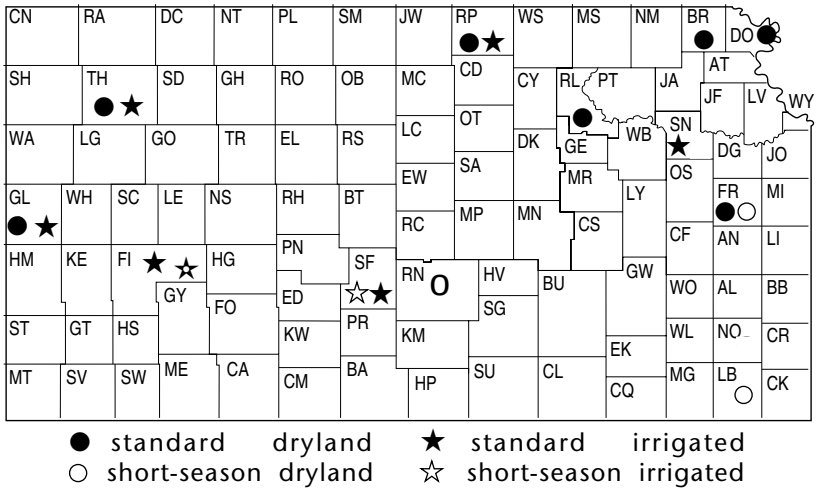
1995

KANSAS PERFORMANCE TESTS WITH

CORN HYBRIDS



Report of Progress 747

Agricultural Experiment Station * Kansas State University, Manhattan * Marc A. Johnson, Director

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Contribution No. 96-199-S from the Kansas Agricultural Experiment Station.

1995 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 hybrids are 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.

Beginning in 1994, standard corn performance tests were divided into groups based on hybrid maturity. The early group included hybrids with 110 or fewer days to black layer. The medium group included hybrids with 111-115 days to black layer. Hybrids listed as greater than 115 days to black layer were included in the late group. The intent was to minimize competitive effects caused by maturity and to emphasize comparisons between hybrids of similar maturity.

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 1995 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 1995 and normal. All graphs include vertical lines indicating planting, silking, and harvest date, 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 1-13 contain results from individual locations of the standard corn performance tests. A yield summary (Table 14) presents yields as a percent of the average for each maturity at each location. Tables 15-19 contain results from the short-season tests. Table 20 lists yields expressed as a percent of the test averages from the short-season tests. The 1995 entrants, entries, and some additional descriptive information are listed in the Appendixes.

Three of the 18 tests were abandoned for various reasons. The first planting of the Shawnee County dryland test was lost to herbicide carryover in one corner. The second test at this site was planted very late and had uneven emergence. Two plantings of the Neosho County

test were flooded. The dryland short-season test in Stafford County looked good until strong winds just before harvest caused almost 100% lodging. Damage from the southwestern corn borer likely contributed to the lodging.

Beginning in 1995, all 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. In most of the standard tests, hybrids of similar maturity were grouped with each other in each replication. In two tests (Greeley Co. dryland and Thomas Co. dryland), four-row plots were used. 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 and DROPPED EARS* is reported, when appropriate. Plants broken over below the ear 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, dropped ears do not significantly affect yields. In 1995, high winds just before harvest caused significant numbers of dropped ears in several tests.

Relative maturity is measured in terms of both *GRAIN MOISTURE AT HARVEST* and *NUMBER OF DAYS FROM PLANTING TO SILKING* at most locations. Relative moisture at harvest usually is a better maturity indicator, unless harvest is delayed. Hybrids are listed first from lowest to highest grain moisture and then from fewest to most days to silking within each moisture level. This emphasizes the maturity differences of the hybrids in addition to yield performance. 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 (L.S.D.'s) are shown at the bottom of each maturity group for comparisons within that group and at the bottom of each performance test table for comparisons between maturity groups. Be sure to use the correct L.S.D. for the comparison of interest. Unless two entries differ by at least the L.S.D. shown, little confidence can be placed in one being superior to the other. The coefficient of variability (C.V.) can be used to estimate the degree of confidence one may have in published data from replicated tests. In this

testing program, C.V.'s below 10% generally indicate reliable, uniform data, whereas C.V.'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 C.V.'s over 15% still may be useful, but hybrid comparisons lack precision.

1995 STATEWIDE GROWING CONDITIONS

Cool, wet weather delayed planting and subsequent crop development for much of the growing season. Corn planting lagged much behind normal during the entire planting season. By the end of May, when most of the corn is normally planted, only 61% of the crop was in the ground. Many acres originally intended for corn eventually were planted to crops requiring a shorter growing season. Only 45% of the crop was silked by the end of July, when silking is normally nearly complete. At the end of August, only 18% of the crop was dented compared to the normal of 58%. Perhaps the most critical effect of the late crop development was that much of the crop was still not mature in the third week of September when a hard freeze put a stop to further dry matter accumulation in most of the corn acreage. Normally, 84% of the crop is mature by that time, but only 54% was mature in 1995. Harvest had just begun to take off but did not make rapid progress until a week or two after the freeze. (From **Crop-Weather** reports, Kansas Agricultural Statistics, Topeka.)

The wet, cool spring compressed the 1995 growing season and affected the development of insect populations. Entomologists found a high number of black cutworm moths in eastern Kansas in early May, but the anticipated severe damage generally did not occur. Flea beetles occasionally caused some minor problems, primarily in eastern counties. A number of larval stage insects (corn earworm, European corn borer, fall armyworm) infested leaf whorls in pretassel corn and caused "shot hole" damage in corn in the eastern two-thirds of the state. First generation European corn borers began to appear in early June in the east. Some heavy infestations of this pest were found in north central and northeast Kansas, but populations and damage were generally later and lighter than normal. Southwestern corn borer development also was later than normal, but this insect caused substantial damage in south central and southwestern corn fields. Fields in the Arkansas River bottoms in southwestern Kansas were hit especially hard. Typical control measure for both European and southwestern corn borers seemed to be less effective than normal in 1995. Entomologists suggested that a number of factors likely contributed to the poor performance of chemical controls: the cool spring weather caused a long egg-laying period that put the insects at a less optimum stage at treatment time, heat later in the season caused larvae to bore into the stalk sooner than usual, and some level of resistance to insecticides may be building up in the insect populations. Spider mite infestations didn't really take off until August and caused significant damage primarily in the southwest. Western corn rootworm populations had started to build in southwestern counties in August, but the populations appeared to crash in mid-August for unexplained reasons. (From **Cooperative Economic Insect Survey Report**, Kansas State Board of Agriculture.)

Pathologists tracked several new occurrences of two diseases in 1995. Stewart's bacterial complex (Stewart's wilt, Stewart's leaf blight) and gray leaf spot were both noted for the first time in several north central and northwest counties. Wet spring conditions likely contributed to frequent occurrences of crazy top, especially in eastern Kansas. Southern rust and/or common maize rust were widespread but usually at low levels. Fusarium and Pythium stalk rots were common across most of the state at low levels late in the season. Fusarium stalk rot reached moderate levels in some northeast fields. High plains virus was detected again in southwest Kansas. (From **Plant Disease Survey Report**, Kansas State Board of Agriculture.)

The November 9 Kansas Agricultural Statistics report predicted a 234.0 million bushel crop, down 23% from 1994. This production is from 1.95 million harvested acres, down 8% from last year. The predicted average yield of 120 bushels per acre is 23 bushels below that in 1994. (From **Crops** Report November 9, Kansas Agriculture Statistics.)

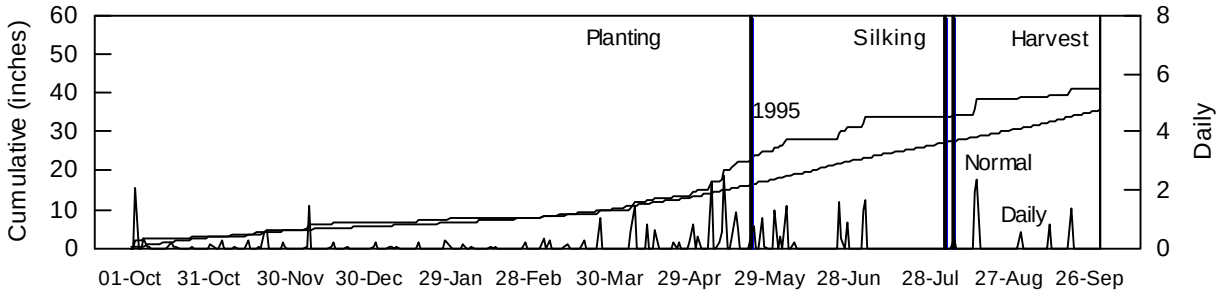
NORTHEASTERN KANSAS STANDARD CORN TEST ON SILT LOAM SOIL

LOCATION: Private farm
1 mile north of Severance in **Doniphan County**
COOPERATORS: Fuhrman Farms, Inc.
TEST SITE: Manona silt loam
Soybeans in 1994, corn in 1993
FERTILIZATION: 149 lbs N/acre preplant
PLANTING DATE: May 22
HARVEST DATE: October 3 & 4
PEST CONTROL: Good
Roundup and 2,4-D preplant, cultivation and Buctril herbicide after emergence
POPULATION: 23,232 plants/acre, 9 in. spacing

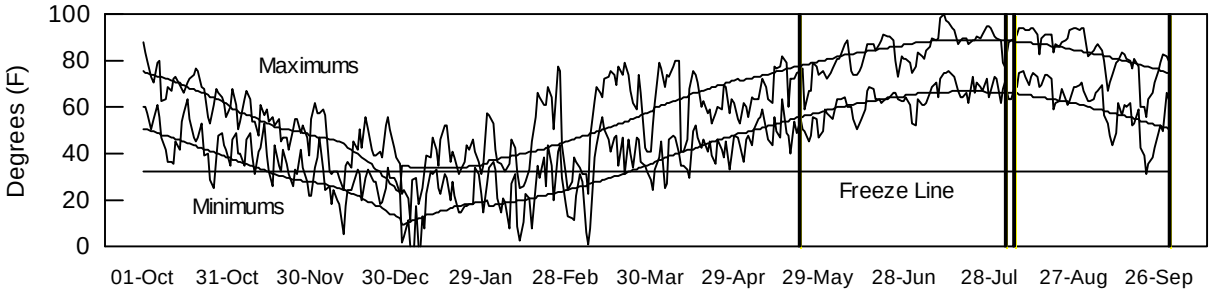
	EARLY	MEDIUM	LATE	ALL
STAND (%):	104	109	109	108
TEST YIELDS:				
Avg. (bu/a):	142	144	137	140
Range (bu/a):	112-156	122-164	101-158	101-164
L.S.D. (bu/a):	14	14	16	17
C.V. (%):	8	8	10	9
SILK DATES:	**8/3-8/5**	**8/3-8/6**	**8/3-8/6**	**8/3-8/6**

1995 GROWING CONDITIONS:
Spring rains prevented timely planting, but stands were good. Cool temperatures in June slowed early plant development, but optimal growing conditions in July promoted vigorous growth. No insects or diseases caused noticeable damage.

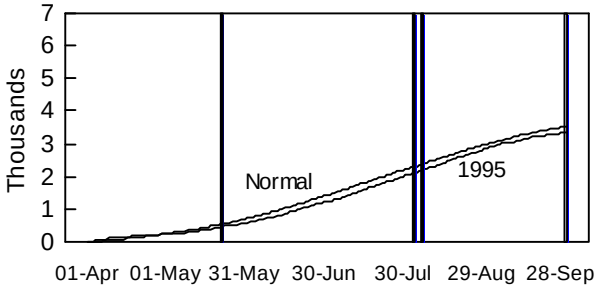
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1995	Normal	1995	Normal	1995	Normal
April	4.7	3.3	52	55	232	255
May	11.8	4.4	60	65	339	453
June	4.7	5.2	72	74	660	726
July	2.9	4.1	79	78	836	841
August	5.1	3.8	80	76	813	748
Sept.	2.2	4.9	65	68	500	532
Season Totals	31.4	25.7	68	69	3380	3555

TABLE 1. DONIPHAN CO. STANDARD CORN PERFORMANCE TEST RESULTS, 1993-95.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			94-95		1995				
					2-Yr.	3-Yr.				Mois- ture	Days to	Mois- ture	Days to	Final Stnd	Lod- ging	Test Wt.
BRAND	HYBRID	1995	1994	1993	AVG.	AVG	1995	1994	1993	%	Silk	%	Silk	%	%	lb/bu
EARLY HYBRIDS																
MATURITY CHECK	SHORT-C4327	112	187	--	150	--	80	98	--	18	73	18	73	107	1	54
DEKALB	DK591	144	201	--	173	--	102	105	--	18	74	19	74	105	0	54
PFISTER	2650	148	--	--	--	--	106	--	--	--	--	20	73	100	0	54
BO-JAC	409	142	--	--	--	--	101	--	--	--	--	20	74	97	1	55
BO-JAC	438	145	175	--	160	--	104	92	--	18	73	20	74	94	1	54
DELTAPINE	4450	143	173	131	158	149	102	90	95	18	74	20	74	110	2	55
CARGILL	6303	140	--	--	--	--	99	--	--	--	--	21	73	100	0	52
OHLDE(M/W GEN)	316	145	--	--	--	--	103	--	--	--	--	21	74	117	0	54
OHLDE(M/W GEN)	309	156	--	--	--	--	111	--	--	--	--	22	74	113	1	52
LEWIS	4985	145	--	--	--	--	104	--	--	--	--	22	75	100	1	53
Early Averages		142	186	--	164	--	101	97	--	19	73	20	74	104	1	53
C.V.(%)		8	7	--	--	--	8	7	--	--	--	5	1	7	211	1
L.S.D.(0.05)*		14	16	--	--	--	10	8	--	--	--	2	NS	9	NS	1
MEDIUM HYBRIDS																
PIONEER	3375	129	--	--	--	--	92	--	--	--	--	19	73	114	2	53
BO-JAC	577	130	189	145	159	155	92	99	105	18	74	19	74	112	1	54
MATURITY CHECK	MID-H-2530	132	174	--	153	--	94	91	--	18	74	19	74	104	1	54
NC+	5037	122	--	143	--	--	87	--	104	--	--	19	74	110	0	54
RENZE	6345	164	--	--	--	--	117	--	--	--	--	19	74	117	0	55
ASGROW	RX770	151	--	--	--	--	107	--	--	--	--	19	75	112	2	53
DEKALB	DK626	122	--	--	--	--	87	--	--	--	--	19	75	103	1	52
FONTANELLE	5325	137	--	--	--	--	98	--	--	--	--	20	73	100	1	55
OHLDE(M/W GEN)	312	128	199	--	163	--	91	104	--	19	74	20	74	83	2	54
TRIUMPH	1522	147	--	--	--	--	105	--	--	--	--	20	74	111	0	55
PIONEER	3394	145	200	159	173	168	103	105	115	19	73	21	73	113	0	54
BO-JAC	580	163	--	--	--	--	116	--	--	--	--	21	74	113	1	53
DEKALB	DK646	127	217	149	172	165	91	114	108	20	74	21	74	107	1	52
NORTHRUP KING	N7590	135	--	--	--	--	96	--	--	--	--	21	74	100	3	51
OHLDE(M/W GEN)	331	160	199	--	179	--	114	104	--	19	73	21	74	110	3	54
PIONEER	3225	126	207	--	167	--	90	109	--	20	74	21	74	108	3	54
RENZE	6386 EXP	161	--	--	--	--	114	--	--	--	--	21	74	106	1	53
TRIUMPH	1452	131	--	--	--	--	93	--	--	--	--	21	74	109	0	53
ASGROW	RX789	152	--	--	--	--	108	--	--	--	--	21	75	110	0	52
GOLDEN HARVEST	H-2581	159	--	--	--	--	113	--	--	--	--	21	75	113	0	53
FONTANELLE	5624	154	--	--	--	--	110	--	--	--	--	22	74	111	1	51
HAWKEYE	SX62	162	--	--	--	--	115	--	--	--	--	22	74	115	0	52
ICI	8330	137	--	--	--	--	97	--	--	--	--	22	74	113	1	53
LEWIS	5584	159	200	--	179	--	113	105	--	20	75	22	74	117	1	53
HAWKEYE	SX81	148	227	--	188	--	106	119	--	21	76	22	75	106	4	52
OHLDE(M/W GEN)	340	145	197	--	171	--	103	103	--	20	74	22	75	107	0	53
HAWKEYE	7994	139	--	--	--	--	99	--	--	--	--	22	76	114	0	53
CARGILL	7777	153	200	--	176	--	109	105	--	21	73	23	73	111	1	52
ASGROW	RX801	149	--	--	--	--	106	--	--	--	--	23	74	117	1	53
NORTHRUP KING	N7333	153	205	--	179	--	109	108	--	21	74	23	74	105	2	53
Medium Averages		144	195	--	170	--	103	102	--	20	74	21	74	109	1	53
C.V.(%)		8	9	--	--	--	8	9	--	--	--	5	1	7	188	1
L.S.D.(0.05)*		14	20	--	--	--	10	10	--	--	--	2	1	9	NS	1

(continued)

TABLE 1. DONIPHAN CO. STANDARD CORN PERFORMANCE TEST RESULTS, 1993-95.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			94-95		1995				
BRAND	HYBRID	1995	1994	1993	2-Yr. AVG.	3-Yr. AVG	1995	1994	1993	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Test Wt. lb/bu
LATE HYBRIDS																
MATURITY CHECK	F-B73 X N204	101	--	--	--	--	72	--	--	--	--	21	73	107	3	54
CARGILL	7997	133	183	163	158	160	95	96	118	20	74	21	74	106	0	53
FONTANELLE	6162	158	214	162	186	178	112	112	117	19	74	21	75	107	1	55
HOEGEMEYER	2693	143	--	--	--	--	102	--	--	--	--	21	75	107	1	54
RENZE	6416 EXP	143	--	--	--	--	102	--	--	--	--	22	74	114	0	53
RENZE	6425	143	--	--	--	--	102	--	--	--	--	22	74	114	0	53
STINE	9801	149	--	--	--	--	106	--	--	--	--	22	74	115	2	52
DELTAPINE	G-4673B	129	197	116	163	147	92	103	84	21	75	22	75	103	2	52
HOEGEMEYER	2689	143	--	128	--	--	102	--	93	--	--	22	76	103	3	54
MATURITY CHECK	FB73rhmXMO17	127	--	--	--	--	90	--	--	--	--	23	74	110	1	51
NORTHRUP KING	N7989	132	--	--	--	--	94	--	--	--	--	23	74	113	3	52
OHLDE(M/W GEN)	300	124	201	147	163	157	88	105	107	22	75	23	74	113	1	51
OHLDE(M/W GEN)	362	147	--	--	--	--	105	--	--	--	--	23	74	115	2	52
DELTAPINE	4581	129	191	131	160	150	92	100	94	22	76	23	75	109	3	51
LEWIS	6294	134	--	--	--	--	95	--	--	--	--	23	75	104	2	51
PFISTER	3965	135	--	--	--	--	96	--	--	--	--	23	75	106	0	52
ASGROW	RX843	134	--	--	--	--	95	--	--	--	--	24	74	112	0	51
ICI	8285	135	192	--	163	--	96	100	--	23	75	24	74	112	2	51
OHLDE(M/W GEN)	510	146	194	150	170	163	104	102	109	23	75	24	74	110	2	50
PFISTER	3976	134	--	--	--	--	95	--	--	--	--	24	75	111	1	51
WILSON	2330	140	204	160	172	168	100	107	116	23	76	24	75	116	1	51
BO-JAC	629	151	--	--	--	--	107	--	--	--	--	25	74	108	0	51
CARGILL	8327	147	204	135	176	162	105	107	98	23	76	25	74	102	0	50
NC+	6959	144	206	--	175	--	102	108	--	23	75	25	74	107	2	51
OHLDE(M/W GEN)	363	149	--	--	--	--	106	--	--	--	--	25	74	113	1	51
WILSON	1910	131	--	--	--	--	93	--	--	--	--	25	74	105	1	51
GOLDEN HARVEST	H-2641	140	--	--	--	--	100	--	--	--	--	26	74	114	1	50
HOEGEMEYER	2761	127	205	129	166	154	91	108	93	24	75	26	74	107	1	50
MYCOGEN	8240	130	199	125	164	151	92	104	90	24	76	26	74	107	1	50
WILSON	E12015 EXP	136	--	--	--	--	97	--	--	--	--	26	75	108	1	49
MYCOGEN	8460	131	--	--	--	--	93	--	--	--	--	28	75	107	2	49
ASGROW	RX893	127	--	--	--	--	90	--	--	--	--	29	75	93	2	48
Late Averages		137	190	--	163	--	97	99	--	22	75	24	74	109	1	51
C.V.(%)		10	10	--	--	--	10	10	--	--	--	7	1	8	178	2
L.S.D.(0.05)*		16	23	--	--	--	11	12	--	--	--	3	1	NS	NS	1
ALL HYBRIDS																
Test Averages		140	191	138	166	157	140	191	138	21	75	22	74	108	1	52
C.V.(%)		9	9	--	--	--	9	9	--	--	--	6	1	8	187	1
L.S.D.(0.05)**		17	25	23	--	--	12	13	17	--	--	3	1	12	NS	2

* L.S.D. for comparing hybrids within a maturity grouping.
** L.S.D. for comparing hybrids in different maturity groups.
Unless two varieties differ by more than the L.S.D., little confidence can be placed in one being superior to the other.

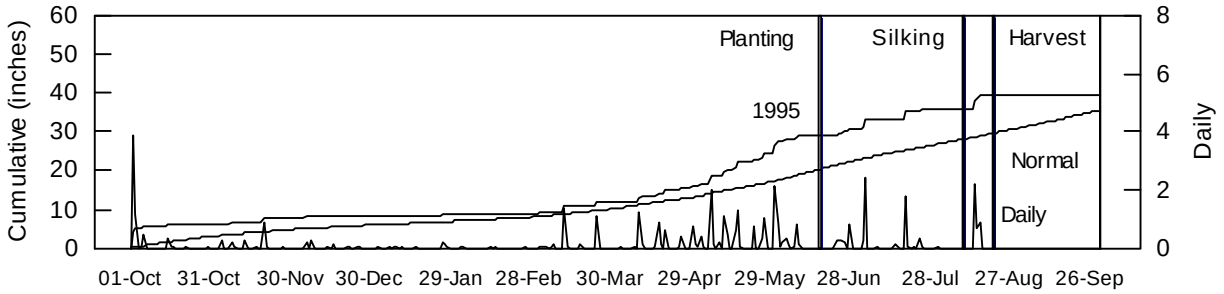
NORTHEASTERN KANSAS STANDARD CORN TEST ON SILTY CLAY LOAM SOIL

LOCATION: Cornbelt Experiment Field
9 miles southwest of Hiawatha in **Brown County**
COOPERATORS: Brian Marsh, agronomist
Steve Milne and David Zeit, technicians
TEST SITE: Grundy silty clay loam
Soybeans in 1994, corn in 1993
FERTILIZATION: 120 lbs N/acre preplant
PLANTING DATE: June 17
HARVEST DATE: October 13
PEST CONTROL: Good
POPULATION: 20,000 plants/acre, 10.5 in. spacing

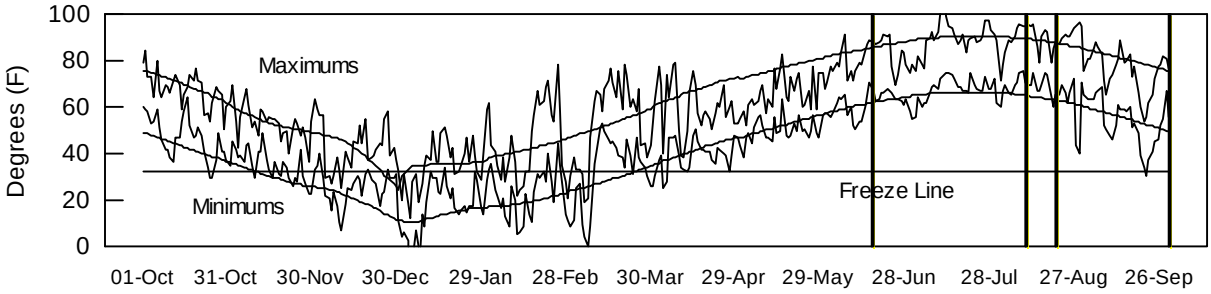
	EARLY	MEDIUM	LATE	ALL
STAND (%):	113	114	117	115
TEST YIELDS:				
Avg. (bu/a):	80	79	76	78
Range (bu/a):	71-90	61-91	62-91	61-91
L.S.D. (bu/a):	NS	12.8	9.6	13.6
C.V. (%):	13.1	13.7	10.7	12.4
SILK DATES:	**8/10-8/15**	**8/13-8/18**	**8/16-8/21**	**8/10-8/21**

1995 GROWING CONDITIONS:
Wet weather delayed planting, but emergence was very rapid. High winds on August 14 after 3 weeks of hot, dry weather caused almost all plots to lodge. The lodging made harvest difficult. The September 22 freeze froze some kernels and slowed dry-down. Late maturing hybrids were affected most severely.

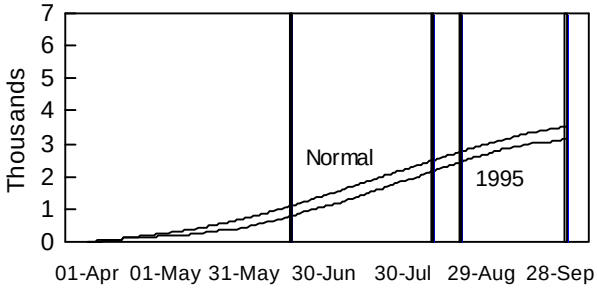
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1995	Normal	1995	Normal	1995	Normal
April	4.4	3.2	50	55	169	274
May	10.3	4.0	59	65	281	450
June	4.3	5.6	71	74	643	722
July	5.0	4.1	79	78	831	834
August	3.8	4.0	78	76	785	745
Sept.	0.0	4.7	64	68	466	531
Season Totals	27.8	25.6	67	69	3175	3555

TABLE 2. BROWN CO. STANDARD CORN PERFORMANCE TEST RESULTS, 1993-95.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			94-95		1995				
					2-Yr.	3-Yr.				Mois-	Days	Mois-	Days	Final	Lod-	Test
BRAND	HYBRID	1995	1994	1993	AVG.	AVG	1995	1994	1993	ture %	to Silk	ture %	to Silk	Stnd %	ging %	Wt. lb/bu
EARLY HYBRIDS																
MATURITY CHECK	SHORT-C4327	84	117	--	101	--	108	95	--	24	66	22	55	116	40	56
DEKALB	DK591	90	115	--	103	--	116	93	--	24	69	23	57	115	35	54
BO-JAC	438	76	112	--	94	--	97	90	--	25	69	25	58	107	69	55
NC+	4616	79	--	--	--	--	102	--	--	--	--	25	59	116	72	53
BO-JAC	409	75	--	--	--	--	97	--	--	--	--	26	59	109	66	52
DELTAPINE	4450	71	116	87	93	91	92	93	95	26	69	26	59	118	48	54
PFISTER	2650	80	--	--	--	--	103	--	--	--	--	27	59	113	61	51
ICI	8541	81	--	--	--	--	104	--	--	--	--	28	58	106	58	51
Early Averages		80	115	--	97	--	102	92	--	25	69	25	58	112	56	53
C.V.(%)		13	6	--	--	--	13	6	--	--	--	6	2	7	38	3
L.S.D.(0.05)*		NS	8	--	--	--	NS	6	--	--	--	2	1	NS	NS	2
MEDIUM HYBRIDS																
PIONEER	3346	88	124	83	106	98	113	100	91	24	70	25	59	119	13	55
FONTANELLE	5325	86	--	--	--	--	111	--	--	--	--	26	57	109	10	53
PIONEER	3394	79	--	--	--	--	101	--	--	--	--	26	60	118	35	53
LEWIS	5584	72	126	--	99	--	93	102	--	25	71	27	60	119	44	53
PIONEER	3279	91	124	--	108	--	117	100	--	25	71	27	60	124	28	51
GOLDEN HARVEST	H-2581	76	--	--	--	--	98	--	--	--	--	27	61	102	38	52
MATURITY CHECK	MID-H-2530	84	111	--	97	--	107	90	--	27	71	28	59	118	29	53
FONTANELLE	5624	85	--	--	--	--	109	--	--	--	--	28	60	116	20	52
OHLDE(M/W GEN)	312	72	--	--	--	--	93	--	--	--	--	28	60	96	38	51
COOP	7820	77	--	--	--	--	100	--	--	--	--	28	61	120	62	53
GOLDEN HARVEST	H-2547	61	--	--	--	--	78	--	--	--	--	28	61	114	30	52
OHLDE(M/W GEN)	340	83	--	--	--	--	107	--	--	--	--	28	61	112	64	52
ICI	8330	74	--	--	--	--	95	--	--	--	--	29	61	113	44	51
CARGILL	7777	84	131	--	108	--	109	106	--	26	71	30	60	112	54	50
NORTHRUP KING	N7590	89	--	--	--	--	115	--	--	--	--	30	60	108	14	50
OHLDE(M/W GEN)	331	77	--	--	--	--	99	--	--	--	--	30	60	116	56	51
HAWKEYE	SX81	76	--	--	--	--	98	--	--	--	--	30	61	117	39	50
HAWKEYE	7378	70	136	--	103	--	90	109	--	25	73	30	62	124	63	49
HAWKEYE	8981	77	137	--	107	--	99	110	--	25	73	31	61	115	47	50
DEKALB	DK626	79	--	--	--	--	102	--	--	--	--	32	62	115	47	50
COOP	7810	71	--	--	--	--	91	--	--	--	--	33	61	115	42	49
DEKALB	DK646	84	129	93	106	102	108	104	103	29	73	35	61	115	26	47
Medium Averages		79	122	--	100	--	101	99	--	26	72	29	60	114	38	51
C.V.(%)		14	6	--	--	--	14	6	--	--	--	6	2	10	45	4
L.S.D.(0.05)*		13	9	--	--	--	16	7	--	--	--	2	2	NS	20	2

(continued)

TABLE 2. BROWN CO. STANDARD CORN PERFORMANCE TEST RESULTS, 1993-95.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			94-95		1995				
BRAND	HYBRID	1995	1994	1993	2-Yr. AVG.	3-Yr. AVG	1995	1994	1993	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Test Wt. lb/bu
LATE HYBRIDS																
LEWIS	6294	89	--	--	--	--	115	--	--	--	--	29	64	116	30	50
CARGILL	8327	84	138	90	111	104	108	112	99	25	73	30	61	108	37	50
STINE	9801	75	--	--	--	--	97	--	--	--	--	30	61	123	62	50
FONTANELLE	6340	90	137	97	114	108	116	111	107	25	72	30	62	125	33	52
GOLDEN HARVEST	H-2641	75	138	93	106	102	96	111	102	25	74	30	62	116	49	49
HOEGEMEYER	2761	75	136	91	105	101	96	109	101	25	73	30	62	109	55	50
DELTAPINE	4581	75	127	88	101	97	97	102	98	25	75	30	63	114	44	50
DELTAPINE	G-4673B	82	131	92	107	102	105	106	102	26	74	30	63	123	50	51
HOEGEMEYER	2693	78	--	--	--	--	101	--	--	--	--	30	63	117	70	51
LEWIS	8492	81	140	107	111	109	104	113	118	25	74	30	63	116	39	50
MYCOGEN	8240	79	129	91	104	99	101	104	100	25	74	30	63	112	46	50
OHLDE(M/W GEN)	510	80	134	100	107	105	103	108	110	25	74	30	63	133	46	50
HOEGEMEYER	2689	62	125	89	94	92	80	101	98	26	74	30	64	112	72	51
MATURITY CHECK	FB73rhmXMO17	71	--	--	--	--	92	--	--	--	--	30	64	115	74	51
MATURITY CHECK	F-B73 X N204	71	--	--	--	--	91	--	--	--	--	31	60	102	56	49
CARGILL	7997	81	131	98	106	103	104	106	108	26	73	31	62	112	49	49
MYCOGEN	8460	67	--	--	--	--	87	--	--	--	--	31	62	116	72	49
NORTHRUP KING	N7989	73	--	--	--	--	94	--	--	--	--	31	63	124	51	49
PFISTER	3965	75	--	--	--	--	97	--	--	--	--	31	64	127	28	49
PFISTER	3976	76	--	--	--	--	97	--	--	--	--	31	64	116	58	51
COOP	7875	69	--	--	--	--	89	--	--	--	--	32	63	111	63	49
OHLDE(M/W GEN)	300	69	121	90	95	93	89	98	99	26	75	32	64	118	59	50
NC+	7117	70	--	--	--	--	90	--	--	--	--	32	65	124	51	49
Late Averages		76	129	--	103	--	98	104	--	26	74	30	63	117	52	50
C.V.(%)		11	6	--	--	--	11	6	--	--	--	4	2	10	35	3
L.S.D.(0.05)*		10	10	--	--	--	12	8	--	--	--	NS	1	NS	21	NS
ALL HYBRIDS																
Test Averages		78	124	91	101	97	78	124	91	26	72	29	61	115	47	50
C.V.(%)		12	6	--	--	--	12	6	--	--	--	5	2	10	39	3
L.S.D.(0.05)**		14	11	14	--	--	18	9	16	--	--	2	2	NS	25	2

* L.S.D. for comparing hybrids within a maturity grouping.
** L.S.D. for comparing hybrids in different maturity groups.
Unless two varieties differ by more than the L.S.D., little confidence can be placed in one being superior to the other.

NORTHEASTERN KANSAS STANDARD CORN TEST ON SILT LOAM SOIL

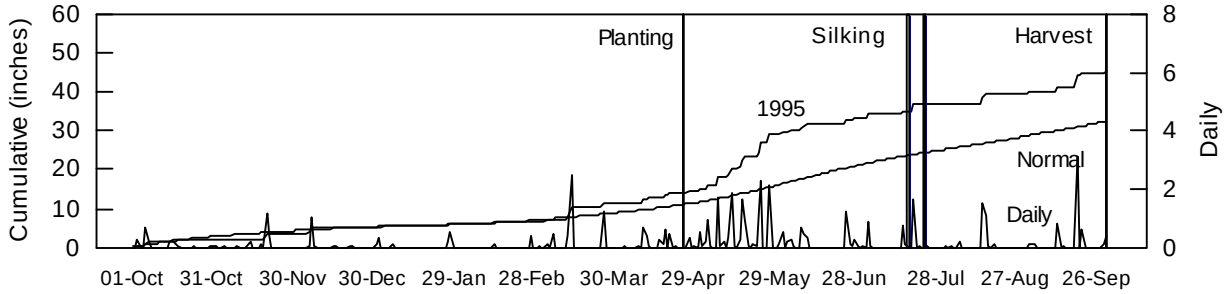
LOCATION: Agronomy North Farm
Near Manhattan in **Riley County**
COOPERATORS: Kraig Roozeboom, agronomist
Karl Mannschreck, superintendent
TEST SITE: Ivan silt loam
Oats in 1994, corn in 1993
FERTILIZATION: 100 lbs N/acre preplant
PLANTING DATE: April 25
HARVEST DATE: October 9
PEST CONTROL: Good
Insecticide in furrow at planting
Atrazine/Ramrod after planting
POPULATION: 20,000 plants/acre, 10.5 in. spacing

	EARLY	MEDIUM	LATE	ALL
STAND (%):	118	120	116	118
TEST YIELDS:				
Avg. (bu/a):	140	151	142	145
Range (bu/a):	129-150	138-177	123-148	123-177
L.S.D. (bu/a):	10	11	9	12
C.V. (%):	8	9	8	8
SILK DATES:	7/18-7/20	7/19-7/21	7/21-7/24	7/18-7/24

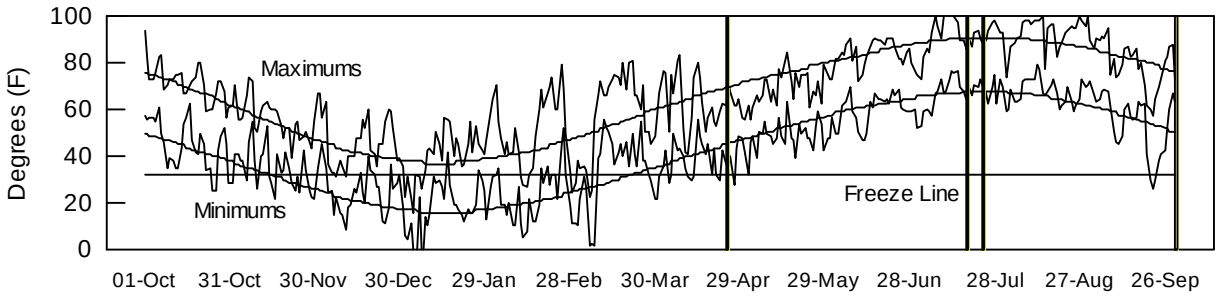
1995 GROWING CONDITIONS:

Weather conditions were wet and cool at planting and for a long period thereafter. The corn grew slowly for the first several weeks. Silking was bracketed by extremely high temperatures, but pollination was not inhibited. Insects and diseases caused few problems for this test. The corn was essentially mature by the time of the late September freeze.

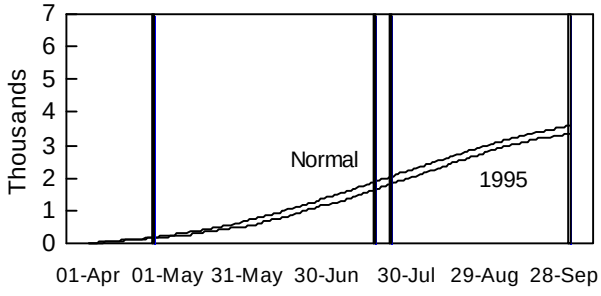
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1995	Normal	1995	Normal	1995	Normal
April	3.5	2.8	51	54	220	259
May	14.2	4.5	59	65	325	447
June	4.2	5.3	72	74	661	723
July	3.6	3.8	80	79	832	853
August	2.9	3.4	81	77	805	768
Sept.	5.4	3.8	67	69	545	567
Season Totals	33.8	23.5	68	70	3387	3615

TABLE 3. RILEY CO. STANDARD CORN PERFORMANCE TEST RESULTS, 1992-95.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			94-95		1995				
BRAND	HYBRID	1995	1994	1993	2-Yr. AVG.	3-Yr. AVG	1995	1994	1993	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Test Wt. lb/bu
EARLY HYBRIDS																
MATURITY CHECK	SHORT-C4327	130	151	132	140	138	89	100	111	14	79	15	84	126	2	56
BO-JAC	438	144	157	--	151	--	99	104	--	15	80	16	85	111	2	56
BO-JAC	409	139	--	--	--	--	95	--	--	--	--	16	85	109	3	56
STINE	9602	129	--	--	--	--	89	--	--	--	--	16	85	122	2	56
CIBA	4494	150	--	--	--	--	103	--	--	--	--	16	86	116	1	56
DEKALB	DK591	149	158	132	154	146	103	105	111	15	81	16	86	121	3	55
Early Averages		140	147	--	144	--	96	97	--	15	80	16	85	118	2	56
C.V.(%)		8	8	--	--	--	8	8	--	--	--	2	1	6	125	1
L.S.D.(0.05)*		10	14	--	--	--	7	10	--	--	--	0	1	6	2	1
MEDIUM HYBRIDS																
MATURITY CHECK	MID-H-2530	140	163	--	152	--	96	108	--	15	81	15	85	126	1	55
DEKALB	DK626	153	--	--	--	--	106	--	--	--	--	16	87	116	2	55
CIBA	4295X	138	--	--	--	--	95	--	--	--	--	17	85	117	1	57
CARGILL	7777	150	186	--	168	--	103	123	--	16	81	17	86	121	3	57
BO-JAC	577	160	162	--	161	--	110	107	--	15	82	17	87	130	2	56
OHLDE(M/W GEN)	331	177	--	--	--	--	122	--	--	--	--	17	87	123	2	56
OHLDE(M/W GEN)	312	142	--	--	--	--	98	--	--	--	--	17	87	103	2	56
NORTHRUP KING	N7590	143	--	--	--	--	99	--	--	--	--	18	87	117	2	55
OHLDE(M/W GEN)	340	155	168	--	162	--	107	112	--	17	82	18	87	122	1	56
Medium Averages		151	158	--	154	--	104	105	--	16	82	17	86	120	2	56
C.V.(%)		9	9	--	--	--	9	9	--	--	--	3	1	5	103	1
L.S.D.(0.05)*		11	17	--	--	--	8	11	--	--	--	1	1	5	NS	1
LATE HYBRIDS																
MATURITY CHECK	FB73rhmXMO17	146	--	--	--	--	101	--	--	--	--	19	87	118	3	54
BO-JAC	629	145	--	--	--	--	100	--	--	--	--	19	89	115	1	54
ICI	8281	145	177	--	161	--	100	117	--	17	84	19	89	116	2	55
CIBA	4581	146	--	--	--	--	101	--	--	--	--	19	90	123	3	56
MATURITY CHECK	F-B73 X N204	123	--	--	--	--	84	--	--	--	--	20	87	104	6	56
MYCOGEN	7885	148	--	--	--	--	102	--	--	--	--	20	90	122	1	56
Late Averages		142	147	--	145	--	98	97	--	17	83	19	89	116	3	55
C.V.(%)		8	11	--	--	--	8	11	--	--	--	3	1	8	71	1
L.S.D.(0.05)*		9	20	--	--	--	6	14	--	--	--	1	1	8	2	1
ALL HYBRIDS																
Test Averages		145	151	119	148	138	145	151	119	16	81	17	87	118	2	56
C.V.(%)		8	9	--	--	--	8	9	--	--	--	3	1	6	97	1
L.S.D.(0.05)**		12	20	21	--	--	8	13	18	--	--	1	1	7	2	1

* L.S.D. for comparing hybrids within a maturity gruping.
** L.S.D. for comparing hybrids in different maturity groups.
Unless two varieties differ by more than the L.S.D., little confidence can be placed in one being superior to the other.

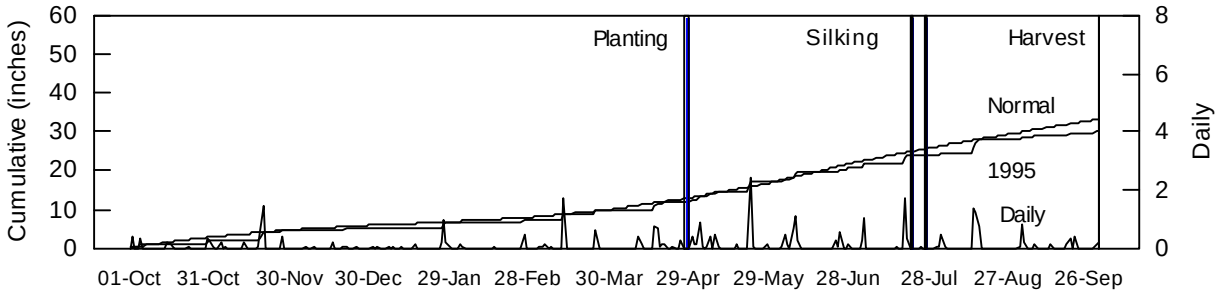
EAST CENTRAL KANSAS STANDARD CORN TEST ON SILT LOAM SOIL IRRIGATED

LOCATION: Kansas River Valley Experiment Field Near Rossville in **Shawnee County**
COOPERATORS: Larry Maddux, agronomist
Richard Fangman and William Riley, technicians
TEST SITE: Eudora silt loam
Soybeans in 1994, corn in 1993
FERTILIZATION: 175 lbs N/acre as NH_3 preplant
120 lbs/acre 10-34-0 as starter
PLANTING DATE: April 28
HARVEST DATE: October 2
PEST CONTROL: Generally good
Atrazine and Dual
POPULATION: 27,878 plants/acre, 7.5 in. spacing

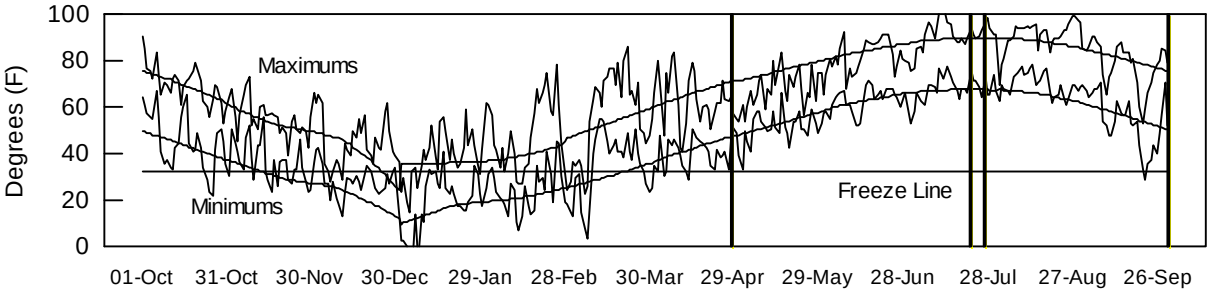
	EARLY	MEDIUM	LATE	ALL
STAND (%):	100	102	100	101
TEST YIELDS:				
Avg. (bu/a):	150	149	152	150
Range (bu/a):	135-162	120-174	134-175	120-175
L.S.D. (bu/a):	10	14	19	19
C.V. (%):	4	7	9	8
SILK DATES:	**7/22-7/23**	**7/22-7/24**	**7/22-7/27**	**7/22-7/27**

1995 GROWING CONDITIONS:
Cool, wet weather at planting slowed early growth. Corn borers were present later in the season but caused minimal damage.

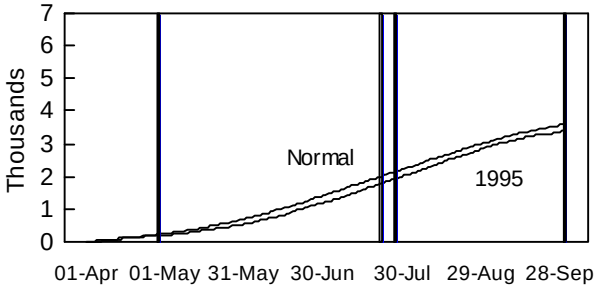
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1995	Normal	1995	Normal	1995	Normal
April	2.9	3.2	52	55	214	259
May	4.6	3.9	60	65	329	450
June	3.5	5.3	72	74	678	737
July	3.4	4.0	80	79	847	855
August	3.9	3.6	81	77	832	769
Sept.	2.3	3.4	66	68	517	550
Season Totals	20.7	23.4	69	70	3416	3620

TABLE 4. SHAWNEE CO. IRR. STANDARD CORN PERFORMANCE TEST RESULTS, 1993-95.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-95		1995				
BRAND	HYBRID	1995	1993	1992	2-Yr. AVG.	3-Yr. AVG	1995	1993	1992	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Test Wt. lb/bu
EARLY HYBRIDS																
MATURITY CHECK	SHORT-C4327	135	--	--	--	--	90	--	--	--	--	16	86	107	2	52
BO-JAC	438	158	--	--	--	--	105	--	--	--	--	17	85	97	3	50
BO-JAC	409	144	--	--	--	--	96	--	--	--	--	19	85	94	3	52
DELTAPINE	4450	162	--	--	--	--	108	--	--	--	--	19	86	101	2	52
Early Averages		150	--	--	--	--	100	--	--	--	--	18	85	100	2	52
C.V.(%)		4	--	--	--	--	4	--	--	--	--	5	1	7	103	1
L.S.D.(0.05)*		10	--	--	--	--	7	--	--	--	--	1	NS	NS	NS	1
MEDIUM HYBRIDS																
BO-JAC	525	158	--	--	--	--	105	--	--	--	--	16	86	102	1	51
DEKALB	DK626	154	--	--	--	--	102	--	--	--	--	18	86	95	4	50
MYCOGEN	7050cb	140	--	--	--	--	93	--	--	--	--	18	86	99	2	52
MATURITY CHECK	MID-H-2530	120	--	--	--	--	80	--	--	--	--	18	87	103	0	50
PIONEER	3375	137	--	--	--	--	91	--	--	--	--	19	85	101	0	51
ASGROW	RX770	159	--	--	--	--	106	--	--	--	--	19	86	108	1	51
OHLDE(M/W GEN)	312	137	--	--	--	--	91	--	--	--	--	19	86	81	1	51
PIONEER	3394	144	144	215	144	168	96	93	102	17	82	19	86	99	1	52
DEKALB	DK646	133	145	--	139	--	88	94	--	18	82	19	87	97	1	50
CARGILL	7777	167	--	--	--	--	111	--	--	--	--	20	85	109	4	51
CARGILL	X7507 EXP	165	--	--	--	--	110	--	--	--	--	20	85	107	2	52
AGRIPRO	AP565	146	--	--	--	--	97	--	--	--	--	20	86	109	1	51
AGRIPRO	AP619	151	--	--	--	--	101	--	--	--	--	20	86	101	1	51
BO-JAC	580	154	--	--	--	--	103	--	--	--	--	20	86	99	1	51
BO-JAC	577	147	--	--	--	--	98	--	--	--	--	20	86	113	0	51
NORTHRUP KING	N7590	161	--	--	--	--	107	--	--	--	--	20	86	97	4	50
OHLDE(M/W GEN)	340	149	--	--	--	--	99	--	--	--	--	20	86	104	1	51
OHLDE(M/W GEN)	331	159	--	--	--	--	106	--	--	--	--	20	86	96	2	51
PIONEER	3225	142	--	--	--	--	94	--	--	--	--	20	86	97	3	52
ASGROW	RX789	174	--	--	--	--	116	--	--	--	--	20	88	101	0	50
STINE	9702	126	--	--	--	--	84	--	--	--	--	21	86	102	2	50
ASGROW	RX801	144	--	--	--	--	96	--	--	--	--	21	87	114	1	52
ICI	8330	155	--	--	--	--	103	--	--	--	--	21	87	106	2	52
Medium Averages		149	--	--	--	--	99	--	--	--	--	19	86	102	1	51
C.V.(%)		7	--	--	--	--	7	--	--	--	--	5	1	4	122	1
L.S.D.(0.05)*		14	--	--	--	--	9	--	--	--	--	1	1	6	NS	1

(continued)

TABLE 4. SHAWNEE CO. IRR. STANDARD CORN PERFORMANCE TEST RESULTS, 1993-95.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-95		1995				
BRAND	HYBRID	1995	1993	1992	2-Yr. AVG.	3-Yr. AVG	1995	1993	1992	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Test Wt. lb/bu
LATE HYBRIDS																
HOEGEMEYER	2693	142	--	--	--	--	94	--	--	--	--	19	86	99	2	51
ASGROW	RX843	141	--	--	--	--	94	--	--	--	--	20	85	103	1	51
ASGROW	RX893	138	--	--	--	--	92	--	--	--	--	20	87	90	2	49
DELTAPINE	G-4673B	145	162	209	153	172	97	105	99	20	84	20	87	103	1	50
FONTANELLE	6162	143	--	--	--	--	95	--	--	--	--	20	87	99	0	51
ICI	8281	168	--	--	--	--	112	--	--	--	--	20	89	104	4	50
CARGILL	7997	143	155	213	149	170	95	100	101	20	81	21	85	106	4	50
MATURITY CHECK	F-B73 X N204	134	--	--	--	--	89	--	--	--	--	21	86	99	4	51
MATURITY CHECK	FB73rhmXMO17	139	--	--	--	--	93	--	--	--	--	21	86	104	3	49
HOEGEMEYER	2689	158	173	232	166	188	105	112	110	20	83	21	88	99	2	52
OHLDE(M/W GEN)	363	172	--	--	--	--	114	--	--	--	--	21	89	100	2	46
OHLDE(M/W GEN)	510	154	176	226	165	185	102	114	107	21	85	21	89	101	2	50
OHLDE(M/W GEN)	300	148	147	213	147	169	98	95	101	21	85	21	89	99	1	52
DELTAPINE	4581	162	155	212	159	176	108	101	100	21	86	21	90	104	1	52
HOEGEMEYER	2761	172	172	216	172	187	115	111	103	20	85	21	90	103	1	49
MYCOGEN	8240	145	145	--	145	--	96	94	--	20	86	21	90	93	2	49
OHLDE(M/W GEN)	362	159	--	--	--	--	106	--	--	--	--	21	90	101	1	50
CARGILL	8327	175	175	--	175	--	117	113	--	20	85	22	89	103	2	50
DELANGE	DS 1995	144	145	--	145	--	96	94	--	20	85	22	89	89	1	51
NC+	7117	152	--	--	--	--	101	--	--	--	--	22	90	101	0	48
Late Averages		152	--	--	--	--	101	--	--	--	--	21	88	100	2	50
C.V.(%)		9	--	--	--	--	9	--	--	--	--	3	2	5	106	5
L.S.D.(0.05)*		19	--	--	--	--	13	--	--	--	--	1	2	7	NS	NS
ALL HYBRIDS																
Test Averages		150	154	211	152	172	100	154	211	19	84	20	87	101	2	51
C.V.(%)		8	--	--	--	--	8	--	--	--	--	4	1	5	113	3
L.S.D.(0.05)**		19	19	19	--	--	13	12	9	--	--	1	2	8	NS	NS

* L.S.D. for comparing hybrids within a maturity grouping.
** L.S.D. for comparing hybrids in different maturity groups.
Unless two varieties differ by more than the L.S.D., little confidence can be placed in one being superior to the other.

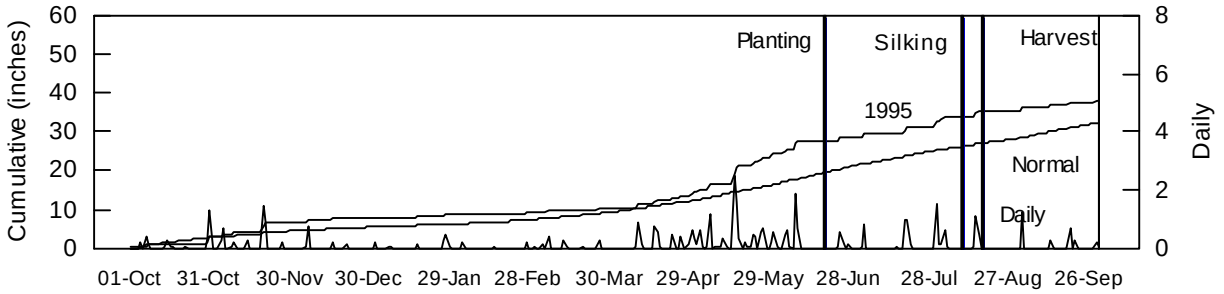
EAST CENTRAL KANSAS STANDARD CORN TEST DRYLAND

LOCATION: East Central Kansas Experiment Field South of Ottawa in **Franklin County**
COOPERATORS: Keith Janssen, agronomist
Edwin Horstick, technician
TEST SITE: Woodson silt loam
Soybeans in 1994, corn in 1993
FERTILIZATION: 70 lbs N/acre preplant
34 lbs P_2O_5/acre preplant
11 lbs K_2O/acre preplant
PLANTING DATE: June 19
HARVEST DATE: November 4
PEST CONTROL: Bicep at planting
POPULATION: 18,182 plants/acre, 11.5 in. spacing

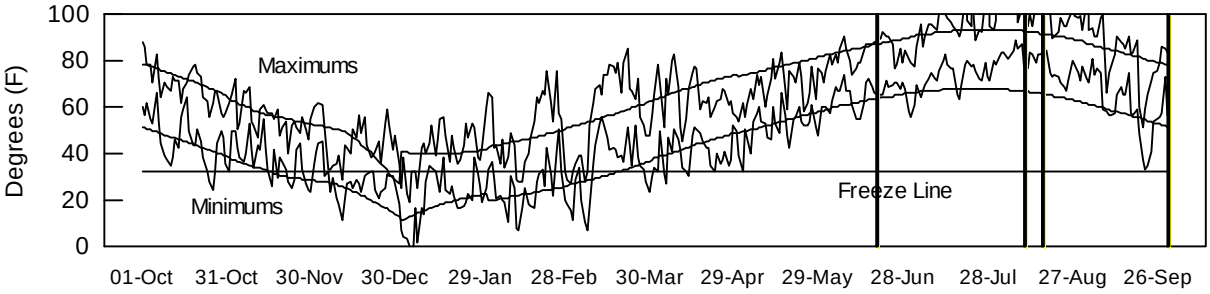
	EARLY	MEDIUM	LATE	ALL
STAND (%):	114	117	116	117
TEST YIELDS:				
Avg. (bu/a):	102	108	98	103
Range (bu/a):	75-114	78-132	71-135	71-135
L.S.D. (bu/a):	NS	20	14	21
C.V. (%):	15	11	8	10
SILK DATES:	**8/10-8/12**	**8/11-8/15**	**8/12-8/17**	**8/10-8/17**

1995 GROWING CONDITIONS:
Extremely wet conditions delayed planting far beyond the optimum. Temperatures were very high during tasselling, silking, and grain fill, but timely rains helped alleviate some of the heat stress. Corn borer and corn ear worm were both present but caused minimal damage. Strong winds about a week prior to harvest caused substantial numbers of ears to drop. This test yielded surprisingly well considering the late planting date, but should be used with caution for predicting hybrid performance in normal years.

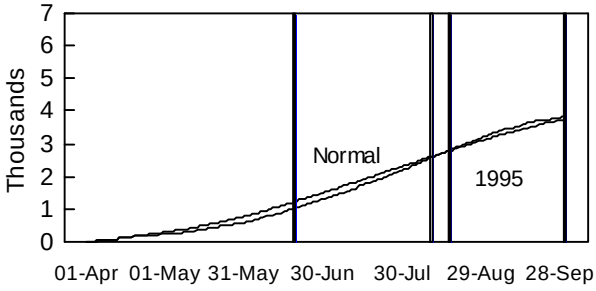
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1995	Normal	1995	Normal	1995	Normal
April	4.2	3.0	53	57	231	300
May	9.8	4.1	61	66	363	485
June	4.4	5.0	74	75	741	750
July	4.4	3.9	85	80	944	859
August	2.3	3.1	91	79	975	774
Sept.	2.5	4.1	71	70	617	597
Season Totals	27.7	23.3	73	71	3872	3765

TABLE 5. FRANKLIN CO. STANDARD CORN PERFORMANCE TEST RESULTS, 1993-95.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			94-95		1995					
BRAND	HYBRID	1995	1994	1993	2-Yr. AVG.	3-Yr. AVG	1995	1994	1993	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Drop Ear %	Test Wt. lb/bu
EARLY HYBRIDS																	
CIBA	4494	113	--	--	--	--	109	--	--	--	--	16	54	115	1	4	56
MATURITY CHECK	SHORT-C4327	75	111	--	93	--	73	83	--	16	55	17	52	120	2	11	57
BO-JAC	438	102	--	--	--	--	98	--	--	--	--	17	53	105	1	6	57
DELTAPINE	4450	114	--	--	--	--	110	--	--	--	--	17	54	112	1	2	57
AGRIPRO	HS 9484	108	--	--	--	--	105	--	--	--	--	18	54	118	2	4	56
Early Averages		102	131	--	117	--	99	97	--	16	56	17	53	114	1	5	57
C.V.(%)		15	10	--	--	--	15	10	--	--	--	6	1	7	120	63	1
L.S.D.(0.05)*		NS	18	--	--	--	NS	14	--	--	--	NS	NS	NS	NS	NS	NS
MEDIUM HYBRIDS																	
DEKALB	DK626	114	--	--	--	--	110	--	--	--	--	16	54	127	1	5	56
PIONEER	3394	112	147	121	130	127	109	109	112	16	57	16	54	127	0	5	57
NC+	5037	118	--	--	--	--	115	--	--	--	--	16	57	114	1	2	56
OHLDE(M/W GEN)	340	111	144	--	128	--	108	107	--	16	58	17	54	110	3	2	56
TRIUMPH	1324	97	139	--	118	--	94	103	--	16	56	17	54	119	2	10	57
AGRIPRO	AP619	110	--	--	--	--	107	--	--	--	--	17	55	113	2	3	55
CARGILL	7777	105	139	--	122	--	102	103	--	17	57	17	55	113	3	5	57
DEKALB	DK646	120	149	116	134	128	116	110	107	17	58	17	55	120	0	1	56
PIONEER	3375	78	--	--	--	--	76	--	--	--	--	17	55	123	2	8	56
OHLDE(M/W GEN)	312	78	--	--	--	--	76	--	--	--	--	17	56	107	4	1	56
TRIUMPH	1452	102	--	--	--	--	99	--	--	--	--	17	56	108	1	2	56
TRIUMPH	1522	132	--	--	--	--	128	--	--	--	--	17	56	121	1	2	56
BO-JAC	577	88	141	--	114	--	85	104	--	16	60	17	57	123	0	1	56
ICI	8330	99	--	--	--	--	96	--	--	--	--	17	57	109	0	3	56
AGRIPRO	AP565	119	--	--	--	--	115	--	--	--	--	18	53	115	0	3	55
CIBA	4295X	109	--	--	--	--	106	--	--	--	--	18	53	117	2	2	56
MATURITY CHECK	MID-H-2530	105	134	--	120	--	102	99	--	16	56	18	53	113	0	4	56
NORTHRUP KING	N7333	129	142	--	135	--	125	105	--	17	56	18	54	127	0	4	56
NORTHRUP KING	N7590	122	--	--	--	--	119	--	--	--	--	18	54	112	1	1	56
PIONEER	3279	114	141	--	127	--	111	104	--	17	57	18	54	120	4	1	57
OHLDE(M/W GEN)	331	122	151	--	137	--	118	112	--	17	58	18	55	122	4	2	55
GOLDEN HARVEST	H-2581	105	--	--	--	--	102	--	--	--	--	18	56	127	2	0	55
STINE	9704	90	--	--	--	--	88	--	--	--	--	18	56	116	3	1	54
Medium Averages		108	138	--	123	--	105	102	--	17	57	17	55	117	1	3	56
C.V.(%)		11	8	--	--	--	11	8	--	--	--	6	2	6	97	92	2
L.S.D.(0.05)*		20	12	--	--	--	19	9	--	--	--	NS	1	NS	NS	NS	NS

(continued)

TABLE 5. FRANKLIN CO. STANDARD CORN PERFORMANCE TEST RESULTS, 1993-95.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			94-95		1995					
BRAND	HYBRID	1995	1994	1993	2-Yr. AVG.	3-Yr. AVG	1995	1994	1993	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Drop Ear %	Test Wt. lb/bu
LATE HYBRIDS																	
CARGILL	7997	135	134	107	134	125	131	99	98	17	57	17	54	113	2	0	56
STINE	9801	97	--	--	--	--	94	--	--	--	--	18	55	121	1	6	55
HOEGEMEYER	2689	83	--	108	--	--	80	--	100	--	--	18	56	121	4	1	57
DEKALB	DK668	109	--	--	--	--	106	--	--	--	--	18	57	119	2	1	56
MYCOGEN	7885	104	133	--	119	--	101	99	--	17	61	18	57	117	0	3	55
NC+	7117	94	131	110	113	112	92	97	102	17	62	18	58	116	5	1	57
DELTAPINE	G-4673B	102	146	94	124	114	99	108	87	18	58	19	55	120	0	3	56
FONTANELLE	6162	106	151	111	129	123	103	112	103	18	57	19	55	126	2	1	57
MATURITY CHECK	F-B73 X N204	71	--	--	--	--	69	--	--	--	--	19	55	116	3	3	56
GOLDEN HARVEST	H-2641	103	--	--	--	--	100	--	--	--	--	19	57	114	3	1	55
ICI	8285	78	--	--	--	--	76	--	--	--	--	19	57	121	2	2	55
MYCOGEN	8240	113	139	--	126	--	110	103	--	18	60	19	57	113	0	3	55
OHLDE(M/W GEN)	510	108	121	105	114	111	104	90	97	18	60	19	57	123	2	0	56
OHLDE(M/W GEN)	300	97	132	112	115	114	94	98	104	18	62	19	58	118	1	2	55
DELANGE	DS 1995	77	135	110	106	108	75	100	102	18	62	19	59	99	1	2	55
HOEGEMEYER	2693	94	--	--	--	--	92	--	--	--	--	20	55	119	3	5	55
MATURITY CHECK	FB73rhmXMO17	80	--	--	--	--	77	--	--	--	--	20	56	107	4	6	55
BO-JAC	629	96	--	--	--	--	93	--	--	--	--	20	57	109	5	3	54
CARGILL	8327	117	125	97	121	113	113	93	89	18	61	20	57	116	2	3	55
CIBA	4581	88	--	--	--	--	85	--	--	--	--	20	58	116	2	7	55
DELTAPINE	4581	108	128	120	118	119	104	95	111	18	61	20	58	122	2	2	55
HOEGEMEYER	2761	94	136	106	115	112	91	101	98	18	61	20	58	128	2	6	55
NORTHRUP KING	N8811	102	143	121	123	122	99	106	112	19	60	20	58	103	0	3	55
Late Averages		98	133	--	116	--	95	99	--	18	60	19	57	116	2	3	55
C.V.(%)		8	8	--	--	--	8	8	--	--	--	5	1	5	121	45	1
L.S.D.(0.05)*		14	12	--	--	--	14	9	--	--	--	NS	1	10	NS	2	NS
ALL HYBRIDS																	
Test Averages		103	135	108	119	115	103	135	108	17	58	18	55	117	2	3	56
C.V.(%)		10	8	--	--	--	10	8	--	--	--	5	1	6	117	72	2
L.S.D.(0.05)**		21	14	20	--	--	21	10	19	--	--	NS	2	14	NS	4	NS

* L.S.D. for comparing hybrids within a maturity grouping.
** L.S.D. for comparing hybrids in different maturity groups.
Unless two varieties differ by more than the L.S.D., little confidence can be placed in one being superior to the other.

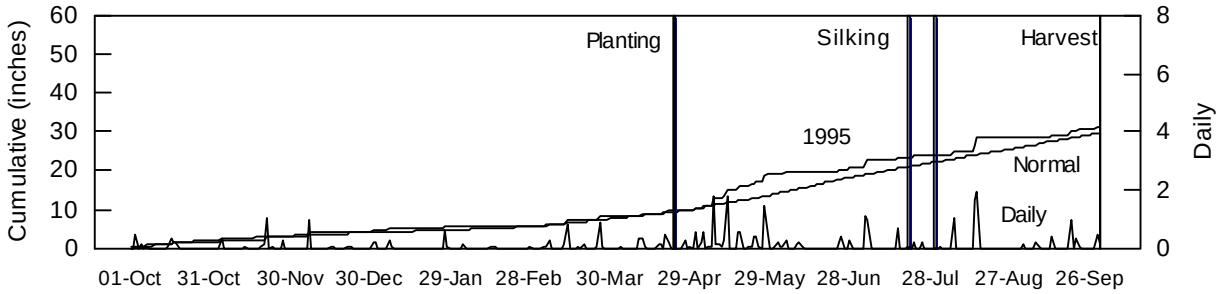
NORTHCENTRAL KANSAS STANDARD CORN TEST DRYLAND

LOCATION: North Central Kansas Experiment Field
West of Belleville in **Republic County**
COOPERATORS: Barney Gordon, agronomist
Michael Larson and Allan Milner, technicians
TEST SITE: Crete silt loam
Wheat in 1994, corn in 1993
FERTILIZATION: 180 lbs N/acre preplant
30 lbs P_2O_5
PLANTING DATE: April 23,
HARVEST DATE: October 20
PEST CONTROL: Good
POPULATION: 19,008 plants/acre, 11 in. spacing

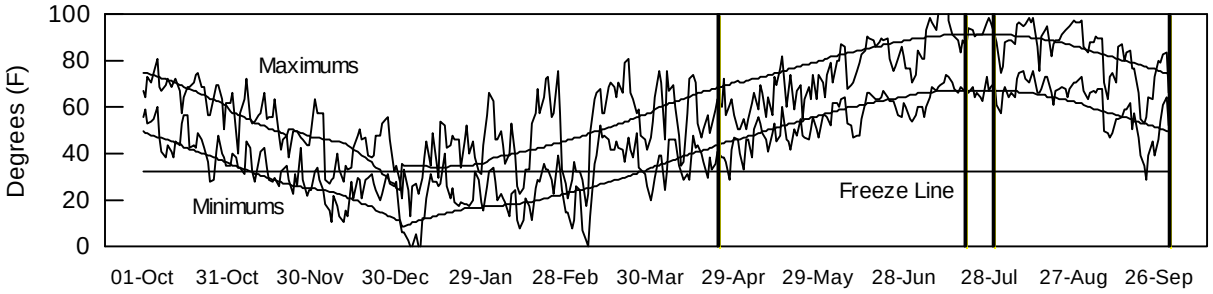
	EARLY	MEDIUM	LATE	ALL
STAND (%):	98	97	97	97
TEST YIELDS:				
Avg. (bu/a):	113	119	114	116
Range (bu/a):	99-124	113-129	95-131	99-131
L.S.D. (bu/a):	12	NS	15	14
C.V. (%):	8	7	10	8
SILK DATES:	**7/20-7/27**	**7/22-7/29**	**7/27-7/30**	**7/20-7/30**

1995 GROWING CONDITIONS:
Cool, wet conditions in May slowed early growth. Extreme heat in July may have reduced yields. The late September freeze stopped some of the later hybrids before they reached full maturity.

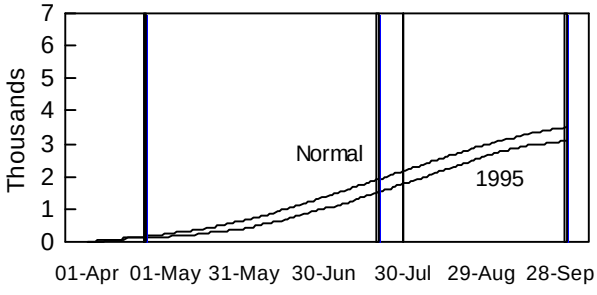
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1995	Normal	1995	Normal	1995	Normal
April	2.3	2.6	48	53	160	245
May	8.8	3.8	57	64	256	429
June	1.6	4.8	70	74	615	722
July	3.1	3.8	79	79	804	849
August	4.7	3.5	80	77	818	763
Sept.	2.6	3.9	65	67	477	525
Season Totals	23.1	22.4	67	69	3129	3533

TABLE 6. REPUBLIC CO. DRY. STANDARD CORN PERFORMANCE TEST RESULTS, 1993-95.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			94-95		1995				
BRAND	HYBRID	1995	1994	1993	2-Yr. AVG.	3-Yr. AVG	1995	1994	1993	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Test Wt. lb/bu
EARLY HYBRIDS																
DEKALB	DK591	124	218	188	171	177	107	106	114	15	85	14	88	98	1	58
MATURITY CHECK	SHORT-C4327	99	196	156	147	150	85	95	95	15	84	14	89	101	2	58
PIONEER	3563	122	--	--	--	--	105	--	--	--	--	14	90	98	1	59
MYCOGEN	6220	106	--	--	--	--	91	--	--	--	--	14	95	95	0	58
Early Averages		113	184	--	148	--	97	89	--	14	85	14	91	98	1	58
C.V.(%)		8	3	--	--	--	8	2	--	--	--	2	1	5	131	1
L.S.D.(0.05)*		12	8	--	--	--	11	4	--	--	--	NS	1	NS	NS	NS
MEDIUM HYBRIDS																
PIONEER	3346	129	261	--	195	--	111	127	--	15	85	14	90	93	1	59
MATURITY CHECK	MID-H-2530	121	197	--	159	--	104	96	--	14	88	14	93	102	1	59
MILLER PREF.	MP-1141	113	--	--	--	--	97	--	--	--	--	14	97	102	0	59
PIONEER	3375	116	--	--	--	--	100	--	--	--	--	15	90	94	1	59
CARGILL	7777	126	272	--	199	--	109	132	--	16	89	15	95	100	0	60
DEKALB	DK626	114	--	--	--	--	98	--	--	--	--	15	95	91	1	58
NORTHRUP KING	N7590	117	--	--	--	--	101	--	--	--	--	16	94	96	0	58
Medium Averages		119	218	--	169	--	103	106	--	16	88	15	93	97	1	59
C.V.(%)		7	8	--	--	--	7	4	--	--	--	2	0	4	184	1
L.S.D.(0.05)*		NS	22	--	--	--	NS	10	--	--	--	0	1	4	NS	NS
LATE HYBRIDS																
MATURITY CHECK	F-B73 X N204	109	--	--	--	--	94	--	--	--	--	16	95	91	1	59
MATURITY CHECK	FB73rhmXMO17	95	--	--	--	--	82	--	--	--	--	16	97	100	0	58
MILLER PREF.	MP-1161	131	--	--	--	--	113	--	--	--	--	16	98	100	1	58
MILLER PREF.	MP-1172	121	--	--	--	--	104	--	--	--	--	16	98	97	1	58
Late Averages		114	209	--	162	--	98	102	--	17	91	16	97	97	1	58
C.V.(%)		10	5	--	--	--	10	3	--	--	--	3	0	5	257	1
L.S.D.(0.05)*		15	14	--	--	--	13	7	--	--	--	NS	0	NS	NS	0
ALL HYBRIDS																
Test Averages		116	206	165	161	162	116	206	165	15	88	15	94	97	1	58
C.V.(%)		8	7	--	--	--	8	7	--	--	--	2	0	4	186	1
L.S.D.(0.05)**		14	20	17	--	--	12	10	10	--	--	0	1	6	NS	1

* L.S.D. for comparing hybrids within a maturity grouping.
** L.S.D. for comparing hybrids in different maturity groups.
Unless two varieties differ by more than the L.S.D., little confidence can be placed in one being superior to the other.

NORTH CENTRAL KANSAS STANDARD CORN TEST IRRIGATED

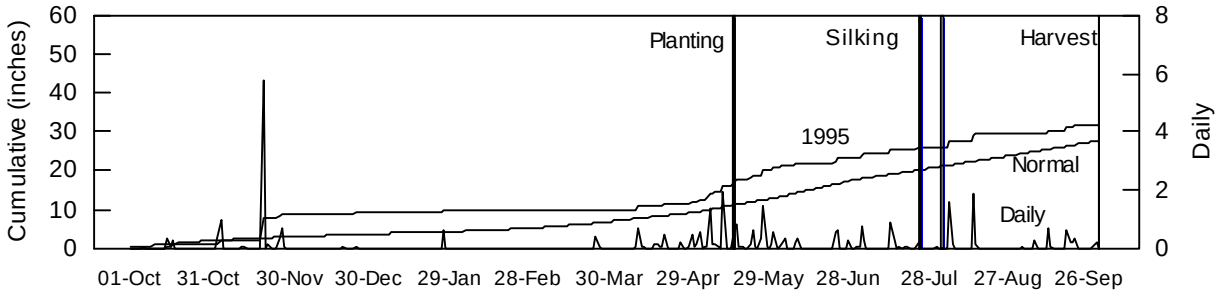
LOCATION: Irrigation Experiment Field West of Scandia in **Republic County**
COOPERATORS: Barney Gordon, agronomist
Michael Larson and Allan Milner, technicians
TEST SITE: Crete silt loam
Soybeans in 1994, corn in 1993
FERTILIZATION: 180lbs N/acre preplant
30 lbs P_2O_5/acre at planting
PLANTING DATE: May 16
HARVEST DATE: October 25
POPULATION: 27,878 plants/acre, 7.5 in. spacing

	EARLY	MEDIUM	LATE	ALL
STAND (%):	102	101	102	102
TEST YIELDS:				
Avg. (bu/a):	181	185	170	178
Range (bu/a):	139-199	160-206	172-242	170-266
L.S.D. (bu/a):	14.4	14	16.7	17.9
C.V. (%):	6.5	6.4	8.3	7.2
SILK DATES:	**7/27-7/29**	**7/25-7/30**	**7/29-8/2**	**7/25-8/2**

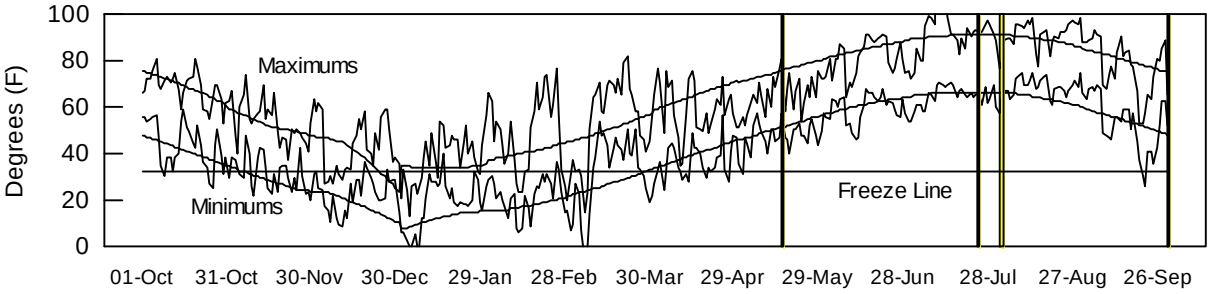
IRRIGATION: 9 in. total, applied 7/21, 7/31, and 8/20

1995 GROWING CONDITIONS:
Above-normal rainfall and below-normal temperatures delayed planting and early corn growth. Damaging effects of extremely high temperatures in July were moderated by timely rains. European corn borers were present but were too late to cause much damage. Substantial stalk rot and some lodging resulted from the early freeze.

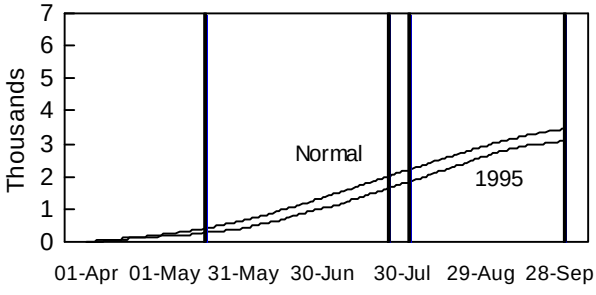
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1995	Normal	1995	Normal	1995	Normal
April	2.1	2.4	48	53	167	242
May	9.0	3.7	57	64	263	427
June	2.4	4.8	70	74	616	718
July	2.4	3.3	79	79	786	835
August	3.7	3.3	80	77	815	748
Sept.	2.4	3.5	65	67	488	518
Season Totals	22.0	20.9	67	69	3134	3487

TABLE 7. REPUBLIC CO. IRR. STANDARD CORN PERFORMANCE TEST RESULTS, 1993-95.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			94-95		1995				
BRAND	HYBRID	1995	1994	1993	2-Yr. AVG.	3-Yr. AVG	1995	1994	1993	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Test Wt. lb/bu
EARLY HYBRIDS																
MATURITY CHECK	SHORT-C4327	139	228	--	183	--	78	110	--	12	73	12	73	101	8	57
PIONEER	3489	199	--	--	--	--	112	--	--	--	--	13	72	104	7	58
CIBA	4494	197	--	--	--	--	111	--	--	--	--	13	73	102	8	58
DEKALB	DK591	169	247	--	208	--	95	119	--	13	74	13	73	102	7	57
OHLDE(M/W GEN)	309	198	--	--	--	--	111	--	--	--	--	13	73	101	6	58
OHLDE(M/W GEN)	316	192	--	--	--	--	108	--	--	--	--	13	73	103	8	59
DELTAPINE	4450	176	224	172	200	191	99	108	95	13	74	13	74	102	5	58
NC+	4616	177	--	171	--	--	99	--	94	--	--	13	74	101	5	58
Early Averages		181	218	--	199	--	101	105	--	13	74	13	73	102	7	58
C.V.(%)		7	6	--	6	--	7	3	--	2	1	2	1	3	42	1
L.S.D.(0.05)*		14	20	--	17	--	8	10	--	0	--	0	NS	NS	NS	1
MEDIUM HYBRIDS																
CARGILL	7697	177	242	208	210	209	100	117	115	13	75	13	73	102	8	59
KAYSTAR	KX - 777	195	--	--	--	--	110	--	--	--	--	13	73	101	7	58
MATURITY CHECK	MID-H-2530	171	236	--	204	--	96	114	--	13	75	13	73	104	7	56
STINE	9702	190	--	--	--	--	107	--	--	--	--	13	73	101	9	58
GOLDEN HARVEST	H-2581	196	--	--	--	--	110	--	--	--	--	13	74	99	7	59
GOLDEN HARVEST	H-2564	185	--	--	--	--	104	--	--	--	--	13	74	106	6	57
MILLER PREF.	MP-1141	179	--	--	--	--	100	--	--	--	--	13	74	102	10	58
NORTHRUP KING	N7590	165	220	--	193	--	93	106	--	14	76	13	74	101	7	56
OHLDE(M/W GEN)	312	167	--	--	--	--	94	--	--	--	--	13	74	100	7	57
OHLDE(M/W GEN)	340	190	248	--	219	--	106	120	--	13	77	13	74	101	8	58
DEKALB	DK626	196	244	--	220	--	110	118	--	13	77	13	75	102	7	56
DEKALB	DK652	203	256	--	230	--	114	124	--	14	77	13	75	102	7	57
NC+	5037	165	247	--	206	--	93	119	--	13	77	13	75	99	9	57
PIONEER	3375	160	--	--	--	--	90	--	--	--	--	14	70	102	10	59
CARGILL	7777	198	224	--	211	--	111	108	--	14	75	14	73	100	6	59
CIBA	4545	160	--	--	--	--	90	--	--	--	--	14	74	101	6	58
HAWKEYE	SX62	195	--	--	--	--	109	--	--	--	--	14	74	102	10	59
KAYSTAR	KX - 909	196	201	--	198	--	110	97	--	14	76	14	74	102	6	57
OHLDE(M/W GEN)	331	195	225	192	210	204	109	109	106	14	76	14	74	100	7	59
CIBA	4575	184	--	--	--	--	103	--	--	--	--	14	75	100	7	58
HOEGEMEYER	2677	191	--	--	--	--	107	--	--	--	--	14	75	101	7	59
ICI	8330	182	--	--	--	--	102	--	--	--	--	14	75	101	9	58
PIONEER	3225	206	266	--	236	--	116	129	--	14	73	15	70	101	6	59
Medium Averages		185	229	--	207	--	104	110	--	14	76	14	74	101	7	58
C.V.(%)		6	8	--	--	--	4	4	--	--	--	3	1	3	41	1
L.S.D.(0.05)*		14	24	--	--	--	14	12	--	--	--	0	1	NS	NS	1

(continued)

TABLE 7. REPUBLIC CO. IRR. STANDARD CORN PERFORMANCE TEST RESULTS, 1993-95.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			94-95		1995				
BRAND	HYBRID	1995	1994	1993	2-Yr. AVG.	3-Yr. AVG	1995	1994	1993	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Test Wt. lb/bu
LATE HYBRIDS																
HOEGEMEYER	2693	162	--	--	--	--	91	--	--	--	--	14	74	100	5	58
CARGILL	7997	162	229	188	195	193	91	110	104	14	77	14	75	101	7	58
ICI	8281	194	230	--	212	--	109	111	--	14	79	14	76	101	9	58
CIBA	4581	162	--	--	--	--	91	--	--	--	--	14	77	100	8	58
MYCOGEN	7885	161	--	191	--	--	91	--	106	14	79	14	77	102	7	58
NORTHRUP KING	N7989	158	225	--	191	--	89	109	--	14	80	14	77	105	6	58
OHLDE(M/W GEN)	300	166	224	180	195	190	93	108	100	14	79	14	77	101	5	58
DELTAPINE	4581	165	214	184	190	188	93	103	102	14	81	14	78	101	8	58
MILLER PREF.	MP-1172	158	--	--	--	--	89	--	--	--	--	14	78	100	6	58
OHLDE(M/W GEN)	362	148	--	--	--	--	83	--	--	--	--	14	78	101	7	56
MATURITY CHECK	F-B73 X N204	142	--	--	--	--	80	--	--	--	--	15	74	104	6	59
MATURITY CHECK	FB73rhmXMO17	148	--	--	--	--	83	--	--	--	--	15	74	103	8	55
DEKALB	DK715	201	242	192	221	211	113	117	106	15	77	15	75	103	9	57
DELTAPINE	G-4673B	183	--	170	--	--	103	--	94	14	78	15	75	103	6	58
STINE	9801	175	--	--	--	--	98	--	--	--	--	15	75	99	5	57
MYCOGEN	8240	186	194	191	190	190	104	94	105	14	79	15	76	99	6	57
CARGILL	8327	179	188	199	184	189	101	91	110	14	79	15	77	101	8	57
HOEGEMEYER	2761	182	--	--	--	--	102	--	--	--	--	15	77	102	7	58
MILLER PREF.	MP-1161	191	--	--	--	--	107	--	--	--	--	15	77	103	8	58
OHLDE(M/W GEN)	510	171	184	201	178	185	96	89	111	14	81	15	77	101	8	58
OHLDE(M/W GEN)	363	181	--	--	--	--	101	--	--	--	--	15	77	102	10	59
Late Averages		170	204	--	187	--	95	99	--	14	79	14	76	102	7	58
C.V.(%)		8	9	--	--	--	8	4	--	--	--	4	1	3	41	1
L.S.D.(0.05)*		17	26	--	--	--	9	13	--	--	--	1	1	NS	NS	1
ALL HYBRIDS																
Test Averages		178	207	181	193	189	178	207	181	14	77	14	75	101	7	58
C.V.(%)		7	10	--	--	--	7	10	--	--	--	3	1	3	41	1
L.S.D.(0.05)**		18	28	16	--	--	10	14	9	--	--	1	1	NS	NS	1

* L.S.D. for comparing hybrids within a maturity grouping.
** L.S.D. for comparing hybrids in different maturity groups.
Unless two varieties differ by more than the L.S.D., little confidence can be placed in one being superior to the other.

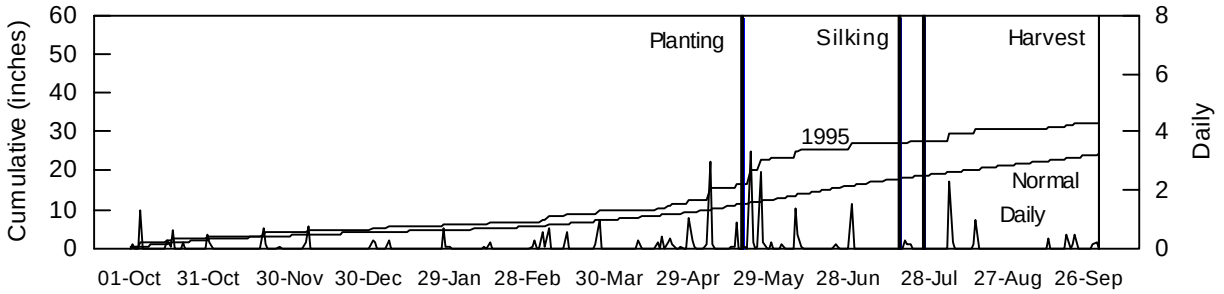
SOUTH CENTRAL KANSAS STANDARD CORN TEST IRRIGATED

LOCATION: Sandyland Experiment Field
3 miles south of St. John in **Stafford County**
COOPERATORS: Victor Martin, agronomist
Jerry Dove and Yogi Behr, technicians
TEST SITE: Naron loamy fine sand
Wheat in 1994, fallow in 1993
FERTILIZATION: 150 lbs N/acre urea
100 lbs/acre 18-46-0
100 lbs N/acre after planting
PLANTING DATE: May 19
HARVEST DATE: October 5
PEST CONTROL: Generally good, some pigweed controlled by hand late in the season
POPULATION: 27,878 plants/acre, 7.5 in. spacing

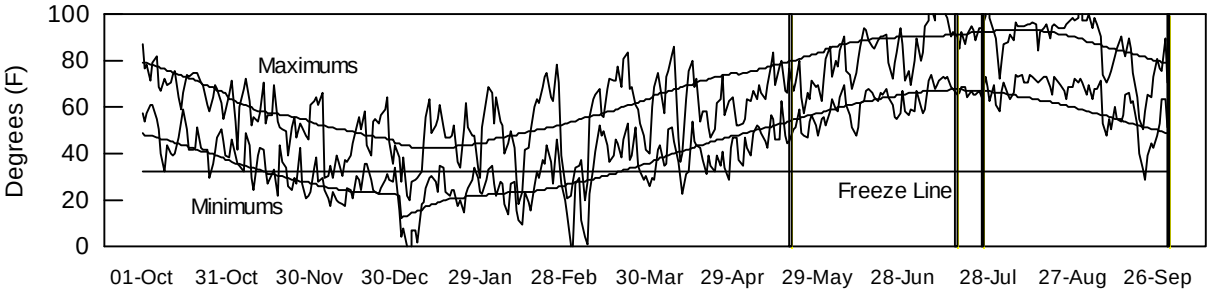
	EARLY	MEDIUM	LATE	ALL
STAND (%):	106	106	108	106
TEST YIELDS:				
Avg. (bu/a):	164	164	162	162
Range (bu/a):	149-162	140-187	130-204	130-204
L.S.D. (bu/a):	20	20	24	29
C.V. (%):	10	10	13	13
SILK DATES:	**7/17-7/19**	**7/17-7/22**	**7/19-7/26**	**7/17-7/26**

1995 GROWING CONDITIONS:
Wet soil conditions delayed planting, and cool temperatures slowed early corn growth after planting. Hight temperatures in July and August stressed the crop, but pollination escaped the worst. Southern corn borers caused some damage that combined with high winds to produce some lodging.

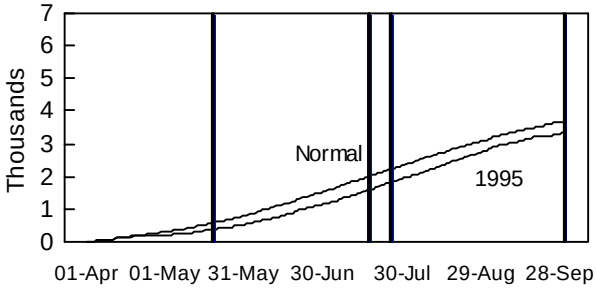
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1995	Normal	1995	Normal	1995	Normal
April	2.9	2.1	51	57	215	320
May	10.8	3.3	59	66	307	493
June	3.6	3.8	72	76	646	756
July	0.5	2.9	80	79	821	851
August	3.5	2.4	82	78	839	734
Sept.	1.6	2.5	67	69	516	559
Season Totals	22.9	16.9	68	71	3344	3714

TABLE 8. STAFFORD CO. IRR. STANDARD CORN PERFORMANCE TEST RESULTS, 1993-95.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			94-95		1995				
BRAND	HYBRID	1995	1994	1993	2-Yr. AVG.	3-Yr. AVG	1995	1994	1993	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Test Wt. lb/bu
EARLY AND MEDIUM HYBRIDS																
CARGILL	6303	162	--	--	--	--	100	--	--	--	--	16	59	96	9	56
KAYSTAR	KX - 777	171	--	--	--	--	106	--	--	--	--	16	59	110	11	56
MATURITY CHECK	SHORT-C4327	159	140	--	149	--	98	76	--	14	64	16	59	116	14	57
ASGROW	RX770	162	159	--	160	--	100	87	--	14	66	16	60	124	5	57
STINE	9703	167	--	--	--	--	103	--	--	--	--	16	60	121	5	56
MATURITY CHECK	MID-H-2530	171	176	--	173	--	106	96	--	14	67	16	63	109	17	56
NORTHRUP KING	N7590	164	179	--	171	--	101	98	--	14	67	16	63	109	12	56
DEKALB	DK626	185	--	--	--	--	114	--	--	--	--	16	64	105	13	54
NC+	5037	162	182	169	172	171	100	99	113	14	68	16	64	100	8	56
NORTHRUP KING	N7070	167	--	--	--	--	103	--	--	--	--	17	60	104	12	56
CARGILL	7697	140	--	130	--	--	86	--	87	--	--	17	61	106	20	58
DELTAPINE	4450	149	--	--	--	--	92	--	--	--	--	17	61	96	10	56
KAYSTAR	KX - 909	173	--	--	--	--	107	--	--	--	--	17	61	117	5	56
AGRIPRO	HS 9502	148	191	--	170	--	91	104	--	14	67	17	62	84	8	56
OHLDE(M/W GEN)	331	187	--	--	--	--	115	--	--	--	--	17	62	119	10	57
OHLDE(M/W GEN)	312	150	--	--	--	--	92	--	--	--	--	17	63	84	6	56
TRIUMPH	1522	161	--	--	--	--	99	--	--	--	--	17	63	116	11	58
ASGROW	RX801	147	183	--	165	--	91	100	--	15	69	17	64	104	15	58
CARGILL	7777	167	185	--	176	--	103	101	--	15	67	17	64	117	18	57
ICI	8330	155	--	--	--	--	95	--	--	--	--	17	64	103	7	58
TRIUMPH	1452	168	186	184	177	179	103	102	123	14	69	17	64	105	9	56
PIONEER	3225	181	186	--	183	--	111	101	--	16	66	18	60	106	13	58
AGRIPRO	AP619	165	--	--	--	--	102	--	--	--	--	18	63	96	16	56
OHLDE(M/W GEN)	340	167	186	--	176	--	103	102	--	15	68	18	63	103	11	56
PIONEER	3162	166	180	159	173	168	102	98	107	16	66	19	62	109	8	58
Medium Averages		164	180	--	172	--	101	98	--	14	67	17	62	106	11	56
C.V.(%)		10	7	--	--	--	10	4	--	--	--	4	3	8	78	2
L.S.D.(0.05)*		20	15	--	--	--	12	8	--	--	--	1	2	10	10	2

(continued)

TABLE 8. STAFFORD CO. IRR. STANDARD CORN PERFORMANCE TEST RESULTS, 1993-95.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			94-95		1995				
BRAND	HYBRID	1995	1994	1993	2-Yr. AVG.	3-Yr. AVG	1995	1994	1993	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Test Wt. lb/bu
LATE HYBRIDS																
WILSON	1859	186	--	--	--	--	115	--	--	--	--	15	65	115	11	57
CARGILL	7997	138	155	160	147	151	85	85	107	14	66	16	62	120	16	58
PIONEER	3223	185	--	--	--	--	114	--	--	--	--	16	65	100	9	57
TERRA	E 1205 EXP	152	--	--	--	--	94	--	--	--	--	16	65	110	3	58
NORTHRUP KING	N7989	159	191	127	175	159	98	104	85	14	71	16	67	117	10	58
DELTAPINE	G-4673B	168	184	174	176	175	103	101	116	15	67	17	61	99	10	58
ASGROW	RX893	156	--	--	--	--	96	--	--	--	--	17	62	90	8	56
HOEGEMEYER	2693	173	--	--	--	--	107	--	--	--	--	17	62	117	12	56
CIBA	4662	173	189	189	181	184	107	103	126	15	67	17	63	107	13	57
CIBA	6203X EXP	167	--	--	--	--	103	--	--	--	--	17	64	107	11	58
MATURITY CHECK	F-B73 X N204	155	--	--	--	--	95	--	--	--	--	17	64	101	14	57
DELANGE	DS 1995	155	191	163	173	170	96	104	109	15	70	17	65	83	7	57
MYCOGEN	8240	143	199	145	171	162	88	109	97	15	69	17	65	95	10	57
AGRIPRO	AP9707	204	--	--	--	--	125	--	--	--	--	17	66	100	8	56
DELTAPINE	4581	130	197	152	164	160	80	108	102	15	71	17	66	87	18	57
MYCOGEN	8460	179	--	--	--	--	110	--	--	--	--	17	66	110	6	55
NC+	7304	134	201	155	167	163	82	110	104	14	72	17	67	96	14	57
OHLDE(M/W GEN)	300	138	189	136	163	154	85	103	91	15	71	17	67	115	4	57
DEKALB	DK715	169	160	164	165	164	104	87	110	15	67	18	63	118	9	56
MATURITY CHECK	FB73rhmXMO17	169	--	--	--	--	104	--	--	--	--	18	64	110	12	55
OHLDE(M/W GEN)	510	153	199	145	176	165	94	109	97	15	69	18	65	114	9	56
TRIUMPH	2010	171	--	130	--	--	105	--	87	--	--	18	65	117	6	56
AGRIPRO	HS 9843	166	192	152	179	170	103	105	102	16	70	18	66	112	5	56
HOEGEMEYER	2761	164	--	--	--	--	101	--	--	--	--	18	66	111	9	56
DEKALB	DK683	174	189	147	182	170	107	103	99	16	71	18	67	110	3	56
TERRA	TR 1167	169	193	143	181	169	104	106	96	15	70	18	67	103	7	55
NC+	6959	164	192	144	178	167	101	105	97	16	71	18	68	115	9	55
WILSON	1910	155	--	--	--	--	96	--	--	--	--	19	63	111	7	56
CARGILL	8327	153	201	126	177	160	94	110	84	16	69	19	65	111	6	55
TERRA	TR 1185	167	172	138	169	159	103	94	92	16	69	19	66	114	9	55
ICI	8285	158	195	--	177	--	97	107	--	16	70	19	67	108	4	56
TERRA	TR 702E	160	188	133	174	160	98	103	89	17	71	19	67	111	4	54
WILSON	2330	175	--	--	--	--	108	--	--	--	--	19	67	125	5	55
WILSON	E12015 EXP	135	--	--	--	--	83	--	--	--	--	19	68	113	9	54
Late Averages		162	188	--	175	--	100	103	--	15	70	17	65	108	9	56
C.V.(%)		13	8	--	11	--	13	5	--	4	2	5	2	10	80	2
L.S.D.(0.05)*		24	19	--	21	--	15	10	--	1	1	2	2	13	8	2
ALL HYBRIDS																
Test Averages		162	183	149	173	165	162	183	149	15	68	17	64	107	10	56
C.V.(%)		13	8	--	--	--	13	8	--	--	--	5	3	10	80	2
L.S.D.(0.05)**		29	21	32	--	--	18	12	21	--	--	2	2	14	NS	2

* L.S.D. for comparing hybrids within a maturity grouping.
** L.S.D. for comparing hybrids in different maturity groups.
Unless two varieties differ by more than the L.S.D., little confidence can be placed in one being superior to the other.

NORTHWESTERN KANSAS STANDARD CORN TEST DRYLAND

LOCATION: Northwest Research-Extension Center
Near Colby in **Thomas County**
COOPERATORS: Patrick Evans, agronomist
Patrick Coyne, head.
TEST SITE: Keith silt loam
Wheat in 1994, fallow in 1993
FERTILIZATION: 170 lbs N/acre preplant
30 lbs P_2O_5/acre preplant
PLANTING DATE: May 13
HARVEST DATE: October 18
PEST CONTROL: Good
Lasso, Atrazine, and Bladex after planting
POPULATION: 14,935plants/acre, 14 in. spacing

	EARLY	MEDIUM	LATE	ALL
STAND (%):	97	99	96	97
TEST YIELDS:				
Avg. (bu/a):	62	57	46	55
Range (bu/a):	56-70	50-65	36-59	50-65
L.S.D. (bu/a):	--	--	--	8
C.V. (%):	--	--	--	12
SILK DATES:	**8/2-8/3**	**8/2-8/8**	**8/5-8/9**	**8/2-8/9**

1995 GROWING CONDITIONS:

Wet conditions at planting facilitated good stand establishment. Cool, wet conditions for most of the spring shifted to hot, dry, and windy in early July. A hard freeze with 5 inches of snow on September 22 ended the growing season.

A graphical presentation of the season's weather data can be found on page 27.

TABLE 9. THOMAS CO. DRY. STANDARD CORN PERFORMANCE TEST RESULTS, 1994-95.

		ACRE YIELD, BU.			YIELD AS % OF TEST AVERAGE		94-95		1995					
BRAND	HYBRID	1995	1994	2-Yr. AVG	1995	1994	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Drop Ears %	Test Wt. lb/bu
STINE	9703	65	--	--	119	--	--	--	12	81	96	5	3	55
MATURITY CHECK	SHORT-C4327	61	156	109	111	110	14	80	13	81	101	2	7	55
PIONEER	3489	70	--	--	126	--	--	--	14	81	94	6	1	56
STINE	9602	64	--	--	116	--	--	--	14	82	97	2	6	56
MATURITY CHECK	MID-H-2530	61	135	98	110	95	14	82	14	83	97	2	1	55
STINE	9704	60	--	--	108	--	--	--	14	83	103	4	1	55
BO-JAC	438	60	148	104	108	105	16	81	16	82	97	6	6	56
MYCOGEN	6220	56	--	--	101	--	--	--	16	82	94	3	7	55
NORTHRUP KING	N7070	59	--	--	107	--	--	--	16	83	100	1	0	55
CASTERLINE	9586 EXP	55	--	--	100	--	--	--	16	84	97	4	10	56
NC+	5037	50	142	96	91	100	18	85	17	86	99	1	2	55
BO-JAC	577	50	138	94	90	98	19	85	18	87	98	2	2	54
NC+	5514	53	159	106	97	112	19	83	19	84	100	5	4	52
CASTERLINE	CX1237	59	161	110	107	114	20	83	20	84	88	1	2	54
MATURITY CHECK	F-B73 X N204	40	--	--	73	--	--	--	20	85	96	10	4	55
MATURITY CHECK	FB73rhmXMO17	55	--	--	99	--	--	--	22	84	100	7	1	53
CASTERLINE	250 EXP	36	--	--	65	--	--	--	24	88	100	3	1	52
BO-JAC	629	39	--	--	71	--	--	--	25	87	95	2	8	53
Test Averages		55	142	99	55	100	17	82	17	84	97	4	4	54
C.V.(%)		12	11	--	12	11	--	--	8	1	5	83	109	2
L.S.D.(0.05)**		8	23	--	15	16	--	--	2	1	NS	4	5	1

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

NORTHWESTERN KANSAS STANDARD CORN TEST IRRIGATED

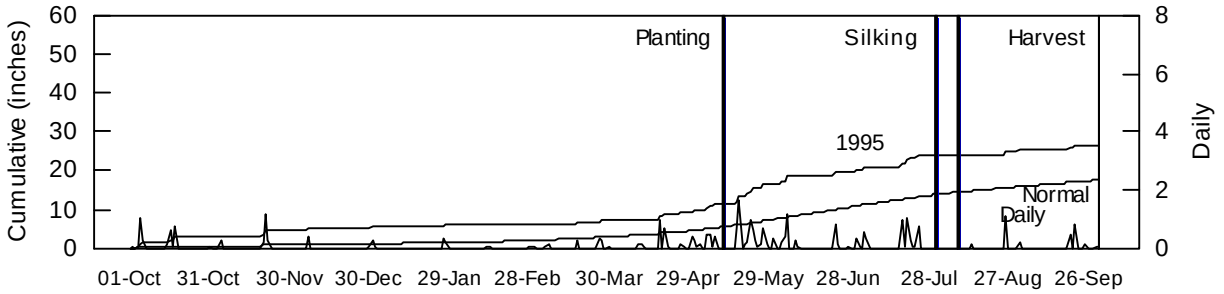
LOCATION: Northwest Research-Extension Center Near Colby in **Thomas County**
COOPERATORS: Patrick Evans, agronomist
Patrick Coyne, head
TEST SITE: Keith silt loam
Sunflowers in 1994, grain sorghum in 1993
FERTILIZATION: 215 lbs N/acre preplant
25 lbs P_2O_5/acre preplant
PLANTING DATE: May 12
HARVEST DATE: October 27 and 28
PEST CONTROL: Atrazine, Lasso, Buctril, and Bladex at planting; Pounce on 7/20; and Capture on 8/12
POPULATION: 27,878 plants/acre, 7.5 in. spacing

	EARLY	MEDIUM	LATE	ALL
STAND (%):	95	97	97	97
TEST YIELDS:				
Avg. (bu/a):	133	131	113	128
Range (bu/a):	83-157	64-174	84-141	64-174
L.S.D. (bu/a):	22	20	19	24
C.V. (%):	14	13	14	13
SILK DATES:	**7/31-8/3**	**7/31-8/7**	**8/3-8/8**	**7/31-8/8**

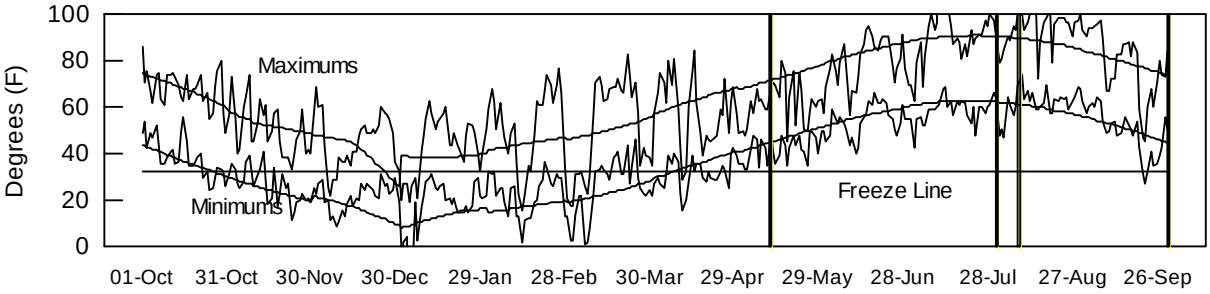
IRRIGATION: 15-20 in. total, applied 7/8, 7/29, 8/11, 8/24, and 9/7

1995 GROWING CONDITIONS:
Soil conditions were still wet at planting time, but stands were acceptable. Most of the season was similar to that described for the dryland test. Spider mites and rootworm beetles were present. High winds (70 mph on October 5 and over 50 mph on two other days) just prior to harvest caused many ears to fall. Yields often were severely affected. Comparisons with other years or other locations should consider these unique conditions.

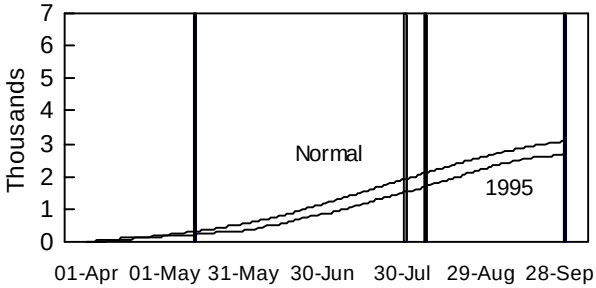
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1995	Normal	1995	Normal	1995	Normal
April	2.7	1.5	45	50	166	209
May	7.1	2.9	52	60	185	353
June	3.3	3.6	67	71	529	631
July	3.9	3.1	75	77	677	775
August	1.4	2.0	79	74	718	683
Sept.	1.4	1.6	64	65	444	466
Season Totals	19.8	14.6	64	66	2717	3116

TABLE 10. THOMAS CO. IRR. STANDARD CORN PERFORMANCE TEST RESULTS, 1993-95.

		ACRE YIELD, BU.					YIELD AS % OF TEST AVERAGE			94-95		1995					
BRAND	HYBRID	1995	1994	1993	2-Yr. AVG.	3-Yr. AVG	1995	1994	1993	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Drop Ears %	Test Wt. lb/bu
EARLY HYBRIDS																	
OTTILIE	2433	98	--	--	--	--	77	--	--	--	--	14	81	101	40	33	55
CARGILL	6303	151	--	--	--	--	118	--	--	--	--	15	80	90	14	9	56
NORTHRUP KING	N5866	144	--	--	--	--	112	--	--	--	--	15	80	96	73	12	57
STINE	9602	83	--	--	--	--	65	--	--	--	--	15	81	92	41	35	55
CARGILL	6327	136	255	--	196	--	107	102	--	16	75	15	82	98	21	31	55
MILLER PREF.	MP-1091	135	265	--	200	--	106	106	--	16	75	15	82	99	20	22	55
MATURITY CHECK	SHORT-C4327	99	228	--	163	--	77	91	--	15	76	15	83	99	5	26	55
AGRIPRO	HS 9484	128	260	--	194	--	100	104	--	16	75	16	82	99	30	27	55
BO-JAC	438	107	258	--	182	--	84	103	--	15	76	16	82	93	21	35	55
CIBA	4494	148	--	--	--	--	116	--	--	--	--	16	82	95	29	14	55
DEKALB	DK580	150	--	--	--	--	117	--	--	--	--	16	82	97	34	17	55
ICI	8541	141	--	--	--	--	110	--	--	--	--	16	82	95	15	16	53
OHLDE(M/W GEN)	309	157	--	--	--	--	122	--	--	--	--	16	82	96	28	14	55
DEKALB	DK591	145	--	--	--	--	113	--	--	--	--	16	83	96	31	11	53
ICI	8543	149	262	110	205	174	116	105	95	16	75	16	83	86	33	15	54
OTTILIE	2444	141	--	--	--	--	110	--	--	--	--	16	83	92	25	23	55
BO-JAC	409	153	--	--	--	--	119	--	--	--	--	17	82	88	27	15	54
NORTHRUP KING	N6330	137	259	114	198	170	107	104	99	16	75	17	82	93	36	15	55
OHLDE(M/W GEN)	316	123	--	--	--	--	96	--	--	--	--	17	82	90	21	11	54
DELTAPINE	4450	142	262	110	202	171	111	105	95	16	76	17	83	96	40	19	54
Early Averages		133	248	--	191	--	104	99	--	16	75	16	82	95	29	20	55
C.V.(%)		14	4	--	--	--	14	4	--	--	--	3	1	5	35	43	1
L.S.D.(0.05)*		22	12	--	--	--	17	5	--	--	--	1	1	6	12	10	1
MEDIUM HYBRIDS																	
STINE	9703	137	--	--	--	--	107	--	--	--	--	14	80	99	63	10	56
COOP	7680	153	--	--	--	--	120	--	--	--	--	15	80	101	36	12	55
MYCOGEN	7050cb	94	--	--	--	--	73	--	--	--	--	15	82	93	55	31	56
MATURITY CHECK	MID-H-2530	130	235	--	182	--	101	94	--	16	76	15	83	93	61	21	54
PIONEER	3394	129	255	--	192	--	101	102	--	15	76	15	83	100	52	23	56
STINE	9704	158	--	--	--	--	124	--	--	--	--	15	83	104	67	12	54
COOP	2181	118	--	--	--	--	92	--	--	--	--	16	82	102	32	26	55
COOP	7727	159	--	--	--	--	124	--	--	--	--	16	82	102	21	17	55
HAWKEYE	SX62	133	--	--	--	--	104	--	--	--	--	16	82	96	35	21	55
HOEGEMEYER	2666	154	--	--	--	--	121	--	--	--	--	16	82	99	27	12	55
ASGROW	RX770	163	--	--	--	--	127	--	--	--	--	16	83	102	51	5	54
NORTHRUP KING	N7070	98	--	--	--	--	77	--	--	--	--	16	83	97	19	34	54
PIONEER	3375	113	--	--	--	--	89	--	--	--	--	16	83	95	29	26	55
DEKALB	DK626	64	--	--	--	--	50	--	--	--	--	16	84	94	60	39	54
CIBA	4545	100	--	--	--	--	78	--	--	--	--	16	86	102	32	24	54
CASTERLINE	6485 EXP	152	--	--	--	--	118	--	--	--	--	17	81	101	26	13	55
STINE	9702	142	--	--	--	--	111	--	--	--	--	17	81	95	58	12	55
HOEGEMEYER	2655	159	--	--	--	--	124	--	--	--	--	17	82	90	25	15	54
KAYSTAR	KX - 777	164	--	--	--	--	128	--	--	--	--	17	82	102	19	20	54
OTTILIE	2467	164	--	--	--	--	128	--	--	--	--	17	82	96	32	10	55
CARGILL	7697	120	249	126	185	165	94	100	109	17	76	17	83	91	11	25	56
CARGILL	7777	121	272	--	196	--	94	109	--	17	76	17	83	93	40	30	56
MILLER PREF.	MP-1131	156	--	--	--	--	122	--	--	--	--	17	83	100	17	13	54
NORTHRUP KING	N7590	106	244	--	175	--	83	98	--	17	76	17	83	93	62	27	54
BO-JAC	525	95	--	--	--	--	75	--	--	--	--	17	84	101	29	25	55
OHLDE(M/W GEN)	312	111	268	--	189	--	87	107	--	16	79	17	85	82	57	28	54
OHLDE(M/W GEN)	340	135	253	--	194	--	106	101	--	17	79	17	85	93	44	13	53

(continued)

TABLE 10. THOMAS CO. IRR. STANDARD CORN PERFORMANCE TEST RESULTS, 1993-95.

		ACRE YIELD, BU.					YIELD AS % OF TEST AVERAGE			94-95		1995					
BRAND	HYBRID	1995	1994	1993	2-Yr. AVG.	3-Yr. AVG	1995	1994	1993	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Drop Ears %	Test Wt. lb/bu
AGRIPRO	HS 9502	117	257	137	187	170	91	103	119	17	80	17	86	94	41	28	53
ASGROW	RX801	116	254	--	185	--	91	102	--	17	80	17	86	107	27	19	54
BO-JAC	577	110	257	144	183	170	86	103	125	17	79	17	86	104	50	27	54
OTTILIE	2446	111	260	131	185	167	87	104	114	17	79	17	86	99	38	24	54
OHLDE(M/W GEN)	331	144	280	125	212	183	112	112	109	18	76	18	83	98	19	17	55
BO-JAC	580	174	--	--	--	--	136	--	--	--	--	18	84	100	14	7	54
CASTERLINE	9297 EXP	147	--	--	--	--	115	--	--	--	--	18	84	98	24	18	54
CASTERLINE	9785 EXP	138	--	--	--	--	108	--	--	--	--	18	84	101	19	11	54
KAYSTAR	KX - 909	132	231	--	181	--	103	92	--	18	78	18	84	95	24	14	53
NORTHRUP KING	N7333	127	256	--	192	--	99	103	--	18	77	18	84	99	25	23	54
OTTILIE	2482X	145	--	--	--	--	113	--	--	--	--	18	84	95	27	14	53
TRIUMPH	1324	77	239	--	158	--	60	96	--	17	77	18	84	92	31	27	54
AGRIPRO	AP619	139	--	--	--	--	109	--	--	--	--	18	85	95	42	10	53
DEKALB	DK652	118	276	--	197	--	92	110	--	18	78	18	86	98	52	24	53
ICI	8330	131	--	--	--	--	102	--	--	--	--	18	86	98	58	17	54
CIBA	4575	79	--	--	--	--	61	--	--	--	--	18	87	103	54	45	54
MILLER PREF.	MP-1141	160	--	--	--	--	125	--	--	--	--	19	83	99	32	14	54
PIONEER	3225	161	271	--	216	--	126	108	--	19	78	19	84	95	31	10	55
PIONEER	3162	165	276	134	221	192	129	111	116	19	78	20	84	98	22	10	54
Medium Averages		131	254	--	192	--	102	101	--	17	77	17	83	97	37	20	54
C.V.(%)		13	4	--	--	--	13	4	--	--	--	3	1	6	38	39	1
L.S.D.(0.05)*		20	11	--	--	--	15	4	--	--	--	1	1	7	16	9	1
LATE HYBRIDS																	
CARGILL	7997	141	234	118	187	164	110	93	102	18	77	18	83	99	42	12	55
ASGROW	RX893	129	--	--	--	--	101	--	--	--	--	19	85	92	50	15	52
AGRIPRO	AP9707	103	--	--	--	--	80	--	--	--	--	19	87	97	28	24	53
CASTERLINE	CX1252	99	261	--	180	--	78	105	--	19	82	19	88	102	61	25	52
CIBA	4581	128	--	--	--	--	100	--	--	--	--	19	88	104	61	19	53
OHLDE(M/W GEN)	300	110	262	128	186	167	86	105	111	19	81	19	88	97	47	20	52
STINE	9801	121	--	--	--	--	95	--	--	--	--	20	85	99	52	21	52
OHLDE(M/W GEN)	510	115	253	--	184	--	90	101	--	19	81	20	87	98	37	17	52
DELTAPINE	4581	112	260	136	186	169	88	104	118	19	82	20	88	101	44	27	53
DELTAPINE	G-4673B	104	261	126	182	164	81	104	110	20	78	21	84	97	33	13	53
MATURITY CHECK	FB73rhmXMO17	108	--	--	--	--	84	--	--	--	--	21	84	92	56	21	51
MATURITY CHECK	F-B73 X N204	138	--	--	--	--	108	--	--	--	--	21	85	93	28	12	52
CASTERLINE	9510 EXP	108	--	--	--	--	84	--	--	--	--	21	86	100	50	17	51
CARGILL	8327	102	252	133	177	163	80	101	116	20	81	21	87	98	45	20	51
MYCOGEN	8240	84	257	--	170	--	66	103	--	20	80	21	87	86	41	20	51
ICI	8285	103	--	--	--	--	81	--	--	--	--	21	88	102	51	21	52
Late Averages		113	247	--	180	--	88	99	--	19	80	20	86	97	45	19	52
C.V.(%)		14	5	--	--	--	14	5	--	--	--	5	1	6	37	36	2
L.S.D.(0.05)*		19	14	--	--	--	15	6	--	--	--	1	1	7	NS	NS	1
ALL HYBRIDS																	
Test Averages		128	250	115	189	164	100	250	115	17	77	17	84	97	37	20	54
C.V.(%)		13	4	--	--	--	13	4	--	--	--	3	1	6	38	39	1
L.S.D.(0.05)**		24	14	15	--	--	19	6	13	--	--	1	1	8	19	11	1

* L.S.D. for comparing hybrids within a maturity grouping.

** L.S.D. for comparing hybrids in different maturity groups.

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

WEST CENTRAL KANSAS STANDARD CORN TEST DRYLAND

LOCATION: Southwest Research-Extension Center
Near Tribune in **Greeley County**
COOPERATORS: Alan Schlegel, agronomist
Harold Click and Dave Frickel, technicians
Patrick Coyne, head
TEST SITE: Richfield silt loam
Wheat in 1994, fallow in 1993
FERTILIZATION: 60 lbs N/acre
PLANTING DATE: June 15
HARVEST DATE: October 16
PEST CONTROL: Good
Atrazine applied on June 22
POPULATION: 14,935 plants/acre, 14 in. spacing

	EARLY	MEDIUM	LATE	ALL
STAND (%):	97	108	105	103
TEST YIELDS:				
Avg. (bu/a):	37	29	26	31
Range (bu/a):	28-42	26-34	20-36	20-42
L.S.D. (bu/a):	--	--	--	8.8
C.V. (%):	--	--	--	24.1
SILK DATES:	**8/19-8/20**	**8/21-8/24**	**8/21-8/25**	**8/19-8/25**

1995 GROWING CONDITIONS:

The late planting date, late silking during the hottest part of the growing season, and lack of rainfall at critical times all contributed to poor yields for this test. The grain dried very slowly after the late September freeze and was harvested so wet that accurate moisture estimates were not possible.

A graphical presentation of growing-season weather data can be found on page 31.

TABLE 11. GREELEY CO. DRY. STANDARD CORN PERFORMANCE TEST RESULTS, 1994-95.

		ACRE YIELD, BU.			YIELD AS % OF TEST AVERAGE		94-95		1994				
BRAND	HYBRID	1995	1994	2-Yr. AVG	1995	1994	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Test Wt. lb/bu
MYCOGEN	6220	38	--	--	125	--	--	--	--	65	99	30	49
BO-JAC	438	40	94	67	131	106	9	75	--	66	96	30	45
MATURITY CHECK	SHORT-C4327	27	--	--	90	--	9	74	--	66	101	18	52
PIONEER	3489	42	--	--	139	--	--	--	--	66	93	16	50
CASTERLINE	CX1237	36	99	67	119	111	15	76	--	67	105	15	45
CASTERLINE	9586 EXP	34	--	--	111	--	--	--	--	67	104	11	43
MATURITY CHECK	FB73rhmXMO17	25	--	--	82	--	--	--	--	68	112	36	41
MATURITY CHECK	MID-H-2530	27	82	54	89	92	8	75	--	68	114	29	47
BO-JAC	577	26	102	64	85	114	12	78	--	70	107	26	40
CASTERLINE	250 EXP	26	--	--	87	--	--	--	--	70	97	9	43
BO-JAC	629	24	--	--	77	--	--	--	--	71	108	23	40
MATURITY CHECK	F-B73 X N204	20	--	--	66	--	--	--	--	71	105	41	47
Test Averages		31	89	60	31	100	11	76	--	68	103	24	45
C.V.(%)		24	9	17	24	10	4	2	--	2	8	38	4
L.S.D.(0.05)**		9	10	9	29	11	1	1	--	2	9	11	2

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

WEST CENTRAL KANSAS STANDARD CORN TEST IRRIGATED

LOCATION: Southwest Research-Extension Center Near Tribune in **Greeley County**
COOPERATORS: Alan Schlegel, agronomist
Harold Click and Dave Frickel, technicians
Patrick Coyne, head
TEST SITE: Ulysses silt loam
Fallow in 1994, corn in 1993
FERTILIZATION: 180 lbs N/acre preplant
P_2O_5 previous year during fallow
PLANTING DATE: May 12
HARVEST DATE: October 10
PEST CONTROL: Dual/Atrazine preemergence and Accent on 6/26
POPULATION: 27,878 plants/acre, 7.5 in. spacing

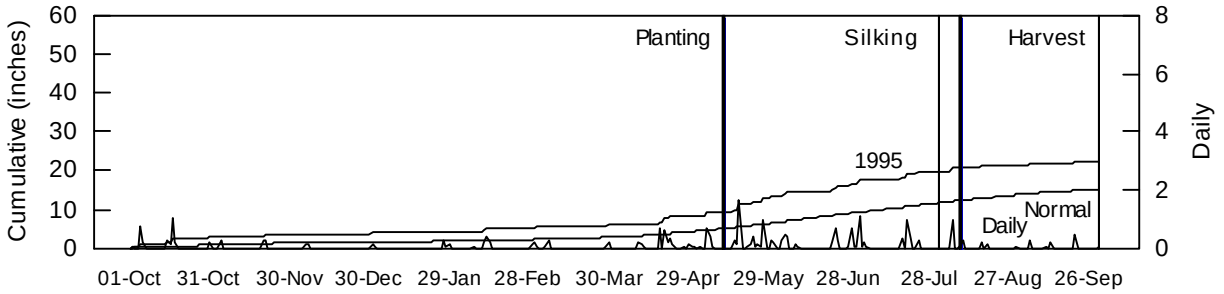
	EARLY	MEDIUM	LATE	ALL
STAND (%):	124	121	122	122
TEST YIELDS:				
Avg. (bu/a):	143	138	121	135
Range (bu/a):	119-162	119-154	106-138	106-162
L.S.D. (bu/a):	17	15	15	21
C.V. (%):	8	9	10	10
SILK DATES:	**8/1-8/5**	**8/2-8/8**	**8/4-8/9**	**8/1-8/9**

IRRIGATION: 12-18 in. total, applied 7/7, 7/15, 7/25, 8/7, 8/17, and 8/22

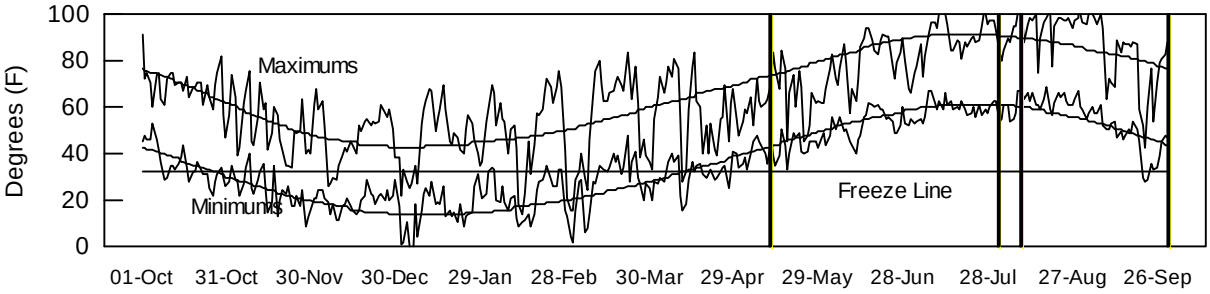
1995 GROWING CONDITIONS:

Cool, wet conditions delayed planting and slowed emergence, but good stands eventually were obtained. Damaging hail occurred on July 1 and September 11. The September storm stripped almost all the leaves from the plants. Strong winds on October 5 contributed to the excessive lodging. Some rootworm beetle and earworm/western bean cutworm damage also was noted. Yields were surprisingly uniform after such a harsh season.

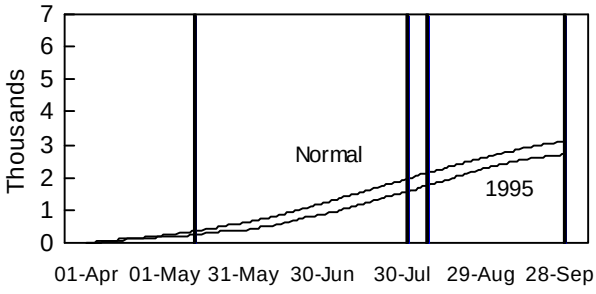
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1995	Normal	1995	Normal	1995	Normal
April	2.5	1.4	45	50	180	242
May	5.0	2.3	53	60	217	381
June	3.1	2.6	66	71	504	619
July	3.2	2.5	75	76	693	746
August	1.7	2.1	78	74	708	668
Sept.	0.9	1.3	64	65	442	490
Season Totals	16.4	12.3	64	66	2742	3144

TABLE 12. GREELEY CO. IRR. STANDARD CORN PERFORMANCE TEST RESULTS, 1993-95.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			94-95		1995					
BRAND	HYBRID	1995	1994	1993	2-Yr. AVG.	3-Yr. AVG	1995	1994	1993	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Drop Ears %	Test Wt. lb/bu
EARLY HYBRIDS																	
MATURITY CHECK	SHORT-C4327	119	176	--	148	--	88	90	--	17	80	18	82	127	28	21	53
CARGILL	6303	132	--	--	--	--	98	--	--	--	--	19	81	118	28	4	53
DEKALB	DK580	162	--	--	--	--	120	--	--	--	--	20	82	118	33	3	52
MILLER PREF.	MP-1091	153	--	--	--	--	114	--	--	--	--	21	82	128	49	12	52
BO-JAC	438	142	190	--	166	--	105	97	--	20	83	21	83	120	36	14	51
DEKALB	DK591	147	184	--	165	--	109	95	--	20	82	21	84	128	38	6	50
BO-JAC	409	146	--	--	--	--	108	--	--	--	--	22	83	121	53	10	50
DELTAPINE	4450	146	182	200	164	176	108	93	107	21	83	23	84	127	22	6	51
NORTHRUP KING	N6330	143	--	202	--	--	106	--	108	--	--	23	85	125	36	12	50
Early Averages		143	171	--	157	--	106	88	--	19	81	21	83	124	36	10	51
C.V.(%)		8	13	--	--	--	8	13	--	--	--	3	1	6	35	74	1
L.S.D.(0.05)*		17	32	--	--	--	12	16	--	--	--	1	1	NS	15	9	1
MEDIUM HYBRIDS																	
MYCOGEN	7050cb	134	--	--	--	--	99	--	--	--	--	19	82	114	46	7	54
KAYSTAR	KX - 777	139	--	--	--	--	103	--	--	--	--	22	83	117	29	6	51
MILLER PREF.	MP-1131	151	--	--	--	--	112	--	--	--	--	22	83	121	40	5	50
ASGROW	RX770	151	--	--	--	--	112	--	--	--	--	22	84	131	60	3	50
MATURITY CHECK	MID-H-2530	146	198	--	172	--	108	102	--	19	83	22	84	123	46	4	50
NORTHRUP KING	N7070	135	--	--	--	--	100	--	--	--	--	22	84	118	16	4	50
CASTERLINE	6485 EXP	154	--	--	--	--	114	--	--	--	--	23	82	124	65	7	50
NORTHRUP KING	N7590	138	--	--	--	--	102	--	--	--	--	23	84	127	52	10	49
CARGILL	7697	128	216	195	172	179	95	111	104	22	82	24	84	126	31	8	51
TRIUMPH	1324	121	208	--	164	--	89	107	--	22	83	24	84	114	49	11	49
MYCOGEN	7460	119	--	--	--	--	88	--	--	--	--	24	86	123	42	13	49
BO-JAC	577	127	--	196	--	--	94	--	105	--	--	24	88	121	30	3	49
BO-JAC	580	141	--	--	--	--	105	--	--	--	--	25	83	114	25	3	49
CASTERLINE	9297 EXP	146	--	--	--	--	108	--	--	--	--	25	84	117	31	2	50
PIONEER	3225	146	220	--	183	--	108	113	--	25	84	25	84	112	35	2	51
TRIUMPH	1522	140	--	--	--	--	104	--	--	--	--	25	84	125	37	5	50
BO-JAC	525	132	--	--	--	--	98	--	--	--	--	25	85	123	21	10	49
CARGILL	7777	148	216	--	182	--	110	111	--	23	84	25	85	126	58	15	50
CASTERLINE	9785 EXP	131	--	--	--	--	97	--	--	--	--	25	85	121	15	3	50
ASGROW	RX801	110	214	--	162	--	81	110	--	24	87	25	88	124	22	5	49
KAYSTAR	KX - 909	144	--	--	--	--	107	--	--	--	--	26	85	123	19	2	47
DEKALB	DK652	145	219	--	182	--	108	112	--	24	85	26	86	123	25	3	48
PIONEER	3162	152	227	204	190	194	113	116	109	26	83	27	84	123	27	1	50
Medium Averages		138	205	--	172	--	102	105	--	23	84	24	84	121	36	6	50
C.V.(%)		9	9	--	--	--	9	9	--	--	--	4	2	5	32	72	1
L.S.D.(0.05)*		15	26	--	--	--	11	14	--	--	--	1	2	8	13	5	1

(continued)

TABLE 12. GREELEY CO. IRR. STANDARD CORN PERFORMANCE TEST RESULTS, 1993-95.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			94-95		1995					
BRAND	HYBRID	1995	1994	1993	2-Yr. AVG.	3-Yr. AVG	1995	1994	1993	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Drop Ears %	Test Wt. lb/bu
LATE HYBRIDS																	
PIONEER	3223	133	--	--	--	--	99	--	--	--	--	26	88	127	38	3	49
DELTAPINE	G-4673B	138	219	205	179	187	102	112	109	25	85	27	85	121	13	3	50
CARGILL	7997	129	221	186	175	179	95	113	99	26	84	28	84	120	31	6	50
DELTAPINE	4581	117	208	213	163	180	87	107	114	27	88	29	89	124	22	2	48
MATURITY CHECK	FB73rhmXMO17	115	--	--	--	--	85	--	--	--	--	30	85	123	46	7	47
STINE	9801	128	--	--	--	--	95	--	--	--	--	30	86	126	39	4	47
MATURITY CHECK	F-B73 X N204	106	--	--	--	--	78	--	--	--	--	31	85	120	45	6	49
ASGROW	RX893	113	--	--	--	--	84	--	--	--	--	32	86	119	54	4	46
CARGILL	8327	111	222	194	166	175	82	114	103	28	87	32	89	119	13	2	47
Late Averages		121	200	--	161	--	90	103	--	27	86	29	86	122	34	4	48
C.V.(%)		10	9	--	--	--	10	9	--	--	--	3	1	4	39	82	1
L.S.D.(0.05)*		15	26	--	--	--	11	13	--	--	--	1	1	NS	16	NS	1
ALL HYBRIDS																	
Test Averages		135	195	188	165	173	135	195	188	23	84	24	84	122	35	6	50
C.V.(%)		10	10	--	--	--	10	10	--	--	--	3	1	5	34	77	1
L.S.D.(0.05)**		21	28	17	--	--	16	14	9	--	--	1	2	9	17	7	1

* L.S.D. for comparing hybrids within a maturity grouping.
** L.S.D. for comparing hybrids in different maturity groups.
Unless two varieties differ by more than the L.S.D., little confidence can be placed in one being superior to the other.

SOUTHWESTERN KANSAS STANDARD CORN TEST IRRIGATED

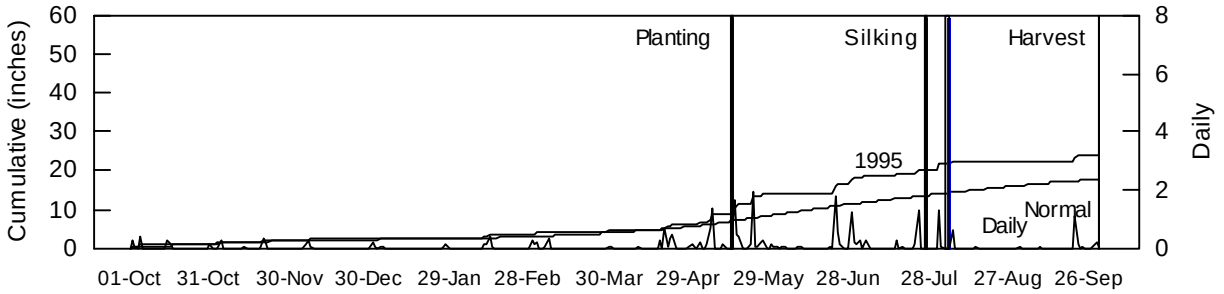
LOCATION: Southwest Research-Extension Center Near Garden City in **Finney County**
COOPERATORS: Merle Witt, agronomist
Patrick Coyne, head
TEST SITE: Keith silt loam
Soybeans in 1994, corn in 1993
FERTILIZATION: 200 lbs N/acre preplant
PLANTING DATE: May 15
HARVEST DATE: October 17
PEST CONTROL: Some southwestern corn borer
Prowl/Bladex at planting
POPULATION: 27,878 plants/acre, 7.5 in. spacing

	EARLY	MEDIUM	LATE	ALL
STAND (%):	--	118	119	118.5
TEST YIELDS:				
Avg. (bu/a):	--	186	177	182
Range (bu/a):	151-175	156-217	146-201	151-201
L.S.D. (bu/a):	--	13.3	17.4	18.7
C.V. (%):	--	5.2	7.2	6.4
SILK DATES:	**7/27-7/29**	**7/28-8/2**	**7/30-8/4**	**7/27-8/4**

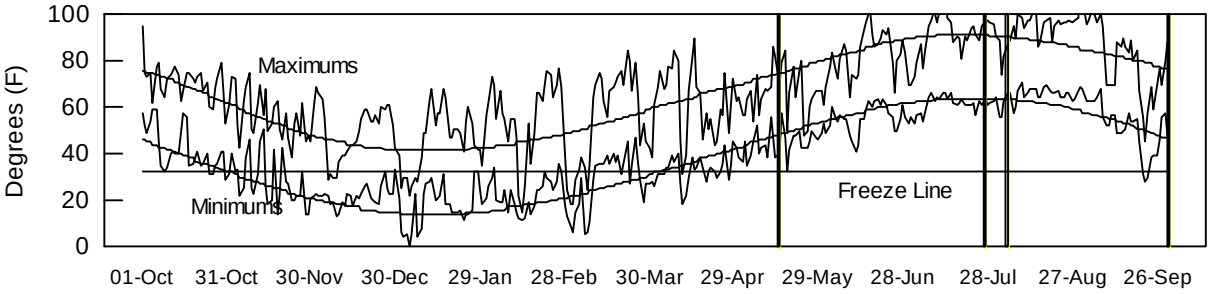
IRRIGATION: Prewatered 4/27 plus 5 in. applied on 7/13, 7/29, 8/18, and 8/31

1995 GROWING CONDITIONS:
Excellent stands were obtained after a cool, wet, late spring. Cool temperatures gave way to hot, dry conditions during the grain filling period in August. Some southwestern corn borer damage was noted.

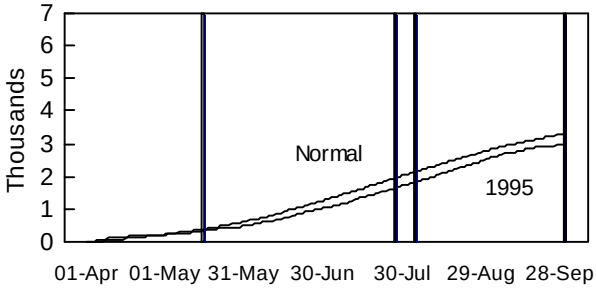
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1995	Normal	1995	Normal	1995	Normal
April	2.0	1.8	48	51	225	234
May	7.7	2.8	56	62	260	393
June	4.1	3.0	69	72	559	673
July	3.7	2.5	77	78	734	795
August	0.7	2.1	80	75	767	715
Sept.	1.4	1.6	66	67	474	514
Season Totals	19.6	13.8	66	68	3019	3323

TABLE 13. FINNEY CO. IRR. STANDARD CORN PERFORMANCE TEST RESULTS, 1993-95.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			94-95		1995					
					2-Yr.	3-Yr.				Mois-ture	Days to	Mois-ture	Days to	Final Stnd	Lod-ging	Drop Ear	Plant Ht.
BRAND	HYBRID	1995	1994	1993	AVG.	AVG.	1995	1994	1993	%	Silk	%	Silk	%	%	%	in.
EARLY AND MEDIUM HYBRIDS																	
DEKALB	DK626	184	--	--	--	--	101	--	--	--	--	15	75	111	6	11	115
HPH	KS 5149	183	--	--	--	--	100	--	--	--	--	16	74	119	2	3	107
MATURITY CHECK	SHORT-C4327	151	206	--	178	--	83	107	--	15	71	16	74	123	1	14	111
STINE	9704	164	--	--	--	--	90	--	--	--	--	16	75	119	7	6	112
ICI	8330	183	--	--	--	--	101	--	--	--	--	16	77	122	3	4	107
KAYSTAR	KX - 777	204	--	--	--	--	112	--	--	--	--	17	74	120	3	5	107
OTTILIE	2467	180	--	--	--	--	99	--	--	--	--	17	74	121	2	2	106
DELTAPINE	4450	175	214	203	194	197	96	111	100	16	73	17	75	120	2	3	106
MATURITY CHECK	MID-H-2530	187	208	--	198	--	103	108	--	15	73	17	75	121	2	4	106
NORTHRUP KING	N6330	175	--	--	--	--	96	--	--	--	--	17	75	124	2	4	108
STINE	9702	179	--	--	--	--	99	--	--	--	--	17	75	120	1	1	99
ASGROW	RX770	192	198	--	195	--	105	103	--	16	73	17	76	124	3	5	109
CARGILL	7777	164	193	--	178	--	90	100	--	16	73	17	76	121	7	11	118
OTTILIE	2482X	173	--	--	--	--	95	--	--	--	--	17	76	119	2	1	114
AGRIPRO	HS 9502	188	195	197	191	193	103	101	97	17	75	17	77	108	3	2	107
MYCOGEN	7460	156	--	--	--	--	86	--	--	--	--	17	77	121	1	2	110
NC+	5037	193	208	197	200	199	106	108	98	16	75	17	77	112	1	3	108
OHLDE(M/W GEN)	312	174	--	--	--	--	96	--	--	--	--	17	77	107	3	6	107
OHLDE(M/W GEN)	340	185	184	--	185	--	102	95	--	17	74	17	77	118	0	4	107
TRIUMPH	1452	190	199	209	194	199	104	103	103	16	75	17	77	114	2	3	104
HPH	KS 5091	174	--	--	--	--	96	--	--	--	--	18	73	115	2	3	107
CARGILL	7697	173	173	210	173	186	95	90	104	17	73	18	75	116	2	9	115
NORTHRUP KING	N7070	172	--	--	--	--	95	--	--	--	--	18	75	108	1	5	110
PIONEER	3375	183	--	--	--	--	101	--	--	--	--	18	75	116	1	3	110
KAYSTAR	KX - 909	195	187	--	191	--	107	97	--	18	74	18	76	125	1	1	113
NORTHRUP KING	N7590	181	204	--	193	--	100	106	--	17	74	18	76	114	6	4	112
PIONEER	3225	212	232	--	222	--	117	120	--	17	74	18	76	118	2	3	106
AGRIPRO	AP619	183	--	--	--	--	101	--	--	--	--	18	77	123	3	4	107
ASGROW	RX789	217	--	--	--	--	119	--	--	--	--	18	77	116	1	2	110
DEKALB	DK652	202	200	--	201	--	111	104	--	17	75	18	77	113	2	2	109
CIBA	4575	192	--	--	--	--	106	--	--	--	--	18	79	119	2	11	116
CASTERLINE	9297 EXP	205	--	--	--	--	113	--	--	--	--	19	75	113	1	5	114
COOP	7820	197	179	--	188	--	108	93	--	17	73	19	75	120	1	2	113
OHLDE(M/W GEN)	331	205	--	--	--	--	113	--	--	--	--	19	75	125	3	3	111
PIONEER	3162	216	197	211	207	208	119	102	104	19	73	19	75	116	1	4	110
HOEGEMEYER	2677	178	--	--	--	--	98	--	--	--	--	19	76	116	0	4	113
HPH	KS 5145	210	--	--	--	--	115	--	--	--	--	19	76	119	8	6	113
ASGROW	RX801	183	196	180	189	186	101	102	89	18	76	19	78	127	2	1	116
TRIUMPH	1522	206	--	--	--	--	113	--	--	--	--	20	76	120	2	6	114
COOP	7810	182	--	--	--	--	100	--	--	--	--	21	76	116	1	2	113
WILSON	E1843 EXP	183	--	--	--	--	100	--	--	--	--	21	76	124	2	2	109
Medium Averages		186	193	--	190	--	102	100	--	17	74	18	76	118	2	4	110
C.V.(%)		5	8	--	--	--	5	8	--	--	--	6	1	5	120	65	2
L.S.D.(0.05)*		13	25	--	--	--	7	13	--	--	--	1	1	8	NS	4	3

(continued)

TABLE 13. FINNEY CO. IRR. STANDARD CORN PERFORMANCE TEST RESULTS, 1993-95.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			94-95		1995					
					2-Yr.	3-Yr.				Mois-ture	Days to	Mois-ture	Days to	Final Stnd	Lod-ging	Drop Ear	Plant Ht.
BRAND	HYBRID	1995	1994	1993	AVG.	AVG	1995	1994	1993	%	Silk	%	Silk	%	%	%	in.
LATE HYBRIDS																	
STINE	9801	163	--	--	--	--	90	--	--	--	--	18	78	127	9	3	117
HPH	KS 119	172	--	--	--	--	95	--	--	--	--	18	79	106	1	2	114
CIBA	4581	201	--	--	--	--	110	--	--	--	--	18	80	114	2	2	115
NC+	6959	182	--	--	--	--	100	--	--	--	--	18	80	118	3	4	114
OHLDE(M/W GEN)	362	172	--	--	--	--	94	--	--	--	--	18	80	119	5	6	120
ASGROW	RX843	162	--	--	--	--	89	--	--	--	--	19	76	125	3	3	102
CARGILL	7997	167	180	193	174	180	92	93	96	17	73	19	76	116	2	3	110
DELTAPINE	G-4673B	178	207	225	193	204	98	107	111	18	74	19	76	115	4	4	113
AGRIPRO	AP9707	169	--	--	--	--	93	--	--	--	--	19	79	103	0	10	115
HPH	KS 151	183	--	--	--	--	101	--	--	--	--	19	79	116	3	7	118
ICI	8281	181	184	--	183	--	100	96	--	18	76	19	79	116	3	2	110
MYCOGEN	8240	185	219	219	202	208	102	114	108	18	76	19	79	119	3	1	111
OHLDE(M/W GEN)	363	187	--	--	--	--	103	--	--	--	--	19	79	108	14	4	120
AGRIPRO	HS 9843	168	167	203	167	179	92	86	100	18	76	19	80	124	1	2	114
CARGILL	8327	179	211	218	195	203	98	109	108	18	76	19	80	125	5	2	115
CASTERLINE	CX1252	194	195	--	194	--	107	101	--	18	77	19	80	117	1	3	115
DELTAPINE	4581	191	187	220	189	199	105	97	109	19	77	19	80	119	0	1	118
ICI	8285	172	179	--	175	--	94	93	--	18	76	19	80	120	1	3	113
NORTHRUP KING	N7989	190	--	204	--	--	104	--	101	--	--	19	80	122	2	3	117
OHLDE(M/W GEN)	300	180	205	208	192	198	99	106	103	18	77	19	80	116	1	3	113
OHLDE(M/W GEN)	510	178	209	233	194	207	98	108	115	18	76	19	80	113	4	6	115
OTTILIE	2562	176	167	231	171	191	97	87	114	18	76	19	80	122	5	3	114
PIONEER	3223	170	--	--	--	--	94	--	--	--	--	19	80	126	1	4	118
TRIUMPH	2010	188	200	228	194	205	103	104	113	18	76	19	80	122	2	5	114
AGRIPRO	HS 9848	178	192	179	185	183	98	100	89	18	76	19	81	122	3	2	116
WILSON	1859	167	--	--	--	--	92	--	--	--	--	19	81	128	1	6	114
HOEGEMEYER	2693	189	--	--	--	--	104	--	--	--	--	20	76	125	2	2	113
ASGROW	RX893	177	--	--	--	--	97	--	--	--	--	20	77	108	7	4	114
CIBA	4662	192	198	243	195	211	105	102	120	19	75	20	77	119	0	1	112
COOP	2345	175	182	219	178	192	96	94	108	18	76	20	79	122	1	2	115
HOEGEMEYER	2761	173	196	226	185	198	95	102	112	19	76	20	79	116	4	1	114
CASTERLINE	9510 EXP	172	--	--	--	--	95	--	--	--	--	20	80	119	4	3	113
MATURITY CHECK	FB73rhmXMO17	159	--	--	--	--	87	--	--	--	--	21	77	119	3	8	110
WILSON	1910	191	227	219	209	212	105	118	108	20	74	21	78	128	1	2	104
CIBA	6203X EXP	160	--	--	--	--	88	--	--	--	--	21	79	122	1	2	118
WILSON	E12015 EXP	185	--	--	--	--	102	--	--	--	--	21	81	124	6	4	113
DEKALB	DK715	176	226	230	201	211	97	117	114	20	74	22	76	119	1	1	112
MATURITY CHECK	F-B73 X N204	146	--	--	--	--	80	--	--	--	--	22	76	112	2	2	114
WILSON	2330	186	224	205	205	205	102	116	101	20	77	22	80	117	4	4	110
Late Averages		177	194	--	186	--	97	101	--	18	76	19	79	119	3	3	114
C.V.(%)		7	9	--	--	--	7	9	--	--	--	4	1	5	92	75	2
L.S.D.(0.05)*		17	27	--	--	--	10	14	--	--	--	1	1	8	4	3	3
ALL HYBRIDS																	
Test Averages		182	193	202	187	192	182	193	202	17	75	19	77	118	3	4	112
C.V.(%)		6	8	--	--	--	6	8	--	--	--	5	1	5	105	68	2
L.S.D.(0.05)**		19	26	24	--	--	10	14	12	--	--	2	1	9	4	4	3

* L.S.D. for comparing hybrids within a maturity grouping.
** L.S.D. for comparing hybrids in different maturity groups.
Unless two varieties differ by more than the L.S.D., little confidence can be placed in one being superior to the other.

TABLE 14. YIELD AS PERCENT OF TEST AVERAGE FROM STANDARD CORN TESTS, 1995.

		DRYLAND TESTS									IRRIGATED TESTS								ALL	
		COUNTY							Hyb	No.	COUNTY						Hyb	No.	Hyb	No.
BRAND	HYBRID	DP	BR	RL	FR	RP	TH	GL	Avg	Tst.	SN	RP	SF	TH	GL	FI	Avg	Tst.	Avg	Tst.
EARLY HYBRIDS																				
AGRIPRO	HS 9484	--	--	--	105	--	--	--	105	1	--	--	--	100	--	--	100	1	102	2
BO-JAC	409	101	97	95	--	--	--	--	98	3	96	--	--	119	108	--	108	3	103	6
BO-JAC	438	104	97	99	98	--	108	131	106	6	105	--	--	84	105	--	98	3	104	9
CARGILL	6303	99	--	--	--	--	--	--	99	1	--	--	100	118	98	--	105	3	104	4
CARGILL	6327	--	--	--	--	--	--	--	--	0	--	--	--	107	--	--	107	1	107	1
CIBA	4494	--	--	103	109	--	--	--	106	2	--	111	--	116	--	--	113	2	110	4
DEKALB	DK580	--	--	--	--	--	--	--	--	0	--	--	--	117	120	--	119	2	119	2
DEKALB	DK591	102	116	103	--	107	--	--	107	4	--	95	--	113	109	--	105	3	106	7
DELTAPINE	4450	102	92	--	110	--	--	--	101	3	108	99	92	111	108	96	102	6	102	9
HPH	KS 5091	--	--	--	--	--	--	--	--	0	--	--	--	--	--	96	96	1	96	1
ICI	8541	--	104	--	--	--	--	--	104	1	--	--	--	110	--	--	110	1	107	2
ICI	8543	--	--	--	--	--	--	--	--	0	--	--	--	116	--	--	116	1	116	1
LEWIS	4985	104	--	--	--	--	--	--	104	1	--	--	--	--	--	--	--	0	104	1
MILLER PREF.	MP-1091	--	--	--	--	--	--	--	--	0	--	--	--	106	114	--	110	2	110	2
MYCOGEN	6220	--	--	--	--	91	101	125	106	3	--	--	--	--	--	--	--	0	106	3
NC+	4616	--	102	--	--	--	--	--	102	1	--	99	--	--	--	--	99	1	101	2
NORTHRUP KING	N5866	--	--	--	--	--	--	--	--	0	--	--	--	112	--	--	112	1	112	1
NORTHRUP KING	N6330	--	--	--	--	--	--	--	--	0	--	--	--	107	106	96	103	3	103	3
OHLDE(M/W GEN)	309	111	--	--	--	--	--	--	111	1	--	111	--	122	--	--	117	2	115	3
OHLDE(M/W GEN)	316	103	--	--	--	--	--	--	103	1	--	108	--	96	--	--	102	2	102	3
OTTILIE	2433	--	--	--	--	--	--	--	--	0	--	--	--	77	--	--	77	1	77	1
OTTILIE	2444	--	--	--	--	--	--	--	--	0	--	--	--	110	--	--	110	1	110	1
PFISTER	2650	106	103	--	--	--	--	--	104	2	--	--	--	--	--	--	--	0	104	2
PIONEER	3489	--	--	--	--	--	126	139	132	2	--	112	--	--	--	--	112	1	125	3
PIONEER	3563	--	--	--	--	105	--	--	105	1	--	--	--	--	--	--	--	0	105	1
STINE	9602	--	--	89	--	--	116	--	102	2	--	--	--	65	--	--	65	1	90	3
MATURITY CHECK	SHORT-C4327	80	108	89	73	85	111	90	91	7	90	78	98	77	88	83	86	6	88	13
Early Averages, %		101	102	96	99	97	113	121	104	7	100	101	101	104	106	--	102	5	103	12
C.V.(%)		8	13	8	15	8	--	--	--	--	4	7	10	14	8	--	--	--	--	--
L.S.D.(0.05)*		10	NS	7	NS	11	--	--	--	--	7	8	12	17	12	--	--	--	--	--
MEDIUM HYBRIDS																				
AGRIPRO	AP565	--	--	--	115	--	--	--	115	1	97	--	--	--	--	--	97	1	106	2
AGRIPRO	AP619	--	--	--	107	--	--	--	107	1	101	--	102	109	--	101	103	4	104	5
AGRIPRO	HS 9502	--	--	--	--	--	--	--	--	0	--	--	91	91	--	103	95	3	95	3
ASGROW	RX770	107	--	--	--	--	--	--	107	1	106	--	100	127	112	105	110	5	110	6
ASGROW	RX789	108	--	--	--	--	--	--	108	1	116	--	--	--	--	119	117	2	114	3
ASGROW	RX801	106	--	--	--	--	--	--	106	1	96	--	91	91	81	101	92	5	94	6
BO-JAC	525	--	--	--	--	--	--	--	--	0	105	--	--	75	98	--	93	3	93	3
BO-JAC	577	92	--	110	85	--	90	85	93	5	98	--	--	86	94	--	92	3	93	8
BO-JAC	580	116	--	--	--	--	--	--	116	1	103	--	--	136	105	--	114	3	115	4
CARGILL	7697	--	--	--	--	--	--	--	--	0	--	100	86	94	95	95	94	5	94	5
CARGILL	7777	109	109	103	102	109	--	--	106	5	111	111	103	94	110	90	103	6	105	11
CARGILL	X7507 EXP	--	--	--	--	--	--	--	--	0	110	--	--	--	--	--	110	1	110	1
CASTERLINE	6485 EXP	--	--	--	--	--	--	--	--	0	--	--	--	118	114	--	116	2	116	2
CASTERLINE	9297 EXP	--	--	--	--	--	--	--	--	0	--	--	--	115	108	113	112	3	112	3
CASTERLINE	9586 EXP	--	--	--	--	--	100	111	105	2	--	--	--	--	--	--	--	0	105	2

(continued)

TABLE 14. YIELD AS PERCENT OF TEST AVERAGE FROM STANDARD CORN TESTS, 1995.

		DRYLAND TESTS									IRRIGATED TESTS								ALL	
		COUNTY							Hyb Avg	No. Tst.	COUNTY						Hyb Avg	No. Tst.	Hyb Avg	No. Tst.
BRAND	HYBRID	DP	BR	RL	FR	RP	TH	GL			SN	RP	SF	TH	GL	FI				
CASTERLINE	9785 EXP	--	--	--	--	--	--	--	--	0	--	--	--	108	97	--	103	2	103	2
CIBA	4295X	--	--	95	106	--	--	--	101	2	--	--	--	--	--	--	--	0	101	2
CIBA	4545	--	--	--	--	--	--	--	--	0	--	90	--	78	--	--	84	2	84	2
CIBA	4575	--	--	--	--	--	--	--	--	0	--	103	--	61	--	106	90	3	90	3
COOP	2181	--	--	--	--	--	--	--	--	0	--	--	--	92	--	--	92	1	92	1
COOP	7680	--	--	--	--	--	--	--	--	0	--	--	--	120	--	--	120	1	120	1
COOP	7727	--	--	--	--	--	--	--	--	0	--	--	--	124	--	--	124	1	124	1
COOP	7810	--	91	--	--	--	--	--	91	1	--	--	--	--	--	100	100	1	96	2
COOP	7820	--	100	--	--	--	--	--	100	1	--	--	--	--	--	108	108	1	104	2
DEKALB	DK626	87	102	106	110	98	--	--	101	5	102	110	114	50	--	101	95	5	98	10
DEKALB	DK646	91	108	--	116	--	--	--	105	3	88	--	--	--	--	--	88	1	101	4
DEKALB	DK652	--	--	--	--	--	--	--	--	0	--	114	--	92	108	111	106	4	106	4
FONTANELLE	5325	98	111	--	--	--	--	--	104	2	--	--	--	--	--	--	--	0	104	2
FONTANELLE	5624	110	109	--	--	--	--	--	109	2	--	--	--	--	--	--	--	0	109	2
GOLDEN HARVEST	H-2547	--	78	--	--	--	--	--	78	1	--	--	--	--	--	--	--	0	78	1
GOLDEN HARVEST	H-2564	--	--	--	--	--	--	--	--	0	--	104	--	--	--	--	104	1	104	1
GOLDEN HARVEST	H-2581	113	98	--	102	--	--	--	104	3	--	110	--	--	--	--	110	1	106	4
HAWKEYE	7378	--	90	--	--	--	--	--	90	1	--	--	--	--	--	--	--	0	90	1
HAWKEYE	7994	99	--	--	--	--	--	--	99	1	--	--	--	--	--	--	--	0	99	1
HAWKEYE	8981	--	99	--	--	--	--	--	99	1	--	--	--	--	--	--	--	0	99	1
HAWKEYE	SX62	115	--	--	--	--	--	--	115	1	--	109	--	104	--	--	107	2	109	3
HAWKEYE	SX81	106	98	--	--	--	--	--	102	2	--	--	--	--	--	--	--	0	102	2
HOEGEMEYER	2626	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	0	--	0
HOEGEMEYER	2655	--	--	--	--	--	--	--	--	0	--	--	--	124	--	--	124	1	124	1
HOEGEMEYER	2666	--	--	--	--	--	--	--	--	0	--	--	--	121	--	--	121	1	121	1
HOEGEMEYER	2677	--	--	--	--	--	--	--	--	0	--	107	--	--	--	98	103	2	103	2
HPH	KS 5145	--	--	--	--	--	--	--	--	0	--	--	--	--	--	115	115	1	115	1
HPH	KS 5149	--	--	--	--	--	--	--	--	0	--	--	--	--	--	100	100	1	100	1
ICI	8330	97	95	--	96	--	--	--	96	3	103	102	95	102	--	101	101	5	99	8
KAYSTAR	KX - 777	--	--	--	--	--	--	--	--	0	--	110	106	128	103	112	112	5	112	5
KAYSTAR	KX - 909	--	--	--	--	--	--	--	--	0	--	110	107	103	107	107	107	5	107	5
LEWIS	5584	113	93	--	--	--	--	--	103	2	--	--	--	--	--	--	--	0	103	2
MILLER PREF.	MP-1131	--	--	--	--	--	--	--	--	0	--	--	--	122	112	--	117	2	117	2
MILLER PREF.	MP-1141	--	--	--	--	97	--	--	97	1	--	100	--	125	--	--	113	2	107	3
MYCOGEN	7050cb	--	--	--	--	--	--	--	--	0	93	--	--	73	99	--	88	3	88	3
MYCOGEN	7460	--	--	--	--	--	--	--	--	0	--	--	--	--	88	86	87	2	87	2
NC+	5037	87	--	--	115	--	91	--	98	3	--	93	100	--	--	106	100	3	99	6
NC+	5445	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	0	--	0
NC+	5514	--	--	--	--	--	97	--	97	1	--	--	--	--	--	--	--	0	97	1
NORTHRUP KING	N7070	--	--	--	--	--	107	--	107	1	--	--	103	77	100	95	93	4	96	5
NORTHRUP KING	N7333	109	--	--	125	--	--	--	117	2	--	--	--	99	--	--	99	1	111	3
NORTHRUP KING	N7590	96	115	99	119	101	--	--	106	5	107	93	101	83	102	100	98	6	101	11
OHLDE(M/W GEN)	312	91	93	98	76	--	--	--	89	4	91	94	92	87	--	96	92	5	91	9
OHLDE(M/W GEN)	331	114	99	122	118	--	--	--	113	4	106	109	115	112	--	113	111	5	112	9
OHLDE(M/W GEN)	340	103	107	107	108	--	--	--	106	4	99	106	103	106	--	102	103	5	104	9
OTTILIE	2446	--	--	--	--	--	--	--	--	0	--	--	--	87	--	--	87	1	87	1
OTTILIE	2467	--	--	--	--	--	--	--	--	0	--	--	--	128	--	99	114	2	114	2
OTTILIE	2482X	--	--	--	--	--	--	--	--	0	--	--	--	113	--	95	104	2	104	2

(continued)

TABLE 14. YIELD AS PERCENT OF TEST AVERAGE FROM STANDARD CORN TESTS, 1995.

		DRYLAND TESTS									IRRIGATED TESTS								ALL	
		COUNTY							Hyb Avg	No. Tst.	COUNTY						Hyb Avg	No. Tst.	Hyb Avg	No. Tst.
BRAND	HYBRID	DP	BR	RL	FR	RP	TH	GL			SN	RP	SF	TH	GL	FI				
PIONEER	3162	--	--	--	--	--	--	--	--	0	--	--	102	129	113	119	116	4	116	4
PIONEER	3225	90	--	--	--	--	--	--	90	1	94	116	111	126	108	117	112	6	109	7
PIONEER	3279	--	117	--	111	--	--	--	114	2	--	--	--	--	--	--	--	0	114	2
PIONEER	3346	--	113	--	--	111	--	--	112	2	--	--	--	--	--	--	--	0	112	2
PIONEER	3375	92	--	--	76	100	--	--	89	3	91	90	--	89	--	101	93	4	91	7
PIONEER	3394	103	101	--	109	--	--	--	104	3	96	--	--	101	--	--	98	2	102	5
RENZE	6345	117	--	--	--	--	--	--	117	1	--	--	--	--	--	--	--	0	117	1
RENZE	6386 EXP	114	--	--	--	--	--	--	114	1	--	--	--	--	--	--	--	0	114	1
STINE	9702	--	--	--	--	--	--	--	--	0	84	107	--	111	--	99	100	4	100	4
STINE	9703	--	--	--	--	--	119	--	119	1	--	--	103	107	--	--	105	2	110	3
STINE	9704	--	--	--	88	--	108	--	98	2	--	--	--	124	--	90	107	2	102	4
TRIUMPH	1324	--	--	--	94	--	--	--	94	1	--	--	--	60	89	--	75	2	81	3
TRIUMPH	1452	93	--	--	99	--	--	--	96	2	--	--	103	--	--	104	104	2	100	4
TRIUMPH	1522	105	--	--	128	--	--	--	117	2	--	--	99	--	104	113	105	3	110	5
WILSON	E1843 EXP	--	--	--	--	--	--	--	--	0	--	--	--	--	--	100	100	1	100	1
MATURITY CHECK	MID-H-2530	94	107	96	102	104	110	89	100	7	80	96	106	101	108	103	99	6	100	13
Medium Averages, %		103	101	104	105	103	103	95	102	7	99	104	101	102	102	102	102	6	102	13
C.V.(%)		8	14	9	11	7	--	--	--	--	7	4	10	13	9	5	--	--	--	--
L.S.D.(0.05)*		10	16	8	19	NS	--	--	--	--	9	14	12	15	11	7	--	--	--	--
LATE HYBRIDS																				
AGRIPRO	AP707	--	--	--	--	--	--	--	--	0	--	--	125	80	--	93	100	3	100	3
AGRIPRO	HS 9843	--	--	--	--	--	--	--	--	0	--	--	103	--	--	92	97	2	97	2
AGRIPRO	HS 9848	--	--	--	--	--	--	--	--	0	--	--	--	--	--	98	98	1	98	1
ASGROW	RX843	95	--	--	--	--	--	--	95	1	94	--	--	--	--	89	92	2	93	3
ASGROW	RX893	90	--	--	--	--	--	--	90	1	92	--	96	101	84	97	94	5	93	6
BO-JAC	629	107	--	100	93	--	71	77	90	5	--	--	--	--	--	--	--	0	90	5
CARGILL	7997	95	104	--	131	--	--	--	110	3	95	91	85	110	95	92	95	6	100	9
CARGILL	8327	105	108	--	113	--	--	--	109	3	117	101	94	80	82	98	95	6	100	9
CASTERLINE	250 EXP	--	--	--	--	--	65	87	76	2	--	--	--	--	--	--	--	0	76	2
CASTERLINE	9510 EXP	--	--	--	--	--	--	--	--	0	--	--	--	84	--	95	89	2	89	2
CASTERLINE	CX1237	--	--	--	--	--	107	119	113	2	--	--	--	--	--	--	--	0	113	2
CASTERLINE	CX1252	--	--	--	--	--	--	--	--	0	--	--	--	78	--	107	92	2	92	2
CIBA	4581	--	--	101	85	--	--	--	93	2	--	91	--	100	--	110	100	3	97	5
CIBA	4662	--	--	--	--	--	--	--	--	0	--	--	107	--	--	105	106	2	106	2
CIBA	6203X EXP	--	--	--	--	--	--	--	--	0	--	--	103	--	--	88	95	2	95	2
COOP	2345	--	--	--	--	--	--	--	--	0	--	--	--	--	--	96	96	1	96	1
COOP	7875	--	89	--	--	--	--	--	89	1	--	--	--	--	--	--	--	0	89	1
DEKALB	DK668	--	--	--	106	--	--	--	106	1	--	--	--	--	--	--	--	0	106	1
DEKALB	DK683	--	--	--	--	--	--	--	--	0	--	--	107	--	--	--	107	1	107	1
DEKALB	DK715	--	--	--	--	--	--	--	--	0	--	113	104	--	--	97	105	3	105	3
DELANGE	DS 1995	--	--	--	75	--	--	--	75	1	96	--	96	--	--	--	96	2	89	3
DELTAPINE	4581	92	97	--	104	--	--	--	98	3	108	93	80	88	87	105	93	6	95	9
DELTAPINE	G-4673B	92	105	--	99	--	--	--	99	3	97	103	103	81	102	98	97	6	98	9
FONTANELLE	6162	112	--	--	103	--	--	--	108	2	95	--	--	--	--	--	95	1	104	3
FONTANELLE	6340	--	116	--	--	--	--	--	116	1	--	--	--	--	--	--	--	0	116	1
GOLDEN HARVEST	H-2641	100	96	--	100	--	--	--	99	3	--	--	--	--	--	--	--	0	99	3
HOEGEMEYER	2689	102	80	--	80	--	--	--	87	3	105	--	--	--	--	--	105	1	92	4

(continued)

TABLE 14. YIELD AS PERCENT OF TEST AVERAGE FROM STANDARD CORN TESTS, 1995.

		DRYLAND TESTS									IRRIGATED TESTS								ALL	
		COUNTY							Hyb Avg	No. Tst.	COUNTY						Hyb Avg	No. Tst.	Hyb Avg	No. Tst.
BRAND	HYBRID	DP	BR	RL	FR	RP	TH	GL			SN	RP	SF	TH	GL	FI				
HOEGEMEYER	2693	102	101	--	92	--	--	--	98	3	94	91	107	--	--	104	99	4	99	7
HOEGEMEYER	2761	91	96	--	91	--	--	--	93	3	115	102	101	--	--	95	103	4	99	7
HPH	KS 119	--	--	--	--	--	--	--	--	0	--	--	--	--	--	95	95	1	95	1
HPH	KS 151	--	--	--	--	--	--	--	--	0	--	--	--	--	--	101	101	1	101	1
ICI	8281	--	--	100	--	--	--	--	100	1	112	109	--	--	--	100	107	3	105	4
ICI	8285	96	--	--	76	--	--	--	86	2	--	--	97	81	--	94	91	3	89	5
LEWIS	6294	95	115	--	--	--	--	--	105	2	--	--	--	--	--	--	--	0	105	2
LEWIS	8492	--	104	--	--	--	--	--	104	1	--	--	--	--	--	--	--	0	104	1
MILLER PREF.	MP-1141	--	--	--	--	97	--	--	97	1	--	100	--	125	--	--	113	2	107	3
MILLER PREF.	MP-1172	--	--	--	--	104	--	--	104	1	--	89	--	--	--	--	89	1	96	2
MYCOGEN	7885	--	--	102	101	--	--	--	101	2	--	91	--	--	--	--	91	1	98	3
MYCOGEN	8240	92	101	--	110	--	--	--	101	3	96	104	88	66	--	102	91	5	95	8
MYCOGEN	8460	93	87	--	--	--	--	--	90	2	--	--	110	--	--	--	110	1	97	3
NC+	6959	102	--	--	--	--	--	--	102	1	--	--	101	--	--	100	100	2	101	3
NC+	7117	--	90	--	92	--	--	--	91	2	101	--	--	--	--	--	101	1	94	3
NC+	7304	--	--	--	--	--	--	--	--	0	--	--	82	--	--	--	82	1	82	1
NORTHRUP KING	N7989	94	94	--	--	--	--	--	94	2	--	89	98	--	--	104	97	3	96	5
NORTHRUP KING	N8811	--	--	--	99	--	--	--	99	1	--	--	--	--	--	--	--	0	99	1
OHLDE(M/W GEN)	300	88	89	--	94	--	--	--	91	3	98	93	85	86	--	99	92	5	92	8
OHLDE(M/W GEN)	362	105	--	--	--	--	--	--	105	1	106	83	--	--	--	94	94	3	97	4
OHLDE(M/W GEN)	363	106	--	--	--	--	--	--	106	1	114	101	--	--	--	103	106	3	106	4
OHLDE(M/W GEN)	510	104	103	--	104	--	--	--	104	3	102	96	94	90	--	98	96	5	99	8
OTTILIE	2562	--	--	--	--	--	--	--	--	0	--	--	--	--	--	97	97	1	97	1
PFISTER	3965	96	97	--	--	--	--	--	96	2	--	--	--	--	--	--	--	0	96	2
PFISTER	3976	95	97	--	--	--	--	--	96	2	--	--	--	--	--	--	--	0	96	2
PIONEER	3223	--	--	--	--	--	--	--	--	0	--	--	114	--	99	94	102	3	102	3
RENZE	6416 EXP	102	--	--	--	--	--	--	102	1	--	--	--	--	--	--	--	0	102	1
RENZE	6425	102	--	--	--	--	--	--	102	1	--	--	--	--	--	--	--	0	102	1
STINE	9801	106	97	--	94	--	--	--	99	3	--	98	--	95	95	90	94	4	96	7
TERRA	E 1205 EXP	--	--	--	--	--	--	--	--	0	--	--	94	--	--	--	94	1	94	1
TERRA	TR 1167	--	--	--	--	--	--	--	--	0	--	--	104	--	--	--	104	1	104	1
TERRA	TR 1185	--	--	--	--	--	--	--	--	0	--	--	103	--	--	--	103	1	103	1
TERRA	TR 702E	--	--	--	--	--	--	--	--	0	--	--	98	--	--	--	98	1	98	1
TRIUMPH	2010	--	--	--	--	--	--	--	--	0	--	--	105	--	--	103	104	2	104	2
WILSON	1859	--	--	--	--	--	--	--	--	0	--	--	115	--	--	92	103	2	103	2
WILSON	1910	93	--	--	--	--	--	--	93	1	--	--	96	--	--	105	100	2	98	3
WILSON	2330	100	--	--	--	--	--	--	100	1	--	--	108	--	--	102	105	2	103	3
WILSON	E12015 EXP	97	--	--	--	--	--	--	97	1	--	--	83	--	--	102	93	2	94	3
MATURITY CHECK	F-B73 X N204	72	91	84	69	94	73	66	78	7	89	80	95	108	78	80	89	6	83	13
MATURITY CHECK	FB73rhmXMO17	90	92	101	77	82	99	82	89	7	93	83	104	84	85	87	89	6	89	13
Late Averages, %		97	98	98	95	98	83	86	94	7	101	95	100	88	90	97	95	6	94	13
C.V.(%)		10	11	8	8	10	--	--	--	--	9	8	13	14	10	7	--	--	--	--
L.S.D.(0.05)*		11	12	6	14	13	--	--	--	--	13	9	15	15	11	10	--	--	--	--
ALL HYBRIDS																				
Test Averages, bushels		140	78	145	103	116	55	31	95	7	100	178	162	100	135	182	143	6	117	13
C.V.(%)		9	12	8	10	8	12	24	--	--	8	7	13	13	10	6	--	--	--	--
L.S.D.(0.05)**		12	18	8	21	12	15	29	--	--	13	10	18	19	16	10	--	--	--	--

*L.S.D. for comparing hybrids within a maturity grouping. **L.S.D. for comparing hybrids in different maturity groups.

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

LOCATION: East Central Kansas Experiment Field South of Ottawa in **Franklin County**
COOPERATORS: Keith Janssen, agronomist
Edwin Horstick, technician
TEST SITE: Woodson silt loam
Soybeans in 1994, grain sorghum in 1993
FERTILIZATION: 70 lbs N/acre preplant
34 lbs P_2O_5/acre preplant
11 lbs K_2O/acre preplant
PLANTING DATE: April 26
SILKING DATES: July 15 - July 21
HARVEST DATE: October 6

PEST CONTROL: Fairly good, one cultivation no herbicides because of wet conditions
POPULATION:
Desired: 20,000 plants/acre, 10.5 in. spacing
Final stand: 88% of desired
TEST YIELDS:
Average: 92 bu/acre
Range: 60 to 97 bu/acre
L.S.D.: 11 bu/acre
C.V.: 12%
1995 GROWING CONDITIONS:
Similar to those described for the standard test on page 15. Graphical presentations of weather data also can be found there.

TABLE 15. FRANKLIN CO. SHORT-SEASON CORN PERFORMANCE TEST RESULTS, 1993-95.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			94-95		1995				
BRAND	HYBRID	1995	1994	1993	2-Yr. AVG.	3-Yr. AVG	1995	1994	1993	Moisture %	Days to Silk	Moisture %	Days to Silk	Final Stnd %	Lodging %	Test Wt. lb/bu
TRIUMPH	9932	69	--	--	--	--	89	--	--	--	--	14	80	98	1	57
NORTHRUP KING	N4242	62	80	72	71	71	80	87	111	14	75	14	81	84	1	57
CARGILL	3797	78	--	--	--	--	101	--	--	--	--	14	82	91	0	57
CARGILL	4277	79	--	--	--	--	101	--	--	--	--	14	82	93	0	57
MATURITY CHECK	SHORT-C4327	83	101	73	92	86	106	110	113	15	77	14	82	97	0	57
NC+	1991	82	100	65	91	82	105	109	99	15	77	14	82	93	0	57
PIONEER	3737	63	87	53	75	68	81	95	81	15	77	14	82	90	4	57
BO-JAC	135	60	91	--	76	--	77	99	--	15	77	14	83	66	1	57
DEKALB	DK569	92	--	--	--	--	118	--	--	--	--	14	83	90	1	57
NORTHRUP KING	N4640	77	--	--	--	--	98	--	--	--	--	14	83	100	0	57
OHLDE(M/W GEN)	104	85	107	69	96	87	109	117	106	16	79	14	84	95	0	56
CIBA	4303	77	--	--	--	--	99	--	--	--	--	15	81	84	1	58
GOLDEN HARVEST	H-2404	80	93	75	86	83	102	102	115	16	75	15	81	86	2	58
CIBA	4393	66	87	70	76	74	84	95	107	16	78	15	82	78	0	57
ASGROW	RX623T	94	--	--	--	--	121	--	--	--	--	15	83	107	1	57
ICI	8599	92	109	65	100	88	118	118	99	16	78	15	83	109	0	56
DEKALB	DK580	91	108	--	99	--	116	118	--	16	79	15	84	95	2	58
DELANGE	DS 1204	68	98	--	83	--	87	106	--	16	79	15	84	79	1	56
MYCOGEN	5440	84	94	--	89	--	107	102	--	15	79	15	84	104	1	56
PIONEER	3563	90	102	77	96	89	115	111	118	16	79	15	84	92	0	59
OHLDE(M/W GEN)	101	66	--	--	--	--	84	--	--	--	--	15	85	78	0	59
OHLDE(M/W GEN)	102	80	98	68	89	82	103	107	105	16	80	15	85	81	0	56
GOLDEN HARVEST	H-2502	79	--	--	--	--	101	--	--	--	--	15	86	87	0	56
BO-JAC	438	79	--	--	--	--	102	--	--	--	--	16	84	76	1	58
BO-JAC	409	76	--	--	--	--	98	--	--	--	--	16	84	85	0	58
MATURITY CHECK	MID-H-2530	82	--	--	--	--	105	--	--	--	--	16	84	94	1	57
STINE	9602	72	--	--	--	--	93	--	--	--	--	16	84	91	0	57
NORTHRUP KING	N5901	68	--	--	--	--	88	--	--	--	--	16	85	74	0	60
NC+	4616	97	109	50	103	86	125	119	77	18	80	17	86	94	0	58
ICI	8481	94	121	--	108	--	121	132	--	19	78	19	82	101	1	57
MATURITY CHECK	F-B73 X N204	41	--	--	--	--	52	--	--	--	--	19	85	27	4	57
MATURITY CHECK	FB73rhmXMO17	90	84	56	87	77	116	91	86	18	81	19	86	93	0	56
Test Averages		78	92	65	85	78	78	92	65	16	78	15	83	88	1	57
C.V.(%)		12	12	--	12	--	12	12	--	4	1	3	2	10	274	1
L.S.D.(0.05)**		11	15	9	13	12	15	17	13	1	1	1	1	11	NS	1

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

SOUTHEASTERN KANSAS SHORT-SEASON CORN TEST

LOCATION: Southeast Agric. Research Center
Near Parsons in **Labette County**
COOPERATORS: James Long, agronomist
Lyle W. Lomas, head
TEST SITE: Parsons silt loam
Soybeans in 1994, wheat in 1993
FERTILIZATION: 100 lbs N/acre preplant
50 lbs P_2O_5/acre preplant
50 lbs K_2O/acre preplant
PLANTING DATE: March 31
SILKING DATES: July 4 - July 11
HARVEST DATE: September 14
PEST CONTROL: Good
Counter and Bicep herbicide applied at planting

POPULATION:

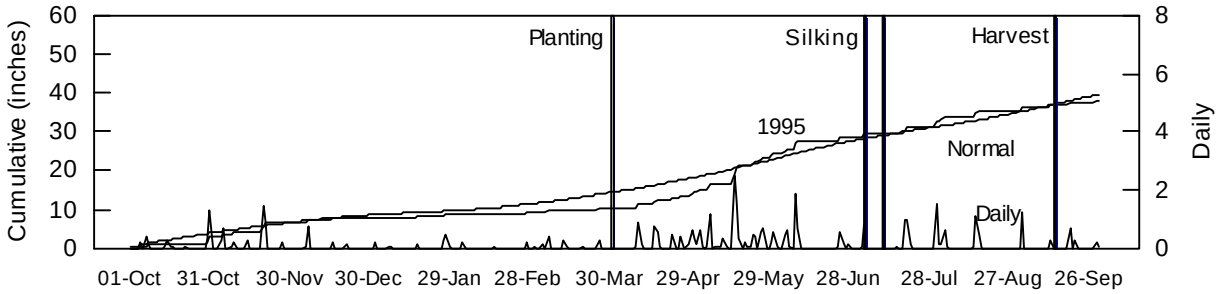
Desired:	21,000 plants/acre
Final stand:	110% of desired

TEST YIELDS:

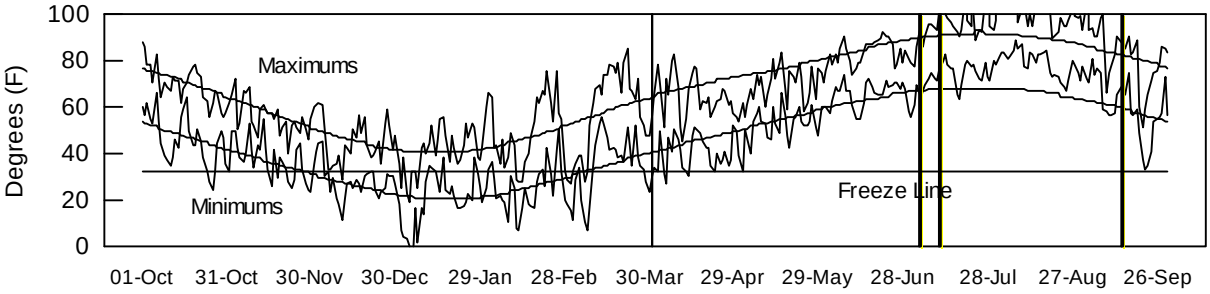
Average:	126 bu/acre
Range:	107 to 151 bu/acre
L.S.D.:	11 bu/acre
C.V.:	7%

1995 GROWING CONDITIONS:
This test was planted into dry soil very early but was subjected to over 2 months of excess rainfall after planting. Hail on July 4 and July 25 stripped approximately 20% of the leaves; however, yields did not appear to suffer greatly. After all the moisture through July, conditions were hot and dry from August 7 until harvest.

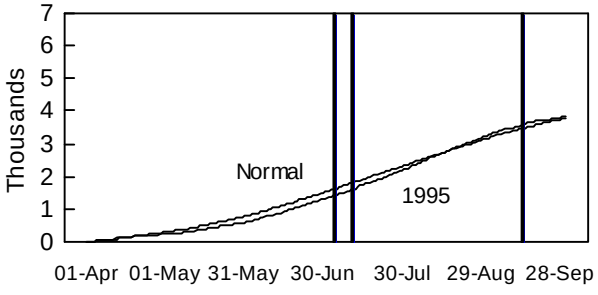
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1995	Normal	1995	Normal	1995	Normal
April	4.2	3.9	53	58	231	304
May	9.8	4.9	61	66	363	485
June	4.4	4.9	74	75	741	750
July	4.4	3.5	85	80	944	861
August	2.3	3.8	91	78	975	786
Sept.	2.5	4.5	71	70	617	615
Season Totals	27.7	25.4	73	71	3872	3799

TABLE 16. LABETTE CO. SHORT-SEASON CORN PERFORMANCE TEST RESULTS, 1993-95.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			94-95		1995					
BRAND	HYBRID	1995	1994	1993	2-Yr. AVG.	3-Yr. AVG	1995	1994	1993	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Ear Ht. in.	Plnt Ht. in.	Final Stnd %	Test Wt. lb/bu
PIONEER	3737	120	104	110	112	111	95	102	101	16	82	14	96	30	79	112	56
TRIUMPH	9932	118	--	--	--	--	93	--	--	--	--	14	96	31	78	111	56
NC+	1991	121	99	115	110	112	96	98	106	18	83	14	97	32	80	112	56
NORTHRUP KING	N4242	107	105	107	106	106	85	103	98	16	82	14	97	32	81	107	55
CARGILL	3797	134	--	--	--	--	106	--	--	--	--	14	98	34	81	115	56
NORTHRUP KING	N4640	125	--	--	--	--	99	--	--	--	--	14	98	29	78	113	56
MATURITY CHECK	MID-H-2530	139	--	--	--	--	110	--	--	--	--	14	100	31	83	111	56
GOLDEN HARVEST	H-2404	122	101	114	111	112	97	99	105	16	81	15	95	27	70	108	58
DEKALB	DK471	108	--	--	--	--	85	--	--	--	--	15	96	32	76	109	55
NORTHRUP KING	N5901	120	--	--	--	--	95	--	--	--	--	15	97	31	77	108	58
STINE	9602	125	--	--	--	--	99	--	--	--	--	15	98	31	80	109	57
TERRA	TR990	120	--	--	--	--	95	--	--	--	--	15	98	31	76	109	56
ASGROW	RX623T	127	--	--	--	--	100	--	--	--	--	15	99	28	76	111	57
CARGILL	4277	128	--	--	--	--	102	--	--	--	--	15	99	33	87	112	56
DELANGE	DS 1204	116	95	--	105	--	92	93	--	17	84	15	99	33	80	105	56
MYCOGEN	5480	116	--	--	--	--	92	--	--	--	--	15	99	30	73	109	56
DEKALB	DK580	151	123	128	137	134	119	121	118	18	84	15	100	33	82	112	58
GOLDEN HARVEST	H-2502	134	--	--	--	--	106	--	--	--	--	15	100	32	89	107	56
ICI	8599	109	103	101	106	104	87	101	93	17	84	15	100	30	80	105	55
OHLDE(M/W GEN)	101	117	--	--	--	--	92	--	--	--	--	15	100	33	87	109	58
OHLDE(M/W GEN)	104	122	109	--	115	--	97	107	--	18	85	15	100	32	85	107	56
PIONEER	3563	131	105	126	118	121	104	103	116	17	84	15	100	36	91	108	57
OHLDE(M/W GEN)	102	125	108	--	116	--	99	106	--	17	86	15	101	32	83	110	56
MATURITY CHECK	SHORT-C4327	133	102	110	117	115	105	100	102	17	84	16	99	33	90	118	56
TERRA	E1094 EXP	129	--	--	--	--	102	--	--	--	--	16	100	35	85	111	56
ICI	8481	142	82	--	112	--	112	81	--	18	83	17	98	27	72	110	56
NC+	4616	142	--	98	--	--	112	--	90	--	--	17	99	33	83	115	56
MATURITY CHECK	FB73rhmXMO17	135	114	108	124	119	107	112	100	20	87	19	100	37	90	110	54
MATURITY CHECK	F-B73 X N204	148	--	--	--	--	117	--	--	--	--	20	102	42	93	109	56
Test Averages		126	102	109	114	112	126	102	109	17	84	15	99	32	81	110	56
C.V.(%)		7	14	--	--	--	7	14	--	--	--	4	1	8	4	4	1
L.S.D.(0.05)**		11	17	14	--	--	9	17	13	--	--	1	1	3	4	6	1

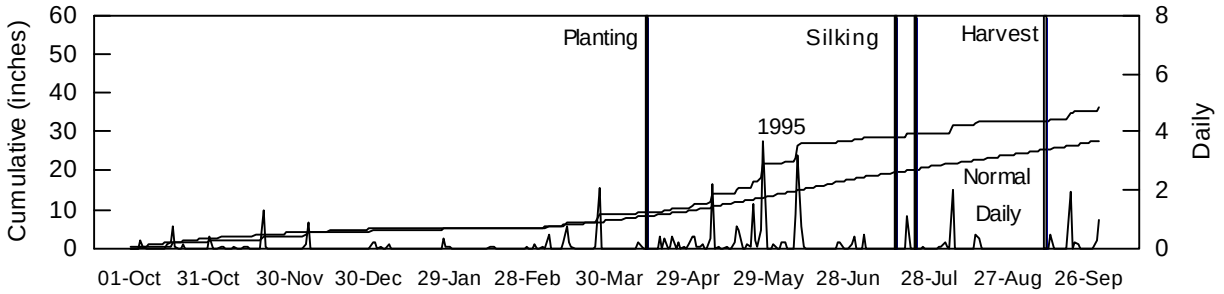
* L.S.D. Unless two varieties differ by more than the L.S.D., little confidence can be placed in one being superior to the other.

SOUTH CENTRAL KANSAS SHORT-SEASON CORN TEST ON CLARK SILT LOAM SOIL

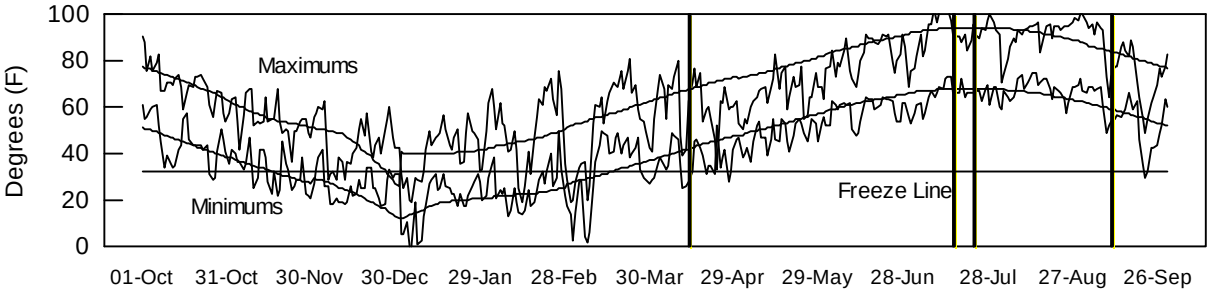
LOCATION: South Central Kansas Experiment Field 9 mi. southwest of Hutchinson in **Reno County**
COOPERATORS: William Heer, agronomist
Brian Wade, technician
TEST SITE: Clark silt loam planted to corn in 1994 and 1993
FERTILIZATION: 100 lbs N/acre preplant
16 lbs N/acre at planting
40 lbs P_2O_5/acre at planting
PLANTING DATE: April 13
SILKING DATES: July 16 - July 23
HARVEST DATE: September 10
PEST CONTROL: Poor weed control because of slow crop growth, Counter in furrow at planting

POPULATION:
Desired: 26,000 plants/acre, 9 in. spacing
Final stand: 86% of desired
TEST YIELDS:
Average: 14 bu/acre
Range: 3 to 28 bu/acre
L.S.D.: 5
C.V.: 24%
1995 GROWING CONDITIONS:
Stand establishment was good; however, cool, wet weather after planting slowed growth until late May. Wet conditions continued until mid-July. Late July and August were hot and dry. The combination of weed pressure and poor pollination greatly reduced the yields for several hybrids.

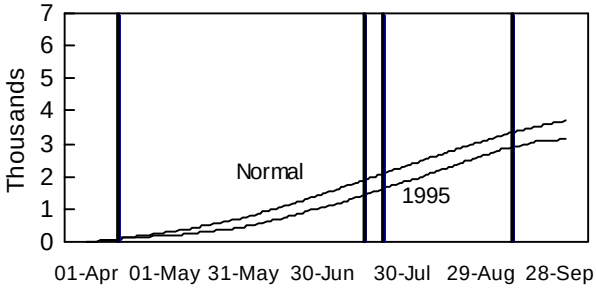
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1995	Normal	1995	Normal	1995	Normal
April	2.4	2.7	49	56	192	292
May	10.5	3.8	57	65	269	463
June	6.3	4.4	71	75	616	749
July	1.6	3.4	80	81	808	862
August	3.0	3.0	80	79	795	773
Sept.	3.8	3.3	67	70	511	591
Season Totals	27.7	20.6	67	71	3189	3728

TABLE 17. RENO CO. SHORT-SEASON CORN PERFORMANCE TEST RESULTS, 1992-95.

BRAND	HYBRID	ACRE YIELD, BUSHELS			YIELD AS% OF TEST AVERAGE		94-95		1995							
							Mois-ture	Days to	Mois-ture	Days to	Plant Ht.	Ears Per	Final Stnd	Lod-ging	Drop Ear	Test Wt.
		1995	1992	2-Yr.	1995	1992	%	Silk	%	Silk	in.	Plnt	%	%	%	lb/bu
CARGILL	3797	14	--	--	104	--	--	--	11	95	69	0.4	83	0	1	53
NORTHRUP KING	N4640	24	--	--	178	--	--	--	11	95	60	0.3	80	0	1	54
PIONEER	3737	3	148	75	21	115	--	--	11	95	63	0.2	90	0	0	54
MATURITY CHECK	MID-H-2530	20	--	--	148	--	--	--	11	97	65	0.6	90	0	1	56
PIONEER	3489	4	--	--	32	--	12	90	11	99	63	0.3	83	1	2	53
GOLDEN HARVEST	H-2404	4	125	65	32	98	12	85	12	94	59	0.3	93	1	0	55
STINE	9602	24	--	--	175	--	--	--	12	96	69	0.5	68	2	19	55
NC+	1991	11	--	--	83	--	--	--	12	97	61	0.4	91	0	1	54
PIONEER	3563	4	149	76	29	116	13	89	12	98	67	0.3	92	2	0	56
CARGILL	4277	8	--	--	62	--	--	--	13	97	67	0.2	84	2	6	54
MATURITY CHECK	SHORT-C4327	5	119	62	34	93	13	90	13	98	66	0.3	91	1	0	55
DELANGE	DS 1204	28	--	--	208	--	--	--	14	97	73	0.7	76	1	4	53
NC+	4616	18	--	--	131	--	--	--	14	98	66	0.6	87	3	7	55
MYCOGEN	6220	17	--	--	127	--	--	--	15	98	67	0.5	100	3	4	53
MATURITY CHECK	F-B73 X N204	18	--	--	135	--	--	--	16	99	67	0.6	77	0	3	53
MATURITY CHECK	FB73rhmXMO17	14	--	--	105	--	19	94	19	101	72	0.5	92	2	2	50
Test Averages		14	128	71	14	128	14	89	13	97	66	0.4	86	1	3	54
C.V.(%)		24	--	--	24	--	--	--	12	2	6	25.1	9	126	178	2
L.S.D.(0.05)**		5	12	--	33	10	--	--	2	3	6	0.1	10	NS	NS	2

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

SOUTH CENTRAL KANSAS SHORT-SEASON CORN TEST ON SANDY SOIL, IRRIGATED

LOCATION: Sandyland Experiment Field
3 miles south of St. John in **Stafford County**
COOPERATORS: Victor Martin, agronomist
Jerry Dove and Yogi Behr, technicians
TEST SITE: Naron loamy fine sand
Wheat in 1994, fallow in 1993
FERTILIZATION: 150 lbs N/acre preplant
46 lbs P_2O_5/acre preplant
100 lbs N/acre after planting
PLANTING DATE: May 19
SILKING DATES: July 15 - July 22
HARVEST DATE: October 5

PEST CONTROL: Generally good, Atrazine and Dual at planting, some pigweed controlled by hand late in the season
POPULATION:
Desired: 32,167 plants/acre, 6.5 in. spacing
Final stand: 115% of desired
TEST YIELDS:
Average: 154 bu/acre
Range: 131 to 171 bu/acre
L.S.D.: 17
C.V.: 9%
1995 GROWING CONDITIONS:
Identical to those described for the standard test on page 23. Graphical presentations of weather data also can be found on that page.

TABLE 18. STAFFORD CO. IRR. SHORT-SEASON CORN PERFORMANCE TEST RESULTS, 1993-95.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			94-95		1995						
BRAND	HYBRID	1995	1994	1993	2-Yr. AVG.	3-Yr. AVG	1995	1994	1993	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Ear Ht. in.	Plnt Ht. in.	Final Stnd %	Lod-ging %	Test Wt. lb/bu
CARGILL	3797	155	--	--	--	--	100	--	--	--	--	14	57	40	94	119	7	57
CARGILL	4277	144	--	--	--	--	94	--	--	--	--	14	59	38	93	107	13	57
OHLDE(M/W GEN)	101	131	--	--	--	--	85	--	--	--	--	14	59	38	95	102	8	60
MATURITY CHECK	SHORT-C4327	144	161	157	153	154	94	103	112	14	57	14	60	41	95	125	10	58
DELANGE	DS 1204	158	--	--	--	--	103	--	--	--	--	14	61	37	91	110	10	56
OHLDE(M/W GEN)	102	144	147	--	145	--	94	94	--	13	60	14	62	37	92	115	7	56
GOLDEN HARVEST	H-2502	153	--	--	--	--	100	--	--	--	--	14	63	36	95	109	6	56
MATURITY CHECK	MID-H-2530	144	--	--	--	--	93	--	--	--	--	14	64	35	92	125	7	56
OHLDE(M/W GEN)	104	155	145	153	150	151	100	93	108	13	60	14	64	35	92	125	4	56
CIBA	4375	163	--	--	--	--	106	--	--	--	--	15	57	38	92	122	7	59
CIBA	4394	171	--	--	--	--	111	--	--	--	--	15	59	38	95	116	3	59
MYCOGEN	7050cb	163	--	--	--	--	106	--	--	--	--	15	60	42	100	111	7	58
PIONEER	3563	161	171	152	166	161	105	109	108	14	58	15	60	38	94	122	5	59
PIONEER	3489	171	157	--	164	--	111	100	--	14	58	15	60	29	95	118	9	58
DELTAPINE	4450	157	167	160	162	161	102	106	114	15	58	15	61	38	95	124	3	57
STINE	9602	131	--	--	--	--	85	--	--	--	--	15	61	37	94	106	17	57
DEKALB	DK591	170	177	152	174	166	110	113	108	14	59	15	62	44	99	122	7	56
NORTHRUP KING	N6330	153	153	--	153	--	99	98	--	15	59	16	61	36	93	106	6	57
NC+	4616	168	151	151	159	157	109	96	108	15	59	16	62	37	90	117	3	57
MATURITY CHECK	FB73rhmXMO17	157	140	147	149	148	102	90	105	17	59	17	63	44	96	111	4	55
MATURITY CHECK	F-B73 X N204	140	--	--	--	--	91	--	--	--	--	17	64	44	97	103	14	58
Test Averages		154	157	141	155	150	154	157	141	14	58	15	61	38	94	115	7	57
C.V.(%)		9	8	--	--	--	9	8	--	--	--	3	3	7	3	8	80	1
L.S.D.(0.05)**		17	21	17	--	--	11	13	12	--	--	1	2	3	4	10	NS	1

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

SOUTHWESTERN KANSAS SHORT-SEASON CORN TEST IRRIGATED

LOCATION: Southwest Research-Extension Center
Near Garden City in **Finney County**
COOPERATORS: Merle Witt, agronomist
Patrick Coyne, head
TEST SITE: Keith silt loam
Soybeans in 1994, corn in 1993
FERTILIZATION: 200 lbs N/acre preplant
PLANTING DATE: May 15
HARVEST DATE: October 12
PEST CONTROL: Southwestern corn borer
Prowl/Bladex at planting

POPULATION: 27,878 plants/acre, 7.5 in. spacing
IRRIGATION: Prewatered 4/13 plus 5 in. applied on 7/13, 7/29, 8/18, and 8/31
POPULATION:
Desired: 34,838 plants/acre, 6 in. spacing
Final stand: 105% of desired
TEST YIELDS:
Average: 147.7 bu/acre
Range: 121 to 177 bu/acre
L.S.D.: 17.8
C.V.: 8.8%
1995 GROWING CONDITIONS:
Similar to those described on page 34 for the standard corn test at this location. Strong winds just prior to harvest caused a number of ears to fall to the ground, decreasing yields for several entries.

TABLE 19. FINNEY CO. IRR. SHORT-SEASON CORN PERFORMANCE TEST RESULTS, 93-95.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			94-95		1995					
BRAND	HYBRID	1995	1994	1993	2-Yr. AVG.	3-Yr. AVG	1995	1994	1993	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Plant Ht. in.	Final Stnd %	Lod-ging %	Drop Ears %
CARGILL	3797	121	--	--	--	--	82	--	--	--	--	15	71	102	103	3	12
BO-JAC	135	140	162	--	151	--	95	93	--	15	69	16	74	99	106	2	4
DEKALB	DK566	144	--	--	--	--	98	--	--	--	--	17	74	100	102	1	4
MATURITY CHECK	SHORT-C4327	128	187	147	157	154	86	108	85	16	70	17	76	104	108	2	18
OHLDE(M/W GEN)	104	123	175	184	149	161	83	100	107	16	71	17	76	101	110	5	6
OTTILIE	2275	139	--	--	--	--	94	--	--	--	--	18	74	94	109	1	3
NC+	1991	143	--	--	--	--	97	--	--	--	--	18	75	100	105	3	2
CARGILL	4277	145	--	--	--	--	98	--	--	--	--	18	76	104	102	3	15
DEKALB	DK580	175	210	--	192	--	118	120	--	17	71	18	76	98	110	1	3
MYCOGEN	6220	145	--	--	--	--	98	--	--	--	--	18	76	101	104	2	7
OHLDE(M/W GEN)	101	142	--	--	--	--	96	--	--	--	--	18	77	105	109	1	1
TRIUMPH	9932	144	135	--	140	--	98	78	--	16	68	19	72	96	109	1	3
STINE	9602	142	--	--	--	--	96	--	--	--	--	19	76	98	100	2	2
MATURITY CHECK	MID-H-2530	163	--	--	--	--	111	--	--	--	--	19	78	103	108	1	3
NORTHRUP KING	N7070	146	--	--	--	--	99	--	--	--	--	20	76	103	94	4	4
BO-JAC	438	173	--	--	--	--	117	--	--	--	--	20	77	102	101	0	3
DELTAPINE	4450	162	209	207	185	192	109	120	120	18	72	20	77	103	109	1	2
NC+	4616	148	206	213	177	189	101	118	124	18	72	20	78	100	113	1	1
BO-JAC	409	177	--	--	--	--	120	--	--	--	--	21	77	100	105	1	4
MATURITY CHECK	FB73rhmXMO17	157	182	194	169	178	106	104	113	20	73	22	78	108	104	1	6
MATURITY CHECK	F-B73 X N204	145	--	--	--	--	98	--	--	--	--	24	79	111	105	3	4
Test Averages		148	174	172	161	165	148	174	172	17	70	19	76	102	105	2	5
C.V.(%)		9	7	--	--	--	9	7	--	--	--	5	1	2	6	106	89
L.S.D.(0.05)**		18	21	25	--	--	12	12	15	--	--	1	1	3	9	NS	NS

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

TABLE 20. YIELD AS PERCENT OF TEST AVERAGE FROM SHORT-SEASON CORN TESTS, 1995.

BRAND	HYBRID	COUNTY					Hyb Avg	No. Tst.
		FRA	LAB	REN	STA	FIN		
ASGROW	RX623T	121	100	--	--	--	111	2
BO-JAC	135	77	--	--	--	95	86	2
BO-JAC	409	98	--	--	--	120	109	2
BO-JAC	438	102	--	--	--	117	110	2
CARGILL	3797	101	106	104	100	82	99	5
CARGILL	4277	101	102	62	94	98	91	5
CIBA	4303	99	--	--	--	--	99	1
CIBA	4375	--	--	--	106	--	106	1
CIBA	4393	84	--	--	--	--	84	1
CIBA	4394	--	--	--	111	--	111	1
DEKALB	DK471	--	85	--	--	--	85	1
DEKALB	DK566	--	--	--	--	98	98	1
DEKALB	DK569	118	--	--	--	--	118	1
DEKALB	DK580	116	119	--	--	118	118	3
DEKALB	DK591	--	--	--	110	--	110	1
DELANGE	DS 1204	87	92	208	103	--	123	4
DELTAPINE	4450	--	--	--	102	109	106	2
GOLDEN HARVEST	H-2404	102	97	32	--	--	77	3
GOLDEN HARVEST	H-2502	101	106	--	100	--	102	3
ICI	8481	121	112	--	--	--	116	2
ICI	8599	118	87	--	--	--	102	2
MYCOGEN	5440	107	--	--	--	--	107	1
MYCOGEN	5480	--	92	--	--	--	92	1
MYCOGEN	6220	--	--	127	--	98	112	2
MYCOGEN	7050cb	--	--	--	106	--	106	1
NC+	1991	105	96	83	--	97	95	4
NC+	4616	125	112	131	109	101	116	5
NORTHRUP KING	N4242	80	85	--	--	--	82	2
NORTHRUP KING	N4640	98	99	178	--	--	125	3
NORTHRUP KING	N5901	88	95	--	--	--	91	2
NORTHRUP KING	N6330	--	--	--	99	--	99	1
NORTHRUP KING	N7070	--	--	--	--	99	99	1
OHLDE(M/W GEN)	101	84	92	--	85	96	89	4
OHLDE(M/W GEN)	102	103	99	--	94	--	98	3
OHLDE(M/W GEN)	104	109	97	--	100	83	97	4
OTTILIE	2275	--	--	--	--	94	94	1
PIONEER	3489	--	--	32	111	--	71	2
PIONEER	3563	115	104	29	105	--	88	4
PIONEER	3737	81	95	21	--	--	66	3
STINE	9602	93	99	175	85	96	109	5
TERRA	E1094 EXP	--	102	--	--	--	102	1
TERRA	TR990	--	95	--	--	--	95	1
TRIUMPH	9932	89	93	--	--	98	93	3
MATURITY CHECK	SHORT-C4327	106	105	34	94	86	85	5
MATURITY CHECK	MID-H-2530	105	110	148	93	111	113	5
MATURITY CHECK	F-B73 X N204	52	117	135	91	98	99	5
MATURITY CHECK	FB73rhmXMO17	116	107	105	102	106	107	5
Test Average, bushels		78	126	14	154	148	104	5
C.V. %		12	7	24	9	9	--	--
L.S.D. (0.05)		15	9	33	11	12	--	--

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

APPENDIX 1 Entrants in the 1995 Kansas Corn Performance Tests

AgriPro Mel Harmless R.R. 2, East Highway 30 Ames IA 50010 515-232-0691	Asgrow Pat McCord 2605 E. Kilgore Kalamazoo MI 49002 616-384-5562	Bo-Jac Robert Foley 245 1500th Ave. Mt. Pulaski IL 62548 800-397-2069
Cargill Jack Carlson P.O. Box 5645 Minneapolis MN 55440 612-742-6743	Casterline Carl Casterline Box 1377 1st & Maple Dodge City KS 67801 800-444-4137	Ciba 211 Landmark Dr. Suite D4 Normal IL 61761 309-454-1223
Coop Mitch Quirin 661 510th St. Alta IA 51002 712-296-3258	DeKalb Diane Freeman 3100 Sycamore Rd. DeKalb IL 60115 815-758-9323	DeLange, AGSECO Steve Ahring P.O. Box 7 Girard KS 66743 316-724-6223
Deltapine John P. Thomas P.O. Box 157 Scott MS 38772 601-742-3351	Fontanelle Steven P. Pike R.R. 1, Box 18 Nickerson NE 68044 402-721-1410	Golden Harvest Bill Green 100 J.C. Robinson Blvd Waterloo NE 68069 402-779-2531
Hawkeye Arlen Eggerling 2165 Idaho Drive Pella IA 50219 515-628-3827	Hoegemeyer Duane Price R.R. 2, Box 126 Hooper NE 68031 402-654-3399	HPH Jim Kramer High Plains Hybrids 1114 So. Monroe Hugoton KS 67951 316-544-4330
ICI ICI Seeds 6945 Vista Dr. West Des Moine IA 50266 800-831-6630	Kaystar Ken King P.O. Box 947 Huron SD 57350 605-352-8791	Lewis Scott Lewis P.O. Box 38 W. Maple St. Ursa IL 62376 217-964-2131
Miller Preferred Donald Miller 1600 Cornhusker Hwy Lincoln NE, 68521, 402-438-1232	Mycogen Kelly Montgomery 720 St. Croix St. Prescott, WI 54021 800-321-2867	NC+, Wes Zart P.O. Box 4408 Lincoln NE, 68504 402-467-2517

Northrup King Marcus Schwartz 1060 Wheatland Buhler KS 67522 316-543-2707	Ohlde (M/W Gen) Rodney Ohlde Midwest Seed Genetics Box 63 RR 1 Palmer KS 66962 913-692-4555	Ottilie Tom Simpson 1845 W. 5th Box 914 Colby KS 67701 913-462-3709
Pfister Hybrid Corn Co. Daniel E. Pfister P.O. Box 187 El Paso IL 61738 309-527-6000	Pioneer HiBred Intl. Inc. Jim Schrib 1616 S. Kentucky St. Suite C-150 Amarillo TX 79102 806-356-0160	Renze Tim Renze Route 3, Box 235 Carroll IA 51401 712-669-3301
Stine Stine Seed Co. 2225 Laredo Trail Adel IA 50003 515-677-2289	Terra International Inc. Harold Davis Terra Centre, 600 Fourth St. P.O. Box 6000 Sioux City IA 51102-6000 712-233-3609	Triumph Seed Co. Inc. Lynn McDonald P.O. Box 1050 Ralls TX 79357 806-253-2584
Wilson Seeds Inc. Jerry F. Strissel P.O. Box 391 Harlan IA 51537 712-755-3841		

Appendix 2: Entries in the 1995 Corn Performance Tests

BRAND	NAME	GDD	DAYS	MAT	BRAND	NAME	GDD	DAYS	MAT
AGRIPRO	AP619	2560	114	M	AGRIPRO	AP565	2490	111	M
AGRIPRO	AP9707	2710	117	L	AGRIPRO	HS 9484	2460	109	E
AGRIPRO	HS 9502	2560	113	M	AGRIPRO	HS 9843	2780	118	L
AGRIPRO	HS 9848	2760	118	L	ASGROW	RX770	2570	112	M
ASGROW	RX789	2580	113	M	ASGROW	RX801	2570	114	M
ASGROW	RX843	2590	116	L	ASGROW	RX893	2600	118	L
BO-JAC	409	2390	106	E	BO-JAC	438	2590	109	E
BO-JAC	525	2625	111	M	BO-JAC	577	2690	113	M
BO-JAC	580	2680	113	M	BO-JAC	629	2750	116	L
CARGILL	6303	2730	110	E	CARGILL	6327	2730	110	E
CARGILL	7697	2780	114	M	CARGILL	7777	2790	114	M
CARGILL	7997	2820	116	L	CARGILL	8327	2850	116	L
CARGILL	X7507 EXP	2790	114	M	CASTERLINE	250 EXP	2840	117	L
CASTERLINE	CX1189	2660	111	M	CASTERLINE	9297 EXP	2730	114	M
CASTERLINE	9510 EXP	2820	117	L	CASTERLINE	9586 EXP	2720	114	M
CASTERLINE	9785 EXP	2680	112	M	CASTERLINE	CX1237	2830	117	L
CASTERLINE	CX1252	2830	117	L	CIBA	4295X	2780	111	M
CIBA	4494	2760	110	E	CIBA	4545	2810	113	M
CIBA	4575	2810	113	M	CIBA	4581	2850	116	L
CIBA	4662	2880	117	L	CIBA	6203X EXP	2860	116	L
COOP	2181	2475	111	M	COOP	2345	2630	118	L
COOP	7680	2470	111	M	COOP	7727	2500	112	M
COOP	7810	2550	115	M	COOP	7820	2560	115	M
COOP	7875	2600	117	L	DEKALB	DK580	2710	108	E
DEKALB	DK591	2750	108	E	DEKALB	DK626	2800	112	M
DEKALB	DK646	2830	114	M	DEKALB	DK652	2830	115	M
DEKALB	DK668	2870	116	L	DEKALB	DK683	2930	118	L
DEKALB	DK715	2960	121	L	DELANGE	DS 1995	2800	116	L
DELTAPINE	4450	2450	105	E	DELTAPINE	4581	2700	116	L
DELTAPINE	G-4673B	2700	116	L	FONTANELLE	5325	2400	112	M
FONTANELLE	5624	2500	114	M	FONTANELLE	6162	2550	116	L
FONTANELLE	6340	2600	117	L	GOLDEN HARVEST	H-2547	2690	113	M
GOLDEN HARVEST	H-2564	2720	115	M	GOLDEN HARVEST	H-2581	2720	115	M
GOLDEN HARVEST	H-2641	2780	117	L	HAWKEYE	7378	2660	114	M
HAWKEYE	7994	2635	113	M	HAWKEYE	SX81	2620	112	M
HAWKEYE	8981	2670	115	M	HAWKEYE	SX62	2620	111	M
HOEGEMEYER	2626	2550	111	M	HOEGEMEYER	2655	2580	113	M
HOEGEMEYER	2666	2630	115	M	HOEGEMEYER	2677	2630	115	M
HOEGEMEYER	2689	2690	116	L	HOEGEMEYER	2693	2660	116	L
HOEGEMEYER	2761	2770	117	L	ICI	8281	2660	116	L
ICI	8285	2670	118	L	ICI	8330	2610	115	M
ICI	8541	2560	108	E	ICI	8543	2570	109	E
KAYSTAR	KX - 777	2600	112	M	KAYSTAR	KX - 909	2650	115	M

Appendix 2: Entries in the 1995 Corn Performance Tests

HPH	KS 119		119	L	HPH	KS 151		116	L
HPH	KS 5091		109	E	HPH	KS 5145		114	M
HPH	KS 5149		114	M	LEWIS	4985	2540	110	E
LEWIS	5584	2570	111	M	LEWIS	6294	2670	117	L
LEWIS	8492	2720	119	L	MILLER PREF.	MP-1091	2400	109	E
MILLER PREF.	MP-1131	2450	111	M	MILLER PREF.	MP-1141	2500	113	M
MILLER PREF.	MP-1161	2550	116	L	MILLER PREF.	MP-1172	2575	116	L
MYCOGEN	6220		109	E	MYCOGEN	7050cb		112	M
MYCOGEN	7460		115	M	MYCOGEN	7885	2575	117	L
MYCOGEN	8240	2600	117	L	MYCOGEN	8460		119	L
NC+	4616	2425	110	E	NC+	5037	2475	111	M
NC+	5445	2515	111	M	NC+	5514	2500	113	M
NC+	6959	2590	117	L	NC+	7117	2590	118	L
NC+	7304	2600	118	L	NORTHRUP KING	N5866	2630	108	E
NORTHRUP KING	N6330	2690	109	E	NORTHRUP KING	N7070	2720	111	M
NORTHRUP KING	N7333	2760	112	M	NORTHRUP KING	N7590	2770	114	M
NORTHRUP KING	N7989	2790	116	L	NORTHRUP KING	N8811	2870	122	L
OHLDE (M/W GEN)	300	2625	116	L	OHLDE (M/W GEN)	309	2550	108	E
OHLDE (M/W GEN)	312	2500	111	M	OHLDE (M/W GEN)	316	2550	109	E
OHLDE (M/W GEN)	331	2600	112	M	OHLDE (M/W GEN)	340	2575	111	M
OHLDE (M/W GEN)	362	2725	118	L	OHLDE (M/W GEN)	363	2725	118	L
OHLDE (M/W GEN)	510	2720	118	L	OTTILIE	2433	2618	107	E
OTTILIE	2444	2634	109	E	OTTILIE	2446	2688	114	M
OTTILIE	2467	2600	111	M	OTTILIE	2482X	2718	115	M
OTTILIE	2562	2772	116	L	PFISTER	2650	2600	107	E
PFISTER	3965	2800	116	L	PFISTER	3976	2850	118	L
PIONEER	3162	2770	114	M	PIONEER	3223	2830	116	L
PIONEER	3225	2720	112	M	PIONEER	3279	2750	113	M
PIONEER	3346	2770	114	M	PIONEER	3375	2720	112	M
PIONEER	3394	2690	111	M	PIONEER	3489	2660	110	E
PIONEER	3563	2520	105	E	RENZE	6345	2585	115	M
RENZE	6386 EXP	2590	115	M	RENZE	6416 EXP	2630	117	L
RENZE	6425	2610	116	L	STINE	9602		107	E
STINE	9702		111	M	STINE	9703		111	M
STINE	9704		114	M	STINE	9801		116	L
TERRA	E 1205 EXP		120	L	TERRA	TR 1167	2730	116	L
TERRA	TR 1185	2710	118	L	TERRA	TR 702E	2900	120	L
TRIUMPH	1324		113	M	TRIUMPH	1452		114	M
TRIUMPH	1522		115	M	TRIUMPH	2010		120	L
WILSON	1859	2950	116	L	WILSON	1910	2950	116	L
WILSON	2330	2975	120	L	WILSON	E12015 EXP	2975	120	L
WILSON	E1843 EXP	2950	115	M	MATURITY CHECK	SHORT-C4327		105	E
MATURITY CHECK	MID-H-2530		113	M	MATURITY CHECK	F-B73 X N204		116	L
MATURITY CHECK	FB73rhmXMO17		118	L					

Hybrid characteristics provided by entrants (blank indicates information not provided):
GDD = Growing degree days to black layer

DBL = Days to Black Layer, MAT = Maturity group; E=early, M=medium, L=late.

Appendix 3, Entries in the 1995 Short-season Corn Performance Tests

Hybrid characteristics provided by entrants (blank indicates information not provided):
GDD = Growing degree days to black layer
DBL = Days to black layer
PR = Prolific
FE = Flex ear

Entries in the 1995 Short-season Corn Performance Tests

BRAND	NAME	GDD	DBL	PR	FE	BRAND	NAME	GDD	DAYS	PR	FE
ASGROW	RX623T	2450	105	N	Y	BO-JAC	135	2390	100	N	Y
BO-JAC	409	2460	106	Y	Y	BO-JAC	438	2590	108	N	Y
CARGILL	3797	2620	98	Y	Y	CARGILL	4277	2620	100	Y	Y
CIBA	4303	2550	102	Y	N	CIBA	4375	2650	104	N	N
CIBA	4393	2650	104	N	Y	CIBA	4394	2700	106	N	Y
DEKALB	DK471	2440	97	Y	Y	DEKALB	DK566	2660	106	Y	Y
DEKALB	DK569	2670	106	Y	Y	DEKALB	DK580	2710	108	Y	Y
DEKALB	DK591	2750	108	Y	Y	DELANGE	DS 1204	2600	104	Y	Y
DELTAPINE	4450	2450	105	N	Y	GOLDEN HARVEST	H-2404	2512	102	Y	N
GOLDEN HARVEST	H-2502	2598	105	N	Y	ICI	8481	2570	105	N	Y
ICI	8599	2530	105	Y	Y	MYCOGEN	5440	2350	108	N	Y
MYCOGEN	5480		107	N	Y	MYCOGEN	6220		109	N	Y
MYCOGEN	7050cb		112	N	Y	NC+	1991	2300	100	Y	Y
NC+	4616	2425	105	Y	Y	NORTHRUP KING	N4242	2510	98	N	N
NORTHRUP KING	N4640	2545	100	N	N	NORTHRUP KING	N5901	2670	105	N	Y
NORTHRUP KING	N6330	2690	109	N	Y	NORTHRUP KING	N7070	2720	111	N	Y
OHLDE (M/W GEN)	101	2475	101		Y	OHLDE (M/W GEN)	102	2500	102		Y
OHLDE (M/W GEN)	104	2550	104		Y	OTTILIE	2275	2539	103	Y	Y
PIONEER	3489	2750	109	N	Y	PIONEER	3563	2600	105	N	Y
PIONEER	3737	2470	97	N	Y	STINE	9602		107		
TERRA	E1094 EXP	2475	109	N	Y	TERRA	TR990	2325	100	N	Y
TRIUMPH	9932	2250	100			MATURITY CHECK	SHORT-C4327	2600	101	Y	Y
MATURITY CHECK	MID-H-2530		111			MATURITY CHECK	F-B73 X N204		116		
MATURITY CHECK	FB73rhmXMO17		118								

ELECTRONIC ACCESS

For those interested in accessing crop performance testing information electronically, try visiting our World Wide Web site. Most of the information contained in this publication is available for viewing or down loading. For now, the URL is http://www.ksu.edu/~kscpt. It may change in the future, but if it does, you still should be able to find it from the main KSU page.

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Excerpts from the

UNIVERSITY RESEARCH POLICY AGREEMENT WITH COOPERATING SEED COMPANIES*

Permission is hereby given to Kansas State University to test our varieties and/or hybrids designated on the attached entry forms in the manner indicated on the test announcement. I understand that all results from Kansas crop performance tests belong to the University and to the public and shall be controlled by the University so as to produce the greatest benefit to the public. It is further agreed that the name of the University shall not be used by the company in any commercial advertising either in regard to this agreement or any other related matter.

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

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