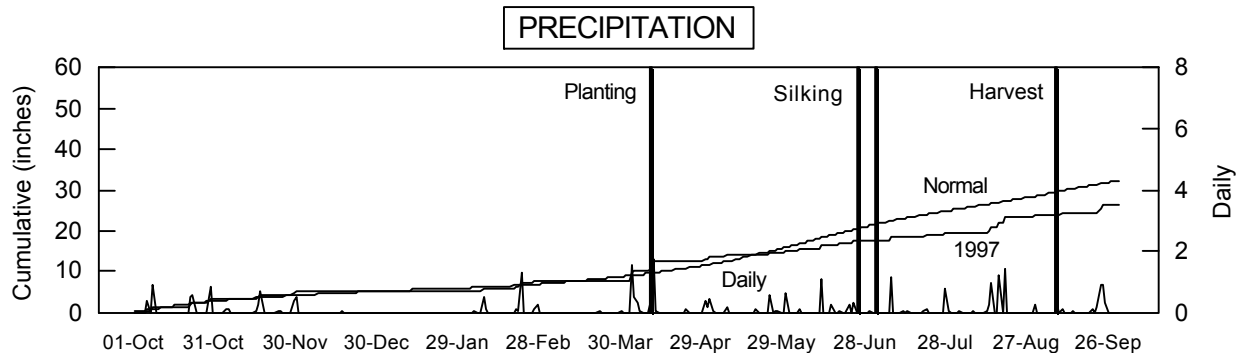
LSD (bu/a): 11

CV (%): 7

SILK DATES: 7/8/97 - 7/14/97

1997 GROWING CONDITIONS:

Seedling growth was slowed by cool weather. Summer conditions were generally favorable for vegetative growth. High temperatures during pollen shed and dry conditions during grain fill may have limited yields. Diseases and insects caused little damage.



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	1997	Normal	1997	Normal	1997	Normal
April	5.4	2.8	52	54	231	259
May	2.0	4.5	63	65	421	447
June	2.1	5.3	75	74	742	723
July	2.2	3.8	81	79	874	853
August	4.2	3.4	77	77	746	768
Sept.	2.8	3.8	69	69	550	567
Season						
Totals	18.6	23.5	70	70	3562	3615

TABLE 4. RILEY CO. CORN PERFORMANCE TEST RESULTS, 1995-1997.

BRAND	NAME	ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			96-97		1997			Test Wt. lb/bu	
		1997	1996	1995	2-Yr.	3-Yr.	1997	1996	1995	Days to Silk	Grain to Moist. %	Days to Silk	Grain Moist. %	Final Stand %		Ldg %
					AVG.	AVG.										
CARGILL	6303	124	--	--	--	--	87	--	--	--	--	77	19	109	1	51
MATURITY CHECK	SHORT - C4111	133	--	--	--	--	93	--	--	--	--	77	19	111	2	52
DEKALB	DK595	149	--	--	--	--	104	--	--	--	--	78	19	116	0	53
ASGROW	RX760	141	--	--	--	--	99	--	--	--	--	78	21	118	0	52
NC+	4880	136	--	--	--	--	95	--	--	--	--	78	21	118	1	53
MYCOGEN	7250	153	--	--	--	--	107	--	--	--	--	78	24	110	1	49
PFISTER	2680	134	--	--	--	--	94	--	--	--	--	78	24	117	0	51
RENZE	6345	144	--	--	--	--	101	--	--	--	--	79	20	113	1	52
AGRIPRO	AP 9572	140	--	--	--	--	98	--	--	--	--	79	21	116	0	52
PFISTER	2650	141	--	--	--	--	99	--	--	--	--	79	22	115	0	52
RENZE	6386	138	--	--	--	--	97	--	--	--	--	79	22	115	1	52
MATURITY CHECK	MID-H-2530	120	147	140	133	136	84	96	96	80	18	80	19	115	4	52
BO-JAC	544	140	--	--	--	--	98	--	--	--	--	80	21	117	2	50
DEKALB	DK626	142	159	153	151	152	99	104	106	80	19	80	22	115	1	51
BO-JAC	415	156	150	--	153	--	109	99	--	81	20	80	23	119	2	50
PFISTER	2652	141	--	--	--	--	98	--	--	--	--	80	23	118	2	50
CARGILL	7770	153	--	--	--	--	107	--	--	--	--	80	24	116	1	50
NC+	5445	145	--	--	--	--	101	--	--	--	--	80	25	117	1	51
MATURITY CHECK	FB73rhmxMO17	142	144	146	143	144	99	95	101	81	22	80	26	115	2	49
MATURITY CHECK	PIONEER 3162	137	--	--	--	--	96	--	--	--	--	80	27	117	2	51
ASGROW	RX813	144	--	--	--	--	101	--	--	--	--	81	23	118	3	51
CARGILL	8011	131	--	--	--	--	91	--	--	--	--	81	23	118	3	50
FREEDOM	5555	137	--	--	--	--	95	--	--	--	--	81	23	117	3	50
GOLDEN HARVEST	H-2581	131	--	--	--	--	92	--	--	--	--	81	24	117	1	51
PFISTER	3049	148	--	--	--	--	104	--	--	--	--	81	25	113	2	50
RENZE	6397	135	--	--	--	--	94	--	--	--	--	81	25	119	1	49
MATURITY CHECK	F-B73 X N204	124	147	123	135	131	87	97	84	80	23	81	28	106	2	50
AGRIPRO	HS 9843	164	--	--	--	--	114	--	--	--	--	82	24	112	0	50
MIDLAND	774	145	155	--	150	--	101	102	--	82	21	82	24	118	3	50
BO-JAC	614	157	147	--	152	--	110	97	--	83	22	82	26	115	2	49
RENZE	6506	152	--	--	--	--	106	--	--	--	--	82	26	118	1	50
CARGILL	8311	166	--	--	--	--	116	--	--	--	--	82	28	118	2	48
FREEDOM	5695	148	--	--	--	--	104	--	--	--	--	83	26	117	2	50
FREEDOM	5680	160	--	--	--	--	112	--	--	--	--	83	27	116	0	48
ASGROW	RX897	160	--	--	--	--	112	--	--	--	--	83	28	120	1	49
AVERAGES		143	152	145	148	147	143	152	145	80	20	80	23	116	2	51
CV(%)		7	7	8	--	--	7	8	8	--	--	1	7	5	112	2
LSD(0.05)**		11	NS	12	--	--	8	NS	8	--	--	1	3	NS	NS	2

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

TABLE 5. NORTHEASTERN KANSAS CORN TEST YIELD SUMMARY, 1995-1997.

BRAND	NAME	1997 YIELD AS % OF TEST AVERAGE ¹					1995-1997		
		DON	BRO	RED	RIL	AVG.	DYA (bu/a) ²	S.E. ³	N ⁴
RENZE	6506	102	125	113	106	112	25.4*	5.3	5
BO-JAC	614	107	111	122	110	112	16.6*	4.8	6
RENZE	6345	104	100	89	101	98	15.3*	4.0	6
RENZE	6386	104	104	91	97	99	15.2*	3.6	6
MIDLAND	786	99	105	93	--	--	14.8	6.1	5
ASGROW	RX760	106	101	111	99	104	14.7*	1.3	5
MSG (OHLDE)	O 331	100	--	--	--	--	14.2*	5.0	7
MYCOGEN	7250	101	104	--	107	--	14.0*	2.9	5
BO-JAC	415	106	99	98	109	103	14.0*	2.3	7
HAWKEYE	SX81	90	110	--	--	--	13.9	6.1	6
DEKALB	DK626	109	100	--	99	--	11.9*	3.2	10
CARGILL	8327	--	100	--	--	--	10.9*	2.1	5
GOLDEN HARVEST	H-2581	100	101	90	92	96	10.4*	4.0	7
NK	N7590	--	--	135	--	--	10.1*	3.4	9
PFISTER	2650	102	98	76	99	94	8.1*	2.6	8
PFISTER	3049	98	100	54	104	89	7.6	6.9	6
NK	N7333	89	97	82	--	--	5.6	5.8	5
c MATURITY CHECK	MID-H-2530	101	83	94	84	90	2.3	1.8	12
MYCOGEN	8460	90	94	--	--	--	0.8	4.2	6
c MATURITY CHECK	FB73rhmxMO17	92	93	80	99	91	-2.3	1.8	12
MATURITY CHECK	F-B73 X N204	77	90	80	87	83	-11.3*	4.3	12
AGRIPRO	AP 619	--	99	--	--	--	--	--	--
AGRIPRO	AP 9565	--	97	--	--	--	--	--	--
AGRIPRO	AP 9572	--	--	--	98	--	--	--	--
AGRIPRO	HS 9843	--	--	--	114	--	--	--	--
ASGROW	RX813	101	101	73	101	94	--	--	--
ASGROW	RX897	96	114	142	112	116	--	--	--
BO-JAC	544	96	88	90	98	93	--	--	--
CARGILL	6303	--	--	--	87	--	--	--	--
CARGILL	6888	105	--	--	--	--	--	--	--
CARGILL	6997	99	--	--	--	--	--	--	--
CARGILL	7770	96	101	144	107	112	--	--	--
CARGILL	8011	102	80	62	91	84	--	--	--
CARGILL	8311	99	106	104	116	106	--	--	--
DEKALB	DK569	--	--	152	--	--	--	--	--
DEKALB	DK595	104	104	149	104	115	--	--	--
DEKALB	DK641	--	89	--	--	--	--	--	--
DEKALB	DK642	112	--	--	--	--	--	--	--
FONTANELLE	5335	101	--	--	--	--	--	--	--
FONTANELLE	5567	105	--	--	--	--	--	--	--
FONTANELLE	5676	96	--	--	--	--	--	--	--
FONTANELLE	5786	100	94	--	--	--	--	--	--
FREEDOM	5555	--	--	--	95	--	--	--	--
FREEDOM	5680	96	--	--	112	--	--	--	--
FREEDOM	5695	--	--	--	104	--	--	--	--
MIDLAND	774	--	97	--	101	--	--	--	--
GARST	8325	--	105	--	--	--	--	--	--
GARST	8342	--	99	--	--	--	--	--	--
GARST	8366	105	101	--	--	--	--	--	--
GARST	8396IT	94	--	--	--	--	--	--	--
GARST	N5250 EXP	96	--	--	--	--	--	--	--
GOLDEN HARVEST	H-2547	100	98	--	--	--	--	--	--
HAWKEYE	SX62	105	--	--	--	--	--	--	--
HAWKEYE	SX66	98	91	--	--	--	--	--	--

(continued)

TABLE 5. NORTHEASTERN KANSAS CORN TEST YIELD SUMMARY, 1995-1997.

BRAND	NAME	1997 YIELD AS % OF TEST AVERAGE ¹					1995-1997		
		DON	BRO	RED	RIL	AVG.	DYA (bu/a) ²	S.E. ³	N ⁴
HOEGEMEYER	2682	98	--	--	--	--	--	--	--
HOEGEMEYER	2689	85	--	--	--	--	--	--	--
HOEGEMEYER	2693	108	--	--	--	--	--	--	--
LEWIS	5446	107	104	--	--	--	--	--	--
LEWIS	5584	95	--	--	--	--	--	--	--
LEWIS	6294	--	99	--	--	--	--	--	--
MILLER PREF.	MP-1134	--	--	84	--	--	--	--	--
MILLER PREF.	MP-1154	--	--	79	--	--	--	--	--
MILLER PREF.	MP-1161	--	--	104	--	--	--	--	--
MSG (OHLDE)	G 7711	108	--	--	--	--	--	--	--
MSG (OHLDE)	G 8511	108	--	--	--	--	--	--	--
MSG (OHLDE)	G 8699	--	93	--	--	--	--	--	--
MSG (OHLDE)	G 8771	105	--	--	--	--	--	--	--
MYCOGEN	2689	--	--	107	--	--	--	--	--
MYCOGEN	2725	103	95	--	--	--	--	--	--
NC+	4880	--	--	83	95	--	--	--	--
NC+	5445	107	98	96	101	101	--	--	--
NC+	6387	97	97	--	--	--	--	--	--
NC+	7117	100	100	--	--	--	--	--	--
NK	N69-R1	104	85	113	--	--	--	--	--
NK	N7070	101	93	--	--	--	--	--	--
PATRIOT	6142	108	93	--	--	--	--	--	--
PATRIOT	6168	89	102	--	--	--	--	--	--
PATRIOT	7172	94	105	--	--	--	--	--	--
PATRIOT	7187	103	112	--	--	--	--	--	--
PATRIOT	7197	102	91	--	--	--	--	--	--
PFISTER	2652	97	109	105	98	102	--	--	--
PFISTER	2680	106	110	90	94	100	--	--	--
PIONEER	3237	109	120	--	--	--	--	--	--
PIONEER	32K61	111	118	--	--	--	--	--	--
PIONEER	3335	109	101	--	--	--	--	--	--
PIONEER	3346	--	--	151	--	--	--	--	--
PIONEER	34K77	--	--	143	--	--	--	--	--
PIONEER	3563	--	--	93	--	--	--	--	--
RENZE	6397	102	108	59	94	91	--	--	--
TRIUMPH	1141	--	98	--	--	--	--	--	--
TRIUMPH	1514	94	100	--	--	--	--	--	--
TRIUMPH	1522	--	104	--	--	--	--	--	--
WILSON	1792	95	105	--	--	--	--	--	--
WILSON	2330	100	102	--	--	--	--	--	--
WILSON	2335	103	104	--	--	--	--	--	--
WILSON	E975305	88	81	--	--	--	--	--	--
MATURITY CHECK	PIONEER 3162	88	110	82	96	94	--	--	--
MATURITY CHECK	SHORT - C4111	95	88	85	93	90	--	--	--
AVERAGES	(bushels/acre)	178	123	72	143	129	--	--	--
LSD(0.05)**		11	10	16	8	--	--	--	--

¹ DON = Doniphan Co. Test, Fuhrman Farms, Severance RED = Republic Co. Dryland Test, North Central Exp. Field, Belleville
 BRO = Brown Co. Test, Corbalt Exp. Field, Powhattan RIL = Riley Co. Test, Agronomy North Farm, Manhattan

² DY A = Differential Yielding Ability; average difference of hybrid yield compared to average of check hybrids in bushels per acre.

³ SE = Standard Error of DY A; measure of consistency of yield differences.

⁴ N = Number of tests where hybrid was compared with checks; DY A was calculated only for those with at least 5 comparisons.

^c Check hybrid; each hybrid compared to average yield of these check hybrids.

* Statistically significantly different from the average of the check hybrids, which = 0 (P < 0.5).

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

COUNTY: SHAWNEE

LOCATION: Kansas River Valley Experiment Field, Rossville

TEST SITE: Eudora silt loam

1996 CROP: Soybeans

1995 CROP: Corn

FERTILIZER (lbs/acre): 161 N 38 P₂O₅ 0 K₂O

PLANTING DATE: 4/21/97

HARVEST DATE: 9/18/97

COOPERATORS:

Larry Maddux, agronomist; Richard Fangman and William Riley, technicians

TARGET POPULATION: 30,000 plants/acre,

7.0 in. spacing

STAND (% of target): 100

YIELD: Average (bu/a): 199

Range (bu/a): 163 - 242

LSD (bu/a): 16

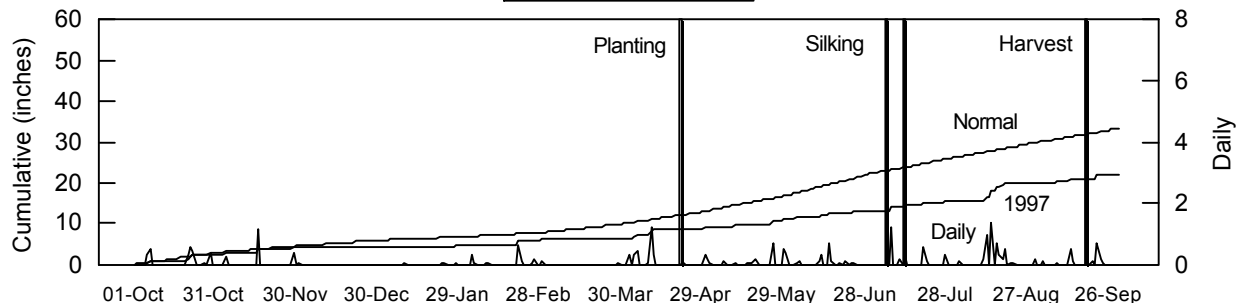
CV (%): 7

SILK DATES: 7/6/97 - 7/13/97

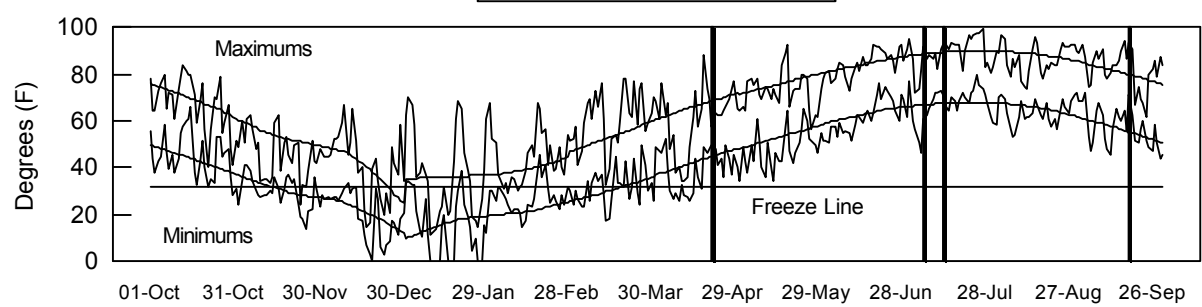
1997 GROWING CONDITONS:

Emergence and stands were good. Spring moisture was adequate. Summer precipitation was below normal, but temperatures were not excessive.

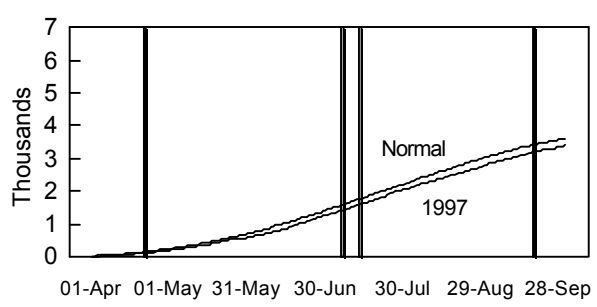
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	1997	Normal	1997	Normal	1997	Normal
April	3.1	3.2	50	55	203	259
May	2.1	3.9	61	65	384	450
June	1.5	5.3	74	74	717	737
July	2.6	4.0	78	79	825	855
August	4.6	3.6	75	77	717	769
Sept.	1.8	3.4	69	68	573	550
Season Totals	15.8	23.4	68	70	3419	3620

TABLE 6. SHAWNEE CO. IRRIGATED CORN PERFORMANCE TEST RESULTS, 1995-1997.

BRAND	NAME	ACRE YIELD, BUSHELS			YIELD AS % OF TEST			96-97		1997				Test Wt. lb/bu		
		1997	1996	1995	2-Yr. 3-Yr.		AVERAGE	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %			
					AVG.	AVG.									1997	1996
MATURITY CHECK	SHORT - C4111	170	--	--	--	--	85	--	--	--	--	76	15	104	0	59
DEKALB	DK595	186	--	--	--	--	93	--	--	--	--	76	17	93	0	58
CARGILL	6997	163	--	--	--	--	82	--	--	--	--	76	18	100	0	58
AGRIPRO	AP 9565	196	--	146	--	--	98	--	97	--	--	76	20	100	0	60
MYCOGEN	2725	195	--	--	--	--	98	--	--	--	--	76	20	102	0	59
MYCOGEN	7250	180	--	--	--	--	90	--	--	--	--	76	21	100	0	59
DEKALB	DK626	207	171	154	189	177	104	89	102	78	17	77	18	100	0	58
GOLDEN HARVEST	H-2547	177	--	--	--	--	89	--	--	--	--	77	21	102	0	59
MATURITY CHECK	PIONEER 3162	192	--	--	--	--	96	--	--	--	--	77	24	101	1	60
MATURITY CHECK	MID-H-2530	164	177	120	171	154	82	92	80	78	17	78	18	102	0	59
MSG (OHLDE)	O 331	197	194	159	196	183	99	101	106	79	19	78	20	100	0	59
GOLDEN HARVEST	H-2581	192	--	--	--	--	96	--	--	--	--	78	21	100	0	59
DEKALB	DK641	193	207	--	200	--	97	108	--	79	19	79	20	99	0	58
GARST	8366	185	--	--	--	--	93	--	--	--	--	79	20	99	0	59
HOEGEMEYER	2693	203	197	142	200	181	102	103	94	79	19	79	20	99	0	59
MSG (OHLDE)	G 8511	207	--	--	--	--	104	--	--	--	--	79	20	99	0	59
AGRIPRO	AP 9616	194	--	--	--	--	97	--	--	--	--	79	21	102	0	58
ASGROW	RX813	192	--	--	--	--	96	--	--	--	--	79	21	97	0	59
NC+	5445	189	--	--	--	--	95	--	--	--	--	79	21	103	0	59
CARGILL	7770	199	195	165	197	186	100	101	110	79	20	79	22	100	0	60
PIONEER	32J55	212	--	--	--	--	106	--	--	--	--	79	24	109	0	60
CARGILL	8011	208	--	--	--	--	104	--	--	--	--	80	20	100	0	59
MIDLAND	774	197	199	--	198	--	99	104	--	81	19	80	20	101	0	58
PIONEER	32K61	209	--	--	--	--	105	--	--	--	--	80	20	101	0	61
HOEGEMEYER	2682	199	184	--	191	--	100	96	--	81	20	80	21	101	0	58
MATURITY CHECK	FB73rhmxMO17	185	189	139	187	171	93	98	93	80	20	80	21	99	0	57
DELANGE	DS 1995	206	207	144	206	185	103	108	96	81	21	80	22	101	0	60
GARST	8396IT	196	--	--	--	--	98	--	--	--	--	80	23	98	0	58
NC+	7237	228	--	--	--	--	114	--	--	--	--	80	24	102	0	60
MATURITY CHECK	F-B73 X N204	174	173	134	173	160	87	90	89	80	23	80	26	98	0	59
GARST	N5250 EXP	233	--	--	--	--	117	--	--	--	--	81	22	98	0	58
HOEGEMEYER	2689	203	192	158	197	184	102	100	105	81	21	81	22	100	0	60
TERRA	TR1157	233	--	--	--	--	117	--	--	--	--	81	22	99	0	58
CARGILL	8311	229	--	--	--	--	115	--	--	--	--	81	23	104	0	58
PIONEER	3237	188	171	--	179	--	94	89	--	80	21	81	23	102	0	60
NC+	7117	212	--	152	--	--	107	--	101	--	--	81	24	97	0	60
TERRA	TR1185	193	--	--	--	--	97	--	--	--	--	81	25	98	1	58
TERRA	TR1176	214	--	--	--	--	107	--	--	--	--	81	25	102	0	59
MSG (OHLDE)	G 8771	234	207	--	220	--	117	108	--	82	20	82	21	103	0	58
MIDLAND	786	242	--	--	--	--	121	--	--	--	--	82	22	101	0	58
TERRA	TR702	198	--	--	--	--	99	--	--	--	--	82	24	99	0	59
MYCOGEN	8460	200	--	--	--	--	100	--	--	--	--	83	24	101	0	58
AVERAGES		199	192	150	196	180	199	192	150	80	20	79	21	100	0	59
CV(%)		7	6	8	--	--	7	6	8	--	--	1	5	4	290	1
LSD(0.05)**		16	16	19	--	--	8	9	13	--	--	1	1	4	NS	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

COUNTY: REPUBLIC

LOCATION: Irrigation Experiment Field, Scandia

TEST SITE: Crete silt loam

1996 CROP: Soybeans

1995 CROP: Corn

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

PLANTING DATE: 4/24/97

HARVEST DATE: 10/22/97

COOPERATORS:

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

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

STAND (% of target): 106

YIELD: Average (bu/a): 207

Range (bu/a): 158 - 238

LSD (bu/a): 17

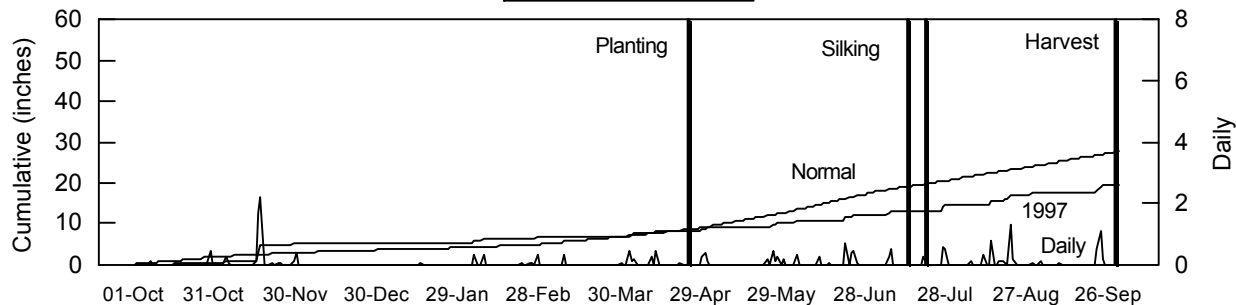
CV (%): 7

SILK DATES: 7/14/97 - 7/20/97

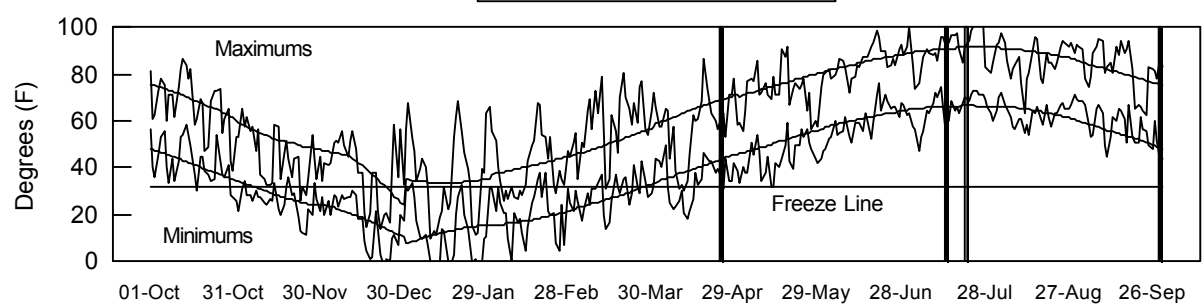
1997 GROWING CONDITONS:

Stands were excellent, but cool, dry conditions limited early growth. Below-normal moisture during the summer made frequent irrigation necessary. Warm, moist conditions late in the summer led to stalk rot problems. Two consecutive days in September with strong winds caused most of the lodging, which did not appear to be hybrid dependent.

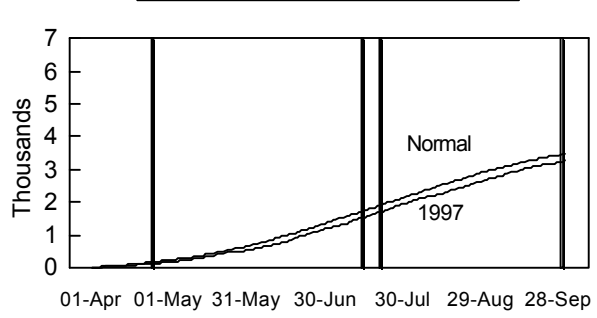
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	1997	Normal	1997	Normal	1997	Normal
April	2.0	2.4	46	53	173	242
May	1.2	3.7	59	64	360	427
June	2.2	4.8	74	74	691	718
July	2.1	3.3	78	79	800	835
August	2.9	3.3	75	77	703	748
Sept.	1.9	3.5	70	67	564	518
Season						
Totals	12.3	20.9	67	69	3290	3487

TABLE 7. REPUBLIC CO. IRRIGATED CORN PERFORMANCE TEST RESULTS, 1995-1997.

BRAND	NAME	ACRE YIELD, BUSHELS			YIELD AS % OF TEST			96-97		1997				Test Wt. lb/bu		
		1997	1996	1995	2-Yr. 3-Yr.		AVERAGE	Days to Silk	Grain Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %			
					AVG.	AVG.									1997	1996
MATURITY CHECK	SHORT - C4111	196	--	--	--	--	95	--	--	--	--	81	15	105	10	59
AGRIPRO	AP 9565	238	179	--	208	--	115	96	--	83	15	82	15	109	7	59
CARGILL	6997	212	--	--	--	--	103	--	--	--	--	82	15	106	7	59
DEKALB	DK595	222	--	--	--	--	108	--	--	--	--	82	15	104	9	59
GOLDEN HARVEST	H-2547	234	--	--	--	--	113	--	--	--	--	82	15	106	5	59
HAWKEYE	SX55	222	--	--	--	--	108	--	--	--	--	82	15	105	8	59
HPH	KS 5119	232	--	--	--	--	112	--	--	--	--	82	15	105	13	59
MILLER PREF.	MP-1134	215	--	--	--	--	104	--	--	--	--	82	15	108	8	59
MILLER PREF.	MP-1123	225	183	--	204	--	109	99	--	83	15	82	15	106	9	59
GARST	8342	227	196	--	212	--	110	106	--	83	15	83	15	104	9	59
MATURITY CHECK	FB73rhmxMO17	158	158	148	158	155	77	85	83	84	15	83	15	105	14	59
MSG (OHLDE)	G 7711	208	186	198	197	198	101	100	111	83	15	83	15	109	7	59
MYCOGEN	2725	220	--	--	--	--	106	--	--	--	--	83	15	106	7	59
PIONEER	32J55	220	--	--	--	--	107	--	--	--	--	83	15	106	9	60
AGRIPRO	AP 619	209	--	--	--	--	101	--	--	--	--	84	15	106	9	59
ASGROW	RX813	226	--	--	--	--	109	--	--	--	--	84	15	107	10	59
CARGILL	7770	227	192	--	210	--	110	104	--	84	15	84	15	107	10	60
DEKALB	DK715	221	202	201	211	208	107	109	113	85	16	84	15	104	8	58
DEKALB	DK641	231	193	--	212	--	112	104	--	84	15	84	15	105	8	59
DEKALB	DK632	237	--	--	--	--	115	--	--	--	--	84	15	106	10	59
GARST	8366	223	--	--	--	--	108	--	--	--	--	84	15	106	10	59
GOLDEN HARVEST	H-2581	228	--	196	--	--	110	--	110	--	--	84	15	106	10	59
HOEGEMEYER	2693	205	180	162	192	182	99	97	91	85	15	84	15	106	13	59
MATURITY CHECK	PIONEER 3162	196	--	--	--	--	95	--	--	--	--	84	15	109	12	60
MATURITY CHECK	MID-H-2530	199	166	171	182	178	96	89	96	84	15	84	15	106	10	59
MSG (OHLDE)	G 8699	188	--	--	--	--	91	--	--	--	--	84	15	105	16	59
MYCOGEN	7250	198	189	--	193	--	96	102	--	83	15	84	15	106	10	59
PIONEER	3237	201	201	--	201	--	97	108	--	85	15	84	15	107	11	60
CARGILL	8011	205	--	--	--	--	99	--	--	--	--	85	15	106	7	59
HOEGEMEYER	2682	189	179	--	184	--	91	96	--	86	15	85	15	106	9	59
MATURITY CHECK	F-B73 X N204	191	154	142	173	163	92	83	80	86	16	85	15	106	11	60
NC+	5445	217	--	--	--	--	105	--	--	--	--	85	15	105	8	59
NC+	5697	184	--	--	--	--	89	--	--	--	--	85	15	107	14	59
TERRA	TR1157	196	--	--	--	--	95	--	--	--	--	86	14	107	15	59
AGRIPRO	AP 9616	168	--	--	--	--	81	--	--	--	--	86	15	108	7	58
CARGILL	8311	192	--	--	--	--	93	--	--	--	--	86	15	105	10	59
HOEGEMEYER	2689	191	--	--	--	--	92	--	--	--	--	86	15	103	10	60
MIDLAND	774	213	--	--	--	--	103	--	--	--	--	86	15	107	12	59
MILLER PREF.	MP-1133	204	--	--	--	--	99	--	--	--	--	86	15	106	7	59
MSG (OHLDE)	G 8511	191	181	--	186	--	93	97	--	86	15	86	15	107	7	59
MSG (OHLDE)	G 8771	213	185	--	199	--	103	99	--	87	15	86	15	107	7	58
TERRA	TR1185	183	--	--	--	--	89	--	--	--	--	86	15	109	11	59
TERRA	TR1176	191	--	--	--	--	93	--	--	--	--	86	15	107	10	59
TERRA	TR702	174	--	--	--	--	84	--	--	--	--	86	15	107	16	58
MYCOGEN	8460	164	180	--	172	--	79	97	--	87	16	87	15	106	14	59
NC+	6959	190	--	--	--	--	92	--	--	--	--	87	15	108	6	59
PIONEER	32K61	236	--	--	--	--	114	--	--	--	--	87	15	106	10	60
AVERAGES		207	186	178	196	190	207	186	178	84	15	84	15	106	10	59
CV(%)		7	5	7	--	--	7	5	7	--	--	1	1	2	52	1
LSD(0.05)**		17	12	18	--	--	8	6	10	--	--	1	NS	NS	NS	1

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

TABLE 8. NORTHEASTERN KANSAS IRRIGATED CORN TEST YIELD SUMMARY, 1994-1997.

BRAND	NAME	1997 YIELD AS % OF TEST AVERAGE ¹			1994-1997		
		SHI	REI	AVG.	DYA (bu/a) ²	S.E. ³	N ⁴
DEKALB	DK715	--	107	--	36.4 *	4.2	4
MSG (OHLDE)	G 8771	117	103	110	35.2 *	7.4	4
DEKALB	DK641	97	112	104	31.8 *	6.5	4
CARGILL	7770	100	110	105	30.2 *	5.5	5
AGRIPRO	AP 9565	98	115	107	28.8 *	8.9	4
DEKALB	DK626	104	--	--	22.6 *	6.5	6
MSG (OHLDE)	O 331	99	--	--	20.8 *	4.2	6
HOEGEMEYER	2689	102	92	97	19.7 *	4.5	4
HOEGEMEYER	2693	102	99	101	17.0 *	3.6	6
PIONEER	3237	94	97	96	15.9	9.3	4
HOEGEMEYER	2682	100	91	96	13.1	4.3	4
c MATURITY CHECK	MID-H-2530	82	96	89	3.7	4.4	7
c MATURITY CHECK	FB73rhmxMO17	93	77	85	-1.6	4.6	6
MATURITY CHECK	F-B73 X N204	87	92	90	-3.0	4.0	6
AGRIPRO	AP 619	--	101	--	--	--	--
AGRIPRO	AP 9616	97	81	89	--	--	--
ASGROW	RX813	96	109	103	--	--	--
CARGILL	6997	82	103	92	--	--	--
CARGILL	8011	104	99	102	--	--	--
CARGILL	8311	115	93	104	--	--	--
DEKALB	DK595	93	108	100	--	--	--
DEKALB	DK632	--	115	--	--	--	--
DELANGE	DS 1995	103	--	--	--	--	--
MIDLAND	774	99	103	101	--	--	--
MIDLAND	786	121	--	--	--	--	--
GARST	8342	--	110	--	--	--	--
GARST	8366	93	108	100	--	--	--
GARST	8396IT	98	--	--	--	--	--
GARST	N5250 EXP	117	--	--	--	--	--
GOLDEN HARVEST	H-2547	89	113	101	--	--	--
GOLDEN HARVEST	H-2581	96	110	103	--	--	--
HAWKEYE	SX55	--	108	--	--	--	--
HPH	KS 5119	--	112	--	--	--	--
MILLER PREF.	MP-1123	--	109	--	--	--	--
MILLER PREF.	MP-1133	--	99	--	--	--	--
MILLER PREF.	MP-1134	--	104	--	--	--	--
MSG (OHLDE)	G 7711	--	101	--	--	--	--
MSG (OHLDE)	G 8511	104	93	98	--	--	--
MSG (OHLDE)	G 8699	--	91	--	--	--	--

(continued)

TABLE 8. NORTHEASTERN KANSAS IRRIGATED CORN TEST YIELD SUMMARY, 1994-1997.

BRAND	NAME	1997 YIELD AS % OF TEST AVERAGE ¹			1994-1997		
		SHI	REI	AVG.	DYA (bu/a) ²	S.E. ³	N ⁴
MYCOGEN	2725	98	106	102	--	--	--
MYCOGEN	7250	90	96	93	--	--	--
MYCOGEN	8460	100	79	90	--	--	--
NC+	5445	95	105	100	--	--	--
NC+	5697	--	89	--	--	--	--
NC+	6959	--	92	--	--	--	--
NC+	7117	107	--	--	--	--	--
NC+	7237	114	--	--	--	--	--
PIONEER	32J55	106	107	107	--	--	--
PIONEER	32K61	105	114	110	--	--	--
TERRA	TR1157	117	95	106	--	--	--
TERRA	TR1176	107	93	100	--	--	--
TERRA	TR1185	97	89	93	--	--	--
TERRA	TR702	99	84	92	--	--	--
MATURITY CHECK	PIONEER 3162	96	95	96	--	--	--
MATURITY CHECK	SHORT - C4111	85	95	90	--	--	--
AVERAGES	(bushels/acre)	199	207	203	--	--	--
LSD(0.05)**		8	8	--	--	--	--

¹ SHI =Shawnee Co. Test, KS River Valley Exp. Field, Topeka REI = Republic Co. Test, North Central Exp. Field, Scandia

² DYA = Differential Yielding Ability; average difference of hybrid yield compared to average of check hybrids in bushels per acre.

³ SE = Standard Error of DYA; measure of consistency of yield differences.

⁴ N = Number of tests where hybrid was compared with checks; DYA was calculated only for those with at least 4 comparisons.

^c Check hybrid; each hybrid compared to average yield of these check hybrids.

* Statistically significantly different from the average of the check hybrids, which = 0 (P < 0.5).

EAST CENTRAL KANSAS STANDARD CORN TEST ON SILTY CLAY LOAM

COUNTY: SHAWNEE

LOCATION: Foster farm 5 miles north of Rossville

TEST SITE: Wabash silty clay loam

1996 CROP: Soybeans

1995 CROP: Sorghum

FERTILIZER (lbs/acre): 137 N 38 P₂O₅ 0 K₂O

PLANTING DATE: 4/24/97

HARVEST DATE: 9/19/97

COOPERATORS:

Larry Maddux, agronomist; Richard Fangmand and William Riley, technicians

TARGET POPULATION: 22,000 plants/acre,

9.5 in. spacing

STAND (% of target): 98

YIELD: Average (bu/a): 89

Range (bu/a): 61 - 106

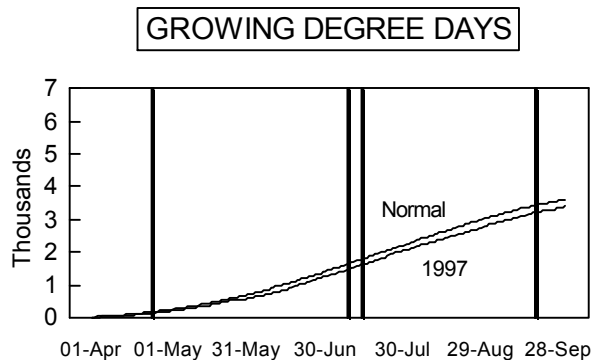
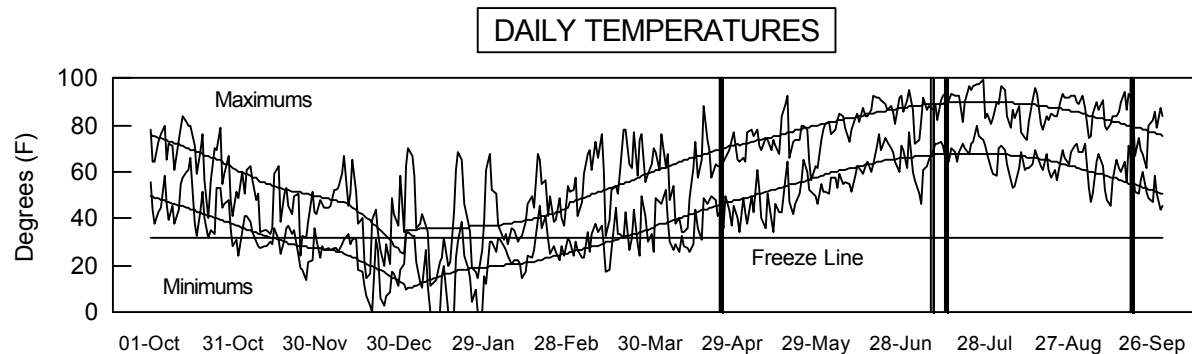
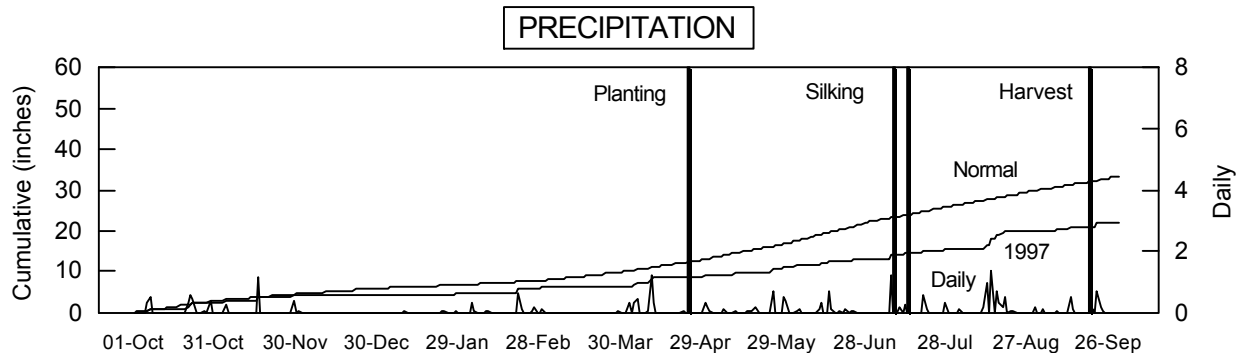
LSD (bu/a): 10

CV (%): 9

SILK DATES: 7/9/97 - 7/14/97

1997 GROWING CONDITONS:

Spring moisture was adequate and acceptable stands were achieved in most plots. Summer precipitation was below normal and apparently limited yields. Insect and disease damage was minimal.



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	1997	Normal	1997	Normal	1997	Normal
April	3.1	3.2	50	55	203	259
May	2.1	3.9	61	65	384	450
June	1.5	5.3	74	74	717	737
July	2.6	4.0	78	79	825	855
August	4.6	3.6	75	77	717	769
Sept.	1.8	3.4	69	68	573	550
Season						
Totals	15.8	23.4	68	70	3419	3620

TABLE 9. SHAWNEE CO. DRYLAND CORN PERFORMANCE TEST RESULTS, 1994-1997.

BRAND	NAME	ACRE YIELD, BUSHELS						YIELD AS % OF TEST			96-97		1997				Test Wt. lb/bu
		1997	1996	1994	2-Yr. 3-Yr.		AVERAGE			Days to Silk	Grain to Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %		
					AVG.	AVG.	1997	1996	1994								
MATURITY CHECK	SHORT - C4111	61	--	--	--	--	69	--	--	--	--	76	15	97	11	56	
PREMIUM	P230	78	--	--	--	--	88	--	--	--	--	76	15	93	2	58	
NK	N7590	84	--	--	--	--	95	--	--	--	--	77	18	97	0	57	
CARGILL	7770	78	--	--	--	--	88	--	--	--	--	77	20	97	0	58	
MATURITY CHECK	MID-H-2530	71	141	73	106	95	80	86	54	80	15	78	14	94	0	57	
DEKALB	DK626	84	175	162	130	141	95	107	119	80	15	78	15	96	1	56	
MYCOGEN	2725	76	--	--	--	--	86	--	--	--	--	78	16	99	2	58	
DEKALB	DK641	92	--	--	--	--	104	--	--	--	--	78	18	96	0	58	
PIONEER	3335	91	--	--	--	--	103	--	--	--	--	78	18	114	1	59	
MATURITY CHECK	FB73rhmXMO17	89	169	--	129	--	101	104	--	80	18	78	19	97	1	56	
MIDLAND	774	91	--	--	--	--	103	--	--	--	--	78	19	96	0	58	
NC+	5697	96	--	--	--	--	108	--	--	--	--	78	19	97	1	58	
MATURITY CHECK	PIONEER 3162	78	--	--	--	--	89	--	--	--	--	78	20	95	2	59	
MATURITY CHECK	F-B73 X N204	72	147	--	109	--	82	90	--	80	19	78	20	103	0	59	
NC+	5445	94	--	--	--	--	106	--	--	--	--	78	20	98	0	59	
PATRIOT	6168	87	--	--	--	--	99	--	--	--	--	78	20	98	1	58	
PATRIOT	7197	84	--	--	--	--	95	--	--	--	--	78	21	97	2	59	
GOLDEN HARVEST	H-2581	97	173	--	135	--	109	106	--	79	20	78	22	100	0	59	
ASGROW	RX813	94	--	--	--	--	106	--	--	--	--	79	20	97	0	58	
CARGILL	8311	106	--	--	--	--	120	--	--	--	--	79	22	98	0	57	
TERRA	TR1176	90	--	--	--	--	102	--	--	--	--	79	24	101	1	58	
PIONEER	32K61	95	--	--	--	--	108	--	--	--	--	80	19	98	0	61	
CARGILL	8011	79	--	--	--	--	89	--	--	--	--	80	21	96	0	58	
PIONEER	3237	90	--	--	--	--	101	--	--	--	--	80	21	96	0	59	
NK	4662	86	--	--	--	--	97	--	--	--	--	80	22	97	0	59	
ASGROW	RX897	98	--	--	--	--	111	--	--	--	--	80	24	92	0	58	
NC+	6959	101	--	--	--	--	114	--	--	--	--	80	24	96	2	58	
MYCOGEN	2888	101	--	--	--	--	114	--	--	--	--	80	25	100	0	58	
TERRA	TR1157	97	--	--	--	--	110	--	--	--	--	80	25	97	1	57	
DELANGÉ	DS 1995	94	--	--	--	--	106	--	--	--	--	80	27	96	0	59	
PATRIOT	7172	95	--	--	--	--	107	--	--	--	--	81	25	100	0	57	
TERRA	TR1185	103	--	--	--	--	117	--	--	--	--	81	25	96	0	57	
TERRA	TR702	87	--	--	--	--	98	--	--	--	--	81	27	99	0	58	
AVERAGES		89	163	136	126	129	89	163	136	80	19	79	21	98	1	58	
CV(%)		9	7	11	--	--	9	7	11	--	--	2	10	5	206	1	
LSD(0.05)**		10	14	22	--	--	11	9	16	--	--	2	2	5	2	1	

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

EAST CENTRAL KANSAS STANDARD CORN TEST ON UPLAND SILT LOAM SOIL

COUNTY: FRANKLIN

LOCATION: East Central Kansas Experiment Field, Ottawa

TEST SITE: Woodson silt loam

1996 CROP: Soybeans

1995 CROP: Corn

FERTILIZER (lbs/acre): 70 N 0 P₂O₅ 0 K₂O

PLANTING DATE: 5/1/97

HARVEST DATE: 10/6/97

COOPERATORS:

Keith Janssen, agronomist

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

STAND (% of target): 108

YIELD: Average (bu/a): 155

Range (bu/a): 133 - 175

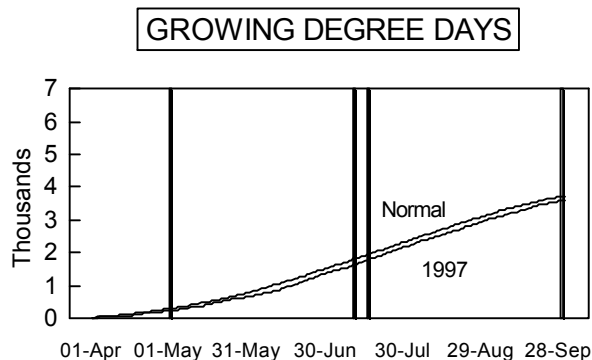
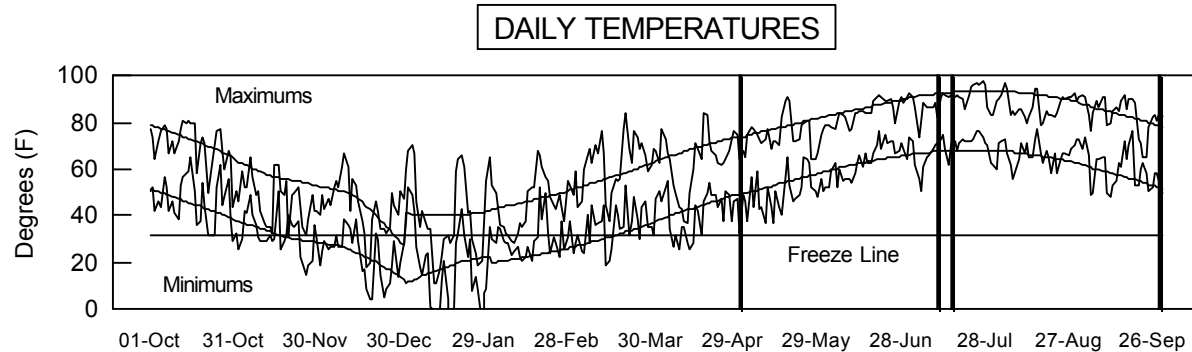
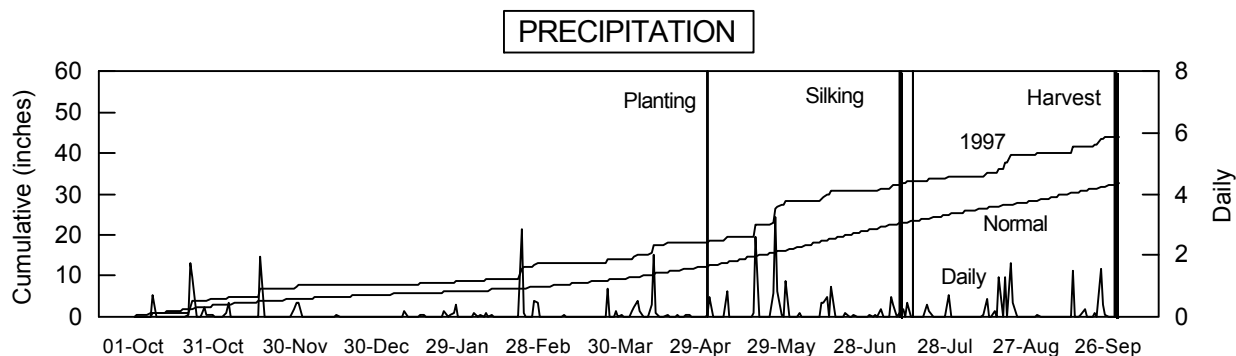
LSD (bu/a): 15

CV (%): 8

SILK DATES: 7/11/97 - 7/15/97

1997 GROWING CONDITIONS:

Good stands and hot, humid weather during the summer resulted in excellent yields. Some stalks broke off above the ear during a wind and hail storm on July 13, but little long-term damage resulted.



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	1997	Normal	1997	Normal	1997	Normal
April	3.8	3.0	52	57	237	300
May	10.3	4.1	63	66	419	485
June	2.7	5.0	75	75	735	750
July	3.4	3.9	79	80	859	859
August	5.6	3.1	77	79	770	774
Sept.	3.9	4.1	71	70	623	597
Season Totals	29.6	23.3	69	71	3641	3765

TABLE 10. FRANKLIN CO. CORN PERFORMANCE TEST RESULTS, 1995-1997.

BRAND	NAME	ACRE YIELD, BUSHELS			YIELD AS % OF TEST			96-97		1997				Test Wt. lb/bu		
		1997	1996	1995	2-Yr. 3-Yr.		AVERAGE	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %			
					AVG.	AVG.									1997	1996
MATURITY CHECK	SHORT - C4111	140	--	--	--	--	90	--	--	--	71	13	109	1	59	
TERRA	TR1157	140	--	--	--	--	90	--	--	--	71	16	107	0	58	
MATURITY CHECK	MID-H-2530	151	146	105	149	134	98	94	102	72	15	72	14	114	1	58
PIONEER	3335	160	--	--	--	--	103	--	--	--	--	72	14	112	0	60
CARGILL	7770	174	165	--	169	--	112	107	--	73	17	72	15	111	2	60
CARGILL	8011	166	--	--	--	--	107	--	--	--	--	72	15	105	1	58
DEKALB	DK626	163	155	114	159	144	105	100	110	72	16	72	15	112	8	59
DEKALB	DK641	168	161	--	164	--	109	104	--	72	17	72	15	112	2	59
GARST	8325	150	--	--	--	--	97	--	--	--	--	72	15	110	1	59
GARST	8366	168	--	--	--	--	109	--	--	--	--	72	15	108	3	58
MSG (OHLDE)	O 331	154	158	122	156	145	100	102	118	72	17	72	15	106	7	59
MYCOGEN	2725	169	--	--	--	--	109	--	--	--	--	72	15	113	3	60
NC+	5445	164	168	--	166	--	106	109	--	73	17	72	15	107	1	59
GOLDEN HARVEST	H-2581	166	164	105	165	145	107	106	102	72	17	72	16	113	1	59
HOEGEMEYER	2693	171	159	94	165	142	111	103	92	72	17	72	16	113	5	59
MATURITY CHECK	FB73rhmxMO17	160	147	80	153	129	103	95	77	72	18	72	16	105	3	59
MATURITY CHECK	PIONEER 3162	171	--	--	--	--	110	--	--	--	--	72	16	111	1	60
PATRIOT	7172	133	--	--	--	--	86	--	--	--	--	72	16	107	1	58
ASGROW	RX813	157	--	--	--	--	102	--	--	--	--	73	16	107	1	59
HOEGEMEYER	2689	144	151	83	147	126	93	98	80	73	18	73	16	102	0	60
NC+	5007	134	--	--	--	--	86	--	--	--	--	73	16	98	9	57
NK	N7590	156	154	122	155	144	101	99	119	73	17	73	16	107	1	59
PATRIOT	7197	152	--	--	--	--	98	--	--	--	--	73	16	118	3	61
MATURITY CHECK	F-B73 X N204	150	133	71	142	118	97	86	69	73	19	73	17	98	5	60
NK	4662	158	--	--	--	--	102	--	--	--	--	74	15	120	1	60
PIONEER	32K61	165	--	--	--	--	107	--	--	--	--	74	15	115	2	63
CARGILL	8311	150	--	--	--	--	97	--	--	--	--	74	16	108	0	58
DEKALB	DK668	150	134	109	142	131	97	87	106	75	18	74	16	105	1	59
DELANGE	DS 1997	158	--	--	--	--	102	--	--	--	--	74	16	99	1	59
HOEGEMEYER	2682	153	--	--	--	--	99	--	--	--	--	74	16	106	0	58
LEWIS	8356	136	152	--	144	--	88	98	--	75	18	74	16	106	1	58
MSG (OHLDE)	G 8771	151	158	--	155	--	97	102	--	76	18	74	16	114	1	58
MSG (OHLDE)	G 8699	171	--	--	--	--	111	--	--	--	--	74	16	113	3	59
PATRIOT	6168	130	--	--	--	--	84	--	--	--	--	74	16	114	0	59
PIONEER	3237	175	--	--	--	--	113	--	--	--	--	74	16	114	5	60
TERRA	TR1176	148	--	--	--	--	96	--	--	--	--	74	16	110	1	60
TRIUMPH	2010	148	159	--	153	--	96	103	--	75	18	74	16	97	2	58
MYCOGEN	2888	135	--	--	--	--	87	--	--	--	--	74	17	115	4	59
TERRA	TR1185	159	--	--	--	--	103	--	--	--	--	74	17	101	5	58
DELANGE	DS 1995	150	149	77	149	125	97	96	75	77	18	75	16	97	1	59
LEWIS	6294	150	175	--	163	--	97	113	--	76	18	75	16	113	4	58
TERRA	TR702	151	--	--	--	--	98	--	--	--	--	75	18	105	0	58
ASGROW	RX897	158	--	--	--	--	102	--	--	--	--	76	16	111	1	59
AVERAGES		155	155	103	155	138	155	155	103	73	17	73	16	108	2	59
CV(%)		8	8	10	--	--	8	8	10	--	--	2	2	6	141	1
LSD(0.05)**		15	15	21	--	--	9	10	21	--	--	1	1	7	4	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

COUNTY: NEOSHO

LOCATION: Private farm south of Erie

TEST SITE: Lanton silt loam

1996 CROP: Corn

1995 CROP: Soybeans

FERTILIZER (lbs/acre): 180 N 40 P₂O₅ 40 K₂O

PLANTING DATE: 4/22/97

HARVEST DATE: 9/22/97

COOPERATORS:

James Long, agronomist

TARGET POPULATION: 24,000 plants/acre,

8.7 in. spacing

STAND (% of target): 99

YIELD: Average (bu/a): 209

Range (bu/a): 181 - 240

LSD (bu/a): 21

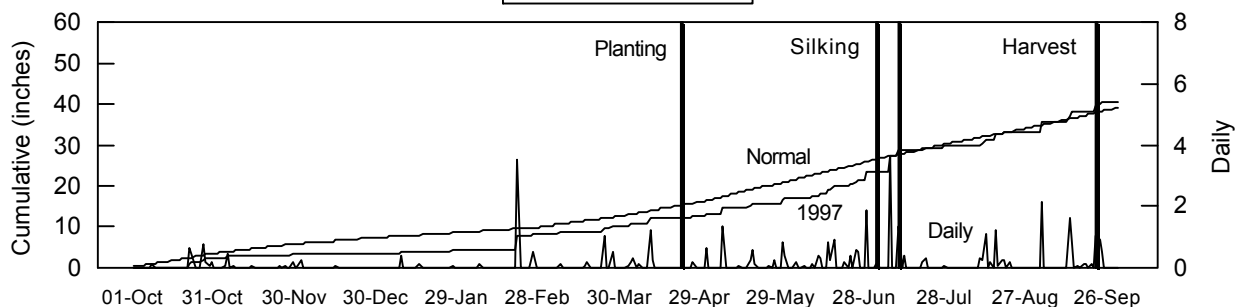
CV (%): 8

SILK DATES: 7/3/97 - 7/11/97

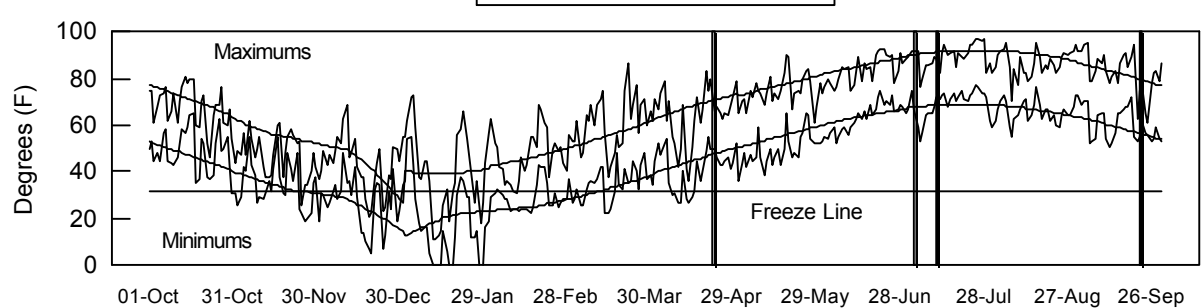
1997 GROWING CONDITONS:

Seedling establishment was difficult, resulting in uneven stands in some plots. Growing conditions were excellent for most of the season. Rainfall was adequate with no flooding. Grasshoppers and European corn borers caused some damage, but it was likely too late in the season to have a significant effect on yields.

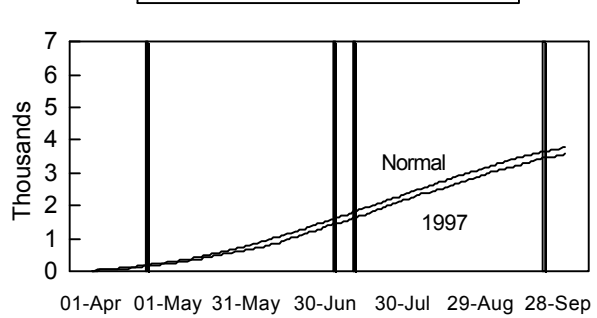
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	1997	Normal	1997	Normal	1997	Normal
April	3.0	3.7	53	57	246	289
May	3.8	4.8	63	66	413	491
June	6.5	5.1	74	75	718	761
July	6.1	4.5	79	80	863	873
August	3.7	3.9	76	78	753	785
Sept.	7.4	4.5	71	70	609	605
Season Totals	30.5	26.4	69	71	3601	3804

TABLE 11. NEOSHO CO. CORN PERFORMANCE TEST RESULTS, 1994-1997.

BRAND	NAME	ACRE YIELD, BUSHELS			YIELD AS % OF TEST AVERAGE			96-97		1997				Test Wt. lb/bu		
		1997	1996	1994	2-Yr. AVG.	3-Yr. AVG.	1997	1996	1994	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %		Final Stand %	Ldg %
PIONEER	34K77	208	--	--	--	--	99	--	--	--	--	72	17	106	1	58
MATURITY CHECK	SHORT - C4111	181	--	--	--	--	87	--	--	--	--	73	16	108	1	58
MATURITY CHECK	MID-H-2530	199	157	167	178	174	95	89	90	77	15	74	16	90	2	56
PIONEER	3394	226	180	207	203	204	108	103	112	77	15	74	16	111	1	58
PIONEER	3563	187	--	--	--	--	89	--	--	--	--	74	16	100	0	58
MYCOGEN	7250	210	187	--	199	--	100	106	--	76	16	74	17	95	0	57
NK	N7590	216	165	--	191	--	103	94	--	77	17	74	17	100	2	56
DEKALB	DK626	223	161	--	192	--	106	91	--	78	16	75	17	98	1	56
GOLDEN HARVEST	H-2581	196	170	--	183	--	94	97	--	78	16	75	17	96	1	54
TRIUMPH	1522	233	179	--	206	--	111	102	--	78	16	75	17	101	3	57
CARGILL	7770	216	163	--	190	--	103	93	--	78	18	75	18	103	1	57
MATURITY CHECK	PIONEER 3162	222	--	--	--	--	106	--	--	--	--	75	18	104	1	58
DEKALB	DK641	225	199	--	212	--	108	113	--	78	16	76	17	102	2	57
NC+	6387	216	--	--	--	--	103	--	--	--	--	76	17	95	1	58
ASGROW	RX813	207	--	--	--	--	99	--	--	--	--	76	18	99	0	57
GARST	8325	193	185	--	189	--	92	105	--	78	17	76	18	99	0	55
MATURITY CHECK	FB73rhmxMO17	189	196	--	192	--	90	111	--	78	17	76	18	100	14	56
TRIUMPH	2010	215	181	192	198	196	103	103	104	78	17	76	18	102	1	56
MATURITY CHECK	F-B73 X N204	187	167	--	177	--	89	95	--	78	18	76	19	97	11	57
NC+	5007	240	--	--	--	--	115	--	--	--	--	76	19	99	0	55
CARGILL	8011	198	--	--	--	--	95	--	--	--	--	77	17	87	1	55
DELANGE	DS 1995	184	184	219	184	196	88	105	118	79	16	77	17	92	0	57
MYCOGEN	2868	195	185	198	190	193	93	105	107	80	17	77	17	92	5	55
PATRIOT	6168	205	--	--	--	--	98	--	--	--	--	77	18	97	2	56
TERRA	TR1185	218	197	204	208	206	104	112	110	80	18	77	19	91	7	55
DELANGE	DS 1997	226	--	--	--	--	108	--	--	--	--	78	17	104	2	53
ASGROW	RX897	212	--	--	--	--	101	--	--	--	--	78	18	93	1	56
CARGILL	8311	218	--	--	--	--	104	--	--	--	--	78	18	97	1	56
MYCOGEN	2888	233	--	--	--	--	111	--	--	--	--	78	18	103	2	56
PATRIOT	7197	220	--	--	--	--	105	--	--	--	--	78	18	107	3	58
PATRIOT	7172	203	--	--	--	--	97	--	--	--	--	78	18	96	6	55
TERRA	TR1176	222	--	--	--	--	106	--	--	--	--	78	18	107	2	55
NK	4662	211	--	--	--	--	101	--	--	--	--	79	18	94	1	55
TERRA	TR702	199	--	204	--	--	95	--	110	--	--	79	19	92	4	53
TERRA	TR1157	193	183	--	188	--	92	104	--	81	17	80	18	93	5	56
AVERAGES		209	176	185	193	190	209	176	185	78	17	76	18	99	2	56
CV(%)		8	8	6	--	--	8	8	6	--	--	2	3	10	182	2
LSD(0.05)**		21	16	15	--	--	10	9	8	--	--	2	1	NS	5	2

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

TABLE 12. EASTERN KANSAS CORN TEST YIELD SUMMARY, 1994-1997.

BRAND	NAME	1997 YIELD AS % OF TEST AVERAGE ¹				1994-1997		
		SHD	FRA	NEO	AVG.	DYA (bu/a) ²	S.E. ³	N ⁴
TRIUMPH	1522	--	--	111	--	22.4	8.7	4
TERRA	TR1185	117	103	104	108	22.1 *	4.9	5
PIONEER	3394	--	--	108	--	20.9 *	5.0	6
DEKALB	DK641	104	109	108	107	18.7 *	3.3	5
DEKALB	DK626	95	105	106	102	16.2	6.9	8
MSG (OHLDE)	O 331	--	100	--	--	13.7	5.5	4
MYCOGEN	2868	--	--	93	--	13.1	5.3	5
TERRA	TR702	98	98	95	97	11.7	7.9	4
GOLDEN HARVEST	H-2581	109	107	94	103	10.0 *	3.2	7
ASGROW	RX897	111	102	101	105	9.6	4.3	4
CARGILL	7770	88	112	103	101	8.8	6.3	5
NK	N7590	95	101	103	100	8.8	5.6	6
TRIUMPH	2010	--	96	103	--	8.3	4.9	7
NC+	5445	106	106	--	--	7.7	6.8	4
DELANGE	DS 1995	106	97	88	97	5.6	7.0	8
c MATURITY CHECK	FB73rhmxMO17	101	103	90	98	4.2	3.9	7
TERRA	TR1157	110	90	92	98	2.1	6.0	4
c MATURITY CHECK	MID-H-2530	80	98	95	91	-6.5	4.0	10
MATURITY CHECK	F-B73 X N204	82	97	89	89	-10.3 *	2.0	7
ASGROW	RX813	106	102	99	102	--	--	--
CARGILL	8011	89	107	95	97	--	--	--
CARGILL	8311	120	97	104	107	--	--	--
DEKALB	DK668	--	97	--	--	--	--	--
DELANGE	DS 1997	--	102	108	--	--	--	--
MIDLAND	774	103	--	--	--	--	--	--
GARST	8325	--	97	92	--	--	--	--
GARST	8366	--	109	--	--	--	--	--
HOEGEMEYER	2682	--	99	--	--	--	--	--
HOEGEMEYER	2689	--	93	--	--	--	--	--
HOEGEMEYER	2693	--	111	--	--	--	--	--
LEWIS	6294	--	97	--	--	--	--	--
LEWIS	8356	--	88	--	--	--	--	--
MSG (OHLDE)	G 8699	--	111	--	--	--	--	--
MSG (OHLDE)	G 8771	--	97	--	--	--	--	--
MYCOGEN	2725	86	109	--	--	--	--	--
MYCOGEN	2888	114	87	111	104	--	--	--
MYCOGEN	7250	--	--	100	--	--	--	--
NC+	5007	--	86	115	--	--	--	--
NC+	5697	108	--	--	--	--	--	--

(continued)

TABLE 12. EASTERN KANSAS CORN TEST YIELD SUMMARY, 1994-1997.

BRAND	NAME	1997 YIELD AS % OF TEST AVERAGE ¹				1994-1997		
		SHD	FRA	NEO	AVG.	DYA (bu/a) ²	S.E. ³	N ⁴
NC+	6387	--	--	103	--	--	--	--
NC+	6959	114	--	--	--	--	--	--
NK	4662	97	102	101	100	--	--	--
PATRIOT	6168	99	84	98	94	--	--	--
PATRIOT	7172	107	86	97	97	--	--	--
PATRIOT	7197	95	98	105	100	--	--	--
PIONEER	3237	101	113	--	--	--	--	--
PIONEER	32K61	108	107	--	--	--	--	--
PIONEER	3335	103	103	--	--	--	--	--
PIONEER	34K77	--	--	99	--	--	--	--
PIONEER	3563	--	--	89	--	--	--	--
PREMIUM	P230	88	--	--	--	--	--	--
TERRA	TR1176	102	96	106	101	--	--	--
MATURITY CHECK	PIONEER 3162	89	110	106	102	--	--	--
MATURITY CHECK	SHORT - C4111	69	90	87	82	--	--	--
AVERAGES	(bushels/acre)	89	155	209	151	--	--	--
LSD(0.05)**		11	9	10	--	--	--	--

¹ SHD =Shawnee Co. Test, KS River Valley Exp. Field, Rossville

FRA = Franklin Co. Test, East Central Exp. Field, Ottawa

NEO = Neosho Co. Test, Farmer's Field, Erie

² DYA = Differential Yielding Ability; average difference of hybrid yield compared to average of check hybrids in bushels per acre.

³ SE = Standard Error of DYA; measure of consistency of yield differences.

⁴ N = Number of tests where hybrid was compared with checks; DYA was calculated only for those with at least 4 comparisons.

^c Check hybrid; each hybrid compared to average yield of these check hybrids.

* Statistically significantly different from the average of the check hybrids, which = 0 (P < 0.5).

NORTHWESTERN KANSAS STANDARD CORN TEST, NO-TILL DRYLAND

COUNTY: THOMAS

LOCATION: Northwest Research-Extension Center, Colby

TEST SITE: Keith silt loam

1996 CROP: Wheat

1995 CROP: Fallow

FERTILIZER (lbs/acre): 110 N 20 P₂O₅ 0 K₂O

PLANTING DATE: 4/29/97

HARVEST DATE: 10/11/97

COOPERATORS:

Patrick Evans, agronomist

TARGET POPULATION: 15,000 plants/acre,
13.9 in. spacing

STAND (% of target): 93

YIELD: Average (bu/a): 87

Range (bu/a): 64 - 114

LSD (bu/a): 18

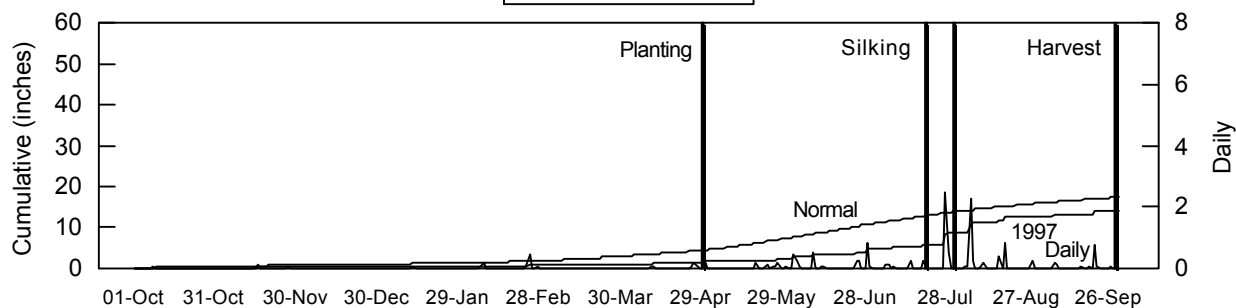
CV (%): 17

SILK DATES: 7/21/97 - 7/31/97

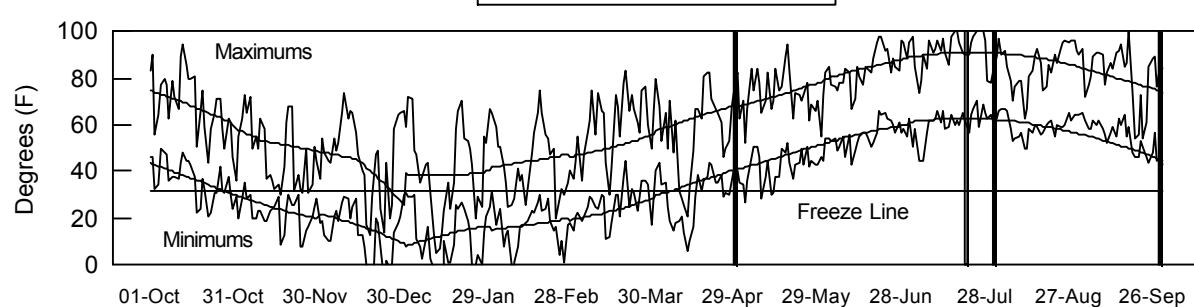
1997 GROWING CONDITONS:

Dry planting conditions resulted in uneven emergence and reduced stands. Dry conditions continued until late July. Spider mites and corn ear worms were noted late in the season. Animal pests destroyed some ears and increased variability slightly. Yield differences, although somewhat variable, reflect expected performance based on season-long observations.

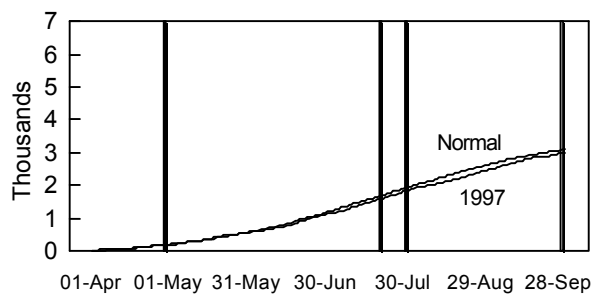
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	1997	Normal	1997	Normal	1997	Normal
April	0.6	1.5	44	50	197	209
May	0.6	2.9	58	60	343	353
June	2.7	3.6	70	71	595	631
July	3.7	3.1	76	77	732	775
August	4.3	2.0	72	74	621	683
Sept.	1.2	1.6	68	65	528	466
Season Totals	12.9	14.6	65	66	3015	3116

TABLE 13. THOMAS CO. DRYLAND CORN PERFORMANCE TEST RESULTS, 1995-1997.

BRAND	NAME	ACRE YIELD, BUSHEL						YIELD AS % OF TEST AVERAGE			96-97		1997		Test Wt. lb/bu	
		1997	1996	1995	2-Yr.	3-Yr.	1997	1996	1995	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %		Ldg %
					AVG.	AVG.										
AGRIPRO	AP 9489	86	--	--	--	--	99	--	--	--	--	83	14	90	2	58
OTILIE	2453	89	120	--	105	--	102	104	--	83	15	84	14	99	5	58
PIONEER	3568	70	111	--	91	--	80	96	--	83	15	84	14	89	2	58
GREAT LAKES	GL 5715	90	--	--	--	--	104	--	--	--	--	86	14	97	2	59
MATURITY CHECK	SHORT - C4111	71	--	--	--	--	81	--	--	--	--	86	14	93	7	58
CARGILL	6997	82	--	--	--	--	95	--	--	--	--	86	16	98	11	57
DEKALB	DK569	78	--	--	--	--	89	--	--	--	--	87	14	85	5	56
PIONEER	3489	98	127	70	112	98	113	109	126	87	15	87	14	96	3	59
GREAT LAKES	GL 5849	97	--	--	--	--	111	--	--	--	--	87	15	92	5	58
AGRIPRO	AP 9565	89	--	--	--	--	102	--	--	--	--	87	16	97	7	57
MYCOGEN	2689	64	127	--	95	--	74	109	--	87	17	88	16	82	10	57
NC+	4880	89	--	--	--	--	102	--	--	--	--	89	16	93	7	56
NC+	4616	72	113	--	93	--	82	98	--	88	18	89	16	86	5	57
MATURITY CHECK	MID-H-2530	83	124	61	103	89	95	107	110	89	16	90	14	98	4	55
OTILIE	5460	102	--	--	--	--	117	--	--	--	--	90	16	92	11	56
CARGILL	7770	114	--	--	--	--	131	--	--	--	--	90	17	91	1	57
MATURITY CHECK	PIONEER 3162	90	--	--	--	--	103	--	--	--	--	90	19	88	4	57
MATURITY CHECK	F-B73 X N204	98	129	40	113	89	112	111	73	90	20	91	18	94	10	56
BO-JAC	544	88	--	--	--	--	101	--	--	--	--	92	16	103	11	54
ASGROW	RX813	92	--	--	--	--	105	--	--	--	--	92	17	96	6	57
MATURITY CHECK	FB73rhmxMO17	86	99	55	93	80	99	85	99	90	21	92	18	95	16	54
BO-JAC	415	81	--	--	--	--	92	--	--	--	--	93	17	92	5	54
BO-JAC	614	97	--	--	--	--	111	--	--	--	--	93	18	86	14	54
AVERAGES		87	116	55	102	86	87	116	55	87	18	89	16	93	7	57
CV(%)		17	9	12	--	--	17	9	12	--	--	2	5	10	72	1
LSD(0.05)**		18	13	8	--	--	20	11	15	--	--	2	1	NS	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, NO-TILL DRYLAND

COUNTY: GREELEY

LOCATION: Southwest Research-Extension Center, Tribune

TEST SITE: Ulysses & Colby silt loam

1996 CROP: Wheat

1995 CROP: Fallow

FERTILIZER (lbs/acre): 60 N 0 P₂O₅ 0 K₂O

PLANTING DATE: 5/5/97

HARVEST DATE: 10/10/97

COOPERATORS:

Alan Schlegel

TARGET POPULATION: 15,000 plants/acre,
13.9 in. spacing

STAND (% of target): 120

YIELD: Average (bu/a): 150

Range (bu/a): 111 - 171

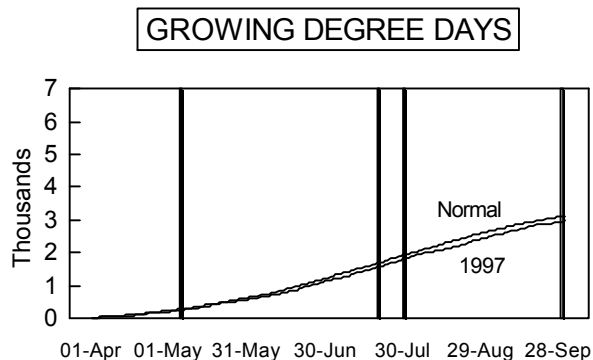
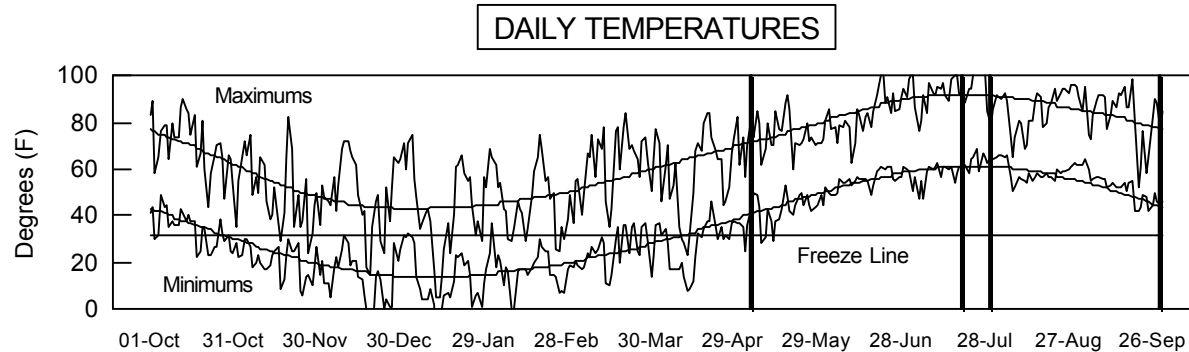
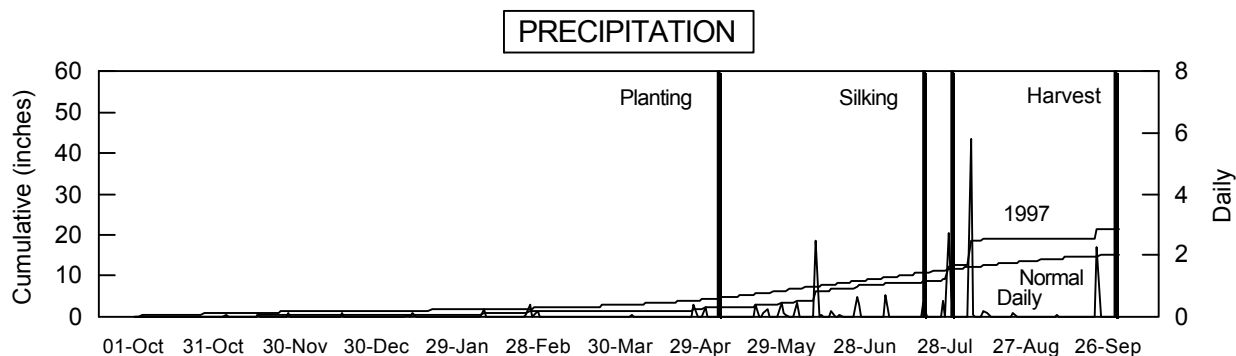
LSD (bu/a): 16

CV (%): 9

SILK DATES: 7/21/97 - 7/29/97

1997 GROWING CONDITIONS:

Planting conditions were favorable at this location and resulted in excellent stands. A July 5 hailstorm caused little lasting damage. Timely rainfall helped to produce excellent dryland yields for this part of Kansas.



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	1997	Normal	1997	Normal	1997	Normal
April	0.7	1.4	44	50	204	242
May	1.3	2.3	58	60	364	381
June	4.2	2.6	70	71	581	619
July	5.1	2.5	76	76	727	746
August	6.3	2.1	72	74	613	668
Sept.	2.3	1.3	67	65	502	490
Season Totals	19.9	12.3	65	66	2989	3144

TABLE 14. GREELEY CO. DRYLAND CORN PERFORMANCE TEST RESULTS, 1994-1997.

BRAND	NAME	ACRE YIELD, BUSHEL						YIELD AS % OF TEST			95-97		1997		Test Wt. lb/bu	
		1997	1995	1994	2-Yr. 3-Yr.		AVERAGE			Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %		Ldg %
					AVG.	AVG.	1997	1995	1994							
GREAT LAKES	GL 5715	111	--	--	--	--	74	--	--	--	--	77	17	110	0	58
PIONEER	3568	120	--	--	--	--	80	--	--	--	--	77	17	109	0	57
OTILIE	2453	142	--	--	--	--	95	--	--	--	--	77	18	119	0	56
NC+	1585	137	--	--	--	--	91	--	--	--	--	78	15	123	1	57
MATURITY CHECK	SHORT - C4111	128	--	--	--	--	86	--	--	--	--	78	17	118	3	58
CARGILL	6997	141	--	--	--	--	94	--	--	--	--	78	21	121	2	53
OTILIE	5460	160	--	--	--	--	107	--	--	--	--	79	23	121	13	53
PIONEER	3489	155	42	--	99	--	103	139	--	73	--	80	18	128	2	57
GREAT LAKES	GL 5849	145	--	--	--	--	97	--	--	--	--	80	20	120	0	55
MYCOGEN	2689	161	--	--	--	--	107	--	--	--	--	80	22	124	0	54
MATURITY CHECK	MID-H-2530	140	27	82	84	83	93	89	92	74	--	81	20	117	0	54
NC+	4616	164	--	--	--	--	110	--	--	--	--	81	21	129	0	54
MATURITY CHECK	PIONEER 3162	153	--	--	--	--	102	--	--	--	--	81	25	128	1	54
CARGILL	7770	169	--	--	--	--	113	--	--	--	--	82	23	124	3	54
MATURITY CHECK	FB73rhmxMO17	170	25	--	97	--	113	82	--	75	--	82	27	119	2	52
ASGROW	RX813	164	--	--	--	--	109	--	--	--	--	83	24	119	0	53
MATURITY CHECK	F-B73 X N204	146	20	--	83	--	97	66	--	77	--	83	29	116	2	51
BO-JAC	415	171	--	--	--	--	114	--	--	--	--	84	23	124	4	52
BO-JAC	544	150	--	--	--	--	100	--	--	--	--	84	26	113	1	50
BO-JAC	614	170	--	--	--	--	113	--	--	--	--	85	28	125	0	51
AVERAGES		150	31	89	90	90	150	31	100	74	--	80	22	120	2	54
CV(%)		9	24	9	--	--	9	24	10	--	--	1	5	6	118	1
LSD(0.05)**		16	9	10	--	--	11	29	11	--	--	1	1	9	2	1

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

TABLE 15. WESTERN KANSAS DRYLAND CORN TEST YIELD SUMMARY, 1994-1997.

BRAND	NAME	1997 YIELD AS % OF TEST AVERAGE ¹			1994-1997		
		THD	GRD	AVG.	DYA (bu/a) ²	S.E. ³	N ⁴
PIONEER	3489	113	103	108	11.5 *	2.6	5
c MATURITY CHECK	MID-H-2530	95	93	94	0.1	3.3	7
c MATURITY CHECK	FB73rhmxMO17	99	113	106	0.0	4.0	5
MATURITY CHECK	F-B73 X N204	112	97	105	-0.3	6.0	5
AGRIPRO	AP 9489	99	--	--	--	--	--
AGRIPRO	AP 9565	102	--	--	--	--	--
ASGROW	RX813	105	109	107	--	--	--
BO-JAC	415	92	114	103	--	--	--
BO-JAC	544	101	100	100	--	--	--
BO-JAC	614	111	113	112	--	--	--
CARGILL	6997	95	94	94	--	--	--
CARGILL	7770	131	113	122	--	--	--
DEKALB	DK569	89	--	--	--	--	--
GREAT LAKES	GL 5715	104	74	89	--	--	--
GREAT LAKES	GL 5849	111	97	104	--	--	--
MYCOGEN	2689	74	107	90	--	--	--
NC+	1585	--	91	--	--	--	--
NC+	4616	82	110	96	--	--	--
NC+	4880	102	--	--	--	--	--
OTILIE	2453	102	95	99	--	--	--
OTILIE	5460	117	107	112	--	--	--
PIONEER	3568	80	80	80	--	--	--
MATURITY CHECK	PIONEER 3162	103	102	103	--	--	--
MATURITY CHECK	SHORT - C4111	81	86	84	--	--	--
AVERAGES	(bushels/acre)	87	150	119	--	--	--
LSD(0.05)**		20	11	--	--	--	--

¹ THD =Thomas Co. Dryland Test, NW Res.-Ext. Center, Colby

GRD = Greeley Co. Dryland Test, SW Res.-Ext. Center, Tribune

² DYA = Differential Yielding Ability; average difference of hybrid yield compared to average of check hybrids in bushels per acre.

³ SE = Standard Error of DYA; measure of consistency of yield differences.

⁴ N = Number of tests where hybrid was compared with checks; DYA was calculated only for those with at least 4 comparisons.

^c Check hybrid; each hybrid compared to average yield of these check hybrids.

* Statistically significantly different from the average of the check hybrids, which = 0 (P < 0.5).

SOUTH CENTRAL KANSAS STANDARD CORN TEST ON SANDY LOAM, IRRIGATED

COUNTY: STAFFORD

LOCATION: Sandyland Experiment Field, St. John

TEST SITE: Naron loamy fine sand

1996 CROP: Wheat

1995 CROP: Corn

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

PLANTING DATE: 4/23/97

HARVEST DATE: 9/30/97

COOPERATORS:

Victor Martin, agronomist

TARGET POPULATION: 30,000 plants/acre,

7.0 in. spacing

STAND (% of target): 117

YIELD: Average (bu/a): 220

Range (bu/a): 164 - 258

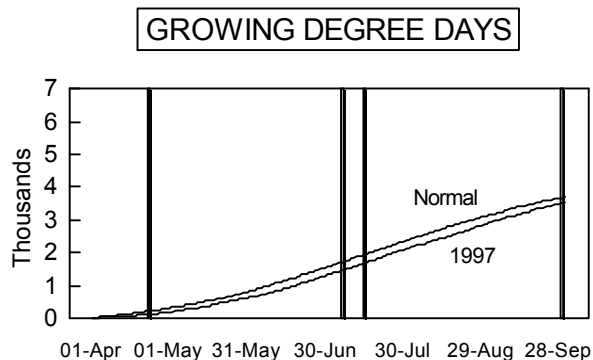
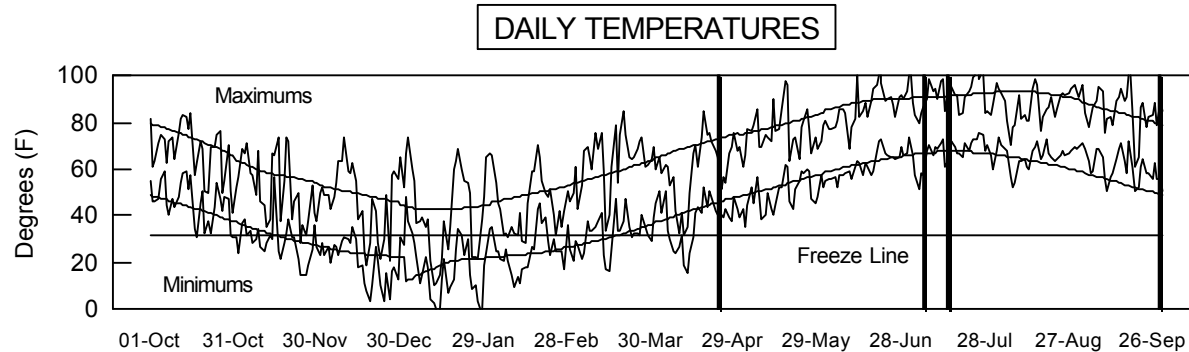
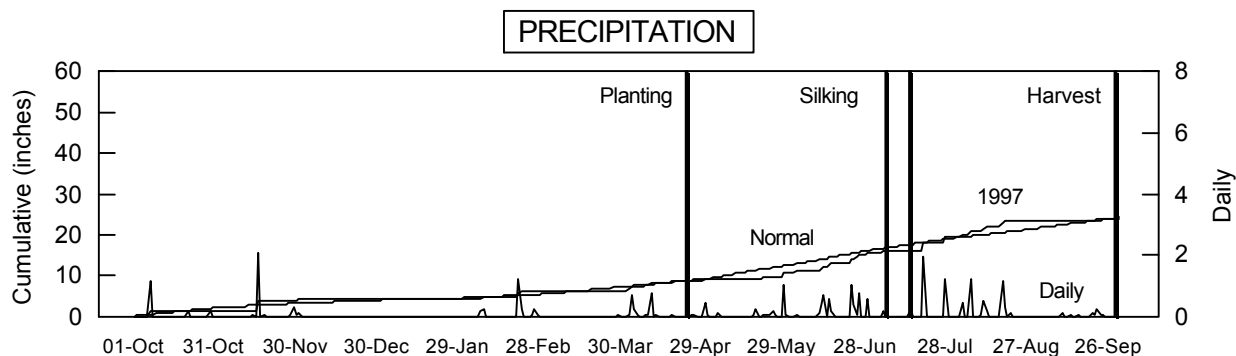
LSD (bu/a): 22

CV (%): 9

SILK DATES: 7/6/97 - 7/15/97

1997 GROWING CONDITIONS:

Cool planting conditions slowed early development, but excellent stands eventually emerged. Relatively mild summer temperatures and favorable precipitation minimized temperature and moisture stresses.



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	1997	Normal	1997	Normal	1997	Normal
April	2.5	2.1	49	57	196	320
May	1.9	3.3	63	66	425	493
June	4.8	3.8	75	76	708	756
July	3.6	2.9	79	79	843	851
August	4.1	2.4	77	78	740	734
Sept.	0.6	2.5	73	69	650	559
Season Totals	17.5	16.9	69	71	3562	3714

TABLE 16. STAFFORD CO. IRRIGATED CORN PERFORMANCE TEST RESULTS, 1995-1997.

BRAND	NAME	ACRE YIELD, BUSHELS			YIELD AS % OF TEST			96-97		1997				Test Wt. lb/bu		
		1997	1996	1995	AVERAGE			Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %			
					2-Yr. AVG.	3-Yr. AVG.	1997								1996	1995
GIANT	GB 3097	212	--	--	--	--	96	--	--	--	--	74	14	118	1	58
MATURITY CHECK	SHORT - C4111	164	--	--	--	--	74	--	--	--	--	74	14	117	2	60
KAYSTAR	KX - 808	222	--	--	--	--	101	--	--	--	--	74	16	117	2	56
MILLER PREF.	MP-1123	233	--	--	--	--	106	--	--	--	--	74	17	123	1	57
CARGILL	6997	205	171	--	188	--	93	91	--	73	17	75	15	120	2	59
GREAT LAKES	GL 5849	207	--	--	--	--	94	--	--	--	--	75	15	111	1	58
KAYSTAR	KX - 777	192	206	171	199	190	87	109	106	73	16	75	15	113	1	58
MSG (OHLDE)	G 7711	216	184	--	200	--	98	98	--	74	17	75	16	120	2	57
AGRIPRO	AP 9565	210	205	--	208	--	95	109	--	74	18	75	17	114	0	57
HPH	KS 5119	205	--	--	--	--	93	--	--	--	--	75	17	115	1	57
AGRIPRO	AP 619	230	201	165	215	199	104	107	102	76	17	76	16	118	2	58
HPH	KS 5145	220	--	--	--	--	100	--	--	--	--	76	16	125	1	59
WILSON	1719	219	197	--	208	--	99	105	--	75	17	76	16	116	2	59
CARGILL	6888	217	--	--	--	--	98	--	--	--	--	76	17	118	1	57
MATURITY CHECK	PIONEER 3162	200	187	166	193	184	91	99	102	75	20	76	18	113	2	59
MATURITY CHECK	MID-H-2530	210	175	171	193	185	96	93	106	76	17	77	15	120	7	58
GARST	8366	207	--	--	--	--	94	--	--	--	--	77	16	124	4	57
GIANT	GB 3147	217	--	--	--	--	98	--	--	--	--	77	16	124	4	60
MSG (OHLDE)	O 331	203	202	187	202	197	92	107	115	75	17	77	16	110	3	59
TRIUMPH	1514	228	192	--	210	--	104	102	--	76	18	77	16	112	2	57
DEKALB	DK715	223	196	169	209	196	101	104	104	76	19	77	17	120	4	58
MSG (OHLDE)	G 8699	210	--	--	--	--	95	--	--	--	--	77	17	120	2	57
NC+	5445	219	192	--	205	--	99	102	--	78	18	77	17	123	1	57
PIONEER	32J55	246	--	--	--	--	112	--	--	--	--	77	17	127	6	60
GREAT LAKES	GL 6317	230	--	--	--	--	104	--	--	--	--	77	18	114	2	57
MATURITY CHECK	F-B73 X N204	181	162	155	171	166	82	86	95	77	19	77	18	105	6	58
DEKALB	DK626	221	194	185	207	200	100	103	114	76	16	78	15	116	5	58
AGRIPRO	AP 9616	213	204	--	208	--	97	108	--	77	17	78	16	119	0	57
MIDLAND	774	221	--	--	--	--	100	--	--	--	--	78	16	122	1	57
TRIUMPH	1452	204	193	168	198	188	92	103	103	77	17	78	16	102	3	58
CARGILL	8011	203	--	--	--	--	92	--	--	--	--	78	17	116	3	56
HPH	KS 2186	215	--	--	--	--	98	--	--	--	--	78	17	114	3	57
MILLER PREF.	MP-1133	232	--	--	--	--	105	--	--	--	--	78	17	106	2	56
PIONEER	3237	242	205	--	224	--	110	109	--	78	18	78	17	121	4	59
HPH	KS 2165	223	--	--	--	--	101	--	--	--	--	78	18	118	1	55

(continued)

TABLE 16. STAFFORD CO. IRRIGATED CORN PERFORMANCE TEST RESULTS, 1995-1997.

BRAND	NAME	ACRE YIELD, BUSHELS			YIELD AS % OF TEST			96-97		1997				Test Wt. lb/bu		
		1997	1996	1995	2-Yr. 3-Yr.		AVERAGE	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %			
					AVG.	AVG.									1997	1996
MATURITY CHECK	FB73rhmxMO17	216	183	169	200	189	98	97	104	77	17	79	16	110	5	58
MSG (OHLDE)	G 8511	241	199	--	220	--	109	106	--	78	18	79	16	120	3	56
PIONEER	3223	241	217	185	229	214	109	115	114	79	18	79	16	124	2	59
NC+	5007	243	--	--	--	--	110	--	--	--	--	79	18	113	3	55
WILSON	1792	210	199	--	204	--	95	106	--	78	20	79	19	117	6	58
DELANGE	DS 1997	228	--	--	--	--	103	--	--	--	--	80	16	106	7	59
GARST	N5250 EXP	223	--	--	--	--	101	--	--	--	--	80	16	108	2	57
CARGILL	7770	203	181	--	192	--	92	96	--	79	18	80	17	125	1	58
DEKALB	DK687	224	--	--	--	--	102	--	--	--	--	80	17	117	3	58
DELANGE	DS 1995	201	176	155	189	178	91	94	96	81	19	80	17	107	3	59
NC+	7237	231	--	--	--	--	105	--	--	--	--	80	17	123	2	59
PIONEER	32K61	244	--	--	--	--	111	--	--	--	--	80	17	116	1	60
MYCOGEN	2888	249	--	--	--	--	113	--	--	--	--	80	18	118	2	58
CARGILL	8311	237	--	--	--	--	108	--	--	--	--	81	17	122	3	56
GARST	8285	215	--	158	--	--	98	--	97	--	--	81	17	117	2	57
MIDLAND	786	244	--	--	--	--	111	--	--	--	--	81	17	121	3	57
MSG (OHLDE)	G 8771	225	199	--	212	--	102	106	--	82	19	81	17	115	5	58
WILSON	2330	232	191	175	212	199	106	101	108	82	20	82	18	118	5	57
MYCOGEN	8460	258	191	179	225	209	117	102	110	83	21	82	20	120	5	56
WILSON	2335	246	172	--	209	--	112	91	--	81	22	82	20	121	2	55
AVERAGES		220	188	162	204	190	220	188	162	77	18	78	17	117	3	58
CV(%)		9	8	13	--	--	9	8	13	--	--	2	4	6	116	1
LSD(0.05)**		22	18	29	--	--	10	9	18	--	--	1	1	8	NS	1

** 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, IRRIGATED

COUNTY: THOMAS

LOCATION: Northwest Research-Extension Center, Colby

TEST SITE: Keith silt loam

1996 CROP: Sunflowers

1995 CROP: Sorghum

FERTILIZER (lbs/acre): 220 N 40 P₂O₅ 0 K₂O

PLANTING DATE: 5/5/97

HARVEST DATE: 10/16/97

COOPERATORS:

Patrick Evans, agronomist

TARGET POPULATION: 30,000 plants/acre,

7.0 in. spacing

STAND (% of target): 102

YIELD: Average (bu/a): 236

Range (bu/a): 202 - 272

LSD (bu/a): 19

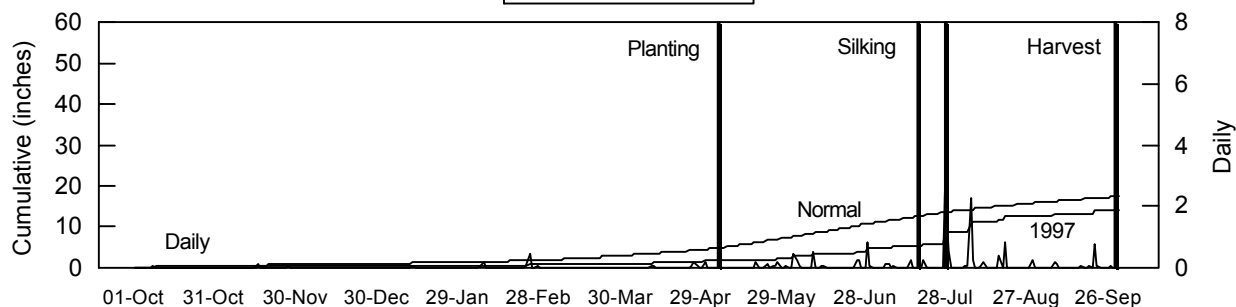
CV (%): 7

SILK DATES: 7/18/97 - 7/27/97

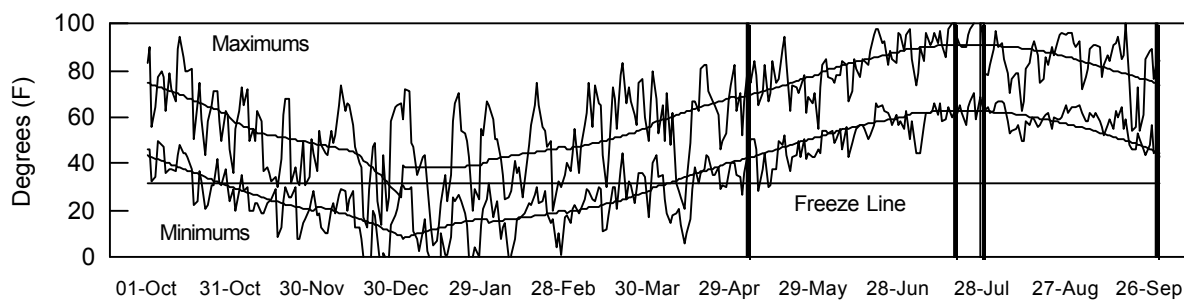
1997 GROWING CONDITONS:

Prewatering helped to produce very good stands. Rainfall was below normal until late July. Growing conditions improved in August and September. Very high winds on October 8-11 caused most of the lodging and dropped ears. European corn borers and spider mites were noted in August.

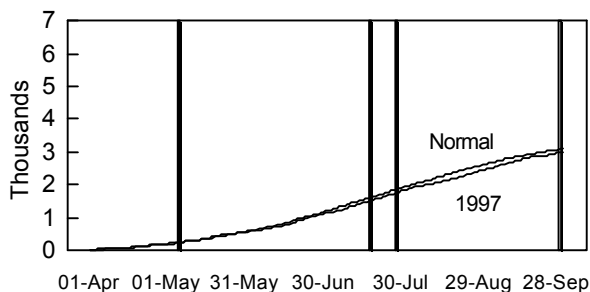
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	1997	Normal	1997	Normal	1997	Normal
April	0.6	1.5	44	50	197	209
May	0.6	2.9	58	60	343	353
June	2.7	3.6	70	71	595	631
July	3.7	3.1	76	77	732	775
August	4.3	2.0	72	74	621	683
Sept.	1.2	1.6	68	65	528	466
Season Totals	12.9	14.6	65	66	3015	3116

TABLE 17. THOMAS CO. IRRIGATED CORN PERFORMANCE TEST RESULTS, 1995-1997.

BRAND	NAME	ACRE YIELD, BUSHELS						YIELD AS % OF TEST			96-97		1997				Test Wt. lb/bu
		1997	1996	1995	2-Yr. 3-Yr.		AVERAGE	1997	1996	1995	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %	
					2-Yr. AVG.	3-Yr. AVG.											
AGRIPRO	AP 9489	221	--	--	--	--	94	--	--	--	--	74	17	102	1	59	
FONTANELLE	4997	202	--	--	--	--	86	--	--	--	--	74	17	102	12	61	
FONTANELLE	4193	218	--	--	--	--	92	--	--	--	--	76	18	101	1	58	
HAWKEYE	SX44A	236	--	--	--	--	100	--	--	--	--	76	18	102	5	57	
CARGILL	6303	218	200	151	209	190	92	88	118	78	19	76	19	102	3	56	
HPH	KS 5119	240	--	--	--	--	102	--	--	--	--	76	19	102	8	56	
MYCOGEN	2677	214	--	--	--	--	91	--	--	--	--	76	19	102	3	56	
AGRIPRO	AP 9565	241	224	--	233	--	102	99	--	78	20	76	20	102	1	56	
CARGILL	6997	220	209	--	214	--	93	92	--	78	20	76	21	102	4	55	
MATURITY CHECK	SHORT - C4111	209	--	--	--	--	89	--	--	--	--	77	16	102	7	59	
GIANT	GB 3097	233	--	--	--	--	98	--	--	--	--	77	17	103	13	57	
MILLER PREF.	MP-1072	208	--	--	--	--	88	--	--	--	--	77	17	103	8	60	
OTILIE	5550	242	236	--	239	--	102	104	--	80	20	77	18	103	1	57	
PRODUCERS	621	227	--	--	--	--	96	--	--	--	--	77	18	103	2	58	
STAUFFER	2436	233	221	--	227	--	99	97	--	79	19	77	18	103	1	56	
TRIUMPH	1220	234	214	--	224	--	99	94	--	79	20	77	18	104	3	56	
HAWKEYE	SX55	243	239	--	241	--	103	105	--	79	20	77	19	102	3	56	
HOEGEMEYER	2655	232	222	159	227	204	98	98	124	79	20	77	19	103	7	55	
MSG (OHLDE)	G 7711	251	232	157	241	213	106	102	122	79	20	77	19	103	2	57	
NC+	4880	249	--	--	--	--	106	--	--	--	--	77	19	102	2	55	
CARGILL	6888	254	--	--	--	--	107	--	--	--	--	77	20	102	5	56	
FONTANELLE	5306	237	230	--	234	--	100	101	--	79	20	77	20	102	4	56	
LG SEEDS	LG2579	251	243	--	247	--	106	107	--	79	20	77	20	102	2	56	
MYCOGEN	2725	241	225	--	233	--	102	99	--	79	20	77	20	102	3	56	
OTILIE	2467	239	245	164	242	216	101	108	128	79	20	77	20	102	5	56	
PREMIUM	P230	243	--	--	--	--	103	--	--	--	--	77	20	102	3	56	
GARST	8464	239	--	--	--	--	101	--	--	--	--	77	21	103	2	55	
MILLER PREF.	MP-1123	218	240	--	229	--	92	106	--	79	20	77	21	102	6	55	
STAUFFER	2625	221	--	--	--	--	94	--	--	--	--	78	17	101	13	57	
GREAT LAKES	GL 5849	236	--	--	--	--	100	--	--	--	--	78	18	102	6	57	
HOEGEMEYER	2623	219	--	--	--	--	93	--	--	--	--	78	18	101	10	56	
PIONEER	3489	242	227	--	235	--	102	100	--	80	18	78	18	102	6	58	
PRODUCERS	610	219	--	--	--	--	93	--	--	--	--	78	18	102	0	59	
GARST	8543IT	237	--	--	--	--	100	--	--	--	--	78	19	102	15	55	
MILLER PREF.	MP-1131	229	232	156	231	206	97	102	122	79	20	78	19	101	2	56	
PRODUCERS	714	229	--	--	--	--	97	--	--	--	--	78	19	102	3	56	
GOLDEN HARVEST	H-2547	246	231	--	238	--	104	102	--	79	20	78	20	102	3	56	
HAWKEYE	7979	235	--	--	--	--	99	--	--	--	--	78	20	101	19	57	
HOEGEMEYER	2666	234	--	154	--	--	99	--	121	--	--	78	20	101	12	56	
KAYSTAR	KX - 777	230	232	164	231	209	97	102	128	79	21	78	20	102	2	56	
NC+	4919	239	231	--	235	--	101	102	--	79	21	78	20	102	2	56	
TRIUMPH	1141	242	--	--	--	--	103	--	--	--	--	78	20	102	2	56	
DEKALB	DK632	250	--	--	--	--	106	--	--	--	--	78	21	102	2	55	
GIANT	GB 3147	256	--	--	--	--	109	--	--	--	--	78	21	103	5	56	
OTILIE	5460	261	242	--	251	--	110	107	--	80	21	78	21	102	11	56	

(continued)

TABLE 17. THOMAS CO. IRRIGATED CORN PERFORMANCE TEST RESULTS, 1995-1997.

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST			96-97		1997				Test Wt. lb/bu
		1997	1996	1995	2-Yr.	3-Yr.	AVERAGE			Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %	
					AVG.	AVG.	1997	1996	1995							
DEKALB	DK580	254	226	150	240	210	108	100	117	80	17	79	18	102	6	57
MATURITY CHECK	MID-H-2530	235	219	130	227	195	100	97	101	80	19	79	18	103	3	55
CARGILL	7770	259	240	--	250	--	109	106	--	80	22	79	21	102	13	56
DEKALB	DK641	235	239	--	237	--	100	106	--	81	21	79	21	102	16	56
MSG (OHLDE)	O 331	245	245	144	245	211	104	108	112	80	21	79	21	102	12	56
MYCOGEN	7250	241	230	--	235	--	102	101	--	80	21	79	21	102	1	55
AGRIPRO	AP 9616	235	--	--	--	--	100	--	--	--	--	80	20	103	12	55
GARST	8366	231	--	--	--	--	98	--	--	--	--	80	20	103	6	55
KAYSTAR	KX - 808	222	--	--	--	--	94	--	--	--	--	80	20	101	9	54
MILLER PREF.	MP-1133	233	--	--	--	--	99	--	--	--	--	80	20	102	11	54
GREAT LAKES	GL 6317	230	--	--	--	--	97	--	--	--	--	80	21	102	5	55
HPH	KS 5145	220	--	--	--	--	93	--	--	--	--	80	21	102	20	56
LG SEEDS	LG2624	236	--	--	--	--	100	--	--	--	--	80	21	102	13	54
OTILIE	5050	226	253	--	239	--	96	112	--	80	21	80	21	102	15	54
CARGILL	8011	229	--	--	--	--	97	--	--	--	--	80	22	101	14	53
HPH	KS 2165	217	--	--	--	--	92	--	--	--	--	80	22	102	11	54
MATURITY CHECK	PIONEER 3162	243	241	165	242	216	103	106	129	81	23	80	23	102	9	56
MSG (OHLDE)	G 8511	236	236	--	236	--	100	104	--	82	23	80	23	102	9	54
MATURITY CHECK	F-B73 X N204	238	235	138	237	204	101	104	108	81	25	80	26	102	17	53
BO-JAC	415	265	--	--	--	--	112	--	--	--	--	81	19	102	17	55
HPH	KS 2186	232	--	--	--	--	98	--	--	--	--	81	22	102	9	55
MSG (OHLDE)	G 8699	248	--	--	--	--	105	--	--	--	--	81	22	102	4	54
PIONEER	32J55	272	--	--	--	--	115	--	--	--	--	81	23	102	22	57
MATURITY CHECK	FB73rhmxMO17	219	209	108	214	179	93	92	84	82	24	81	24	102	15	52
BO-JAC	544	238	--	--	--	--	101	--	--	--	--	82	20	101	21	53
CARGILL	8311	260	--	--	--	--	110	--	--	--	--	82	24	102	8	53
GARST	8325	247	237	--	242	--	105	105	--	82	23	82	24	102	6	53
PIONEER	32K61	270	--	--	--	--	114	--	--	--	--	83	21	102	5	56
BO-JAC	614	248	--	--	--	--	105	--	--	--	--	83	23	102	15	54
AVERAGES		236	226	128	231	197	236	226	128	80	20	78	20	102	8	56
CV(%)		7	5	13	--	--	7	5	13	--	--	1	5	1	74	1
LSD(0.05)**		19	15	24	--	--	8	6	19	--	--	1	1	NS	7	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

COUNTY: GREELEY

LOCATION: Southwest Research-Extension Center, Tribune

TEST SITE: Ulysses silt loam

1996 CROP: Wheat

1995 CROP: Fallow

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

PLANTING DATE: 4/28/97

HARVEST DATE: 10/17/97

COOPERATORS:

Alan Schlegel, agronomist; David Frickel, research associate; Scott Selee, technician

TARGET POPULATION: 30,000 plants/acre,

7.0 in. spacing

STAND (% of target): 117

YIELD: Average (bu/a): 205

Range (bu/a): 168 - 245

LSD (bu/a): 19

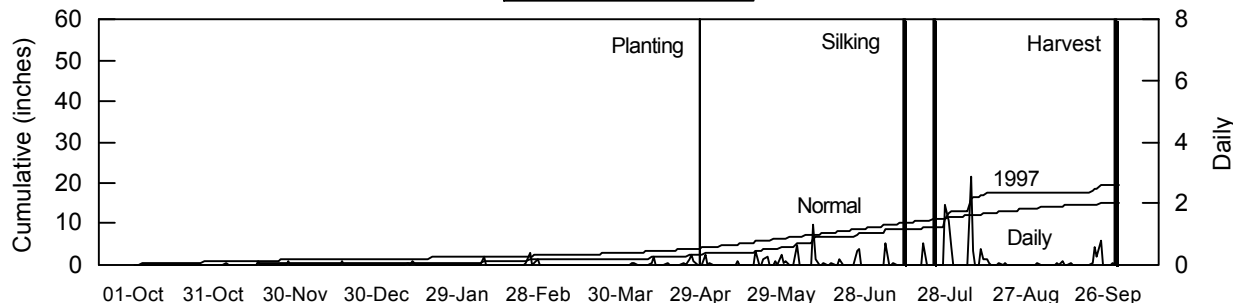
CV (%): 8

SILK DATES: 7/13/97 - 7/23/97

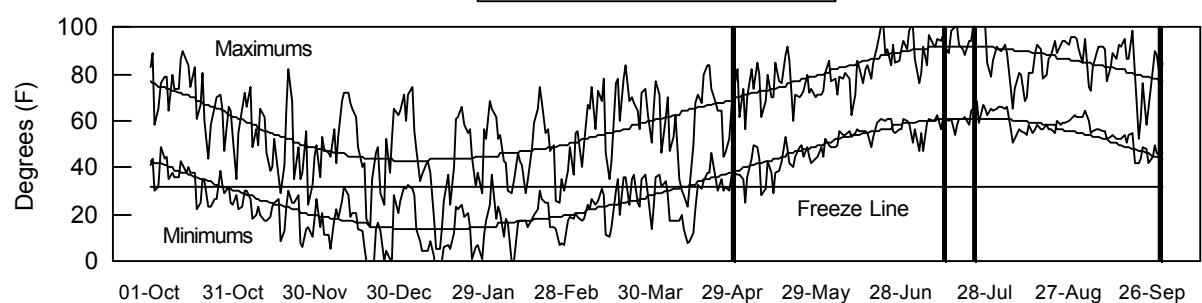
1997 GROWING CONDITONS:

Emergence and stand establishment were excellent. A July 5 hailstorm caused some damage. European corn borers damaged some entries. High winds in October caused much of the lodging.

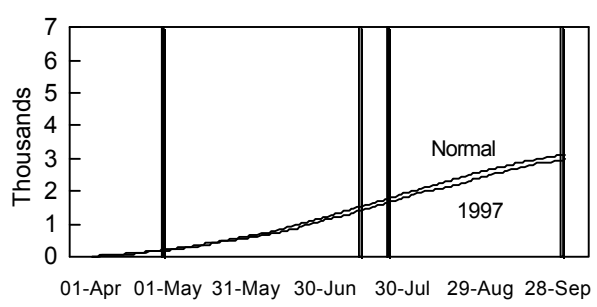
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	1997	Normal	1997	Normal	1997	Normal
April	1.4	1.4	44	50	204	242
May	1.6	2.3	58	60	364	381
June	3.4	2.6	70	71	581	619
July	5.3	2.5	76	76	727	746
August	4.4	2.1	72	74	613	668
Sept.	1.8	1.3	67	65	502	490
Season						
Totals	17.9	12.3	65	66	2989	3144

TABLE 18. GREELEY CO. IRRIGATED CORN PERFORMANCE TEST RESULTS, 1995-1997.

BRAND	NAME	ACRE YIELD, BUSHEL						YIELD AS % OF TEST AVERAGE			96-97		1997			
		1997	1996	1995	2-Yr.	3-Yr.	1997	1996	1995	Days to Silk	Grain to Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
					AVG.	AVG.										
MILLER PREF.	MP-1072	168	--	--	--	--	82	--	--	--	--	77	16	110	50	61
MYCOGEN	2677	176	--	--	--	--	86	--	--	--	--	77	16	120	9	59
PRODUCERS	610	190	--	--	--	--	93	--	--	--	--	78	15	119	6	61
CARGILL	6997	179	197	--	188	--	87	98	--	86	17	78	16	122	10	58
AGRIPRO	AP 9565	204	--	--	--	--	99	--	--	--	--	78	17	124	18	58
HPH	KS 5119	223	--	--	--	--	109	--	--	--	--	78	17	108	18	58
MYCOGEN	2725	202	185	--	194	--	99	92	--	86	17	78	17	122	13	57
PRODUCERS	621	194	--	--	--	--	94	--	--	--	--	79	15	123	23	59
MILLER PREF.	MP-1131	211	183	151	197	182	103	91	112	87	17	79	17	122	14	58
GIANT	GB 3097	191	--	--	--	--	93	--	--	--	--	80	15	114	41	58
GREAT LAKES	GL 5849	193	--	--	--	--	94	--	--	--	--	80	15	118	24	59
MATURITY CHECK	SHORT - C4111	175	--	--	--	--	85	--	--	--	--	80	15	121	25	60
PIONEER	3489	208	199	--	203	--	101	99	--	88	15	80	15	116	54	58
WILSON	1394	171	--	--	--	--	83	--	--	--	--	80	15	111	41	59
GARST	8543IT	212	--	--	--	--	103	--	--	--	--	80	16	114	30	58
KAYSTAR	KX - 777	206	206	139	206	184	101	103	103	87	16	80	16	126	21	58
MILLER PREF.	MP-1123	197	--	--	--	--	96	--	--	--	--	80	17	113	20	58
OTILIE	5550	205	--	--	--	--	100	--	--	--	--	80	17	116	19	58
TRIUMPH	1220	211	201	--	206	--	103	100	--	87	17	80	17	120	19	58
WILSON	1475PT	190	--	--	--	--	93	--	--	--	--	80	17	116	22	58
WILSON	1644	202	--	--	--	--	98	--	--	--	--	80	17	116	16	58
WILSON	1664	220	208	--	214	--	107	104	--	87	17	80	17	114	15	57
OTILIE	2467	218	--	--	--	--	106	--	--	--	--	80	18	124	12	58
STAUFFER	2207	230	210	--	220	--	112	104	--	87	18	80	18	123	13	58
DEKALB	DK580	207	209	162	208	193	101	104	120	87	15	81	15	111	21	58
PIONEER	34K77	203	--	--	--	--	99	--	--	--	--	81	16	121	14	59
GIANT	GB 3147	187	--	--	--	--	91	--	--	--	--	81	18	114	43	58
MYCOGEN	7250	219	207	--	213	--	107	103	--	88	18	81	18	111	12	58
MATURITY CHECK	MID-H-2530	205	200	146	202	183	100	99	108	89	16	82	16	118	26	57
NC+	4616	189	--	--	--	--	92	--	--	--	--	82	16	117	23	58
CARGILL	6888	212	206	--	209	--	103	103	--	88	17	82	18	124	13	58
GARST	8325	212	--	--	--	--	103	--	--	--	--	82	18	114	28	57
HPH	KS 5145	207	--	--	--	--	101	--	--	--	--	82	18	113	37	59
MATURITY CHECK	FB73rhmxMO17	198	189	115	194	167	97	94	85	89	18	82	18	112	73	57
MATURITY CHECK	PIONEER 3162	217	216	152	216	195	106	108	113	89	20	82	19	124	29	59
MATURITY CHECK	F-B73 X N204	195	178	106	187	160	95	89	78	89	20	82	21	112	19	56

TABLE 18. GREELEY CO. IRRIGATED CORN PERFORMANCE TEST RESULTS, 1995-1997.

BRAND	NAME	ACRE YIELD, BUSHEL						YIELD AS % OF TEST			96-97		1997				Test Wt. lb/bu
		1997	1996	1995	2-Yr. 3-Yr.		AVERAGE			Days to Silk	Grain to Moist. %	Days to Silk	Grain Moist. %	Final Stand %	Ldg %		
					AVG.	AVG.	1997	1996	1995								
KAYSTAR	KX - 808	200	--	--	--	--	98	--	--	--	--	83	17	108	19	56	
CARGILL	7770	216	214	--	215	--	105	107	--	89	18	83	18	120	21	59	
DEKALB	DK641	212	--	--	--	--	103	--	--	--	--	83	18	118	36	58	
GARST	8366	222	--	--	--	--	108	--	--	--	--	83	18	126	16	57	
GREAT LAKES	GL 6317	211	--	--	--	--	103	--	--	--	--	83	18	113	14	57	
HPH	KS 2186	228	--	--	--	--	111	--	--	--	--	83	19	108	26	57	
LG SEEDS	LG2637	226	--	--	--	--	110	--	--	--	--	83	19	111	34	57	
PIONEER	32J55	245	--	--	--	--	120	--	--	--	--	83	19	125	20	59	
BO-JAC	544	202	--	--	--	--	99	--	--	--	--	84	17	122	32	56	
BO-JAC	415	205	--	--	--	--	100	--	--	--	--	84	17	109	33	57	
DEKALB	DK652	212	213	145	213	190	103	106	108	90	19	84	18	121	48	56	
HPH	KS 2165	209	--	--	--	--	102	--	--	--	--	84	18	123	24	56	
MILLER PREF.	MP-1133	206	--	--	--	--	100	--	--	--	--	84	18	106	17	55	
OTILIE	5050	204	--	--	--	--	99	--	--	--	--	84	18	121	36	56	
STAUFFER	2792	214	--	--	--	--	104	--	--	--	--	84	18	115	26	55	
CARGILL	8011	188	--	--	--	--	92	--	--	--	--	85	18	115	15	55	
PIONEER	32K61	208	--	--	--	--	101	--	--	--	--	85	18	122	24	61	
CARGILL	8311	227	--	--	--	--	111	--	--	--	--	85	19	117	21	55	
BO-JAC	614	211	--	--	--	--	103	--	--	--	--	86	20	116	16	55	
NC+	7237	215	--	--	--	--	105	--	--	--	--	86	20	117	49	57	
AVERAGES		205	201	135	203	180	205	201	135	88	17	81	17	117	25	58	
CV(%)		8	7	10	--	--	8	7	10	--	--	1	4	7	42	1	
LSD(0.05)**		19	15	21	--	--	9	8	16	--	--	1	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.

SOUTHWESTERN KANSAS STANDARD CORN TEST, IRRIGATED

COUNTY: FINNEY

LOCATION: Southwest Research-Extension Center, Garden City

TEST SITE: Keith silt loam

1996 CROP: Soybeans

1995 CROP: Corn

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

PLANTING DATE: 5/7/97

HARVEST DATE: 10/14/97

COOPERATORS:

Merle Witt, agronomist

TARGET POPULATION: 30,000 plants/acre,

7.0 in. spacing

STAND (% of target): 106

YIELD: Average (bu/a): 221

Range (bu/a): 176 - 253

LSD (bu/a): 15

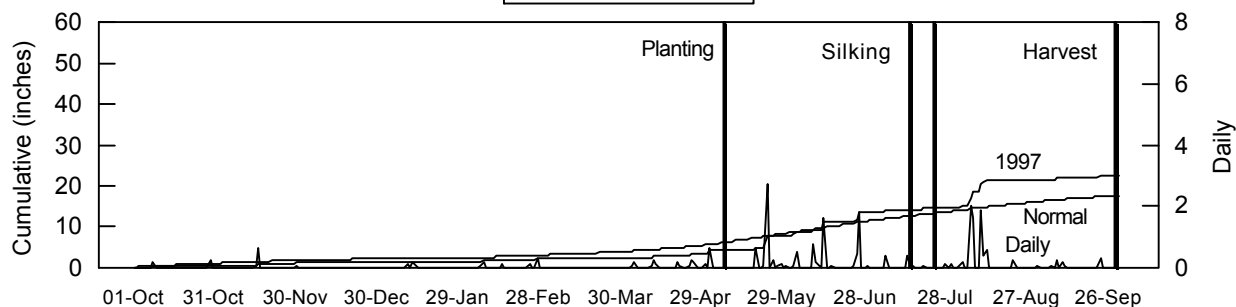
CV (%): 5

SILK DATES: 7/15/97 - 7/25/97

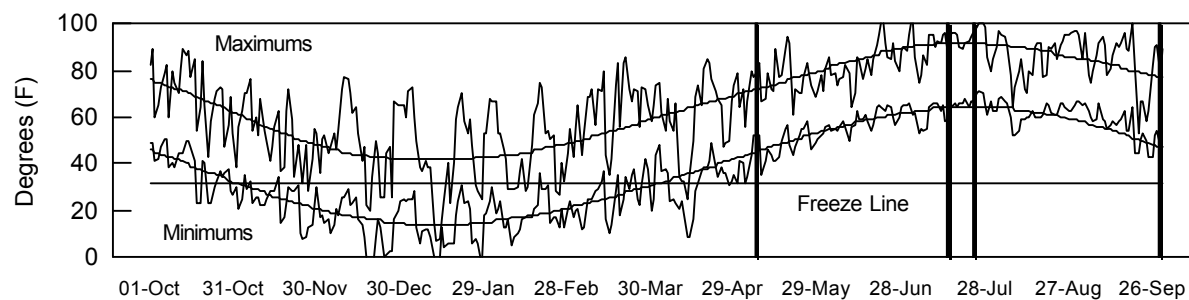
1997 GROWING CONDITIONS:

Cool temperatures slowed emergence and early growth. Rainfall was above average and favorably timed. August was the wettest on record for this location. European corn borers were controlled with insecticides.

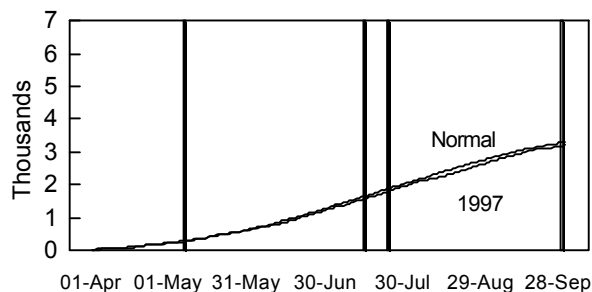
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	1997	Normal	1997	Normal	1997	Normal
April	1.3	1.8	46	51	216	234
May	4.5	2.8	61	62	396	393
June	5.6	3.0	71	72	636	673
July	1.1	2.5	77	78	778	795
August	6.9	2.1	74	75	667	715
Sept.	0.8	1.6	69	67	548	514
Season Totals	20.2	13.8	67	68	3240	3323

TABLE 19. FINNEY CO. IRRIGATED CORN PERFORMANCE TEST RESULTS, 1995-1997.

BRAND	NAME	ACRE YIELD, BUSHELS					YIELD AS % OF TEST			96-97		1997				
		1997	1996	1995	2-Yr.	3-Yr.	AVERAGE			Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %	Test Wt. lb/bu
					AVG.	AVG.	1997	1996	1995							
CARGILL	6997	194	--	--	--	--	88	--	--	--	--	69	14	102	1	57
MILLER PREF.	MP-1123	211	--	--	--	--	96	--	--	--	--	69	14	98	1	58
GIANT	GB 3097	206	--	--	--	--	93	--	--	--	--	70	13	102	0	57
MATURITY CHECK	SHORT - C4111	176	--	--	--	--	80	--	--	--	--	70	13	107	1	58
HPH	KS 5119	218	181	172	200	190	99	102	95	73	14	70	14	102	0	57
KAYSTAR	KX - 777	211	187	204	199	201	96	105	112	73	14	70	14	102	0	58
AGRIPRO	AP 9565	217	178	--	198	--	98	100	--	73	15	70	15	107	1	58
CARGILL	6888	226	183	--	204	--	102	103	--	73	15	70	15	108	1	57
GOLDEN HARVEST	H-2547	209	175	--	192	--	95	99	--	73	15	70	15	99	3	58
MYCOGEN	2725	217	--	--	--	--	98	--	--	--	--	70	15	106	1	57
HOEGEMEYER	2666	216	--	--	--	--	98	--	--	--	--	71	14	108	1	58
MYCOGEN	7250	208	169	--	189	--	94	95	--	74	16	71	16	102	0	57
GREAT LAKES	GL 5849	218	--	--	--	--	99	--	--	--	--	72	13	102	1	58
DEKALB	DK641	218	181	--	199	--	98	102	--	75	14	72	14	97	5	58
OTTLIE	5550	203	159	--	181	--	92	90	--	76	14	72	14	94	1	57
PATRIOT	5120	210	--	--	--	--	95	--	--	--	--	72	14	101	0	55
GIANT	GB 3147	201	--	--	--	--	91	--	--	--	--	72	15	94	0	59
CARGILL	7770	219	181	--	200	--	99	102	--	76	15	72	16	103	1	59
HOEGEMEYER	2623	199	--	--	--	--	90	--	--	--	--	73	13	99	1	57
MATURITY CHECK	MID-H-2530	206	188	187	197	194	93	106	103	76	14	73	13	103	1	57
GARST	8366	229	--	--	--	--	104	--	--	--	--	73	14	110	2	58
GARST	8325	217	190	--	204	--	98	107	--	77	15	73	14	99	5	57
HPH	KS 5145	216	183	210	200	203	98	103	115	76	15	73	15	97	2	59
KAYSTAR	KX - 808	205	--	--	--	--	93	--	--	--	--	73	15	95	0	56
MATURITY CHECK	FB73rhmxMO17	221	187	159	204	189	100	105	87	77	15	73	15	95	1	57
DEKALB	DK652	231	189	202	210	207	105	106	111	76	15	73	16	101	2	57
MATURITY CHECK	PIONEER 3162	228	163	216	196	203	103	92	119	76	16	73	16	101	4	59
MSG (OHLDE)	O 331	227	187	205	207	206	103	105	113	76	16	73	16	96	1	59
MATURITY CHECK	F-B73 X N204	216	175	146	195	179	98	98	80	76	16	73	17	97	1	59
HOEGEMEYER	2682	210	--	--	--	--	95	--	--	--	--	74	15	90	1	57
NC+	5697	199	--	--	--	--	90	--	--	--	--	74	15	98	3	57
PATRIOT	7197	237	--	--	--	--	107	--	--	--	--	74	15	109	5	59
STAUFFER	2792	221	--	--	--	--	100	--	--	--	--	74	15	93	1	56
AGRIPRO	AP 619	212	182	183	197	192	96	102	101	77	15	74	16	105	0	58
DEKALB	DK715	242	195	176	219	205	110	110	97	76	16	74	16	99	1	56
HPH	KS 2186	238	177	--	207	--	108	99	--	78	15	74	16	102	3	59
MSG (OHLDE)	G 8511	229	164	--	196	--	104	92	--	78	15	74	16	105	2	57
MSG (OHLDE)	G 8699	232	--	--	--	--	105	--	--	--	--	74	16	107	0	59
OTTLIE	5460	235	158	--	196	--	106	89	--	77	16	74	16	91	3	58
PATRIOT	6142	195	--	--	--	--	88	--	--	--	--	74	16	92	1	56
STAUFFER	2820	214	--	--	--	--	97	--	--	--	--	74	16	107	3	58
PIONEER	32J55	246	--	--	--	--	112	--	--	--	--	74	17	102	1	60

(continued)

TABLE 19. FINNEY CO. IRRIGATED CORN PERFORMANCE TEST RESULTS, 1995-1997.

BRAND	NAME	ACRE YIELD, BUSHELS			YIELD AS % OF TEST			96-97		1997				Test Wt. lb/bu		
		1997	1996	1995	AVERAGE			Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %			
					2-Yr. AVG.	3-Yr. AVG.	1997								1996	1995
CARGILL	8011	229	--	--	--	--	104	--	--	--	75	15	103	0	56	
FREEDOM	5555	209	--	--	--	--	95	--	--	--	75	15	105	1	57	
GREAT LAKES	GL 6317	212	--	--	--	--	96	--	--	--	75	15	103	1	57	
MIDLAND	774	211	--	--	--	--	96	--	--	--	75	15	102	1	56	
MILLER PREF.	MP-1133	211	--	--	--	--	95	--	--	--	75	15	97	0	56	
PIONEER	3237	242	176	--	209	--	109	99	--	78	16	75	15	106	1	59
PRODUCERS	732	212	--	--	--	--	96	--	--	--	75	15	93	0	58	
TRIUMPH	1452	208	182	190	195	193	94	102	104	78	15	75	15	94	1	57
AGRIPRO	HS 9843	225	174	168	199	189	102	98	92	79	16	75	16	101	2	58
AGRIPRO	AP 9616	217	--	--	--	--	98	--	--	--	75	16	94	0	57	
HPH	KS 2165	220	--	--	--	--	100	--	--	--	75	16	101	2	57	
TRIUMPH	1514	226	190	--	208	--	102	107	--	78	15	75	16	102	1	57
PATRIOT	6168	242	--	--	--	--	109	--	--	--	75	17	101	0	58	
WILSON	1792	228	169	--	199	--	103	95	--	79	17	75	17	101	4	58
MIDLAND	786	239	--	--	--	--	108	--	--	--	76	15	102	2	57	
CARGILL	8311	247	--	--	--	--	112	--	--	--	76	16	102	2	57	
FREEDOM	5680	227	--	--	--	--	103	--	--	--	76	16	104	3	57	
GARST	N5250 EXP	215	--	--	--	--	97	--	--	--	76	16	93	5	57	
MSG (OHLDE)	G 8771	231	164	--	197	--	105	92	--	80	16	76	16	105	6	57
MYCOGEN	2868	232	204	185	218	207	105	114	102	79	15	76	16	97	3	57
PATRIOT	7187	201	--	--	--	--	91	--	--	--	76	16	102	2	56	
PIONEER	32K61	234	--	--	--	--	106	--	--	--	76	16	103	2	61	
PRODUCERS	807	224	--	--	--	--	101	--	--	--	76	16	99	0	57	
PRODUCERS	729	221	--	--	--	--	100	--	--	--	76	16	99	0	57	
LG SEEDS	LG2726	228	--	--	--	--	103	--	--	--	76	17	96	3	58	
NC+	7237	230	--	--	--	--	104	--	--	--	76	18	102	6	59	
TERRA	TR1185	197	--	--	--	--	89	--	--	--	76	18	83	1	57	
TERRA	TR1157	214	--	--	--	--	97	--	--	--	77	15	86	3	56	
GARST	8285	227	196	172	212	198	103	110	94	80	16	77	16	96	1	58
LG SEEDS	LG2705	222	--	--	--	--	101	--	--	--	77	16	102	2	58	
NC+	7117	229	--	--	--	--	104	--	--	--	77	16	105	1	58	
TRIUMPH	2010	223	190	188	206	200	101	107	103	79	16	77	16	100	3	57
CARGILL	8327	222	179	179	201	194	101	101	98	80	16	77	17	91	3	58
TERRA	TR1176	223	--	--	--	--	101	--	--	--	77	17	86	4	59	
WILSON	2330	262	201	186	232	217	119	113	102	81	17	77	17	108	4	57
WILSON	2335	226	202	--	214	--	102	114	--	80	17	77	17	104	1	57
PATRIOT	7172	216	--	--	--	--	98	--	--	--	77	18	103	5	56	
TERRA	TR702	253	--	--	--	--	114	--	--	--	77	18	103	1	56	
WILSON	E975307	241	--	--	--	--	109	--	--	--	77	18	101	1	57	
FREEDOM	5695	229	--	--	--	--	104	--	--	--	78	17	102	3	59	
WILSON	E975305	243	--	--	--	--	110	--	--	--	78	17	103	5	56	
AVERAGES		221	178	182	199	194	221	178	182	77	16	74	16	100	2	57
CV(%)		5	7	6	--	--	5	7	6	--	--	1	6	6	124	1
LSD(0.05)**		15	18	19	--	--	7	10	10	--	--	1	1	8	3	1

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

TABLE 20. WESTERN KANSAS IRRIGATED CORN TEST YIELD SUMMARY, 1995-1997.

BRAND	NAME	1997 YIELD AS % OF TEST AVERAGE ¹					1995-1997		
		STA	THI	GRI	FIN	AVG.	DYA (bu/a) ²	S.E. ³	N ⁴
DEKALB	DK580	--	108	101	--	--	20.3*	4.1	6
WILSON	2330	106	--	--	119	--	18.6*	5.8	6
PIONEER	3237	110	--	--	109	--	18.3	6.8	5
MSG (OHLDE)	O 331	92	104	--	103	--	16.3*	4.4	9
OTILIE	2467	--	101	106	--	--	15.6	8.2	6
PIONEER	3223	109	--	--	--	--	15.1*	5.8	6
MATURITY CHECK	PIONEER 3162	91	103	106	103	101	14.3*	5.8	12
MSG (OHLDE)	G 7711	98	106	--	--	--	13.6	5.9	6
DEKALB	DK652	--	--	103	105	--	13.2*	3.6	7
MILLER PREF.	MP-1131	--	97	103	--	--	12.6	6.3	6
GARST	8325	--	105	103	98	--	12.5*	3.1	6
MSG (OHLDE)	G 8511	109	100	--	104	--	11.6	6.9	6
TRIUMPH	1514	104	--	--	102	--	11.0*	1.9	5
DEKALB	DK715	101	--	--	110	--	10.8*	4.0	6
MSG (OHLDE)	G 8771	102	--	--	105	--	10.6	8.0	5
KAYSTAR	KX - 777	87	97	101	96	95	10.5	4.9	12
CARGILL	7770	92	109	105	99	101	10.3	5.0	8
CARGILL	6888	98	107	103	102	103	10.0*	3.9	6
HPH	KS 2186	98	98	111	108	104	9.4	6.3	5
DEKALB	DK641	--	100	103	98	--	8.3	4.5	5
AGRIPRO	AP 619	104	--	--	96	--	8.3	4.2	7
HPH	KS 5145	100	93	101	98	98	6.5	5.9	6
AGRIPRO	AP 9565	95	102	99	98	99	6.2	4.1	7
MILLER PREF.	MP-1123	106	92	96	96	98	6.0	6.3	5
TRIUMPH	2010	--	--	--	101	--	5.7	2.5	5
WILSON	1719	99	--	--	--	--	5.7	4.3	5
PIONEER	3489	--	102	101	--	--	5.5	3.3	6
c MATURITY CHECK	MID-H-2530	96	100	100	93	97	4.2	2.0	12
MYCOGEN	2725	--	102	99	98	--	4.0	3.6	5
MYCOGEN	7250	--	102	107	94	--	3.9	5.0	7
HPH	KS 5119	93	102	109	99	100	3.8	4.3	6
TRIUMPH	1452	92	--	--	94	--	1.3	4.2	6
CARGILL	6303	--	92	--	--	--	0.5	7.5	5
OTILIE	5550	--	102	100	92	--	0.2	8.1	5
AGRIPRO	HS 9843	--	--	--	102	--	-0.2	3.8	6
GARST	8285	98	--	--	103	--	-0.8	4.3	6
DEKALB	DK626	100	--	--	--	--	-1.4	12.0	5
MYCOGEN	2868	--	--	--	105	--	-3.0	10.3	5
c MATURITY CHECK	FB73rhmxMO17	98	93	97	100	97	-4.2	2.0	12
CARGILL	8327	--	--	--	101	--	-6.3	4.3	7
MATURITY CHECK	F-B73 X N204	82	101	95	98	94	-8.1	5.0	12
CARGILL	6997	93	93	87	88	90	-9.6*	3.0	7
AGRIPRO	AP 9489	--	94	--	--	--	--	--	--
AGRIPRO	AP 9616	97	100	--	98	--	--	--	--
BO-JAC	415	--	112	100	--	--	--	--	--
BO-JAC	544	--	101	99	--	--	--	--	--
BO-JAC	614	--	105	103	--	--	--	--	--
CARGILL	8011	92	97	92	104	96	--	--	--
CARGILL	8311	108	110	111	112	110	--	--	--

(continued)

TABLE 20. WESTERN KANSAS IRRIGATED CORN TEST YIELD SUMMARY, 1995-1997.

BRAND	NAME	1997 YIELD AS % OF TEST AVERAGE ¹					1995-1997		
		STA	THI	GRI	FIN	AVG.	DYA (bu/a) ²	S.E. ³	N ⁴
DEKALB	DK632	--	106	--	--	--	--	--	--
DEKALB	DK687	102	--	--	--	--	--	--	--
DELANGE	DS 1995	91	--	--	--	--	--	--	--
DELANGE	DS 1997	103	--	--	--	--	--	--	--
FONTANELLE	4193	--	92	--	--	--	--	--	--
FONTANELLE	4997	--	86	--	--	--	--	--	--
FONTANELLE	5306	--	100	--	--	--	--	--	--
FREEDOM	5555	--	--	--	95	--	--	--	--
FREEDOM	5680	--	--	--	103	--	--	--	--
FREEDOM	5695	--	--	--	104	--	--	--	--
MIDLAND	774	100	--	--	96	--	--	--	--
MIDLAND	786	111	--	--	108	--	--	--	--
GARST	8366	94	98	108	104	101	--	--	--
GARST	8464	--	101	--	--	--	--	--	--
GARST	8543IT	--	100	103	--	--	--	--	--
GARST	N5250 EXP	101	--	--	97	--	--	--	--
GIANT	GB 3097	96	98	93	93	95	--	--	--
GIANT	GB 3147	98	109	91	91	97	--	--	--
GOLDEN HARVEST	H-2547	--	104	--	95	--	--	--	--
GREAT LAKES	GL 5849	94	100	94	99	97	--	--	--
GREAT LAKES	GL 6317	104	97	103	96	100	--	--	--
HAWKEYE	7979	--	99	--	--	--	--	--	--
HAWKEYE	SX44A	--	100	--	--	--	--	--	--
HAWKEYE	SX55	--	103	--	--	--	--	--	--
HOEGEMEYER	2623	--	93	--	90	--	--	--	--
HOEGEMEYER	2655	--	98	--	--	--	--	--	--
HOEGEMEYER	2666	--	99	--	98	--	--	--	--
HOEGEMEYER	2682	--	--	--	95	--	--	--	--
HPH	KS 2165	101	92	102	100	99	--	--	--
KAYSTAR	KX - 808	101	94	98	93	96	--	--	--
LG SEEDS	LG2579	--	106	--	--	--	--	--	--
LG SEEDS	LG2624	--	100	--	--	--	--	--	--
LG SEEDS	LG2637	--	--	110	--	--	--	--	--
LG SEEDS	LG2705	--	--	--	101	--	--	--	--
LG SEEDS	LG2726	--	--	--	103	--	--	--	--
MILLER PREF.	MP-1072	--	88	82	--	--	--	--	--
MILLER PREF.	MP-1133	105	99	100	95	100	--	--	--
MSG (OHLDE)	G 8699	95	105	--	105	--	--	--	--
MYCOGEN	2677	--	91	86	--	--	--	--	--
MYCOGEN	2888	113	--	--	--	--	--	--	--
MYCOGEN	8460	117	--	--	--	--	--	--	--
NC+	4616	--	--	92	--	--	--	--	--
NC+	4880	--	106	--	--	--	--	--	--
NC+	4919	--	101	--	--	--	--	--	--
NC+	5007	110	--	--	--	--	--	--	--
NC+	5445	99	--	--	--	--	--	--	--
NC+	5697	--	--	--	90	--	--	--	--
NC+	7117	--	--	--	104	--	--	--	--
NC+	7237	105	--	105	104	--	--	--	--

(continued)

TABLE 20. WESTERN KANSAS IRRIGATED CORN TEST YIELD SUMMARY, 1995-1997.

BRAND	NAME	1997 YIELD AS % OF TEST AVERAGE ¹					1995-1997		
		STA	THI	GRI	FIN	AVG.	DYA (bu/a) ²	S.E. ³	N ⁴
OTILIE	5050	--	96	99	--	--	--	--	--
OTILIE	5460	--	110	--	106	--	--	--	--
PATRIOT	5120	--	--	--	95	--	--	--	--
PATRIOT	6142	--	--	--	88	--	--	--	--
PATRIOT	6168	--	--	--	109	--	--	--	--
PATRIOT	7172	--	--	--	98	--	--	--	--
PATRIOT	7187	--	--	--	91	--	--	--	--
PATRIOT	7197	--	--	--	107	--	--	--	--
PIONEER	32J55	112	115	120	112	115	--	--	--
PIONEER	32K61	111	114	101	106	108	--	--	--
PIONEER	34K77	--	--	99	--	--	--	--	--
PREMIUM	P230	--	103	--	--	--	--	--	--
PRODUCERS	610	--	93	93	--	--	--	--	--
PRODUCERS	621	--	96	94	--	--	--	--	--
PRODUCERS	714	--	97	--	--	--	--	--	--
PRODUCERS	729	--	--	--	100	--	--	--	--
PRODUCERS	732	--	--	--	96	--	--	--	--
PRODUCERS	807	--	--	--	101	--	--	--	--
STAUFFER	2207	--	--	112	--	--	--	--	--
STAUFFER	2436	--	99	--	--	--	--	--	--
STAUFFER	2625	--	94	--	--	--	--	--	--
STAUFFER	2792	--	--	104	100	--	--	--	--
STAUFFER	2820	--	--	--	97	--	--	--	--
TERRA	TR1157	--	--	--	97	--	--	--	--
TERRA	TR1176	--	--	--	101	--	--	--	--
TERRA	TR1185	--	--	--	89	--	--	--	--
TERRA	TR702	--	--	--	114	--	--	--	--
TRIUMPH	1141	--	103	--	--	--	--	--	--
TRIUMPH	1220	--	99	103	--	--	--	--	--
WILSON	1394	--	--	83	--	--	--	--	--
WILSON	1475PT	--	--	93	--	--	--	--	--
WILSON	1644	--	--	98	--	--	--	--	--
WILSON	1664	--	--	107	--	--	--	--	--
WILSON	1792	95	--	--	103	--	--	--	--
WILSON	2335	112	--	--	102	--	--	--	--
WILSON	E975305	--	--	--	110	--	--	--	--
WILSON	E975307	--	--	--	109	--	--	--	--
MATURITY CHECK	SHORT - C4111	74	89	85	80	82	--	--	--
AVERAGES	(bushels/acre)	220	236	205	221	221	--	--	--
LSD(0.05)**		10	8	9	7	--	--	--	--

¹ STA = Safford Co. Test, Sandyland Exp. Field, St. John GRI = Greeley Co. Test, SW Res.-Ext. Center, Tribune
 THI = Thomas Co. Test, NW Res.-Ext. Center, Colby FIN = Finney Co. Test, SW Res.-Ext. Center, Garden City

² DYA = Differential Yielding Ability; average difference of hybrid yield compared to average of check hybrids in bushels per acre.

³ SE = Standard Error of DY A; measure of consistency of yield differences.

⁴ N = Number of tests where hybrid was compared with checks; DY A was calculated only for those with at least 5 comparisons.

^c Check hybrid; each hybrid compared to average yield of these check hybrids.

* Statistically significantly different from the average of the check hybrids, which = 0 (P < 0.5).

EAST CENTRAL KANSAS SHORT-SEASON CORN TEST

COUNTY: FRANKLIN

LOCATION: East Central Kansas Experiment Field, Ottawa

TEST SITE: Woodson silt loam

1996 CROP: Soybeans

1995 CROP: Corn

FERTILIZER (lbs/acre): 100 N 34 P₂O₅ 11 K₂O

PLANTING DATE: 4/23/97

HARVEST DATE: 9/29/97

COOPERATORS:

Keith Janssen, agronomist

TARGET POPULATION: 22,000 plants/acre,

9.5 in. spacing

STAND (% of target): 132

YIELD: Average (bu/a): 129

Range (bu/a): 113 - 143

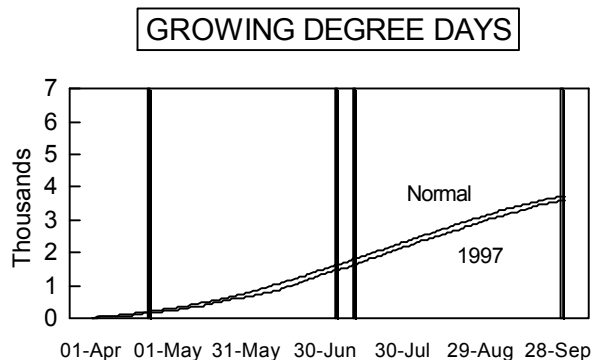
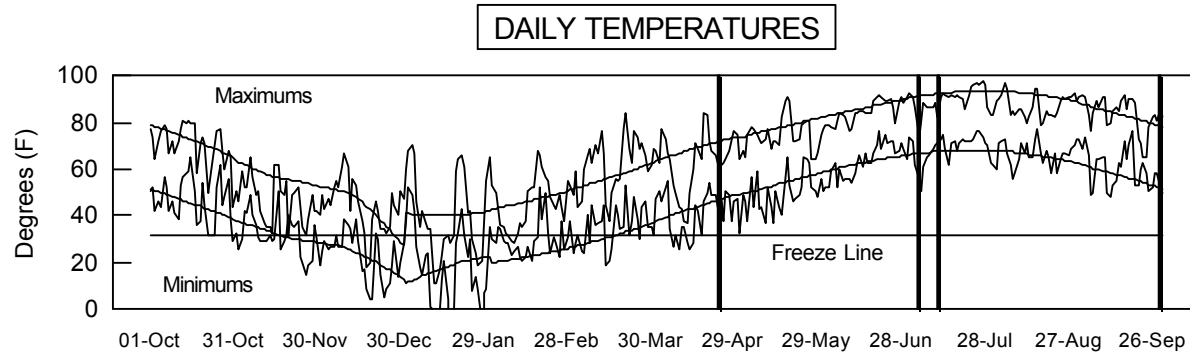
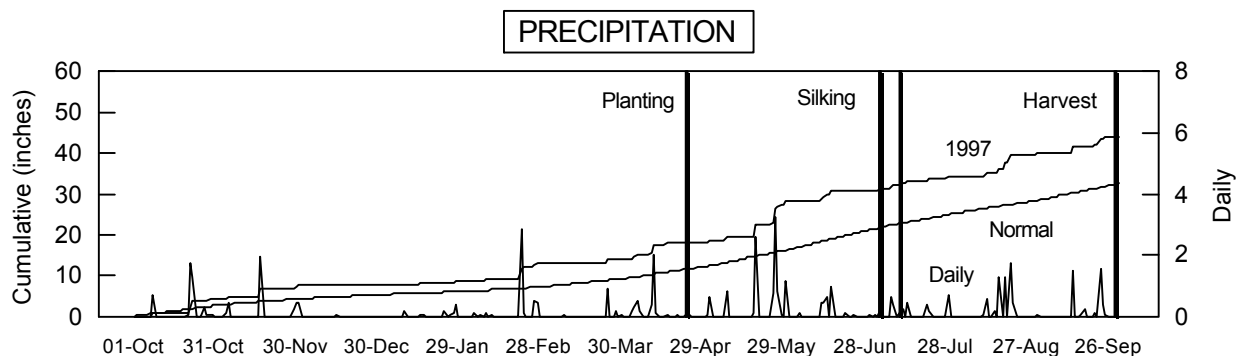
LSD (bu/a): 8

CV (%): 5

SILK DATES: 7/5/97 - 7/11/97

1997 GROWING CONDITONS:

Excellent conditions enabled nearly all seed to emerge. Temperatures and moisture levels were favorable except for some dry periods during grain fill.



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	1997	Normal	1997	Normal	1997	Normal
April	3.8	3.0	52	57	237	300
May	10.3	4.1	63	66	419	485
June	2.7	5.0	75	75	735	750
July	3.4	3.9	79	80	859	859
August	5.6	3.1	77	79	770	774
Sept.	3.9	4.1	71	70	623	597
Season Totals	29.6	23.3	69	71	3641	3765

TABLE 21. FRANKLIN CO. SHORT-SEASON CORN PERFORMANCE TEST RESULTS, 1995-97.

BRAND	NAME	ACRE YIELD, BUSHEL			YIELD AS % OF TEST AVERAGE			96-97		1997				Test Wt. lb/bu		
		1997	1996	1995	2-Yr. AVG.	3-Yr. AVG.	1997	1996	1995	Days to Silk	Grain to Moist. %	Days to Silk	Grain Moist. %		Final Stnd %	Ldg %
HOEGEMEYER	2567	115	--	--	--	--	89	--	--	--	--	72	15	121	4	57
PIONEER	3737	123	144	63	133	110	95	104	81	75	15	72	15	125	2	57
NK	N4640	133	143	77	138	118	103	103	98	75	14	73	14	139	6	57
MATURITY CHECK	SHORT - C4111	113	--	--	--	--	87	--	--	--	--	73	15	137	1	58
MYCOGEN	2545	122	--	--	--	--	94	--	--	--	--	73	15	132	1	58
TERRA	TR1026	125	--	--	--	--	97	--	--	--	--	73	15	132	1	58
HOEGEMEYER	2591	124	--	--	--	--	96	--	--	--	--	73	16	131	1	58
NK	N5857IMI	138	--	--	--	--	107	--	--	--	--	73	16	128	1	58
NC+	1585	115	--	--	--	--	89	--	--	--	--	74	14	143	4	56
PIONEER	3568	138	150	--	144	--	107	107	--	76	15	74	15	133	7	59
TERRA	TR1087	134	--	--	--	--	103	--	--	--	--	74	15	133	1	58
DEKALB	DK569	139	142	92	141	124	108	102	118	76	15	74	16	132	9	57
PIONEER	3563	137	--	--	--	--	106	--	--	--	--	74	16	129	1	60
TRIUMPH	8810	127	--	--	--	--	98	--	--	--	--	74	16	131	2	58
NC+	3544	127	153	--	140	--	99	110	--	77	15	75	16	136	1	57
NC+	4616	131	150	97	140	126	101	108	125	78	16	75	17	136	4	59
DELANGE	DS 1204	123	154	68	138	115	95	110	87	78	14	76	15	131	2	57
HOEGEMEYER	2623	136	--	--	--	--	105	--	--	--	--	76	15	131	1	58
DEKALB	DK580	137	143	91	140	124	106	103	116	78	15	76	16	125	1	59
MATURITY CHECK	MID-H-2530	129	164	82	147	125	100	118	105	78	15	76	16	141	3	57
MATURITY CHECK	PIONEER 3162	143	--	--	--	--	111	--	--	--	--	76	18	134	3	60
MATURITY CHECK	FB73rhmXMO17	133	157	90	145	127	103	113	116	80	15	78	16	125	4	57
TERRA	TR1106	132	--	--	--	--	102	--	--	--	--	78	17	127	1	59
MATURITY CHECK	F-B73 X N204	128	136	41	132	102	99	98	52	79	17	78	18	128	8	59
AVERAGES		129	139	78	134	115	129	139	78	77	15	75	16	132	3	58
CV(%)		5	6	12	--	--	5	6	12	--	--	2	5	5	102	2
LSD(0.05)**		8	10	11	--	--	6	8	15	--	--	1	1	9	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 SHORT-SEASON CORN TEST

TARGET POPULATION: 22,000 plants/acre,
9.5 in. spacing
STAND (% of target): 101
YIELD: Average (bu/a): 173
Range (bu/a): 146 - 205
LSD (bu/a): 10
CV (%): 7
SILK DATES: 6/27/97 - 7/5/97
1997 GROWING CONDITONS:

COUNTY: LABETTE

LOCATION: Southeast Agricultural Research Center, Parsons

TEST SITE: Parsons silt loam

1996 CROP: Soybeans

1995 CROP: Corn

FERTILIZER (lbs/acre): 138 N 92 P₂O₅ 120 K₂O

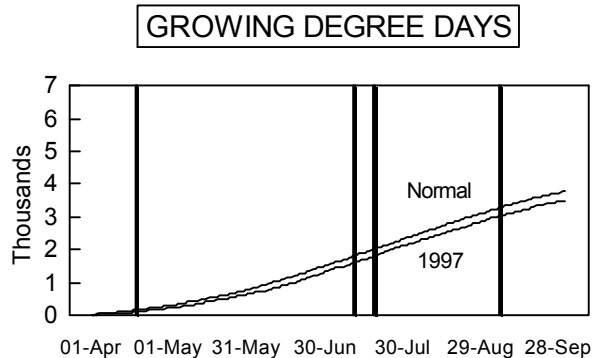
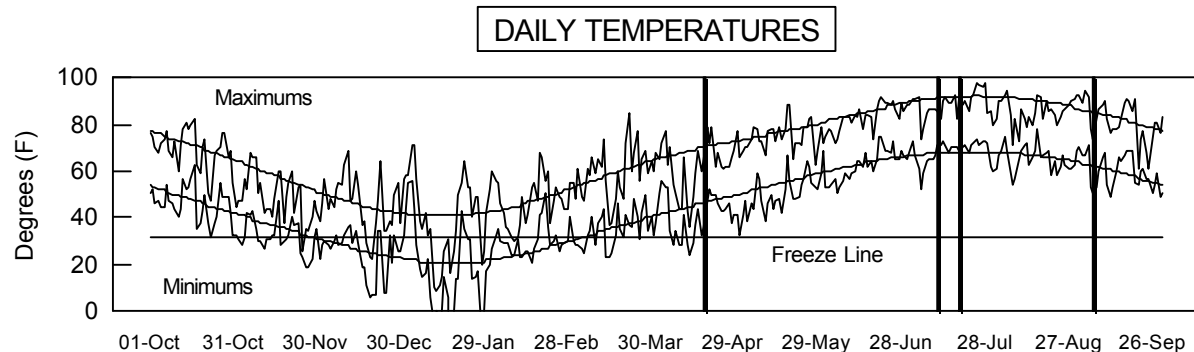
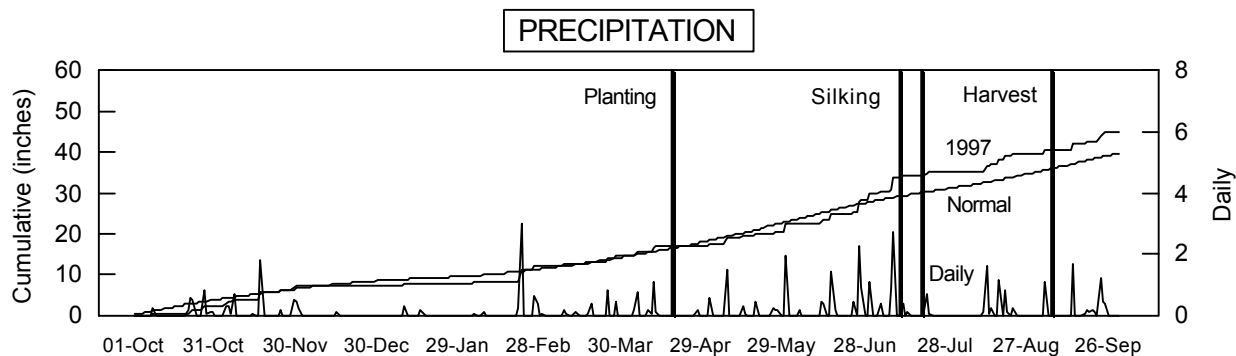
PLANTING DATE: 4/4/97

HARVEST DATE: 9/5/97

COOPERATORS:

James Long, agronomist

An April 13 frost froze the plants below ground level in the test planted on March 21. A second test was planted on April 18 as a precautionary measure. Both plantings eventually developed acceptable stands and provided similar hybrid rankings. Results are averaged over both tests, enabling more precise separation of hybrids for most characters. The rest of the growing season provided excellent conditions for corn growth, and yields were outstanding.



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	1997	Normal	1997	Normal	1997	Normal
April	2.6	3.9	51	58	220	304
May	5.3	4.9	63	66	432	485
June	7.3	4.9	73	75	701	750
July	5.3	3.5	78	80	842	861
August	4.4	3.8	76	78	740	786
Sept.	5.5	4.5	70	70	589	615
Season Totals	30.4	25.4	69	71	3523	3799

TABLE 22. LABETTE CO. SHORT-SEASON CORN PERFORMANCE TEST RESULTS, 1995-1997.

BRAND	NAME	ACRE YIELD, BUSHELS						YIELD AS % OF TEST			96-97		1997				
		1997	1996	1995	2-Yr. 3-Yr.		AVERAGE			Days to Silk	Grain to Moist. %	Days to Silk	Grain Moist. %	Ears per Plant	Final Stand %	Test Wt. lb/bu	
					AVG.	AVG.	1997	1996	1995								
DEKALB	DK442	154	--	--	--	--	89	--	--	--	--	84	16	1.3	95	54	
PIONEER	3737	166	100	120	133	128	96	101	95	83	15	84	17	1.1	107	56	
MYCOGEN	2545	146	--	--	--	--	84	--	--	--	--	85	16	1.2	96	56	
NK	N4640	175	119	125	147	140	101	120	99	83	15	85	16	1.1	121	55	
TERRA	TR1026	153	114	--	134	--	89	115	--	83	15	85	16	1.2	99	56	
HOEGEMEYER	2591	150	--	--	--	--	87	--	--	--	--	85	17	1.3	95	56	
HOEGEMEYER	2592	162	--	--	--	--	94	--	--	--	--	85	17	1.3	100	54	
NC+	1585	176	--	--	--	--	101	--	--	--	--	86	15	1.3	105	56	
HOEGEMEYER	2567	148	--	--	--	--	86	--	--	--	--	86	16	1.3	96	55	
MATURITY CHECK	SHORT - C4111	176	--	--	--	--	102	--	--	--	--	87	17	1.1	112	56	
NC+	3544	167	107	--	137	--	97	108	--	85	16	87	17	1.5	98	55	
PIONEER	3568	174	108	--	141	--	101	109	--	85	15	87	17	1.1	95	55	
PIONEER	3563	181	--	--	--	--	104	--	--	--	--	87	17	1.2	100	57	
NK	N5857IMI	167	--	--	--	--	97	--	--	--	--	87	18	1.5	97	56	
DEKALB	DK580	178	105	151	142	145	103	106	119	86	16	88	17	1.3	101	56	
DELANGE	DS 1204	174	93	116	133	127	100	94	92	87	16	88	17	1.3	96	55	
GARST	8560	170	102	--	136	--	98	103	--	87	16	88	18	1.3	107	53	
TERRA	TR1087	196	--	--	--	--	113	--	--	--	--	88	18	1.1	101	55	
TRIUMPH	8810	182	--	--	--	--	105	--	--	--	--	88	18	1.1	100	55	
MATURITY CHECK	MID-H-2530	189	100	139	144	143	109	101	110	87	15	89	17	1.2	107	55	
MATURITY CHECK	PIONEER 3162	205	--	--	--	--	118	--	--	--	--	89	21	1.2	99	56	
TERRA	TR1106	204	--	--	--	--	118	--	--	--	--	90	19	1.1	94	53	
MATURITY CHECK	FB73rhmxMO17	182	101	135	141	139	105	101	107	88	19	90	21	1.1	94	54	
MATURITY CHECK	F-B73 X N204	179	91	148	135	139	103	91	117	91	22	92	25	1.2	115	54	
AVERAGES		173	99	126	136	133	173	99	126	85	16	87	18	1.2	101	55	
CV(%)		7	9	7	--	--	7	9	7	--	--	1	5	12.0	9	1	
LSD(0.05)**		10	10	11	--	--	6	10	9	--	--	1	1	0.1	7	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 SHORT-SEASON CORN TEST, IRRIGATED

COUNTY: STAFFORD

LOCATION: Sandyland Experiment Field, St. John

TEST SITE: Naron loamy fine sand

1996 CROP: Wheat

1995 CROP: Fallow

FERTILIZER (lbs/acre): 200 N 50 P₂O₅ 0 K₂O

PLANTING DATE: 4/23/97

HARVEST DATE: 10/1/97

COOPERATORS:

Victor Martin, agronomist

TARGET POPULATION: 32,200 plants/acre,

6.5 in. spacing

STAND (% of target): 107

YIELD: Average (bu/a): 207

Range (bu/a): 176 - 225

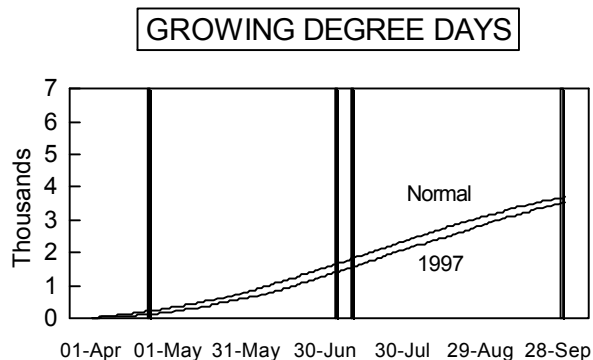
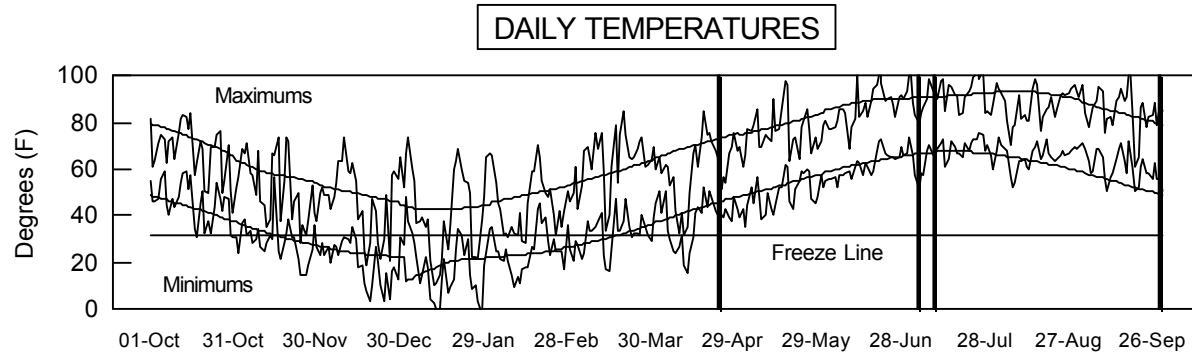
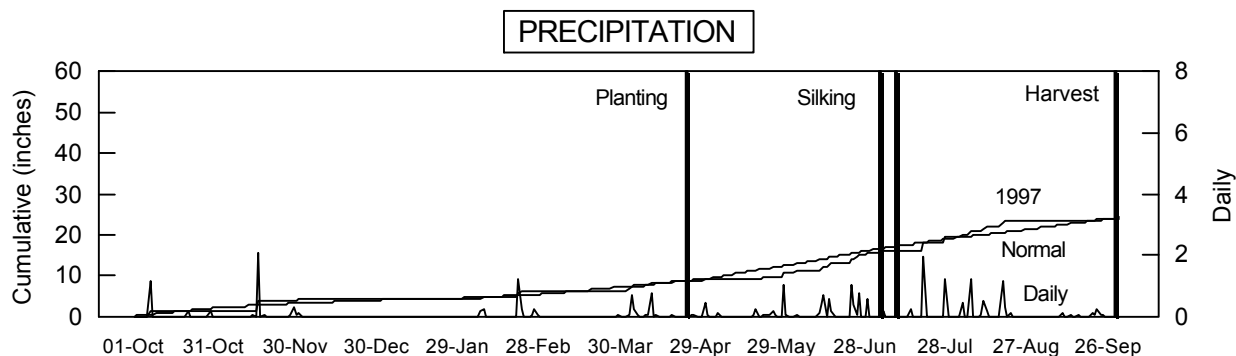
LSD (bu/a): 20

CV (%): 8

SILK DATES: 7/4/97 - 7/10/97

1997 GROWING CONDITIONS:

Cool planting conditions slowed early development, but excellent stands eventually emerged. Relatively mild summer temperatures and favorable precipitation minimized temperature and moisture stresses.



GROWING-SEASON WEATHER SUMMARY

Month	Precipitation		Average Temp.		GDD	
	1997	Normal	1997	Normal	1997	Normal
April	2.5	2.1	49	57	196	320
May	1.9	3.3	63	66	425	493
June	4.8	3.8	75	76	708	756
July	3.6	2.9	79	79	843	851
August	4.1	2.4	77	78	740	734
Sept.	0.6	2.5	73	69	650	559
Season Totals	17.5	16.9	69	71	3562	3714

TABLE 23. STAFFORD CO. IRRIGATED SHORT-SEASON CORN PERFORMANCE TEST RESULTS, 1995-97.

BRAND	NAME	ACRE YIELD, BUSHEL						YIELD AS % OF TEST AVERAGE			96-97		1997			Test Wt. lb/bu
		1997	1996	1995	2-Yr.	3-Yr.	1997	1996	1995	Days to Silk	Grain to Moist. %	Days to Silk	Grain to Moist. %	Final Stand %	Ldg %	
					AVG.	AVG.										
MYCOGEN	2545	176	--	--	--	--	85	--	--	--	--	72	14	110	1	60
PIONEER	3568	216	166	--	191	--	104	98	--	71	14	72	14	110	2	61
TERRA	TR1026	189	--	--	--	--	91	--	--	--	--	72	14	110	1	61
NC+	1585	188	--	--	--	--	91	--	--	--	--	73	13	112	5	59
PIONEER	3563	213	--	--	--	--	103	--	--	--	--	73	14	116	2	61
MATURITY CHECK	SHORT - C4111	200	--	--	--	--	97	--	--	--	--	74	13	115	1	60
DEKALB	DK595	195	--	--	--	--	94	--	--	--	--	74	15	97	2	59
PIONEER	34K77	220	--	--	--	--	106	--	--	--	--	74	15	110	1	60
TRIUMPH	1141	206	--	--	--	--	99	--	--	--	--	75	16	107	1	58
DEKALB	DK580	202	173	--	188	--	97	103	--	74	15	76	14	108	2	60
DELANGE	DS 1204	218	179	158	198	185	105	106	103	76	15	76	14	111	1	59
GARST	8543IT	225	--	--	--	--	109	--	--	--	--	76	14	105	3	58
TERRA	TR1087	204	--	--	--	--	98	--	--	--	--	76	14	92	2	59
MATURITY CHECK	PIONEER 3162	218	--	--	--	--	105	--	--	--	--	76	17	107	3	60
MATURITY CHECK	MID-H-2530	210	175	144	193	176	102	104	93	77	16	78	15	109	5	58
TERRA	TR1106	216	--	--	--	--	104	--	--	--	--	78	15	110	2	59
MATURITY CHECK	FB73rhmXMO17	205	180	157	192	181	99	107	102	78	18	78	17	102	5	58
MATURITY CHECK	F-B73 X N204	211	155	140	183	169	102	92	91	77	19	78	17	100	3	58
NC+	5007	223	--	--	--	--	108	--	--	--	--	78	18	98	2	56
AVERAGES		207	169	154	188	177	207	169	154	74	15	75	15	107	2	59
CV(%)		8	7	9	--	--	8	7	9	--	--	1	2	7	118	1
LSD(0.05)**		20	14	17	--	--	10	8	11	--	--	1	0	9	3	1

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

TABLE 24. KANSAS SHORT-SEASON CORN TEST YIELD SUMMARY, 1995-1997.

BRAND	NAME	1997 YIELD AS % OF TEST AVERAGE ¹				1995-1997		
		FRA	LAB	STI	AVG.	DYA (bu/a) ²	S.E. ³	N ⁴
NC+	4616	101	--	--	--	3.0	3.2	7
c	MATURITY CHECK FB73rhmxMO17	103	105	99	102	0.4	1.1	9
c	MATURITY CHECK MID-H-2530	100	109	102	104	-0.4	1.1	9
	DEKALB DK580	106	103	97	102	-0.7	3.2	8
	PIONEER 3568	107	101	104	104	-1.9	3.9	6
	NK N4640	103	101	--	--	-4.8	4.8	6
	NC+ 3544	99	97	--	--	-5.8	4.4	4
	DELANGE DS 1204	95	100	105	100	-6.1	3.3	9
	TERRA TR1026	97	89	91	92	-10.9	8.4	4
	MATURITY CHECK F-B73 X N204	99	103	102	102	-11.9	5.3	9
	PIONEER 3737	95	96	--	--	-15.3*	2.8	7
	DEKALB DK442	--	89	--	--	--	--	--
	DEKALB DK569	108	--	--	--	--	--	--
	DEKALB DK595	--	--	94	--	--	--	--
	GARST 8543IT	--	--	109	--	--	--	--
	GARST 8560	--	98	--	--	--	--	--
	HOEGEMEYER 2567	89	86	--	--	--	--	--
	HOEGEMEYER 2591	96	87	--	--	--	--	--
	HOEGEMEYER 2592	--	94	--	--	--	--	--
	HOEGEMEYER 2623	105	--	--	--	--	--	--
	MYCOGEN 2545	94	84	85	88	--	--	--
	NC+ 1585	89	101	91	94	--	--	--
	NC+ 5007	--	--	108	--	--	--	--
	NK N5857IMI	107	97	--	--	--	--	--
	PIONEER 34K77	--	--	106	--	--	--	--
	PIONEER 3563	106	104	103	105	--	--	--
	TERRA TR1087	103	113	98	105	--	--	--
	TERRA TR1106	102	118	104	108	--	--	--
	TRIUMPH 1141	--	--	99	--	--	--	--
	TRIUMPH 8810	98	105	--	--	--	--	--
	MATURITY CHECK PIONEER 3162	111	118	105	111	--	--	--
	MATURITY CHECK SHORT - C4111	87	102	97	95	--	--	--
	AVERAGES (bushels/acre)	129	173	207	170	--	--	--
	LSD(0.05)**	6	6	10	--	--	--	--

¹ FRA = Franklin Co. Test, East Central Exp. Field, Ottawa LAB = Labette Co. Test, SE Res. Center, Parsons
 STI = Stafford Co. Irrigated Test, Sandyland Exp. Field, St. John

² DYA = Differential Yielding Ability; average difference of hybrid yield compared to average of check hybrids in bushels per acre.

³ SE = Standard Error of DYA; measure of consistency of yield differences.

⁴ N = Number of tests where hybrid was compared with checks; DYA was calculated only for those with at least 4 comparisons.

^c Check hybrid; each hybrid compared to average yield of these check hybrids.

* Statistically significantly different from the average of the check hybrids, which = 0 (P < 0.5).

APPENDIX 1: Entrants in the 1997 Kansas Corn Performance Tests

AgriPro

AgriPro Seeds, Inc.
23959 580th Ave
Ames, IA 50010
800-373-1741

Fontanelle

Steven P. Pike
Fontanelle Hybrids
10981 8th St.
Nickerson, NE 68044-9706
402-721-1410

HPH

Jim Kramer
Kramer Seed Farms
High Plains Hybrids
1114 So. Monroe
Hugoton, KS 67951
316-544-4330

Asgrow

Asgrow Seed Co.
2605 E. Kilgore
Kalamazoo, MI 49001
616-384-5596

Freedom

John Sledge
Freedom Seed Co.
U.S. Route 24 East
Astoria, IL 61501
800-262-4480

Hawkeye

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

Bo-Jac

Robert Foley
Bo-Jac Hybrid Seed Co.
245 1500th Ave.
Mt. Pulaski, IL 62548
800-397-2069

Garst

Garst Seed Co.
2369 330th St.
Slater, IA 50244
800-831-6630

Hoegemeyer

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

Cargill

Jack Carlson
Cargill Hybrid Seeds
P.O. Box 5645
Minneapolis, MN 55440
612-742-6743

Giant

Wayne Carpenter
Giant Seed Co.
1638 S. Roosevelt Rd. 12
Portales, NM 88130
505-276-8470

Kaystar

Ken King
Kaystar Seed
702 3rd St. SW
P.O. Box 947
Huron, SD 57350
605-352-8791

DeKalb

DeKalb Plant Genetics Corp.
3100 Sycamore Rd.
DeKalb, IL 60115
815-756-3461

Golden Harvest

Bill Green
J.C. Robinson Seed Co.
100 J.C. Robinson Blvd.
P.O. Box A
Waterloo, NE 68069
800-228-9906

L.G. Seeds

Mitch Jensen
L.G. Seeds
3551 City Rd. F Box 88
TeKamah, NE 68061
800-752-6574

DeLange

Steve Ahring
Delange Seed (AGSECO)
P.O. Box 7
Girard, KS 66743
316-724-6223

Great Lakes

Great Lakes Hybrids, Inc.
P.O. Box 637
9915 W. M-21
Ovid, MI 48866
800-257-7333

Lewis

Scott Lewis
Lewis Hybrids Inc.
P.O. Box 38
W. Maple St.
Ursa, IL 62376
217-964-2131

(continued)

APPENDIX 1: Entrants in the 1997 Kansas Corn Performance Tests

MSG (Ohlde)

Leonard Luebker
Midwest Seed Genetics, Inc.
P.O. Box 518
Carroll, IA 51401
800-369-8218

Otilie

Tom Simpson
Otilie RO Seeds
1850 County Rd. 15
Box 914
Colby, KS 67701
913-462-3709

Renze

Tim Renze
Renze Hybrids
27410 Kittyhawk Ave.
Carroll, IA 51401
712-669-3301

Midland

Clyde Sylvester
Midland Seeds, Inc.
1906 Kingman Rd.
Ottawa, KS 66067
800-819-SEED

Patriot

Ruth Cheesman
Patriot Seed, Inc.
208 S. Worrell, Box 97
Bowen, IL 62316
217-842-5612

Stauffer

Sharon Carter-Bahe
Stauffer Seeds
P.O. Box 68
Aurora, NE 68818
800-676-7759

Miller Preferred

Donald Miller
Miller Grass Seed Co.
1600 Cornhusker Hwy
Box 81823
Lincoln, NE 68521
402-438-1232

Pfister

Ron Roklersberger
Pfister Hybrid Corn Co.
P.O. Box 187
El Paso, IL 61738
309-527-6000

Terra

Harold Davis
Terra International, Inc.
P.O. Box 6000
Sioux City, IA 51102-6000
712-233-3609

Mycogen

Maynard Ochs
Mycogen Seeds
RR 1 BOX 22A
York, NE 68467
402-362-3094

Pioneer

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

Triumph

Ben Benton
Triumph Seed Co. Inc.
P.O. Box 1050
Ralls, TX 79357
806-253-2584

NC+

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

Premium Seed

Betty M. Shaw
Premium Seed, Inc.
P.O. Box 218
Berwick, IL 61417
800-345-7798

Wilson

Jerry F. Strissel
Wilson Seeds, Inc.
P.O. Box 391
Harlan, IA 51537
712-755-3841

NK

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

Producer's

Bob Kleinschmidt
Producer's Hybrids
P.O. Box C
Battle Creek, NE 68715
402-675-2975

APPENDIX 2: Entries in the 1997 Kansas Corn Performance Tests

AGRIPRO					FONTANELLE				
	GDD	DBL	GRN	RES P F*		GDD	DBL	GRN	RES P F*
AP 9489	2440	108		N Y	4193			FG	N Y
AP 9565	2520	111		N Y	4997			FG	? Y
AP 9572	2520	111		N Y	5306				N Y
AP 619	2560	114		N Y	5335				N Y
AP 9616	2560	114		N Y	5567				N Y
HS 9843	2780	118		N Y	5676				N Y
					5786				N Y
ASGROW					FREEDOM				
	GDD	DBL	GRN	RES P F*		GDD	DBL	GRN	RES P F*
RX760	2570	113		N Y	5555				
RX813	2580	115		N Y	5680				
RX897	2585	118		N Y	5695				
BO-JAC					GARST				
	GDD	DBL	GRN	RES P F*		GDD	DBL	GRN	RES P F*
415	2690	109		Y Y	8560	2540	105		Y Y
544	2720	111		Y Y	8543IT	2570	109		IT N Y
614	2770	115		Y Y	8464	2570	111		N Y
CARGILL					GIANT				
	GDD	DBL	GRN	RES P F*		GDD	DBL	GRN	RES P F*
6303	2480	110		N N	8366	2580	113		N Y
6997	2530	112		N N	8396IT	2600	114		IT N Y
6888	2550	113		N Y	8342	2610	114		N Y
7770	2550	114		Y Y	8325	2610	115		N Y
8327	2610	116		N Y	8285	2670	118		N Y
8011	2615	116		N Y	N5250 EXP	2675	118		N Y
8311	2625	117		N Y	GIANT				
DEKALB						GDD	DBL	GRN	RES P F*
	GDD	DBL	GRN	RES P F*	GB 3097	2500	108		N Y
DK442	2350	94		Y Y	GB 3147	2750	114		N Y
DK569	2670	106		Y Y	GOLDEN HARVEST				
DK580	2710	108		Y Y		GDD	DBL	GRN	RES P F*
DK595	2720	109		Y Y	H-2547	2610	113		N Y
DK626	2800	112		Y Y	H-2581	2720	115		N Y
DK632	2800	113		Y Y	GREAT LAKES				
DK641	2775	114		Y Y		GDD	DBL	GRN	RES P F*
DK642	2845	114		Y Y	GL 5715	2450	105		N N
DK652	2830	115		Y Y	GL 5849	2520	108		N N
DK668	2870	116		Y Y	GL 6317	2560	113		N Y
DK687	2930	118		Y Y	HAWKEYE				
DK715	2960	121		Y Y		GDD	DBL	GRN	RES P F*
DELANGE					SX44A	2570	108		N Y
	GDD	DBL	GRN	RES P F*	SX55	2595	110		N Y
DS 1204	2400	104	Wax	Y Y	7979	2610	112		N Y
DS 1995	2600	113	Wax	Y Y	SX62	2620	112		N Y
DS 1997	2600	113	Wax	Y Y	SX66	2635	113		N N
					SX81	2635	113		N Y

*GDD = Growing Degree Days; DBL = Days to Black Layer; GRN = Grain characteristics (FG = Food Grade, Wax = Waxy); RES = Herbicide and insect resistance traits (IMI, IT = Imidazolinone Resistant/Tolerant, ECB = European Corn Borer Resistance); P = Prolific; F = Flex ear; values provided by entrants.

(continued)

APPENDIX 2: Entries in the 1997 Kansas Corn Performance Tests

HOEGEMEYER					MSG (OHLDE)				
	GDD	DBL	GRN	RES P F*		GDD	DBL	GRN	RES P F*
2567	2410	98		Y	G 7711	2600	109		N Y
2591	2440	101		Y	O 331	2530	112		N Y
2592	2450	103		N	G 8511	2780	116		N Y
2623	2520	108		Y	G 8699	2800	116		N Y
2655	2590	111		Y	G 8771	2880	119		N Y
2666	2610	113		Y					
2693	2650	115		Y	MYCOGEN	GDD	DBL	GRN	RES P F*
2682	2670	116		Y	2545	2430	101		Y
2689	2680	117		Y	2677	2680	108		S
					2689	2700	109		Y
					2725	2750	111		Y
HPH	GDD	DBL	GRN	RES P F*	7250	2800	114	ECB	S
KS 5119	111			N Y	2868	2845	118		Y
KS 5145	114			N Y	2888	2850	119		Y
KS 2165	116			N Y	8460	2890	120		Y
KS 2186	118			N Y					
KAYSTAR	GDD	DBL	GRN	RES P F*	NC+	GDD	DBL	GRN	RES P F*
KX - 777	110			N Y	1585	2245	94		Y Y
KX - 808	111			N Y	3544	2425	106		S
					5007	2266	110		Y
LEWIS	GDD	DBL	GRN	RES P F*	4616	2425	110		Y
5446	2560	111		N Y	4880	2430	111		Y
5584	2570	111		N Y	4919	2450	111		Y Y
6294	2670	116		N Y	5697	2246	113		Y
8356	2700	117		N Y	5445	2515	113		Y
					6387	2308	116		S
LG SEEDS	GDD	DBL	GRN	RES P F*	6959	2590	117		Y Y
LG2579	2520	109		N Y	7117	2590	118		Y
LG2624	2550	112		N Y	7237	2320	119		Y
LG2637	2580	114		N Y					
LG2705	2610	116		N Y	NK	GDD	DBL	GRN	RES P F*
LG2726	2635	118	FG	N Y	N4640	2545	103		N Y
					N5857IMI	2600	105	IMI	N N
MIDLAND	GDD	DBL	GRN	RES P F*	N69-R1	2760	112		N N
774	2665	117		Y Y	N7070	2720	113		N N
786	2690	118		Y Y	N7333	2760	113		N N
					N7590	2770	114		N N
MILLER PREF.	GDD	DBL	GRN	RES P F*	4662	2870	118		N N
MP-1072	107			N Y					
MP-1123	112			N Y	OTILIE	GDD	DBL	GRN	RES P F*
MP-1131	113			N Y	2453	2610	109	FG	Y N
MP-1133	113			N Y	5050	2630	110	FG	Y Y
MP-1134	113			N Y	2467	2460	112	FG	Y Y
MP-1154	115			N Y	5460	2700	114	FG	Y Y
MP-1161	116			N Y	5550	2756	115	FG	Y Y

*GDD = Growing Degree Days; DBL = Days to Black Layer; GRN = Grain characteristics (FG = Food Grade, Wax = Waxy); RES = Herbicide and insect resistance traits (IMI, IT = Imidazolinone Resistant/Tolerant, ECB = European Corn Borer Resistance); P = Prolific; F = Flex ear; values provided by entrants.

(continued)

APPENDIX 2: Entries in the 1997 Kansas Corn Performance Tests

PATRIOT					STAUFFER				
	GDD	DBL	GRN	RES P F*		GDD	DBL	GRN	RES P F*
5120				N Y	2625	2560	108		Y
6142				N Y	2436	2650	110		Y
6168				N Y	2207	2675	111		Y
7172				N Y	2792	2890	116		Y
7187				N Y	2820	2945	118		Y
7197				N Y					
PFISTER					TERRA				
	GDD	DBL	GRN	RES P F*		GDD	DBL	GRN	RES P F*
2650				N Y	TR1026	2410	102		N Y
2652				N N	TR1087	2460	108		N Y
2680				N Y	TR1106	2560	110		N Y
3049				N Y	TR1157	2680	115		N Y
					TR1176	2720	117		N Y
					TR1185	2720	118		N Y
					TR702	2780	120		N Y
PIONEER					TRIUMPH				
	GDD	DBL	GRN	RES P F*		GDD	DBL	GRN	RES P F*
3737	2370	98		N Y	8810	2410	107		N Y
3563	2550	103		N Y	1141	2470	111		N Y
3568	2600	104		N Y	1220	2490	112		N Y
34K77	2660	107	FG	N Y	1452	2530	113		N Y
3489	2630	108		N Y	1514	2550	115		N Y
3346	2690	113		N Y	1522	2560	115		N Y
3335	2770	113		N Y	2010	2650	120		N Y
32K61	2770	114		N Y					
3394	2660	116	FG	N Y	WILSON				
32J55	2740	116	FG	N Y		GDD	DBL	GRN	RES P F*
3237	2790	116		N Y	1394	2625	105		N Y
3223	2820	116		N Y	1475PT	2650	108	IMI	Y Y
PREMIUM					1644	2750	110		N Y
	GDD	DBL	GRN	RES P F*	1664	2775	111		N Y
P230	2608	109		N Y	1719	2800	112		N Y
PRODUCERS					1792	2900	115		N Y
	GDD	DBL	GRN	RES P F*	2330	2975	120		N Y
610	2633			N	E975305	2975	120		N Y
621	2666				E975307	2975	120		N Y
714	2722			Y	2335	3000	120		N Y
729	2810			S	MATURITY CHECK				
732	2835			Y		GDD	DBL	GRN	RES P F*
807	2895			Y	F-B73 X N204				
RENZE					FB73rhmxMO17				
	GDD	DBL	GRN	RES P F*	SHORT - C4111		102		
6386	2440	142		N Y	MID-H-2530		110		
6345	2450	143		N Y	PIONEER 3162	2770	118	FG	N Y
6397	2490	146		N Y					
6506	2560	155		N Y					

*GDD = Growing Degree Days; DBL = Days to Black Layer; GRN = Grain characteristics (FG = Food Grade, Wax = Waxy); RES = Herbicide and insect resistance traits (IMI, IT = Imidazolinone Resistant/Tolerant, ECB = European Corn Borer Resistance); P = Prolific; F = Flex ear; values provided by entrants.

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