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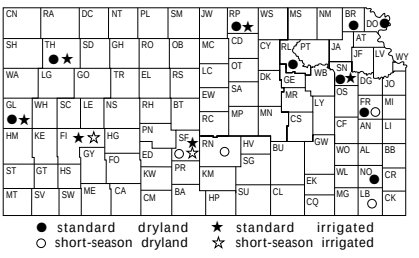
1994

KANSAS PERFORMANCE TESTS WITH

CORN HYBRIDS



Report of Progress 721
Agricultural Experiment Station • Kansas State University, Manhattan • Marc A. Johnson, Director

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TABLE OF CONTENTS

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1994 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. This minimizes competitive effects caused by maturity and emphasizes comparisons between hybrids of similar maturity. Maturity groupings were made within each replication to provide valid comparisons between hybrids within a maturity group and between hybrids in different maturity groups.

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 1994 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 1994 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 1-15 contain results from individual locations of the standard corn performance tests. A yield summary (Table 16) presents yields as a percent of the average for each maturity at each location. Tables 17-22 contain results from the short-season tests. Table 23 lists yields expressed as a percent of the test averages from the short-season tests. The 1994 entrants, entries, and some additional descriptive information are listed in the Appendix.

In most tests, corn was planted at a heavy rate and thinned to desired populations several weeks after planting. This reduced the chance that seed

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vigor and germination of particular seed lots might influence yield and increased the probability that genetic yield potential would be measured instead. Some short-season tests were planted to stand with no thinning.

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 and hybrids of all maturities were randomized within each block. 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). In tests with maturity groupings, percent of test average was calculated using the average of each group rather than the average of the entire test. Hybrids yielding more than 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, but the level of lodging and ear droppage was very low in most tests, minimizing this potential problem. Percent GREEN BREAK is reported for some tests. This is an estimate of the percent of plants broken off prior to grain filling and senescence. Most of the green break in 1994 was related to a July 1 windstorm that moved through north-central and northeast Kansas.

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

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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.

1994 STATEWIDE GROWING CONDITIONS

Favorable growing conditions over most of the state made 1994 a record-setting year. After a warm March, April's below-normal temperatures slowed initial growth. Replanting was necessary in the southeast after heavy rains in mid-April and in other areas after late-April freezes. Many other fields suffered freeze damage but were able to recover without replanting. Warm temperatures enabled rapid vegetative growth during May and June. Surface soil moisture was short over much of the state in late May and early June, but subsoil moisture was usually adequate during that time period. Cooler temperatures and timely rains in July and August facilitated good seed set, setting the stage for high yields. Harvest was underway in early September. Clear weather during most of September and October enabled farmers to harvest the crop under ideal conditions. All of the crop was out of the field by mid-November, well ahead of the 5-year average.

For most of the season, nearly 99% of the crop was rated fair or better. From late July through the end of the season, 75% or more of the crop was rated good or excellent except for one report at the end of August. (From **Crop-Weather** reports, Kansas Agricultural Statistics, Topeka.)

The usual complement of insects was found in Kansas corn fields in 1994. Wireworms caused some seedling damage in south central fields. Cutworms damaged areas within fields in eastern Kansas. European corn borers began showing up in late May in the east. This pest was often present, but typically not in damaging populations. Southwestern corn borers caused damage in many south central corn fields, but were present in relatively light populations in southwestern and western areas. Spider mite infestations reached treatment levels in the southwest in July. Treatment for this pest moved north in subsequent weeks. Western corn rootworms occasionally damaged fields in western Kansas. (Insect information from **Cooperative Economic Insect Survey Report**, Kansas State Board of Agriculture.)

Disease damage was light across most of the state this year. Some damping off was noted early in the season. The April freezes may have made these fields more susceptible to this disease. Foliar diseases such as common maize rust, viral mosaic, Stewart's wilt, northern leaf blight, and gray leafspot were present, especially in central and eastern areas, but caused little large-scale damage. Rapid maturation of the corn crop in late August further limited the potential damage from these diseases. High Plains tenui virus was found in association with wheat streak mosaic virus in mid July in a field near St. John. By late July, the disease was noted at several locations scattered across western Kansas. In mid-August, American wheat striate mosaic was found for the first time in corn in Kansas. Toward the end of the season, charcoal rot was found in some fields. Several ear rots also were noted, especially in the southeast. These included Rhizopus ear rot, Fusarium kernel rot, Cladosporium, and Penicillium ear rot. (Disease information from **Plant Disease Survey Report**, Kansas State Board of Agriculture.)

The November 9 Kansas Agricultural Statistics report predicted a record 321.0 million bushel crop, up 49 percent from 1993. This production is from 2.14 million harvested acres, up 340,000 acres from last year. The predicted average yield of 150 bushels per acre matches the record set in 1992. (From **Crops** Report November 9, Kansas Agriculture Statistics.)

ACKNOWLEDGMENTS

Cooperation of Research Center and Experiment Field personnel who furnished land and performed many or all of the field operations is sincerely appreciated. Technicians Edward O. Quigley and James R. Cochrane packaged seed and performed field operations for some of the tests. Student workers Marsha Heeb, Lisa Heighert, Shuna Hughart, Melinda Fundenberger, and Dallas Rogers helped with seed counting, sign painting, and thinning. Mary Knapp of the Extension Weather Data Library provided much of the climatological information.

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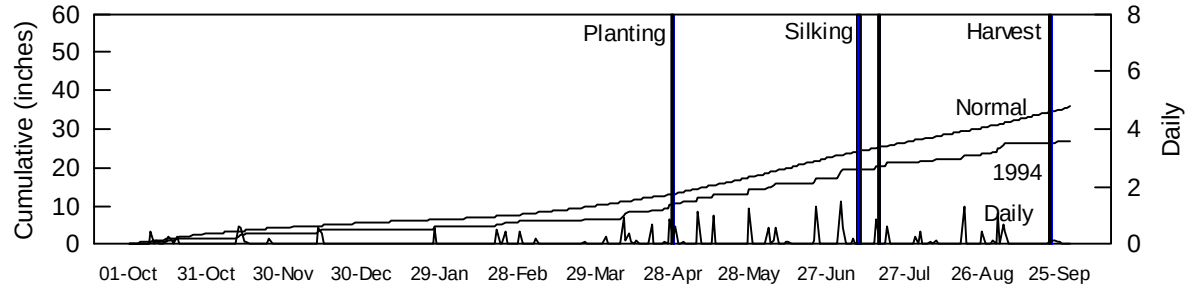
NORTHEASTERN KANSAS STANDARD CORN TEST ON SILT LOAM SOIL

LOCATION: Private farm
1 mile north of Severance in **Doniphan County**
COOPERATORS: Fuhrman Farms, Inc.
TEST SITE: Manona silt loam
Soybeans in 1993, corn in 1992
FERTILIZATION: 174 lbs N/acre preplant
28 lbs P_2O_5/acre preplant
28 lbs K_2O/acre preplant
PLANTING DATE: April 28
HARVEST DATE: September 21
PEST CONTROL: Good
Counter in furrow at planting
Atrazine/Bladex after planting, Atrazine/Buctril later
POPULATION: 23,232 plants/acre, 9 in. spacing

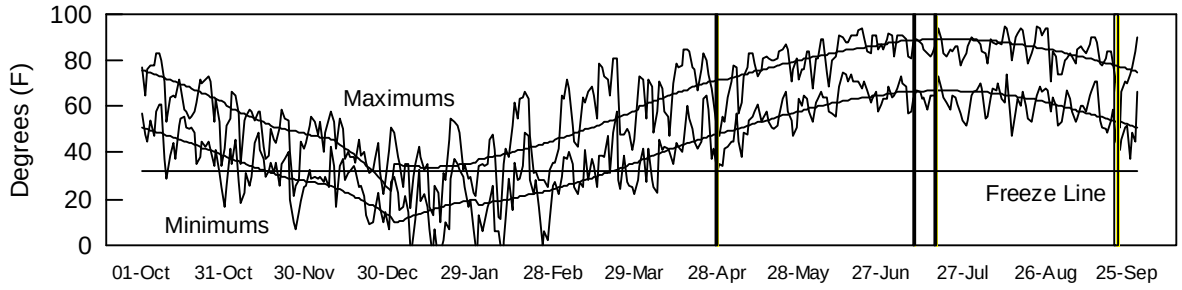
	EARLY	MEDIUM	LATE	ALL
STAND (%):	97	97	98	98
TEST YIELDS:				
Avg. (bu/a):	186	195	190	191
Range (bu/a):	201-167	227-170	215-155	227-155
L.S.D. (bu/a):	16.0	19.9	22.8	24.8
C.V. (%):	7.2	8.6	10.3	9.3
SILK DATES:	7/9-7/12	7/10-7/14	7/10-7/17	7/9-7/17

1994 GROWING CONDITIONS:
Nothing unusual happened to this test except that it avoided most of the normal adverse conditions that typically limit corn yields. Yields were very high and fairly consistent for all maturities.

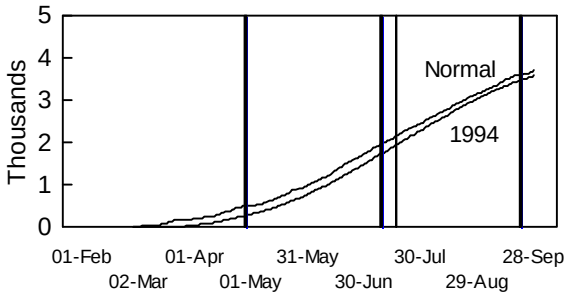
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1994	Normal	1994	Normal	1994	Normal
April	4.4	3.2	55	55	304	250
May	3.5	4.6	65	65	487	473
June	3.0	5.0	75	74	727	706
July	4.0	4.1	75	78	740	815
August	2.5	3.9	75	75	719	770
Sep.	2.8	4.8	68	68	523	510
Season Totals	20.2	25.6	69	69	3500	3524

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TABLE 1. DONIPHAN CO. STANDARD CORN PERFORMANCE TEST RESULTS, 1992-94.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-94		1994			
					2-Yr.	3-Yr.				Mois-ture	Days to	Mois-ture	Days to	Final Stnd	Test Wt.
BRAND	HYBRID	1994	1993	1992	AVG.	AVG	1994	1993	1992	%	Silk	%	Silk	%	lb/bu
EARLY HYBRIDS															
BO-JAC	438	175	--	--	--	--	94	--	--	--	--	16	73	93	58
HYPERFORMER	HY 9475	175	--	--	--	--	94	--	--	--	--	16	73	100	59
OHLDE	310	171	--	--	--	--	92	--	--	--	--	16	73	95	58
HYPERFORMER	HS 9484	167	135	249	151	184	90	98	110	16	76	16	74	99	58
--CHECK	SHORT - C4327	187	--	--	--	--	101	--	--	--	--	17	73	99	58
DEKALB	DK591	201	--	--	--	--	108	--	--	--	--	17	73	97	57
DELTAPINE	4450	173	131	--	152	--	93	95	--	16	75	17	73	95	57
HYPERFORMER	HY 9487	196	149	--	172	--	105	107	--	16	75	18	73	96	56
PIONEER	3394	200	159	214	179	191	108	115	94	16	74	18	73	96	58
LEWIS	5584	200	--	--	--	--	108	--	--	--	--	18	75	97	56
OHLDE	312	199	--	--	--	--	107	--	--	--	--	18	75	100	56
Averages		186	138	227	162	184	100	100	100	17	77	17	73	97	57
C.V.(%)		7	--	--	--	--	7	--	--	--	--	6	1	5	1
L.S.D.(.05)*		16	23	26	--	--	9	17	11	--	--	NS	1	NS	1
MEDIUM HYBRIDS															
BO-JAC	520	187	--	--	--	--	96	--	--	--	--	16	73	98	58
--CHECK	MID - H2530	174	--	--	--	--	89	--	--	--	--	16	75	99	56
GOLDEN HARVEST	H-2530	183	--	--	--	--	94	--	--	--	--	16	75	100	56
BO-JAC	577	189	145	--	167	--	97	105	--	16	78	17	74	90	56
GOLDEN HARVEST	H-2573	187	--	--	--	--	96	--	--	--	--	17	74	99	56
HAWKEYE	SX59	193	--	--	--	--	99	--	--	--	--	17	74	102	58
HOEGEMEYER	2685	186	--	--	--	--	95	--	--	--	--	17	75	91	57
OHLDE	X332 EXP	210	--	--	--	--	108	--	--	--	--	17	75	99	58
ICI	8326	178	136	--	157	--	91	99	--	17	76	18	73	95	57
OHLDE	X331 EXP	199	--	--	--	--	102	--	--	--	--	18	73	97	57
FONTANELLE	5222	190	--	--	--	--	97	--	--	--	--	18	74	103	59
MIDWEST	G 8445	170	140	--	155	--	87	101	--	17	76	18	74	94	58
OHLDE	X340 EXP	197	--	--	--	--	101	--	--	--	--	18	74	99	57
FONTANELLE	5424	204	147	--	175	--	104	107	--	16	78	18	75	99	57
CARGILL	7777	200	--	--	--	--	102	--	--	--	--	19	73	99	58
CARGILL	7877	200	162	251	181	204	102	117	111	17	76	19	74	101	56
DEKALB	DK646	217	149	238	183	201	111	108	105	17	77	19	74	95	55
DEKALB	DK652	186	--	--	--	--	95	--	--	--	--	19	74	98	55
NORTHRUP-KING	N7333	205	--	--	--	--	105	--	--	--	--	19	74	98	57
TRIUMPH	1324	195	--	--	--	--	100	--	--	--	--	19	74	99	57
HAWKEYE	8179	227	--	--	--	--	117	--	--	--	--	19	77	99	56
ASGROW	RX747	192	--	--	--	--	98	--	--	--	--	20	74	101	55
PIONEER	3162	196	142	215	169	184	100	103	95	18	76	20	74	92	58
PIONEER	3225	207	--	--	--	--	106	--	--	--	--	20	74	92	57
OHLDE	300	201	147	249	174	199	103	107	110	19	80	20	76	97	56
MYCOGEN	ORO 142	206	128	--	167	--	105	92	--	19	80	21	77	97	56
Averages		195	138	227	167	187	100	100	100	17	77	18	74	97	57
C.V.(%)		9	--	--	--	--	9	--	--	--	--	3	1	5	1
L.S.D.(.05)*		20	23	26	--	--	10	17	11	--	--	1	1	6	1

(continued)

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TABLE 1. DONIPHAN CO. STANDARD CORN PERFORMANCE TEST RESULTS, 1992-94.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-94		1994			
BRAND	HYBRID	1994	1993	1992	2-Yr. AVG.	3-Yr. AVG	1994	1993	1992	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Test Wt. lb/bu
LATE HYBRIDS															
--CHECK	FULL - NEB. 611	155	117	223	136	165	82	85	98	17	78	17	74	94	56
FONTANELLE	6162	214	162	237	188	204	113	117	105	17	76	18	74	102	57
PATRIOT	6160	205	--	--	--	--	108	--	--	--	--	18	74	98	57
CROW'S	667	182	--	--	--	--	96	--	--	--	--	19	74	99	56
OHLDE	359	178	129	217	153	175	94	93	96	19	75	20	73	99	57
PATRIOT	7160	176	--	--	--	--	93	--	--	--	--	20	73	99	57
STINE	1180	172	149	219	160	180	91	108	97	19	75	20	73	96	56
--CHECK	FULL-B73XMO17	175	107	243	141	175	92	78	107	18	77	20	74	96	55
CARGILL	7997	183	163	242	173	196	96	118	107	18	76	20	74	100	56
HYPERFORMER	HS 9773	186	149	258	167	198	98	108	114	19	78	20	75	97	56
NORTHRUP-KING	N7992	191	--	--	--	--	101	--	--	--	--	20	76	99	55
MYCOGEN	7885	172	147	--	159	--	91	106	--	18	80	20	77	98	56
STINE	1179	175	154	--	165	--	92	112	--	19	76	21	73	95	54
DELTAPINE	G-4673B	197	116	234	156	182	104	84	103	19	78	21	75	101	56
HYPERFORMER	HS 9704	211	--	222	--	--	111	--	98	--	--	21	75	99	55
ASGROW	RX897	196	162	242	179	200	104	117	107	19	79	21	76	101	54
HOEGEMEYER	2761	205	129	253	167	196	108	93	112	19	79	21	76	99	55
HYPERFORMER	HS 9843	189	136	232	162	185	100	98	102	19	79	21	76	97	54
ICI	8285	192	--	--	--	--	101	--	--	--	--	21	76	98	55
CARGILL	8327	204	135	--	169	--	108	98	--	19	80	21	77	100	54
MYCOGEN	8240	199	125	--	162	--	105	90	--	20	80	21	77	97	54
WILSON	2330	204	160	244	182	202	107	116	108	21	80	21	77	98	55
ASGROW	RX899	206	144	--	175	--	109	104	--	19	81	21	78	98	55
DELTAPINE	4581	191	131	223	161	181	101	94	98	19	81	21	78	99	56
CROW'S	668	204	--	--	--	--	108	--	--	--	--	22	76	99	53
LEWIS	8492	191	144	247	168	194	101	105	109	20	79	22	76	99	54
NC+	6959	206	--	--	--	--	109	--	--	--	--	22	76	99	54
BO-JAC	615	204	140	240	172	195	107	101	106	19	80	22	78	99	55
OHLDE	510	194	150	226	172	190	102	109	99	20	79	23	76	96	54
MIDWEST	G 8775	177	--	--	--	--	93	--	--	--	--	23	77	98	53
TRIUMPH	2010	180	149	233	164	187	95	107	103	20	80	23	77	99	53
HOEGEMEYER	2775	200	--	--	--	--	106	--	--	--	--	23	78	90	54
PATRIOT	2330	215	--	--	--	--	113	--	--	--	--	23	78	99	54
WILSON	E11961 EXP	186	165	--	176	--	98	120	--	21	81	24	78	99	52
WILSON	DEMAND 119	158	--	--	--	--	84	--	--	--	--	24	78	96	54
WILSON	DEMAND 118	158	--	--	--	--	83	--	--	--	--	25	80	97	53
Averages		190	138	227	164	185	100	100	100	19	78	21	76	98	55
C.V.(%)		10	--	--	--	--	10	--	--	--	--	5	1	4	2
L.S.D.(.05)*		23	23	26	--	--	12	17	11	--	--	2	1	NS	2
ALL HYBRIDS															
Test Averages		191	138	227	165	185	100	100	100	18	78	19	75	98	56
C.V.(%)		9	--	--	--	--	9	--	--	--	--	5	1	5	2
L.S.D.(.05)**		25	23	26	--	--	13	17	11	--	--	1	1	6	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.

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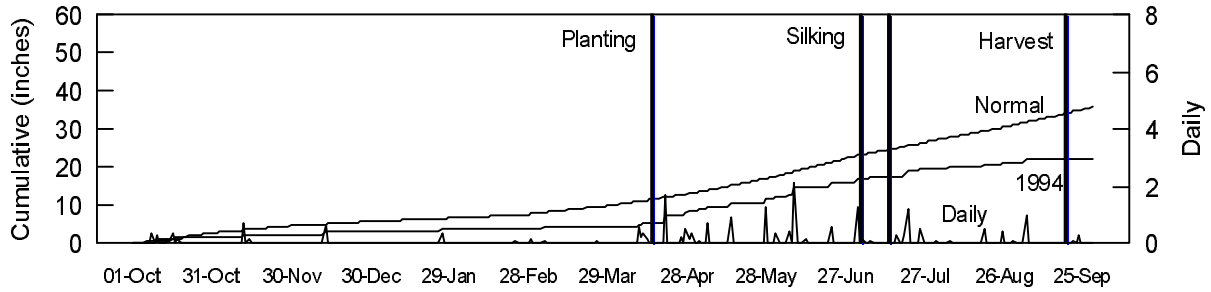
NORTHEASTERN KANSAS STANDARD CORN TEST ON SILTY CLAY LOAM SOIL

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
Corn in 1993, soybeans in 1992
FERTILIZATION: 100 lbs N/acre preplant
PLANTING DATE: April 17
HARVEST DATE: September 19
PEST CONTROL: Good
Lorsban 15G at planting
Dual and Atrazine preplant
POPULATION: 19,008 plants/acre, 11 in. spacing

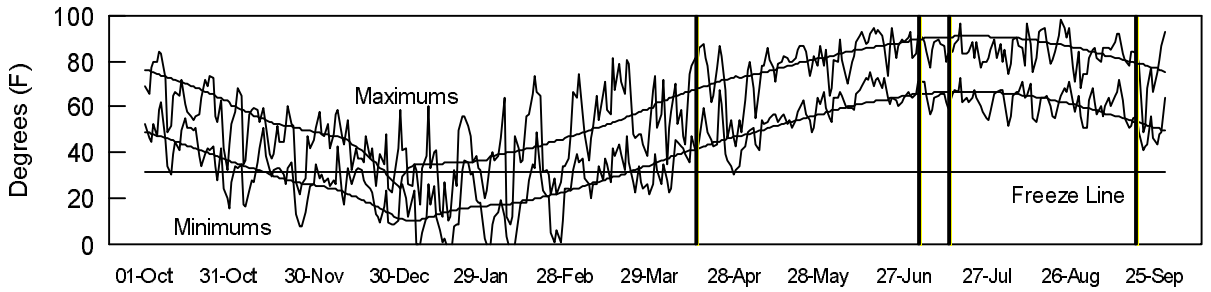
	EARLY	MEDIUM	LATE	ALL
STAND (%):	100	100	101	101
TEST YIELDS:				
Avg. (bu/a):	115	122	129	124
Range (bu/a):	107-126	111-137	114-140	107-140
L.S.D. (bu/a):	7.5	8.9	9.6	10.6
C.V. (%):	5.5	6.2	6.3	6.1
SILK DATES:	7/4-7/8	7/8-7/13	7/9-7/14	7/4-7/14

1994 GROWING CONDITIONS:
All hybrids established good stands and produced acceptable yields. Timely rainfall and a full soil profile from last year's rains prevented poor yields during a growing season characterized by several extended dry periods at this location. Disease and insect damage was minimal.

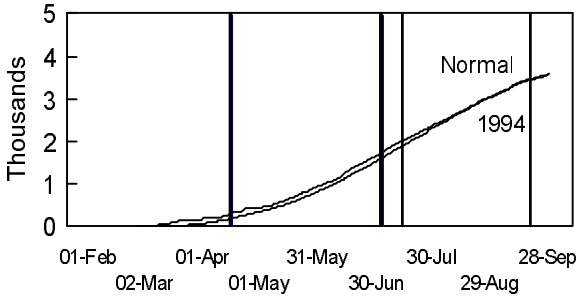
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1994	Normal	1994	Normal	1994	Normal
April	4.4	3.1	53	55	251	268
May	3.1	4.2	66	65	499	470
June	3.8	5.4	75	74	710	702
July	4.0	4.1	74	78	734	809
August	1.3	4.2	74	76	687	768
Sep.	1.4	4.5	68	68	529	508
Season Totals	18.1	25.5	68	69	3410	3524

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TABLE 2. BROWN CO. STANDARD CORN PERFORMANCE TEST RESULTS, 1992-94.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-94		1994				
BRAND	HYBRID	1994	1993	1992	2-Yr. AVG.	3-Yr. AVG	1994	1993	1992	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Test Wt. lb/bu
EARLY HYBRIDS																
PATRIOT	5093	116	--	--	--	--	101	--	--	--	--	24	80	101	0	56
ICI	8543	119	85	158	102	121	104	94	104	26	80	24	81	103	0	54
LEWIS	5584	126	--	--	--	--	110	--	--	--	--	24	81	100	0	57
--CHECK	SHORT - C4327	117	--	--	--	--	102	--	--	--	--	25	78	101	0	57
DELTAPINE	4450	116	87	--	101	--	101	95	--	27	79	25	79	100	0	57
HYPERFORMER	HY 9475	119	--	--	--	--	104	--	--	--	--	25	79	91	0	54
BO-JAC	438	112	--	--	--	--	98	--	--	--	--	25	80	100	0	54
HYPERFORMER	HY 9487	109	88	--	98	--	95	97	--	26	79	25	80	101	0.9	56
DEKALB	DK591	115	--	--	--	--	100	--	--	--	--	25	81	102	0	53
HYPERFORMER	HS 9484	111	84	--	97	--	97	92	--	26	80	25	81	102	0	54
OHLDE	104	107	--	--	--	--	93	--	--	--	--	25	81	101	0	54
BO-JAC	135	108	--	--	--	--	94	--	--	--	--	26	78	101	0	56
Averages		115	91	152	103	119	100	100	100	26	80	25	80	100	0.1	55
C.V.(%)		6	--	--	--	--	6	--	--	--	--	2	2	5	400	4
L.S.D.(.05)*		8	14	15	--	--	7	16	10	--	--	1	2	NS	0.4	NS
MEDIUM HYBRIDS																
HAWKEYE	8981	137	--	--	--	--	112	--	--	--	--	20	86	102	0	56
OHLDE	300	121	90	--	105	--	99	99	--	24	85	20	87	103	0	57
HAWKEYE	7378	136	--	--	--	--	111	--	--	--	--	21	85	102	0	57
CARGILL	7777	131	--	--	--	--	107	--	--	--	--	22	83	103	0	58
PATRIOT	6155	119	--	--	--	--	98	--	--	--	--	22	84	91	0	57
NORTHRUP-KING	N7333	123	--	--	--	--	101	--	--	--	--	22	85	98	0.5	57
CARGILL	7697	119	91	150	105	120	98	100	99	26	81	23	82	100	0	57
PIONEER	3279	124	--	--	--	--	102	--	--	--	--	23	83	103	0	57
GOLDEN HARVEST	H-2573	127	--	--	--	--	104	--	--	--	--	23	84	101	0	56
DEKALB	DK646	129	93	157	111	126	106	103	104	26	82	23	85	96	0	54
FONTANELLE	5424	120	90	--	105	--	99	99	--	27	82	23	85	98	0	55
HOEGEMEYER	2685	123	--	--	--	--	101	--	--	--	--	23	85	97	0	57
PIONEER	3346	124	83	--	103	--	102	91	--	26	80	24	82	101	0	56
ASGROW	RX747	121	--	--	--	--	99	--	--	--	--	24	83	103	0	56
CARGILL	7557	116	--	--	--	--	95	--	--	--	--	24	83	101	0	55
PIONEER	3245	116	82	156	99	118	95	90	103	27	82	24	84	102	0	58
NC+	5037	116	90	--	103	--	95	100	--	27	83	24	85	101	0	56
STINE	1118	120	--	--	--	--	98	--	--	--	--	24	85	102	0	56
FONTANELLE	4372	115	--	--	--	--	94	--	--	--	--	25	83	101	0	55
GOLDEN HARVEST	H-2530	117	97	--	107	--	96	107	--	24	81	25	84	103	0	57
--CHECK	MID - H2530	111	--	--	--	--	91	--	--	--	--	26	83	102	0	57
Averages		122	91	152	106	122	100	100	100	26	82	23	84	100	0	56
C.V.(%)		6	--	--	--	--	6	--	--	--	--	4	1	4	917	3
L.S.D.(.05)*		9	14	15	--	--	7	16	10	--	--	1	1	5	NS	NS

(continued)

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TABLE 2. BROWN CO. STANDARD CORN PERFORMANCE TEST RESULTS, 1992-94.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-94		1994				
BRAND	HYBRID	1994	1993	1992	2-Yr. AVG.	3-Yr. AVG	1994	1993	1992	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Test Wt. lb/bu
LATE HYBRIDS																
LEWIS	8492	140	107	148	124	132	109	118	97	23	84	19	86	103	0	58
NORTHRUP-KING	N7992	129	--	--	--	--	100	--	--	--	--	19	86	102	0	59
NC+	7507	128	97	--	112	--	99	107	--	23	85	19	88	99	0	56
STINE	1179	132	--	--	--	--	102	--	--	--	--	20	83	101	0	57
CARGILL	8327	138	90	--	114	--	107	99	--	24	83	20	85	99	0	55
HOEGEMEYER	2761	136	91	149	114	125	105	101	98	25	83	20	85	101	0	56
ASGROW	RX897	138	90	--	114	--	107	99	--	23	84	20	86	104	0	57
GOLDEN HARVEST	H-2641	138	93	--	115	--	107	102	--	24	84	20	86	100	0	56
HYPERFORMER	HS 9843	129	103	--	116	--	100	114	--	24	84	20	86	101	0	55
DELTAPINE	4581	127	88	147	108	121	98	98	97	24	85	20	87	100	0	57
ASGROW	RX899	129	88	--	108	--	100	97	--	24	85	20	88	105	0	57
FONTANELLE	6340	137	97	161	117	132	106	107	106	24	81	21	83	106	0	58
OHLDE	359	130	101	155	115	128	100	112	102	24	81	21	83	102	0	58
DELTAPINE	G-4673B	131	92	151	112	125	102	102	100	25	83	21	85	100	0	56
MYCOGEN	8240	129	91	--	110	--	100	100	--	23	84	21	85	103	0	56
OHLDE	510	134	100	--	117	--	104	110	--	24	82	21	85	103	0	56
MYCOGEN	7885	123	--	--	--	--	95	--	--	--	--	21	86	99	0	57
CARGILL	7997	131	98	169	114	132	101	108	111	24	82	22	83	101	0	57
HYPERFORMER	HS 9704	117	--	--	--	--	91	--	--	--	--	22	83	100	0.9	56
HOEGEMEYER	2689	125	89	157	107	124	97	98	103	26	82	22	84	102	0	58
ICI	8281	124	--	--	--	--	96	--	--	--	--	22	84	103	0	55
PATRIOT	1660	124	--	--	--	--	96	--	--	--	--	22	84	99	0	57
--CHECK	FULL-B73XMO17	120	78	165	99	121	93	86	109	26	83	22	85	101	0	58
HYPERFORMER	HS 9773	124	106	--	115	--	96	116	--	24	82	23	83	102	0	57
--CHECK	FULL - NEB. 611	114	80	162	97	119	89	89	107	27	83	23	85	100	0	57
Averages		129	91	152	110	124	100	100	100	24	83	21	85	101	0	57
C.V.(%)		6	--	--	--	--	6	--	--	--	--	5	1	4	581	3
L.S.D.(.05)*		10	14	15	--	--	7	16	10	--	--	1	1	NS	0.3	NS
ALL HYBRIDS																
Test Averages		124	91	152	108	122	100	100	100	--	--	22	83	101	0.04	56
C.V.(%)		6	--	--	--	--	--	--	--	--	--	4	1	4	585	3
L.S.D.(.05)**		11	14	15	--	--	9	16	10	--	--	1	2	NS	0.3	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.

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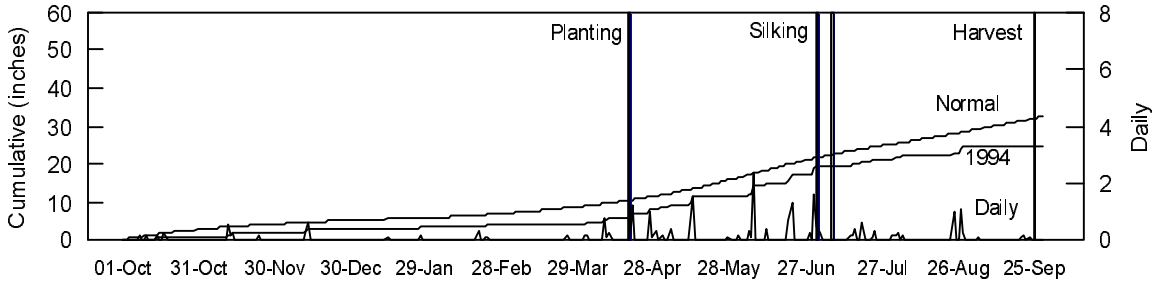
NORTHEASTERN KANSAS STANDARD CORN TEST ON SILT LOAM SOIL

LOCATION: Agronomy North Farm
Near Manhattan in **Riley County**
COOPERATORS: Kraig Roozeboom, agronomist
Clarence Swallow, superintendent
TEST SITE: Ivan silt loam
Soybeans in 1993, corn in 1992
FERTILIZATION: 100 lbs N/acre preplant
PLANTING DATE: April 19
HARVEST DATE: September 26
PEST CONTROL: Adequate
Counter in furrow at planting
Ramrod/Atrazine after planting
POPULATION: 19,008 plants/acre, 11 in. spacing

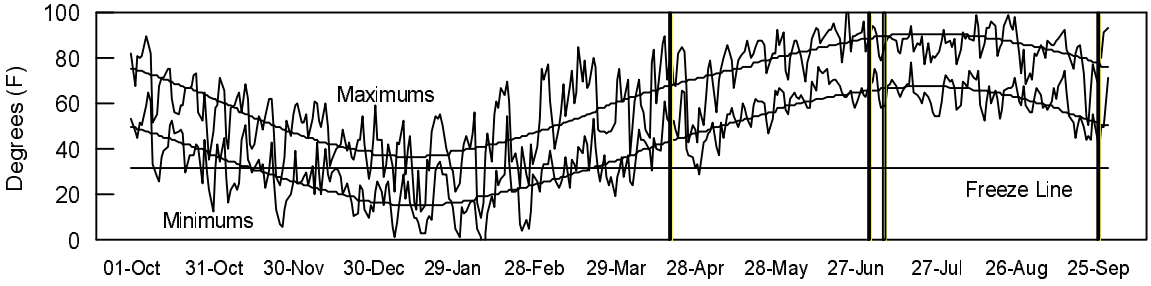
	EARLY	MEDIUM	LATE	ALL
STAND (%):	100	100	102	101
TEST YIELDS:				
Avg. (bu/a):	147	158	147	151
Range (bu/a):	129-158	126-186	117-177	117-186
L.S.D. (bu/a):	14.4	17.1	20.4	19.9
C.V. (%):	8.0	8.9	11.4	9.5
SILK DATES:	7/2-7/4	7/3-7/8	7/4-7/7	7/2-7/8

1994 GROWING CONDITIONS:
This test emerged somewhat slowly, but good stands eventually were established. Some plants broke off during the July 1 windstorm, but the lodging listed in the table occurred later in the season. Yields were quite good for dryland corn at this location.

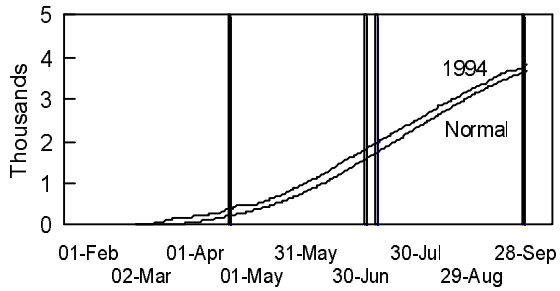
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1994	Normal	1994	Normal	1994	Normal
April	4.2	2.7	54	55	268	254
May	3.2	4.6	67	65	529	466
June	5.7	5.1	76	74	733	704
July	4.1	3.8	76	79	768	827
August	3.2	3.5	76	77	752	791
Sep.	0.4	3.6	69	69	549	543
Season Totals	20.8	23.5	70	70	3598	3584

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TABLE 3. RILEY CO. STANDARD CORN PERFORMANCE TEST RESULTS, 1992-94.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-94		1994				
BRAND	HYBRID	1994	1993	1992	2-Yr. AVG.	3-Yr. AVG	1994	1993	1992	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Test Wt. lb/bu
EARLY HYBRIDS																
BO-JAC	135	158	137	--	147	--	107	115	--	16	75	13	74	101	0.5	57
PATRIOT	5108	146	--	--	--	--	99	--	--	--	--	13	74	102	2.7	59
BO-JAC	438	157	--	--	--	--	107	--	--	--	--	13	75	101	2.2	58
OHLDE	104	132	119	--	125	--	89	100	--	18	78	13	76	102	0.9	57
STINE	1076	129	--	--	--	--	88	--	--	--	--	13	76	91	2	58
--CHECK	SHORT - C4327	151	132	161	141	148	103	111	99	17	77	14	74	100	0.9	59
DEKALB	DK591	158	132	--	145	--	107	111	--	18	79	14	76	102	1.8	58
Averages		147	119	162	133	143	100	100	100	17	77	13	75	100	1.6	58
C.V.(%)		8	--	--	--	--	8	--	--	--	--	1	1	4	172	1
L.S.D.(.05)*		14	21	18	--	--	10	18	11	--	--	NS	1	5	NS	1
MEDIUM HYBRIDS																
--CHECK	MID - H2530	163	--	--	--	--	103	--	--	--	--	14	76	102	0.5	57
GOLDEN HARVEST	H-2530	157	--	--	--	--	99	--	--	--	--	14	76	100	1	57
BO-JAC	577	162	--	--	--	--	103	--	--	--	--	14	77	100	4.4	57
CARGILL	7777	186	--	--	--	--	118	--	--	--	--	15	75	103	1.3	60
CROW'S	490	149	--	--	--	--	94	--	--	--	--	15	77	100	0.5	58
PATRIOT	5118	154	--	--	--	--	97	--	--	--	--	15	78	99	0.9	57
OHLDE	300	126	--	--	--	--	80	--	--	--	--	15	80	97	3.3	59
OHLDE	X340 EXP	168	--	--	--	--	107	--	--	--	--	16	77	101	0.9	57
Averages		158	119	162	138	146	100	100	100	18	78	15	77	100	1.6	58
C.V.(%)		9	--	--	--	--	9	--	--	--	--	2	1	3	165	1
L.S.D.(.05)*		17	21	18	--	--	11	18	11	--	--	0	1	NS	NS	1
LATE HYBRIDS																
--CHECK	FULL - NEB. 611	165	--	--	--	--	112	--	--	--	--	15	76	103	3.6	56
CROW'S	667	161	--	--	--	--	109	--	--	--	--	15	77	101	2.3	58
DELTAPINE	G-4673B	117	--	--	--	--	79	--	--	--	--	15	77	103	2.7	58
--CHECK	FULL-B73XMO17	152	123	166	138	147	103	104	103	19	81	15	78	98	1.9	57
PATRIOT	7170	141	--	--	--	--	96	--	--	--	--	15	78	100	0	58
BO-JAC	615	139	--	--	--	--	95	--	--	--	--	15	79	101	5.5	59
ICI	8281	177	--	--	--	--	120	--	--	--	--	15	79	103	0	58
OHLDE	510	124	--	--	--	--	84	--	--	--	--	16	79	103	7.5	57
Averages		147	119	162	133	143	100	100	100	18	79	15	78	102	2.9	58
C.V.(%)		11	--	--	--	--	11	--	--	--	--	2	1	2	108	2
L.S.D.(.05)*		20	21	18	--	--	14	18	11	--	--	NS	1	NS	3.9	NS
ALL HYBRIDS																
Test Averages		151	119	162	135	144	100	100	100	--	--	14	76	101	2.1	58
C.V.(%)		9	--	--	--	--	--	--	--	--	--	2	1	3	139	1
L.S.D.(.05)**		20	21	18	--	--	13	18	11	--	--	0	1	4	NS	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.

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EAST CENTRAL KANSAS STANDARD CORN TEST ON SILTY CLAY LOAM DRYLAND

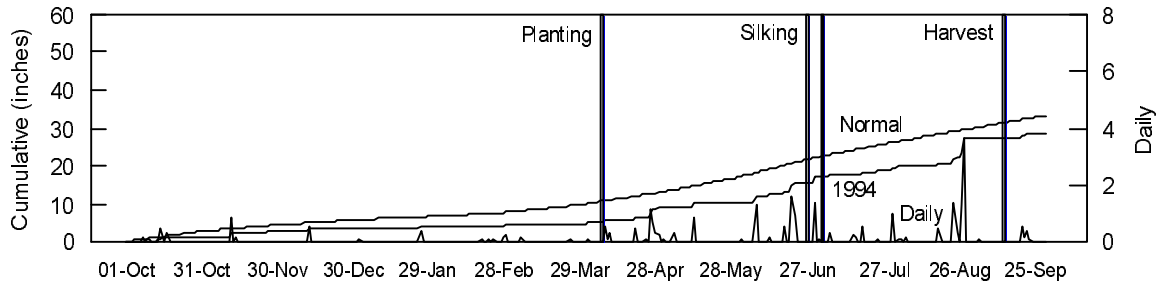
LOCATION: Foster site, private farm
5 miles north of Rossville in **Shawnee County**
COOPERATORS: Larry Maddux, agronomist
Richard Fangman and William Riley, technicians
TEST SITE: Wabash silty clay loam
Grain sorghum in 1993, soybeans in 1992
FERTILIZATION: 150 lbs N/acre preplant
PLANTING DATE: April 7
HARVEST DATE: September 13
PEST CONTROL: Good
Atrazine and Dual preplant incorporated
POPULATION:: 23,232 plants/acre, 9 in. spacing

	EARLY	MEDIUM	LATE	ALL
STAND (%):	98	97	102	98
TEST YIELDS:				
Avg. (bu/a):	NA	142	123	136
Range (bu/a):	NA	152-162	89-159	89-162
L.S.D. (bu/a):	NA	21.0	26.4	22.0
C.V. (%):	NA	12.3	13.6	11.4
SILK DATES:	6/27-6/30	6/27-7/2	6/29 -7/3	6/27-7/3

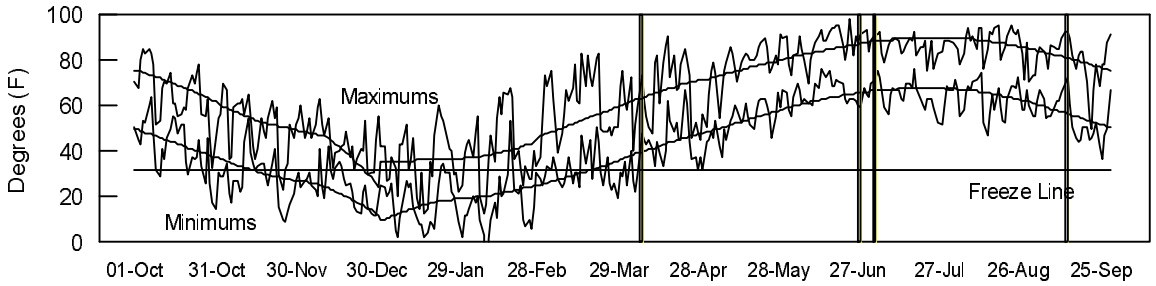
1994 GROWING CONDITIONS:

This test looked good until the July 1 windstorm. Plot yields for the early group were so variable that no yield estimates were obtained. Green break was not correlated to yield, but it did introduce additional variability and likely reduced yields. Please keep this in mind when examining the results from this test.

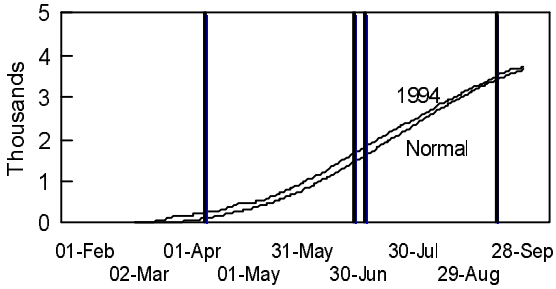
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1994	Normal	1994	Normal	1994	Normal
April	4.1	3.1	54	55	287	253
May	1.3	4.0	67	65	479	470
June	6.8	5.1	77	74	743	717
July	2.6	4.0	76	79	759	829
August	7.6	3.7	75	77	754	792
Sep.	1.3	3.3	68	68	506	527
Season Totals	23.7	23.3	69	70	3527	3588

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TABLE 4. SHAWNEE CO. DRY. STANDARD CORN PERFORMANCE TEST RESULTS, 1992-94.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-94		1994				
BRAND	HYBRID	1994	1993	1992	2-Yr. AVG.	3-Yr. AVG	1994	1993	1992	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Green Break %	Test Wt. lb/bu
EARLY HYBRIDS																
BO-JAC	135	--	--	--	--	--	--	--	--	--	--	--	81	94	29.5	--
BO-JAC	438	--	--	--	--	--	--	--	--	--	--	--	81	96	26.9	--
PATRIOT	5105	--	--	--	--	--	--	--	--	--	--	--	81	101	59.1	--
--CHECK	SHORT - C4327	--	98	189	--	--	--	104	109	9	81	--	82	105	37.6	--
OHLDE	104	--	104	--	--	--	--	110	--	12	82	--	83	96	50.9	--
DEKALB	DK591	--	122	--	--	--	--	129	--	10	82	--	84	96	23	--
Averages		--	94	174	--	--	--	100	100	--	80	--	82	98	37.8	--
C.V.(%)		--	--	--	--	--	--	--	--	--	--	--	1	7	57.4	--
L.S.D.(.05)*		--	23	26	--	--	--	24	15	1	1	--	1	NS	NS	--
MEDIUM HYBRIDS																
FONTANELLE	4372	136	--	--	--	--	96	--	--	--	--	13	81	99	52.3	57
--CHECK	MID - H2530	73	--	--	--	--	52	--	--	--	--	13	83	92	32.6	56
BO-JAC	577	152	--	--	--	--	107	--	--	--	--	14	84	98	23.8	57
DEKALB	DK626	162	--	--	--	--	114	--	--	--	--	14	84	95	11.6	57
TRIUMPH	1452	152	--	--	--	--	107	--	--	--	--	14	84	100	35	57
PATRIOT	5118	155	--	--	--	--	109	--	--	--	--	14	85	102	10.9	57
PIONEER	3346	140	--	--	--	--	98	--	--	--	--	15	83	100	36.2	58
FONTANELLE	5222	146	--	--	--	--	103	--	--	--	--	15	84	93	23.4	58
PATRIOT	5115	148	--	--	--	--	104	--	--	--	--	15	84	101	27.8	58
NORTHRUP-KING	N7333	141	--	--	--	--	99	--	--	--	--	16	83	94	34.6	58
PIONEER	3279	145	--	--	--	--	102	--	--	--	--	16	84	98	7.7	59
FONTANELLE	5424	144	--	--	--	--	101	--	--	--	--	16	86	93	18	59
CARGILL	7777	152	--	--	--	--	107	--	--	--	--	17	84	95	43.4	59
Averages		142	94	174	118	137	100	100	100	18	81	15	84	97	27.5	58
C.V.(%)		12	--	--	--	--	12	--	--	--	--	6	1	8	61.2	1
L.S.D.(.05)*		21	23	26	--	--	15	24	15	--	--	1	1	NS	20.1	1
LATE HYBRIDS																
--CHECK	FULL - NEB. 611	159	--	--	--	--	129	--	--	--	--	16	84	105	8.3	55
CARGILL	7997	127	--	--	--	--	104	--	--	--	--	17	83	104	24	58
--CHECK	FULL-B73XMO17	142	101	204	121	149	115	107	117	20	83	17	84	99	11.3	56
STINE	1181	89	--	--	--	--	72	--	--	--	--	19	86	101	24.5	57
HYPERFORMER	HS 9843	101	--	--	--	--	82	--	--	--	--	19	87	103	19.6	57
TRIUMPH	2010	121	--	--	--	--	98	--	--	--	--	20	87	102	20.8	57
Averages		123	94	174	109	131	100	100	100	19	82	18	85	102	18.1	57
C.V.(%)		16	--	--	--	--	16	--	--	--	--	6	1	7	84	1
L.S.D.(.05)*		26	23	26	--	--	22	24	15	--	--	1	1	NS	NS	1
ALL HYBRIDS																
Test Averages		136	94	174	115	135	100	100	100	--	--	15	84	98	28	57
C.V.(%)		11	--	--	--	--	--	--	--	--	--	6	1	7	64	1
L.S.D.(.05)**		22	23	26	--	--	16	24	15	--	--	1	1	NS	25	1

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

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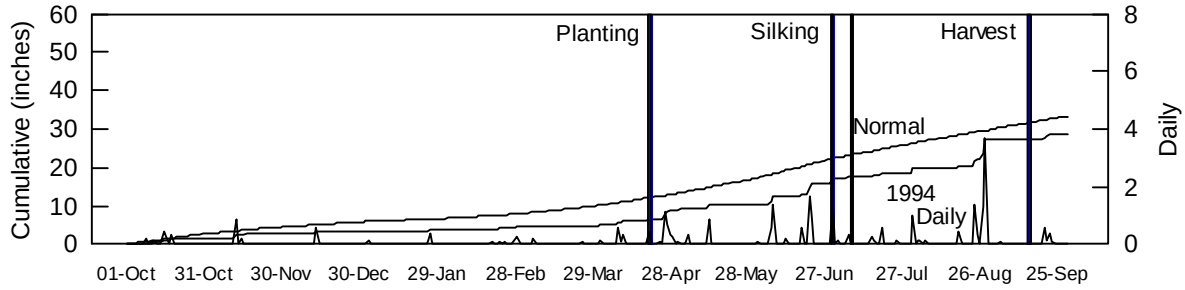
EAST CENTRAL KANSAS STANDARD CORN TEST ON SILT LOAM SOIL IRRIGATED

LOCATION: KRV Irrigation Experiment Field
Near Rossville in **Shawnee County**
COOPERATORS: Larry Maddux, agronomist
Richard Fangman and William Riley, technicians
TEST SITE: Eudora silt loam
Soybeans in 1993, corn in 1992
FERTILIZATION: 175 lbs N/acre preplant
10 Gal 10-30-0 at planting
PLANTING DATE: April 20
HARVEST DATE: September 14
PEST CONTROL: Good
Counter at planting, Lasso and Extrazine after
POPULATION: 27,878 plants/acre, 7.5 in. spacing

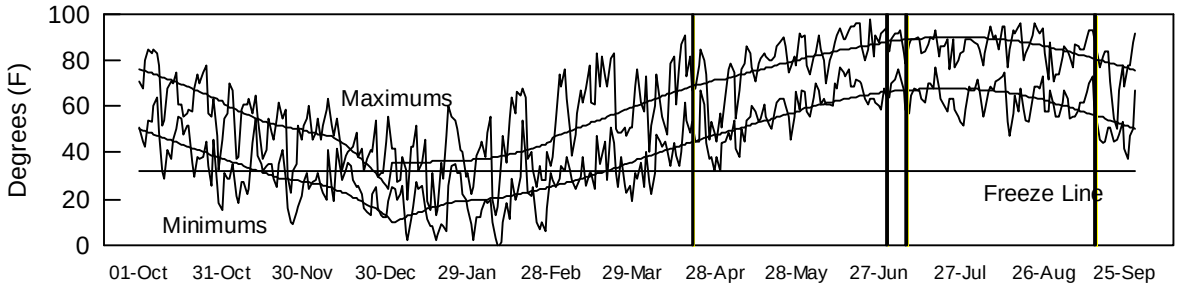
	EARLY	MEDIUM	LATE	ALL
STAND (%):	Counts not available, but appeared good			
TEST YIELDS:				
Avg. (bu/a):	113	96	59	NA
Range (bu/a):	40-166	5-166	10-174	5-174
L.S.D. (bu/a):	NS	NS	NS	NS
C.V. (%):	19.6	32.2	51	NA
SILK DATES:	6/30 -7/2	7/1-7/6	7/22-7/30	7/2-7/7

1994 GROWING CONDITIONS:
This test was off to a good start when it was severely damaged by a windstorm just prior to silking in early July. The damage was so extensive that yields were determined more by the level of breakage than by the hybrids' performance potential. For that reason, no yield data for 1994 are presented in the table.

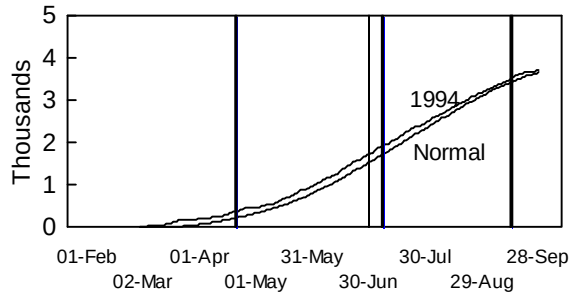
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1994	Normal	1994	Normal	1994	Normal
April	4.1	3.1	54	55	287	253
May	1.3	4.0	67	65	479	470
June	6.8	5.1	77	74	743	717
July	2.6	4.0	76	79	759	829
August	7.6	3.7	75	77	754	792
Sep.	1.3	3.3	68	68	506	527
Season Totals	23.7	23.3	69	70	3527	3588

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TABLE 5. SHAWNEE CO. IRR. STANDARD CORN PERFORMANCE TEST RESULTS, 1992-94.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-94		1994				
BRAND	HYBRID	1994	1993	1992	2-Yr. AVG.	3-Yr. AVG	1994	1993	1992	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Green Break %	Test Wt. lb/bu
EARLY HYBRIDS																
BO-JAC	135	--	--	--	--	--	--	--	--	--	--	15	71	--	4.8	58
--CHECK	SHORT - C4327	--	--	--	--	--	--	--	--	--	--	16	71	--	10.7	58
BO-JAC	386	--	127	--	--	--	--	82	--	16	74	16	72	--	24.1	58
OHLDE	104	--	--	--	--	--	--	--	--	--	--	16	73	--	72.9	57
PIONEER	3489	--	--	--	--	--	--	--	--	--	--	17	72	--	26.2	59
BO-JAC	438	--	--	--	--	--	--	--	--	--	--	17	73	--	21.5	58
HYPERFORMER	HY 9487	--	138	--	--	--	--	89	--	17	76	18	73	--	79.8	57
Averages		--	154	211	--	--	--	100	100	18	76	17	72	--	34.3	58
C.V.(%)		--	--	--	--	--	--	--	--	--	--	6	2	--	36.1	2
L.S.D.(.05)*		--	19	19	--	--	--	12	9	--	--	1	NS	--	15.2	NS
MEDIUM HYBRIDS																
GOLDEN HARVEST	H-2530	--	147	--	--	--	--	95	--	16	75	16	73	--	67.6	57
--CHECK	MID - H2530	--	--	--	--	--	--	--	--	--	--	17	74	--	72.1	56
ASGROW	RX770	--	--	--	--	--	--	--	--	--	--	18	72	--	12.8	57
PATRIOT	6147	--	--	--	--	--	--	--	--	--	--	19	72	--	22.6	58
HOEGEMEYER	2685	--	--	--	--	--	--	--	--	--	--	19	75	--	82.8	57
CARGILL	7697	--	156	211	--	--	--	101	100	19	75	20	72	--	58.4	59
PATRIOT	6140A	--	--	--	--	--	--	--	--	--	--	20	72	--	73.8	60
NORTHRUP-KING	N7590	--	--	--	--	--	--	--	--	--	--	20	73	--	19.4	57
CARGILL	7777	--	--	--	--	--	--	--	--	--	--	20	74	--	53.6	59
GOLDEN HARVEST	H-2573	--	--	--	--	--	--	--	--	--	--	20	74	--	25.3	57
NORTHRUP-KING	N7333	--	--	--	--	--	--	--	--	--	--	20	74	--	29.5	58
CARGILL	7557	--	--	--	--	--	--	--	--	--	--	20	75	--	91.4	55
OHLDE	X332 EXP	--	--	--	--	--	--	--	--	--	--	20	75	--	31.9	59
OHLDE	X340 EXP	--	--	--	--	--	--	--	--	--	--	20	75	--	40.8	57
HYPERFORMER	HY 9610	--	156	--	--	--	--	101	--	19	79	20	76	--	97	55
KAYSTAR	KX - 909	--	--	--	--	--	--	--	--	--	--	21	75	--	12.5	57
OHLDE	X331 EXP	--	--	--	--	--	--	--	--	--	--	21	75	--	55.7	58
DEKALB	DK652	--	--	--	--	--	--	--	--	--	--	21	76	--	31.6	56
HYPERFORMER	HS 9502	--	140	223	--	--	--	91	106	19	78	21	76	--	36.9	56
BO-JAC	602	--	--	--	--	--	--	--	--	--	--	22	74	--	44.1	58
PIONEER	3225	--	--	--	--	--	--	--	--	--	--	22	74	--	15.2	58
OHLDE	X1598 EXP	--	160	--	--	--	--	104	--	21	79	22	76	--	59.5	58
ASGROW	RX801	--	--	--	--	--	--	--	--	--	--	22	77	--	65.8	57
PIONEER	3162	--	157	228	--	--	--	101	108	21	76	23	74	--	38.4	57
MYCOGEN	ORO 142	--	145	--	--	--	--	94	--	21	80	23	77	--	67.5	57
OHLDE	300	--	147	213	--	--	--	95	101	23	79	25	77	--	83.9	58
Averages		--	154	211	--	--	--	100	100	20	77	21	74	--	49.6	57
C.V.(%)		--	--	--	--	--	--	--	--	--	--	5	2	--	30.6	2
L.S.D.(.05)*		--	19	19	--	--	--	12	9	--	--	1	2	--	17.9	1

(continued)

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TABLE 5. SHAWNEE CO. IRR. STANDARD CORN PERFORMANCE TEST RESULTS, 1992-94.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-94		1994				
BRAND	HYBRID	1994	1993	1992	2-Yr. AVG.	3-Yr. AVG	1994	1993	1992	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Green Break %	Test Wt. lb/bu
LATE HYBRIDS																
DELTAPINE	4662	--	--	--	--	--	--	--	--	--	--	19	77	--	92.6	55
HYPERFORMER	HS 9843	--	164	216	--	--	--	106	102	20	80	19	78	--	93.1	55
--CHECK	FULL - NEB. 611	--	148	192	--	--	--	96	91	19	77	20	76	--	12.5	55
ICI	8281	--	--	--	--	--	--	--	--	--	--	20	76	--	35.4	57
MYCOGEN	8240	--	145	--	--	--	--	94	--	20	79	20	76	--	94.1	55
STINE	1161	--	--	--	--	--	--	--	--	--	--	20	76	--	92	55
ASGROW	RX899	--	161	210	--	--	--	104	100	20	80	20	77	--	75	56
ICI	8285	--	--	--	--	--	--	--	--	--	--	20	77	--	92	56
MYCOGEN	7885	--	158	--	--	--	--	102	--	20	80	20	77	--	78	58
DELTAPINE	G-4673B	--	162	209	--	--	--	105	99	21	79	21	76	--	85.1	56
CARGILL	8327	--	175	--	--	--	--	113	--	20	79	21	77	--	89.9	55
HOEGEMEYER	2761	--	172	216	--	--	--	111	103	20	79	21	77	--	80.1	55
HYPERFORMER	HS 9822	--	155	--	--	--	--	100	--	20	80	21	77	--	84.2	56
LEWIS	8492	--	164	--	--	--	--	106	--	20	80	21	78	--	92.3	55
CARGILL	7997	--	155	213	--	--	--	100	101	20	75	22	73	--	72.9	58
GOLDEN HARVEST	H-2641	--	--	--	--	--	--	--	--	--	--	22	75	--	80.7	57
--CHECK	FULL-B73XMO17	--	154	195	--	--	--	99	92	20	78	22	76	--	34.8	55
DELTAPINE	4581	--	155	212	--	--	--	101	100	22	79	23	76	--	74.1	58
HOEGEMEYER	2689	--	173	232	--	--	--	112	110	21	78	23	77	--	36.6	57
HYPERFORMER	HS 9848	--	155	--	--	--	--	100	--	22	79	23	77	--	81.9	58
OHLDE	510	--	176	226	--	--	--	114	107	21	79	23	77	--	78.3	56
OHLDE	373	--	153	--	--	--	--	99	--	21	81	23	78	--	62.8	57
DEKALB	DK715	--	151	--	--	--	--	98	--	22	77	24	75	--	39.6	55
PATRIOT	2330	--	--	--	--	--	--	--	--	--	--	26	77	--	15.8	55
Averages		--	154	211	--	--	--	100	100	20	78	21	76	--	69.7	56
C.V.(%)		--	--	--	--	--	--	--	--	--	--	6	2	--	21.8	2
L.S.D.(.05)*		--	19	19	--	--	--	12	9	--	--	2	2	--	17.9	1
ALL HYBRIDS																
Test Averages		--	154	211	--	--	--	100	100	--	--	20	75	--	56	57
C.V.(%)		--	--	--	--	--	--	--	--	--	--	4	2	--	27	2
L.S.D.(.05)**		--	19	19	--	--	--	12	9	--	--	1	2	--	21	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.

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EAST CENTRAL KANSAS STANDARD CORN TEST DRYLAND

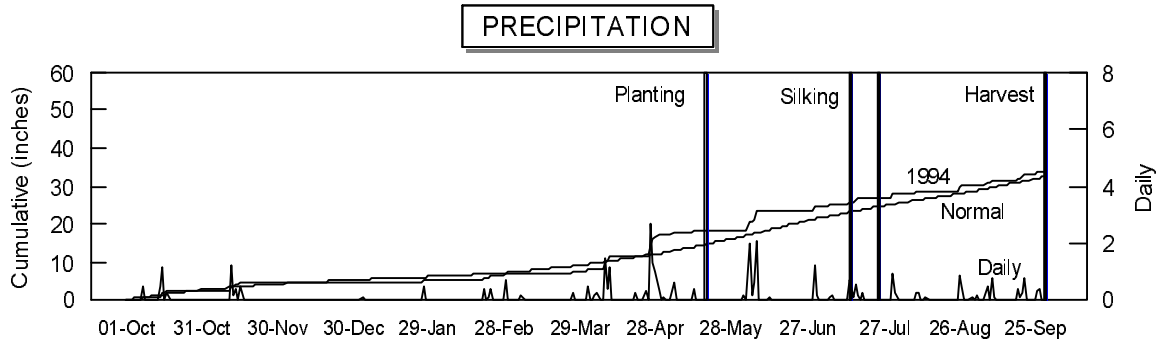
LOCATION: East Central Kansas Experiment Field
South of Ottawa in **Franklin County**
COOPERATORS: Keith Janssen, agronomist
Edwin Horstick, technician
TEST SITE: Woodson silt loam
Soybeans in 1993, corn in 1992
FERTILIZATION: 102 lbs N/acre preplant
48 lbs P_2O_5/acre preplant
24 lbs K_2O/acre preplant
PLANTING DATE: May 18
HARVEST DATE: October 27
PEST CONTROL: Adequate
Bicep at planting

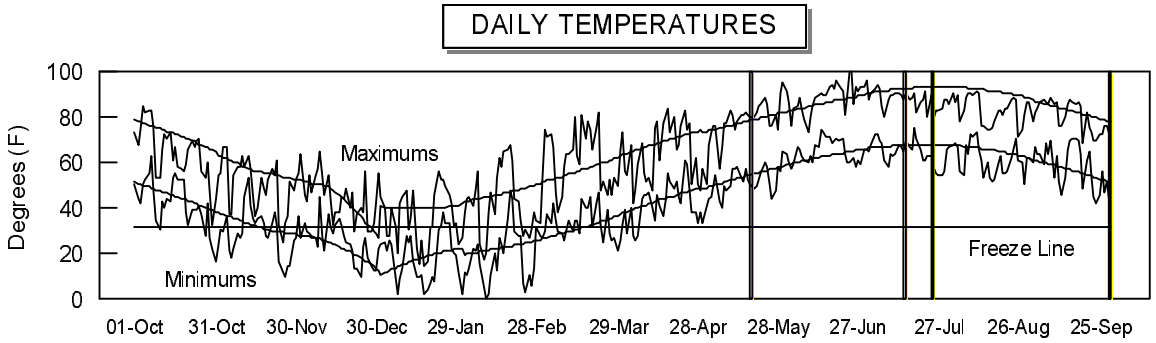
POPULATION: 18,182 plants/acre, 11.5 in. spacing

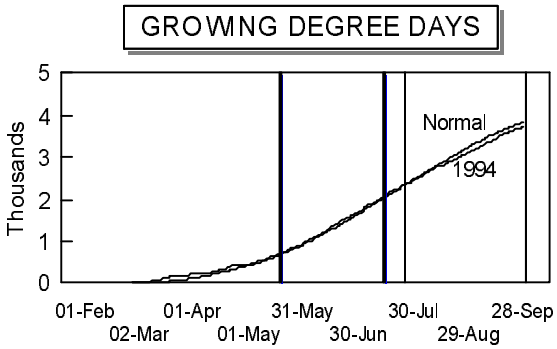
	EARLY	MEDIUM	LATE	ALL
STAND (%):	97	94	97	96
TEST YIELDS:				
Avg. (bu/a):	131	138	133	135
Range (bu/a):	111-147	128-151	116-151	111-151
L.S.D. (bu/a):	18.4	12.3	11.9	14.5
C.V. (%):	10.2	7.5	7.6	7.7
SILK DATES:	7/15-7/17	7/14-7/22	7/17-7/25	7/14-7/25

1994 GROWING CONDITIONS:

April rains delayed planting of this test by nearly a month. Growing conditions were favorable for most of the season with no visual evidence of moisture stress. Severe winds in early June caused many plants to lean severely, but most of these plants recovered with little permanent damage. The medium group had the highest yields, but differences between hybrids within this group were not significant according to statistical tests.







GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1994	Normal	1994	Normal	1994	Normal
April	9.7	2.9	53	57	239	293
May	1.2	4.2	66	66	494	506
June	6.3	4.9	77	75	744	729
July	3.2	3.9	76	80	769	832
August	2.3	3.2	73	79	679	798
Sep.	3.9	3.9	70	70	580	573
Season Totals	26.6	23.2	69	71	3505	3732

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TABLE 6. FRANKLIN CO. STANDARD CORN PERFORMANCE TEST RESULTS, 1992-94.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-94		1994				
BRAND	HYBRID	1994	1993	1992	2-Yr. AVG.	3-Yr. AVG	1994	1993	1992	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Test Wt. lb/bu
EARLY HYBRIDS																
--CHECK	SHORT - C4327	111	--	--	--	--	85	--	--	--	--	15	58	91	0.7	59
DEKALB	DK591	135	--	--	--	--	103	--	--	--	--	15	59	103	0	58
PIONEER	3394	147	121	--	134	--	112	112	--	15	69	15	60	97	0	58
Averages		131	108	182	120	140	100	100	100	16	70	15	59	97	0.2	58
C.V.(%)		10	--	--	--	--	10	--	--	--	--	1	1	9	346	1
L.S.D.(.05)*		18	20	15	--	--	14	19	8	--	--	NS	1	NS	NS	NS
MEDIUM HYBRIDS																
CARGILL	7697	128	103	192	115	141	93	95	106	16	68	15	58	98	0	60
--CHECK	MID - H2530	134	--	--	--	--	97	--	--	--	--	15	59	90	0	57
BO-JAC	520	135	--	--	--	--	98	--	--	--	--	15	59	91	0	58
CARGILL	6327	133	--	--	--	--	96	--	--	--	--	15	59	93	0	58
BO-JAC	577	141	--	--	--	--	102	--	--	--	--	15	62	90	0	57
OHLDE	X340 EXP	144	--	--	--	--	104	--	--	--	--	15	62	92	0	58
HOEGEMEYER	2676	146	--	--	--	--	106	--	--	--	--	16	57	97	0	58
TRIUMPH	1324	139	--	--	--	--	100	--	--	--	--	16	57	96	0	59
NORTHRUP-KING	N7333	142	--	--	--	--	103	--	--	--	--	16	58	98	0	59
ASGROW	RX747	138	--	--	--	--	100	--	--	--	--	16	59	95	0	58
NORTHRUP-KING	N6822	143	--	--	--	--	103	--	--	--	--	16	59	98	0	60
PIONEER	3346	130	103	--	116	--	94	95	--	16	69	16	59	85	0	59
CARGILL	7777	139	--	--	--	--	101	--	--	--	--	16	60	95	0	60
DEKALB	DK646	149	116	200	132	155	108	107	110	16	70	16	60	93	0	58
OHLDE	X331 EXP	151	--	--	--	--	110	--	--	--	--	16	60	100	0	59
PIONEER	3279	141	--	--	--	--	102	--	--	--	--	16	60	96	0	59
OHLDE	X332 EXP	131	--	--	--	--	95	--	--	--	--	16	61	97	0	60
STINE	1154	131	128	--	130	--	95	119	--	16	70	16	61	91	0	59
BO-JAC	602	137	--	--	--	--	99	--	--	--	--	17	60	95	0	59
DELANGE	DS 1995	135	110	--	123	--	98	102	--	18	73	17	64	94	0.6	58
OHLDE	300	132	112	185	122	143	96	104	102	17	74	17	65	93	0	58
Averages		138	108	182	123	143	100	100	100	17	70	16	60	94	0	59
C.V.(%)		8	--	--	--	--	8	--	--	--	--	2	2	10	917	1
L.S.D.(.05)*		NS	20	15	--	--	NS	19	8	--	--	1	2	NS	NS	1

(continued)

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TABLE 6. FRANKLIN CO. STANDARD CORN PERFORMANCE TEST RESULTS, 1992-94.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-94		1994				
BRAND	HYBRID	1994	1993	1992	2-Yr. AVG.	3-Yr. AVG	1994	1993	1992	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Test Wt. lb/bu
LATE HYBRIDS																
FONTANELLE	6162	151	111	183	131	149	114	103	101	16	70	16	60	99	0	58
NC+	6414	129	111	192	120	144	97	103	106	17	70	16	61	97	0	59
ICI	8281	135	--	--	--	--	101	--	--	--	--	16	62	97	0	59
MYCOGEN	7885	133	--	--	--	--	100	--	--	--	--	16	65	97	0	58
--CHECK	FULL - NEB. 611	135	114	186	124	145	101	106	103	17	71	17	60	96	0	56
CARGILL	7997	134	107	193	120	145	100	98	106	17	69	17	60	100	0	60
DELTAPINE	G-4673B	146	94	191	120	144	110	87	105	18	70	17	61	96	0	58
STINE	1220	128	110	--	119	--	96	102	--	18	71	17	61	92	0	59
--CHECK	FULL-B73XMO17	139	104	174	122	139	104	96	96	17	71	17	62	101	0	57
ASGROW	RX897	137	118	180	128	145	103	109	99	18	73	17	63	97	0	58
OHLDE	510	121	105	179	113	135	91	97	99	17	72	17	63	96	0.5	58
TRIUMPH	2010	125	--	--	--	--	94	--	--	--	--	17	63	98	0	58
CARGILL	8327	125	97	--	111	--	94	89	--	18	73	17	64	95	0	59
DELTAPINE	4581	128	120	186	124	145	96	111	102	17	73	17	64	96	0	58
HOEGEMEYER	2775	136	--	--	--	--	102	--	--	--	--	17	64	90	1.1	58
HOEGEMEYER	2761	136	106	192	121	145	102	98	106	17	73	17	64	104	0	58
MYCOGEN	8240	139	--	--	--	--	104	--	--	--	--	17	64	100	0	58
ASGROW	RX899	136	--	175	--	--	102	--	97	--	--	17	65	101	0	59
BO-JAC	615	125	--	--	--	--	94	--	--	--	--	17	65	92	0	58
NC+	7117	131	110	--	120	--	98	102	--	17	74	17	66	92	0	58
NORTHRUP-KING	N7989	128	114	--	121	--	96	106	--	17	74	17	66	95	0	58
DEKALB	DK671	141	112	198	127	150	106	104	109	17	70	18	60	98	0.5	56
NORTHRUP-KING	N8811	143	121	208	132	157	108	112	115	19	72	18	62	96	0	58
ICI	8315	117	130	184	123	144	88	120	101	18	76	18	68	99	0.5	58
Averages		133	108	182	121	141	100	100	100	17	72	17	63	97	0.1	58
C.V.(%)		8	--	--	--	--	8	--	--	--	--	2	1	5	412	1
L.S.D.(.05)*		12	20	15	--	--	9	19	8	--	--	1	1	NS	NS	1
ALL HYBRIDS																
Test Averages		135	108	182	122	142	100	100	100	--	--	16	61	96	0.1	58
C.V.(%)		8	--	--	--	--	8	--	--	--	--	2	2	8	494	1
L.S.D.(.05)**		14	20	15	--	--	10	19	8	--	--	1	2	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.

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SOUTHEASTERN KANSAS STANDARD CORN TEST

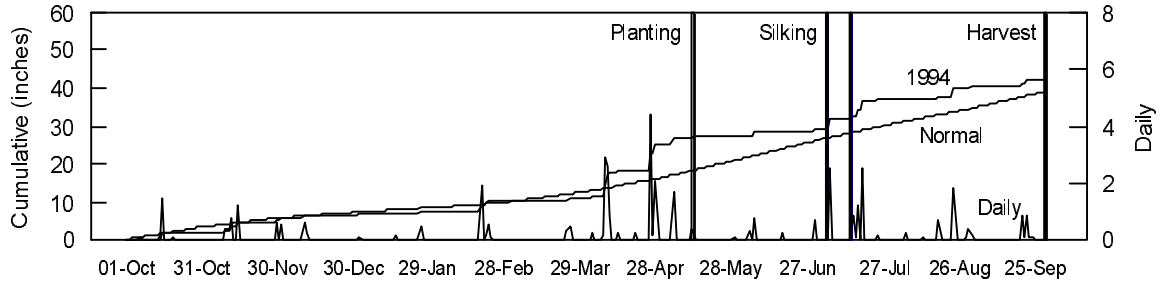
LOCATION: Private farm
South of Erie in **Neosho County**
COOPERATORS: James Long, SE Agric. Research Center, L.W. Lomas, head
TEST SITE: Osage clay loam
Corn in 1993, soybeans in 1992
FERTILIZATION: 175 lbs N/acre preplant
25 lbs P_2O_5/acre preplant
25 lbs K_2O/acre preplant
PLANTING DATE: May 13
HARVEST DATE: September 10
PEST CONTROL: Good
Counter, Bicep, and Dual at planting
POPULATION: 24,000 plants/acre, 8.7 in. spacing

	EARLY	MEDIUM	LATE	ALL
STAND (%):	98	103	102	102
TEST YIELDS:				
Avg. (bu/a):	164	179	193	185
Range (bu/a):	107-207	140-219	164-215	107-219
L.S.D. (bu/a):	16.2	14.4	12.3	15.4
C.V. (%):	7.4	6.7	5.4	6.0
SILK DATES:	7/5-7/7	7/6-7/13	7/8-7/14	7/5-7/14

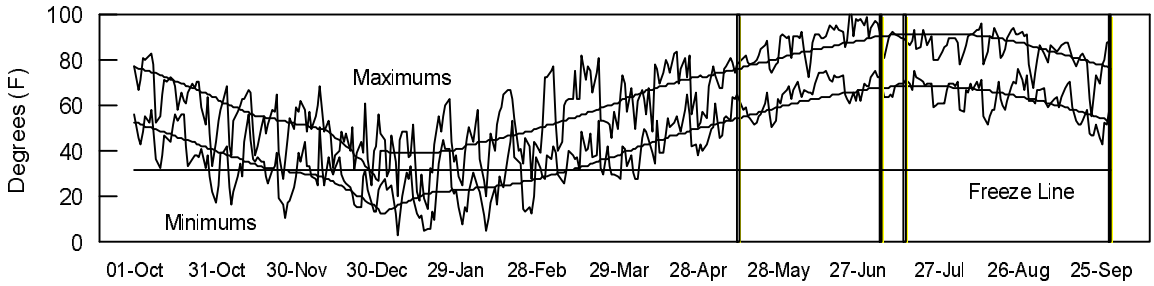
1994 GROWING CONDITIONS:

This test was planted originally on April 4, but 9 inches of rain on April 11 caused flooding of the test site. After replanting, conditions were favorable for outstanding corn yields. Two early hybrids were damaged severely by raccoons. Several other hybrids suffered only occasional damage. Undamaged portions of the affected plots were harvested to provide yield estimates that reflected hybrid performance rather than raccoon preference. Leaf rust was noted late in the season but probably reduced yields very little.

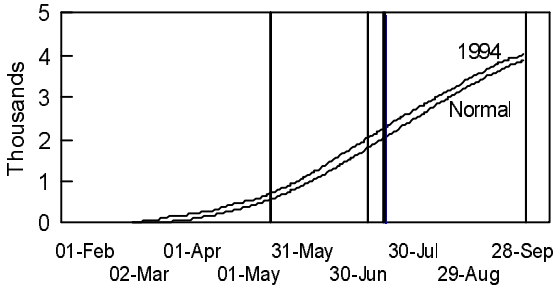
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1994	Normal	1994	Normal	1994	Normal
April	14.0	3.6	56	57	293	283
May	2.3	4.9	68	67	544	512
June	2.0	4.9	80	75	804	740
July	7.5	4.5	79	80	829	846
August	3.5	4.0	77	78	769	810
Sep.	2.0	4.4	69	70	557	581
Season Totals	31.3	26.3	71	71	3795	3771

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TABLE 7. NEOSHO CO. STANDARD CORN PERFORMANCE TEST RESULTS, 1992-94.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-94		1994				
					2-Yr.	3-Yr.				Mois-ture	Days to	Mois-ture	Days to	Final Stnd	Lod-ging	Test Wt.
BRAND	HYBRID	1994	1993	1992	AVG.	AVG	1994	1993	1992	%	Silk	%	Silk	%	%	lb/bu
EARLY HYBRIDS																
ASGROW	RX623	152	--	--	--	--	93	--	--	--	--	14	53	97	0	57
--CHECK	SHORT - C4327	107	--	--	--	--	65	--	--	--	--	14	54	93	0.4	57
PIONEER	3489	191	--	--	--	--	116	--	--	--	--	14	54	100	0.4	58
PIONEER	3394	207	--	--	--	--	126	--	--	--	--	15	55	101	1.5	58
Averages		164	111	159	137	145	100	100	100	16	64	14	54	98	0.6	57
C.V.(%)		7	--	--	--	--	7	--	--	--	--	1	2	4	252	2
L.S.D.(.05)*		16	18	20	--	--	10	17	13	--	--	0	NS	NS	NS	NS
MEDIUM HYBRIDS																
--CHECK	MID - H2530	167	--	--	--	--	93	--	--	--	--	14	54	99	0.7	55
CARGILL	6327	140	--	--	--	--	78	--	--	--	--	14	54	107	0	57
CARGILL	7777	170	--	--	--	--	95	--	--	--	--	14	55	109	0.4	57
GOLDEN HARVEST	H-2530	180	--	--	--	--	100	--	--	--	--	14	55	101	0	56
ASGROW	RX747	167	109	--	138	--	93	98	--	17	63	15	54	103	0	57
CARGILL	7697	158	125	149	141	144	88	113	94	16	63	15	55	103	0.4	59
NORTHRUP-KING	N6822	181	--	--	--	--	101	--	--	--	--	15	55	102	2.9	59
NORTHRUP-KING	N7333	174	--	--	--	--	97	--	--	--	--	15	56	99	0	57
GOLDEN HARVEST	H-2573	177	--	--	--	--	99	--	--	--	--	15	57	104	0.4	57
TRIUMPH	1452	192	113	--	152	--	107	102	--	15	65	15	57	102	0.4	57
TERRA	TR 641	188	106	168	147	154	105	96	105	18	64	16	55	104	0	58
ASGROW	RX801	196	--	--	--	--	109	--	--	--	--	16	60	102	0	59
DELANGE	DS 1995	219	117	--	168	--	122	105	--	17	68	16	61	102	0	58
OHLDE	300	202	--	160	--	--	112	--	101	--	--	17	61	104	0	57
Averages		179	111	159	145	150	100	100	100	17	65	15	56	103	0.4	57
C.V.(%)		7	--	--	--	--	7	--	--	--	--	1	2	5	253	1
L.S.D.(.05)*		14	18	20	--	--	8	17	13	--	--	0	1	NS	1.1	1
LATE HYBRIDS																
CARGILL	7997	164	132	170	148	155	85	119	107	16	64	15	56	103	0.8	58
ICI	8281	188	--	--	--	--	97	--	--	--	--	15	58	101	0	57
STINE	1161	196	--	--	--	--	101	--	--	--	--	15	59	103	0	59
--CHECK	FULL - NEB. 611	170	108	157	139	145	88	97	98	16	65	16	57	102	0.7	56
DELTAPINE	G-4673B	191	120	172	155	161	99	108	108	16	65	16	57	100	0	57
STINE	1220	178	--	--	--	--	92	--	--	--	--	16	57	101	0	58
ICI	8285	205	110	--	158	--	106	99	--	18	67	16	58	102	0	57
--CHECK	FULL-B73XMO17	165	109	144	137	140	85	99	91	17	67	16	59	100	0	55
CARGILL	8327	203	118	--	161	--	105	106	--	18	67	16	59	106	0	58
HYPERFORMER	HS 9843	195	--	--	--	--	101	--	--	--	--	16	59	97	0	57
OHLDE	510	202	--	164	--	--	105	--	103	--	--	16	59	103	0	57
TERRA	TR 1167	215	117	169	166	167	111	105	106	18	67	16	59	104	0	57
TRIUMPH	2010	192	--	--	--	--	99	--	--	--	--	16	59	99	0	57
MYCOGEN	7885	211	--	--	--	--	109	--	--	--	--	16	60	103	0.7	57
DELTAPINE	4581	194	115	159	154	156	100	104	100	17	69	16	61	106	0	57
TERRA	E1168 EXP	196	94	--	145	--	102	84	--	18	69	16	61	105	0	57
MYCOGEN	8240	198	116	--	157	--	103	104	--	18	68	17	59	102	0.7	58
TERRA	TR 1185	204	103	--	154	--	106	93	--	19	67	17	59	104	0	58
TERRA	TR 702E	204	127	--	165	--	106	114	--	20	68	17	61	101	0	57
NC+	7304	194	122	--	158	--	101	110	--	17	69	17	62	108	0	57
Averages		193	111	159	152	155	100	100	100	17	67	16	59	102	0.1	57
C.V.(%)		5	--	--	--	--	5	--	--	--	--	2	1	6	366	1
L.S.D.(.05)*		12	18	20	--	--	6	17	13	--	--	1	1	NS	NS	1
ALL HYBRIDS																
Test Averages		185	111	159	148	152	100	100	100	--	--	15	57	102	0.3	57
C.V.(%)		6	--	--	--	--	--	--	--	--	--	1	2	5	286	1
L.S.D.(.05)**		15	18	20	--	--	8	17	13	--	--	0	1	NS	1	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.

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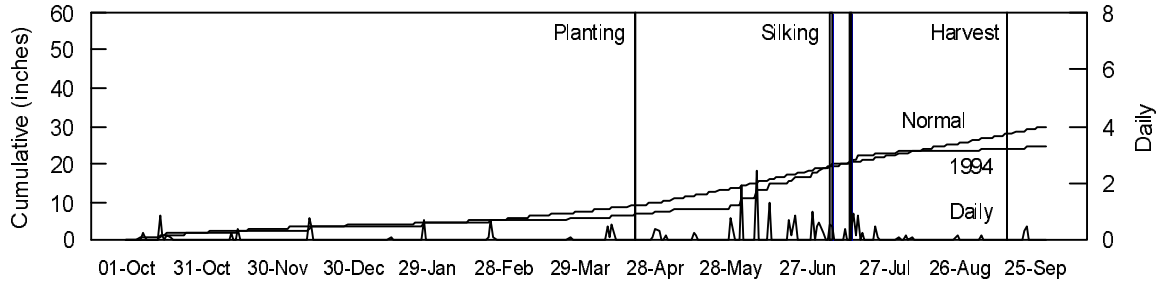
NORTH CENTRAL KANSAS STANDARD CORN TEST DRYLAND

LOCATION: North Central 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 1993, corn in 1992
FERTILIZATION: 180 lbs N/acre preplant
30 lbs P_2O_5/acre at planting
30 lbs N/acre at planting
PLANTING DATE: April 20
HARVEST DATE: September 14
PEST CONTROL: Good
Atrazine and Dual at planting
POPULATION: 19,008 plants/acre, 11 in. spacing

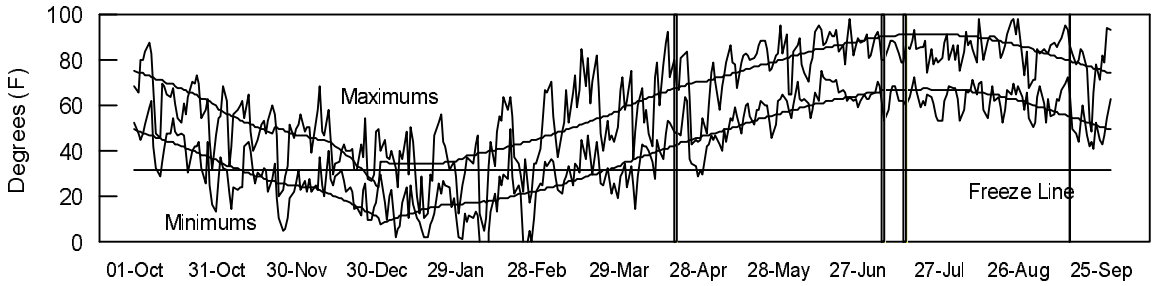
	EARLY	MEDIUM	LATE	ALL
STAND (%):	121	122	121	121
TEST YIELDS:				
Avg. (bu/a):	184	218	209	206
Range (bu/a):	148-218	178-272	191-236	148-272
L.S.D. (bu/a):	7.8	21.5	14.1	19.8
C.V. (%):	3.4	8.2	5.2	6.9
SILK DATES:	7/6-7/11	7/10-7/13	7/11-7/14	7/6-7/14

1994 GROWING CONDITIONS:
The hybrids in this test performed very well thanks to above-normal rainfall in June and July. August and September were relatively dry, but stored soil moisture was sufficient to produce outstanding yields for hybrids of all maturities. Insect and disease damage was inconsequential.

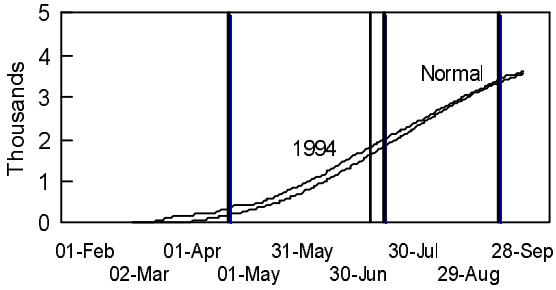
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1994	Normal	1994	Normal	1994	Normal
April	2.0	2.5	52	54	243	240
May	1.5	4.0	66	64	513	448
June	8.5	4.6	75	74	708	703
July	5.6	3.8	74	79	723	823
August	0.6	3.7	75	77	717	786
Sep.	1.0	3.8	69	67	541	502
Season Totals	19.2	22.3	68	69	3443	3502

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TABLE 8. REPUBLIC CO. DRY. STANDARD CORN PERFORMANCE TEST RESULTS, 1992-94.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-94		1994			
BRAND	HYBRID	1994	1993	1992	2-Yr. AVG.	3-Yr. AVG	1994	1993	1992	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Test Wt. lb/bu
EARLY HYBRIDS															
ASGROW	RX623	179	--	--	--	--	97	--	--	--	--	13	78	122	56
NORTHRUP-KING	N4242	148	--	--	--	--	81	--	--	--	--	13	78	123	57
DEKALB	DK580	196	--	--	--	--	107	--	--	--	--	15	80	115	57
--CHECK	SHORT - C4327	196	156	197	176	183	107	95	108	16	79	16	79	127	56
DEKALB	DK591	218	188	--	203	--	119	114	--	17	80	16	81	119	56
OHLDE	104	166	--	--	--	--	91	--	--	--	--	16	82	119	57
Averages		184	165	182	174	177	100	100	100	16	79	15	80	121	57
C.V.(%)		3	--	--	--	--	3	--	--	--	--	5	1	11	1
L.S.D.(.05)*		8	17	25	--	--	4	10	13	--	--	1	1	NS	NS
MEDIUM HYBRIDS															
--CHECK	MID - H2530	197	--	--	--	--	90	--	--	--	--	15	82	115	56
ASGROW	RX747	194	--	--	--	--	89	--	--	--	--	17	81	115	57
PIONEER	3279	263	--	--	--	--	120	--	--	--	--	17	81	126	57
PIONEER	3346	261	--	--	--	--	120	--	--	--	--	17	81	118	57
ASGROW	RX770	190	--	--	--	--	87	--	--	--	--	17	82	130	57
FONTANELLE	5424	219	--	--	--	--	100	--	--	--	--	17	83	126	57
CARGILL	7777	272	--	--	--	--	125	--	--	--	--	17	84	125	57
NORTHRUP-KING	N6822	178	--	--	--	--	82	--	--	--	--	17	84	118	56
TRIUMPH	1452	222	--	--	--	--	102	--	--	--	--	17	84	128	56
STINE	1154	187	--	--	--	--	86	--	--	--	--	18	84	122	56
Averages		218	165	182	192	188	100	100	100	17	81	17	83	122	57
C.V.(%)		8	--	--	--	--	8	--	--	--	--	5	1	9	1
L.S.D.(.05)*		22	17	25	--	--	10	10	13	--	--	1	0	NS	NS
LATE HYBRIDS															
FONTANELLE	6162	237	--	--	--	--	113	--	--	--	--	17	82	123	57
--CHECK	FULL-B73XMO17	217	153	173	185	181	104	93	95	18	84	17	85	131	56
--CHECK	FULL - NEB. 611	194	--	--	--	--	93	--	--	--	--	17	83	118	57
TRIUMPH	2010	191	--	--	--	--	91	--	--	--	--	19	85	111	56
Averages		209	165	182	187	186	100	100	100	17	81	18	84	121	57
C.V.(%)		5	--	--	--	--	5	--	--	--	--	2	0	6	1
L.S.D.(.05)*		14	17	25	--	--	7	10	13	--	--	1	0	10	NS
ALL HYBRIDS															
Test Averages		206	165	182	186	184	100	100	100	--	--	16	82	121	57
C.V.(%)		7	--	--	--	--	--	--	--	--	--	4	1	9	1
L.S.D.(.05)**		20	17	25	--	--	10	10	13	--	--	1	1	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.

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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 1993, corn in 1992
FERTILIZATION: 180lbs N/acre preplant
30 lbs N/acre at planting
30 lbs P_2O_5/acre at planting
PLANTING DATE: April 22
HARVEST DATE: October 10
PEST CONTROL: Good
Force, Atrazine, and Dual at planting
POPULATION: 27,878 plants/acre, 7.5 in. spacing

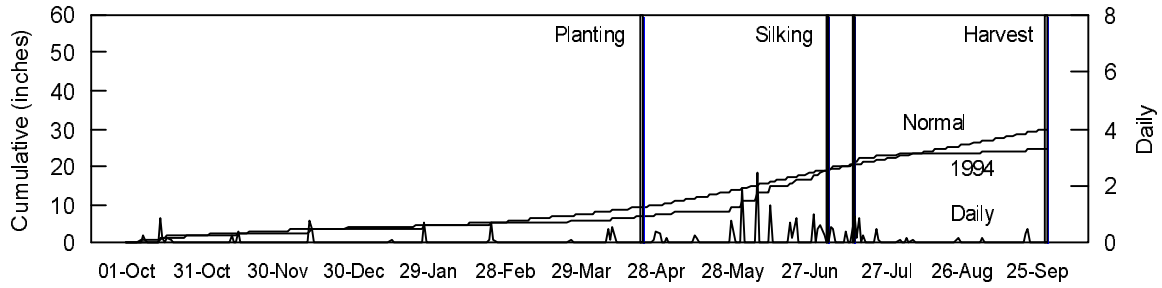
	EARLY	MEDIUM	LATE	ALL
STAND (%):	102	103	102	102
TEST YIELDS:				
Avg. (bu/a):	218	229	204	207
Range (bu/a):	171-250	170-266	172-242	170-266
L.S.D. (bu/a):	20.4	24.4	25.8	28.0
C.V. (%):	6.4	7.6	8.9	9.7
SILK DATES:	7/5-7/6	7/6-7/12	7/10-7/15	7/5-7/15

IRRIGATION: 6 in. total, applied 8/2and 8/10

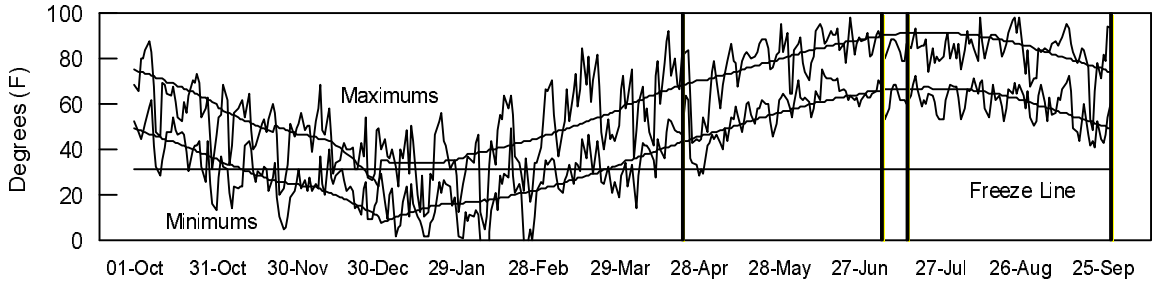
1994 GROWING CONDITIONS:

Aside from a July 1 windstorm, this test experienced excellent growing conditions. Yields for eight hybrids that suffered severe green break during that storm are not reported. All other hybrids had little or no long-term damage from that storm. August irrigations helped to maintain leaf tissue during dry weather and extended the grain filling period.

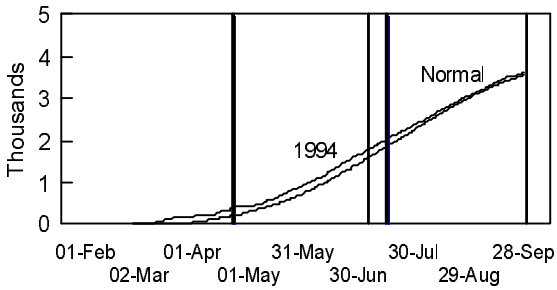
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1994	Normal	1994	Normal	1994	Normal
April	2.0	2.5	52	54	243	240
May	1.5	4.0	66	64	513	448
June	8.5	4.6	75	74	708	703
July	5.6	3.8	74	79	723	823
August	0.6	3.7	75	77	717	786
Sep.	1.0	3.8	69	67	541	502
Season Totals	19.2	22.3	68	69	3443	3502

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TABLE 9. REPUBLIC CO. IRR. STANDARD CORN PERFORMANCE TEST RESULTS, 1992-94.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-94		1994				
BRAND	HYBRID	1994	1993	1992	2-Yr. AVG.	3-Yr. AVG	1994	1993	1992	Moisture %	Days to Silk	Moisture %	Days to Silk	Final Stnd %	Green Break %	Test Wt. lb/bu
EARLY HYBRIDS																
--CHECK	SHORT - C4327	228	--	--	--	--	105	--	--	--	--	13	74	105	0.4	58
DEKALB	DK564	231	--	--	--	--	106	--	--	--	--	13	74	102	0.4	57
OHLDE	104	189	--	--	--	--	87	--	--	--	--	13	74	94	0	58
STINE	1059	219	--	--	--	--	101	--	--	--	--	13	74	99	0	59
DEKALB	DK591	247	--	--	--	--	113	--	--	--	--	13	75	104	0.8	58
DELTAPINE	4450	224	172	--	198	--	103	95	--	14	74	13	75	105	0	58
HAWKEYE	SX53	200	--	--	--	--	92	--	--	--	--	13	75	105	2.2	59
HYPERFORMER	HY 9487	171	--	--	--	--	79	--	--	--	--	13	75	100	0.9	58
PIONEER	3394	250	213	--	231	--	115	117	--	15	74	13	75	104	4.6	59
Averages		218	181	210	199	203	100	100	100	15	75	13	75	102	1	58
C.V.(%)		6	--	--	--	--	6	--	--	--	--	2	1	6	203	1
L.S.D.(.05)*		20	16	14	--	--	9	9	6	--	--	0	0	NS	NS	0
MEDIUM HYBRIDS																
--CHECK	MID - H2530	236	--	--	--	--	103	--	--	--	--	13	77	107	0.4	58
HYPERFORMER	HY 9610	--	203	--	--	--	--	112	--	16	76	13	77	104	51	59
OTTILIE	2448	170	--	--	--	--	74	--	--	--	--	13	77	102	0	60
OTTILIE	2482	230	--	--	--	--	101	--	--	--	--	13	77	102	1.9	58
GOLDEN HARVEST	H-2573	223	--	--	--	--	98	--	--	--	--	13	78	103	0.7	58
HOEGEMEYER	2712	178	--	--	--	--	78	--	--	--	--	13	78	107	0	59
HOEGEMEYER	2685	206	--	--	--	--	90	--	--	--	--	13	78	106	0	59
NC+	5037	247	--	--	--	--	108	--	--	--	--	13	78	101	0	58
OTTILIE	2476	--	--	--	--	--	--	--	--	--	--	13	78	106	18	58
HOEGEMEYER	2655	233	--	--	--	--	102	--	--	--	--	13	79	106	0.8	59
DEKALB	DK626	244	--	--	--	--	107	--	--	--	--	13	80	104	0.4	58
GOLDEN HARVEST	H-2530	226	193	--	210	--	99	107	--	15	77	13	80	103	0	58
PIONEER	3346	243	--	--	--	--	106	--	--	--	--	14	76	104	0	60
PIONEER	3225	266	--	--	--	--	116	--	--	--	--	14	76	103	0.4	60
CARGILL	7697	242	208	200	225	217	106	115	95	15	75	14	77	97	0	60
CARGILL	7777	224	--	--	--	--	98	--	--	--	--	14	77	100	0.4	60
NORTHRUP-KING	N7333	237	--	--	--	--	104	--	--	--	--	14	77	97	0.8	60
PIONEER	3162	251	192	243	222	229	110	106	116	17	75	14	77	100	0	60
DEKALB	DK652	256	--	--	--	--	112	--	--	--	--	14	78	106	0	58
KAYSTAR	KX - 909	201	--	--	--	--	88	--	--	--	--	14	78	101	0	59
NORTHRUP-KING	N7590	220	--	--	--	--	96	--	--	--	--	14	78	100	0	58
OHLDE	X332 EXP	--	--	--	--	--	--	--	--	--	--	14	78	102	50.6	59
OHLDE	X331 EXP	225	192	--	208	--	98	106	--	15	76	14	78	102	0	59
OTTILIE	2446	--	--	--	--	--	--	--	--	--	--	14	78	92	19.1	58
ASGROW	RX801	229	177	--	203	--	100	98	--	16	77	14	79	104	0	59
HYPERFORMER	HS 9502	241	185	--	213	--	106	102	--	15	76	14	79	106	0	58
MYCOGEN	ORO 142	223	175	--	199	--	98	97	--	16	77	14	79	108	0.7	59
OHLDE	X340 EXP	248	--	--	--	--	108	--	--	--	--	14	79	103	0	58
OHLDE	300	224	180	208	202	204	98	100	99	16	78	14	80	99	1.2	59
HAWKEYE	8179	232	--	--	--	--	102	--	--	--	--	14	81	106	0	59
OTTILIE	2483	218	--	--	--	--	96	--	--	--	--	14	81	107	0.7	59
STINE	1118	227	--	--	--	--	100	--	--	--	--	14	81	105	0.4	58
Averages		229	181	210	205	207	100	100	100	16	76	14	78	103	4.6	59
C.V.(%)		8	--	--	--	--	8	--	--	--	--	3	1	5	45.7	1
L.S.D.(.05)*		24	16	14	--	--	11	9	6	--	--	0	1	6	2.5	1

(continued)

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		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-94		1994				
BRAND	HYBRID	1994	1993	1992	2-Yr. AVG.	3-Yr. AVG	1994	1993	1992	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Green Break %	Test Wt. lb/bu
LATE HYBRIDS																
CARGILL	8327	188	199	--	193	--	92	110	--	16	79	13	82	103	0	58
GOLDEN HARVEST	H-2641	175	--	--	--	--	86	--	--	--	--	13	82	99	0	59
NORTHRUP-KING	N7989	225	--	--	--	--	110	--	--	--	--	13	82	106	0	59
CROW'S	702	--	--	--	--	--	--	--	--	--	--	14	79	103	31.6	57
CARGILL	7997	229	188	230	208	215	112	104	109	16	77	14	80	104	0	60
DELTAPINE	G-4673B	--	170	202	--	--	--	94	96	16	78	14	80	100	34	59
OTTILIE	2562	180	--	--	--	--	88	--	--	--	--	14	80	101	0.8	58
CROW'S	667	225	201	--	213	--	110	111	--	16	77	14	81	103	0.4	59
HYPERFORMER	HS 9822	--	184	--	--	--	--	101	--	17	79	14	81	104	55	58
HYPERFORMER	HS 9843	172	199	--	186	--	84	110	--	16	79	14	81	101	0	59
HYPERFORMER	HS 9848	219	190	--	204	--	107	105	--	16	79	14	81	103	0	60
ICI	8285	177	--	--	--	--	87	--	--	--	--	14	81	101	0.8	58
ICI	8281	230	--	--	--	--	113	--	--	--	--	14	81	102	0	59
--CHECK	FULL-B73XMO17	204	160	184	182	182	100	88	87	16	78	14	82	101	0	57
ASGROW	RX897	195	187	--	191	--	96	104	--	16	79	14	82	100	0.4	59
CROW'S	668	200	213	--	206	--	98	117	--	16	79	14	82	102	0	58
MYCOGEN	7885	--	191	--	--	--	--	106	--	16	79	14	82	106	30.8	59
MYCOGEN	8240	194	191	--	192	--	95	105	--	16	78	14	82	98	0	58
--CHECK	FULL - NEB. 611	222	160	199	191	194	109	88	95	15	79	14	83	103	0.4	57
OHLDE	373	210	162	--	186	--	103	90	--	16	80	14	83	102	0	59
DELTAPINE	4581	214	184	223	199	207	105	102	106	16	80	14	84	100	0	59
OHLDE	510	184	201	208	192	197	90	111	99	16	80	14	84	104	0	59
DEKALB	DK715	242	192	224	217	219	118	106	106	17	76	15	79	102	0	58
Averages		204	181	210	193	199	100	100	100	16	78	14	81	102	6.7	58
C.V.(%)		9	--	--	--	--	9	--	--	--	--	3	1	5	74.5	1
L.S.D.(.05)*		26	16	14	--	--	13	9	6	--	--	0	1	NS	5.9	1
ALL HYBRIDS																
Test Averages		207	181	210	194	199	100	100	100	--	--	14	79	102	5	59
C.V.(%)		10	--	--	--	--	--	--	--	--	--	2	1	5	71	1
L.S.D.(.05)**		28	16	14	--	--	14	9	6	--	--	0	1	7	5	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.

Yields of 8 hybrids with severe green break from the July 1 windstorm are not reported. Yield estimates for these hybrids were not included in the summary statistics or analysis.

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SOUTH CENTRAL KANSAS STANDARD CORN TEST IRRIGATED

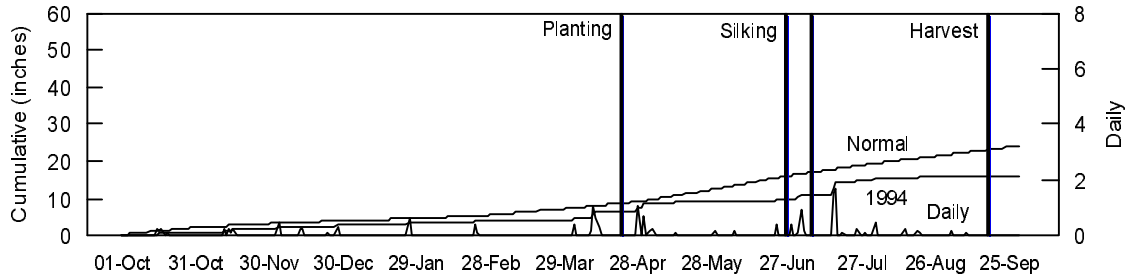
LOCATION: Sandyland Experiment Field
3 miles south of St. John in **Stafford County**
COOPERATORS: Victor Martin, agronomist
Jerry Dove and Yogi Behr, technicians
TEST SITE: Naron loamy fine sand
Wheat in 1993, fallow in 1992
FERTILIZATION: 168 lbs N/acre preplant
46 lbs P_2O_5/acre preplant
150 lbs N/acre after planting
PLANTING DATE: April 21
HARVEST DATE: September 17
PEST CONTROL: Fair
Atrazine and Dual at planting
POPULATION: 27,878 plants/acre, 7.5 in. spacing

	EARLY	MEDIUM	LATE	ALL
STAND (%):	102	100	100	100
TEST YIELDS:				
Avg. (bu/a):	156	180	188	183
Range (bu/a):	140-171	142-204	155-205	140-205
L.S.D. (bu/a):	23.6	15.3	18.5	20.6
C.V. (%):	11.0	7.2	8.4	8.1
SILK DATES:	6/27-6/30	6/28-7/5	7/1-7/7	6/27-7/7

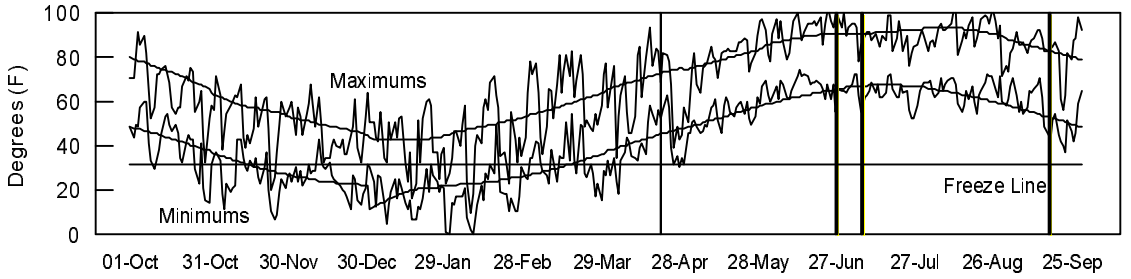
IRRIGATION: 15 in. total, applied in 27 irrigations

1994 GROWING CONDITIONS:
Cool temperatures soon after planting slowed emergence, but final stands were well within acceptable ranges. Hot, dry conditions during most of the growing season required frequent irrigation. The plants matured and dried down rapidly at the end of the season.

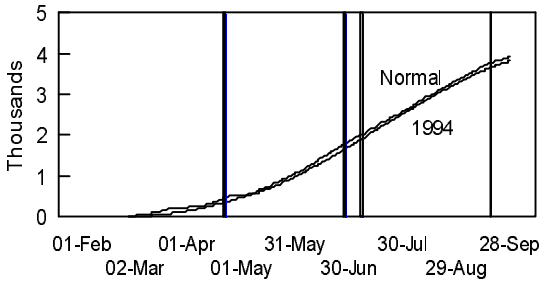
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1994	Normal	1994	Normal	1994	Normal
April	4.3	2.0	53	57	278	312
May	0.7	3.4	68	67	537	515
June	0.9	3.6	79	76	770	734
July	4.9	2.9	77	79	764	825
August	0.9	2.5	78	78	777	756
Sep.	0.3	2.4	69	69	570	537
Season Totals	12.1	16.9	71	71	3697	3680

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BRAND	HYBRID	1994	1993	1992	2-Yr. AVG.	3-Yr. AVG	1994	1993	1992	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Test Wt. lb/bu
EARLY HYBRIDS																
ASGROW	RX623	157	--	--	--	--	101	--	--	--	--	11	67	101	2.4	58
--CHECK	SHORT - C4327	140	--	--	--	--	90	--	--	--	--	11	68	102	3.4	59
NORTHRUP-KING	N6330	171	160	220	166	184	110	107	104	13	76	12	70	102	3.1	58
Averages		156	149	212	153	173	100	100	100	14	77	11	69	102	3	58
C.V.(%)		11	--	--	--	--	11	--	--	--	--	3	1	2	139	0
L.S.D.(.05)*		24	32	20	--	--	15	21	10	--	--	NS	1	NS	NS	0
MEDIUM HYBRIDS																
PIONEER	3346	175	159	--	167	--	97	106	--	13	74	11	68	103	3.1	60
--CHECK	MID - H2530	176	--	--	--	--	98	--	--	--	--	11	70	101	5.8	58
GOLDEN HARVEST	H-2530	172	148	--	160	--	95	99	--	12	76	11	70	99	5.5	59
ASGROW	RX770	159	--	--	--	--	88	--	--	--	--	11	71	103	6.9	60
HYPERFORMER	HS 9502	191	--	205	--	--	106	--	97	--	--	11	73	98	2.1	58
NORTHRUP-KING	N7590	179	--	--	--	--	99	--	--	--	--	12	70	103	2.7	60
CARGILL	7777	185	--	--	--	--	103	--	--	--	--	12	71	101	3.9	62
CARGILL	7877	160	177	208	169	182	89	119	98	13	76	12	71	103	2.6	60
CARGILL	7557	175	--	--	--	--	97	--	--	--	--	12	71	102	0	61
DEKALB	DK646	171	138	225	154	178	95	92	106	14	79	12	72	100	3.2	59
TERRA	TR 641	142	134	--	138	--	79	90	--	15	78	12	72	100	5.9	61
CASTERLINE	CX1222	164	167	--	165	--	91	112	--	14	77	12	73	100	0.8	61
HORIZON	7711	204	--	--	--	--	113	--	--	--	--	12	73	101	1.1	59
NC+	5037	182	169	--	175	--	101	113	--	14	80	12	73	88	1.6	59
OHLDE	X340 EXP	186	--	--	--	--	103	--	--	--	--	12	73	102	0.4	58
STINE	1118	198	--	--	--	--	110	--	--	--	--	12	73	102	0.4	59
TRIUMPH	1452	186	184	--	185	--	104	123	--	13	79	12	73	99	2.8	58
ASGROW	RX801	183	--	--	--	--	102	--	--	--	--	12	74	99	0.8	61
DELANGE	DS 1995	191	163	--	177	--	106	109	--	14	81	12	75	88	0.4	60
MYCOGEN	ORO 142	188	158	--	173	--	105	106	--	15	81	12	75	102	0.4	60
OHLDE	X1598 EXP	196	158	--	177	--	109	106	--	13	80	12	75	101	3.1	60
OHLDE	300	189	136	231	162	185	105	91	109	16	82	12	75	102	2	60
PIONEER	3225	186	--	--	--	--	103	--	--	--	--	13	71	104	4.1	62
PIONEER	3162	180	159	233	170	191	100	107	110	14	77	13	71	101	2	62
Averages		180	149	212	165	181	100	100	100	14	79	12	72	100	2.6	60
C.V.(%)		7	--	--	--	--	7	--	--	--	--	3	1	8	140	1
L.S.D.(.05)*		15	32	20	--	--	9	21	10	--	--	1	1	NS	NS	1

(continued)

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BRAND	HYBRID	1994	1993	1992	2-Yr. AVG.	3-Yr. AVG	1994	1993	1992	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Test Wt. lb/bu
LATE HYBRIDS																
HORIZON	LG2632	182	--	--	--	--	97	--	--	--	--	11	73	102	3.8	60
--CHECK	FULL - NEB. 611	162	132	183	147	159	86	88	86	14	77	12	71	97	1.6	58
CARGILL	7997	155	160	219	157	178	82	107	103	13	77	12	71	102	1.6	61
--CHECK	FULL-B73XMO17	157	149	204	153	170	83	100	96	14	78	12	72	100	0.4	57
DELTAPINE	4662	189	189	217	189	198	101	126	102	14	79	12	72	101	1.9	60
ICI	8281	197	--	--	--	--	105	--	--	--	--	12	72	102	3.2	60
CASTERLINE	CX1253	185	162	--	174	--	99	109	--	15	81	12	75	100	3.5	60
NORTHRUP-KING	N7989	191	127	--	159	--	101	85	--	16	82	12	75	102	3.4	60
TERRA	E1168 EXP	188	139	--	163	--	100	93	--	14	81	12	75	103	0	60
DELTAPINE	4581	197	152	219	175	189	105	102	103	14	82	12	76	100	4	60
MYCOGEN	7885	199	--	--	--	--	106	--	--	--	--	12	76	103	1.1	59
NC+	7117	185	--	--	--	--	99	--	--	--	--	12	76	103	0.4	60
NC+	7304	201	155	237	178	197	107	104	111	15	83	12	76	100	1.2	60
AGRIPRO	AP 697	183	148	--	165	--	97	99	--	14	82	12	77	100	3.5	59
OHLDE	373	202	154	--	178	--	107	103	--	14	83	12	77	97	0.9	59
DEKALB	DK715	160	164	199	162	174	85	110	94	15	77	13	71	101	2.4	59
DELTAPINE	G-4673B	184	174	227	179	195	98	116	107	15	78	13	72	102	1.5	61
CARGILL	8327	201	126	--	163	--	107	84	--	15	81	13	73	100	1.9	59
GOLDEN HARVEST	H-2641	199	--	--	--	--	106	--	--	--	--	13	73	100	2.8	59
ICI	8285	195	--	--	--	--	104	--	--	--	--	13	73	99	1.9	59
MYCOGEN	8240	199	145	--	172	--	106	97	--	16	81	13	73	99	2.4	59
OHLDE	510	199	145	212	172	185	106	97	100	15	79	13	73	100	1.6	59
HYPERFORMER	HS 9843	192	152	230	172	191	102	102	108	15	80	13	74	96	1.7	59
NC+	6959	192	144	235	168	190	102	97	110	16	81	13	74	101	0.4	59
TERRA	TR 1167	193	143	--	168	--	103	96	--	15	81	13	74	103	5.8	59
AGRIPRO	AP 758	205	--	--	--	--	109	--	--	--	--	13	75	100	1.2	59
ASGROW	RX897	197	--	221	--	--	105	--	104	--	--	13	75	102	1.5	60
CASTERLINE	CX1252	189	--	--	--	--	100	--	--	--	--	13	75	96	1.8	59
DEKALB	DK683	189	147	--	168	--	101	99	--	15	82	13	75	100	1.2	59
HYPERFORMER	HS 9822	189	146	--	167	--	100	98	--	15	82	13	75	99	0.8	59
HYPERFORMER	HS 9848	194	151	--	172	--	103	101	--	15	81	13	75	98	0.4	60
TERRA	TR 1185	172	138	--	155	--	92	92	--	16	80	14	73	102	1.9	59
TERRA	TR 702E	188	133	--	160	--	100	89	--	17	81	14	76	100	3.9	58
Averages		188	149	212	169	183	100	100	100	15	80	13	74	100	2	59
C.V.(%)		8	--	--	--	--	8	--	--	--	--	2	1	4	139	1
L.S.D.(.05)*		19	32	20	--	--	10	21	10	--	--	1	1	NS	NS	1
ALL HYBRIDS																
Test Averages		183	149	212	166	181	100	100	100	--	--	12	73	100	2	59
C.V.(%)		8	--	--	--	--	--	--	--	--	--	3	1	6	140	1
L.S.D.(.05)**		21	32	20	--	--	11	21	10	--	--	0	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.

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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 1993, fallow in 1992
FERTILIZATION: 183 lbs N/acre preplant
30 lbs P_2O_5/acre preplant
PLANTING DATE: April 25
SILKING DATES: July 9 - July 18
HARVEST DATE: September 29
PEST CONTROL: Good
Insecticides on July 8 and August 1 for spider mites
Bladex, Atrazine, and Lasso at planting

POPULATION:
Desired: 14,935 plants/acre, 7 in. spacing
Thinned: June 6
Final stand: 102% of desired
TEST YIELDS: Somewhat variable
Average: 142 bu/acre
Range: 118 to 161 bu/acre
L.S.D.: 22.8 bu/acre
C.V.: 11.2%

1994 GROWING CONDITIONS:
The test was planted into 1993 wheat stubble. Some rows that fell directly on last year's wheat rows were delayed in germination and emergence. This likely contributed to variability in final yields. However, yields in general were excellent for dryland corn production at this location because of above-normal precipitation through July. Hot, dry, windy conditions in August and September prevented even higher yields. (Weather data and graphs presented with irrigated test information, page 31.)

TABLE 11. THOMAS CO. DRY. STANDARD CORN PERFORMANCE TEST RESULTS, 1994.

BRAND	HYBRID	ACRE YIELD, BUSHELS 1994	YIELD AS % OF TEST AVERAGE 1994	1994 Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Test Wt. lb/bu
BO-JAC	135	136	95	13	75	106	0	57
ASGROW	RX623	142	99	13	78	104	0	58
--CHECK	MID - H2530	135	95	13	81	106	1.9	55
--CHECK	SHORT - C4327	156	110	16	79	101	0	56
OTTILIE	2438	140	99	16	80	100	0.8	56
ASGROW	RX770	149	105	17	78	101	0	55
BO-JAC	438	148	104	17	79	97	0	55
CASTERLINE	C 1191	126	89	18	80	88	0	57
--CHECK	FULL - NEB. 611	141	99	18	82	100	1.4	53
NC+	5514	159	112	18	82	103	0	54
CASTERLINE	CX1237	161	113	19	81	109	0	53
NC+	5037	142	100	19	83	107	1.4	53
--CHECK	FULL-B73XMO17	118	83	20	82	106	0	52
BO-JAC	577	138	97	21	84	101	3.2	53
Averages		142	100	17	80	102	0.6	55
C.V.(%)		11	11	13	2	8	367	3
L.S.D.(.05)*		23	16	3	2	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.

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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
Soybeans in 1993, corn in 1992
FERTILIZATION: 185 lbs N/acre preplant
30 lbs P_2O_5/acre preplant
PLANTING DATE: May 4
HARVEST DATE: October 21 and 22
PEST CONTROL: Good
Insecticides on July 8 and August 1 for spider mites
Atrazine, Lasso, and Bladex at planting
POPULATION: 27,878 plants/acre, 7.5 in. spacing

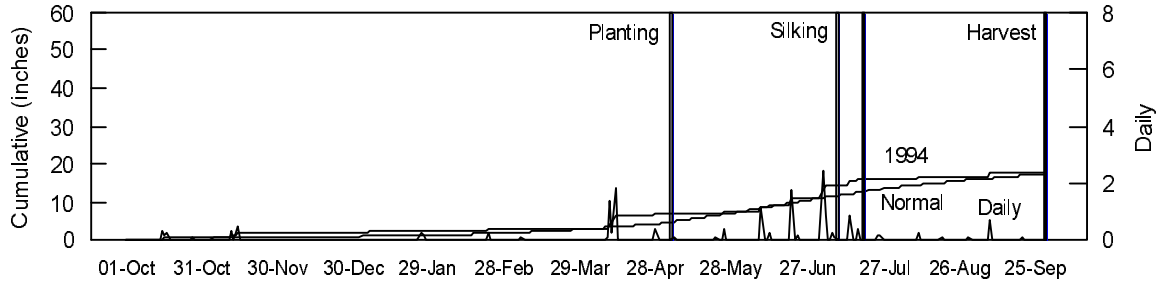
	EARLY	MEDIUM	LATE	ALL
STAND (%):	101	101	101	101
TEST YIELDS:				
Avg. (bu/a):	248	254	247	250
Range (bu/a):	224-268	230-280	203-270	203-280
L.S.D. (bu/a):	11.9	10.5	13.8	14.0
C.V. (%):	4.1	3.5	4.7	4.0
SILK DATES:	7/9-7/15	7/11-7/19	7/13-7/19	7/9-7/19

IRRIGATION: 22-26 in. total, applied 4/6 (pre-plant), 6/17, 7/2, 7/20, 7/29, 8/8, 8/22, and 9/1

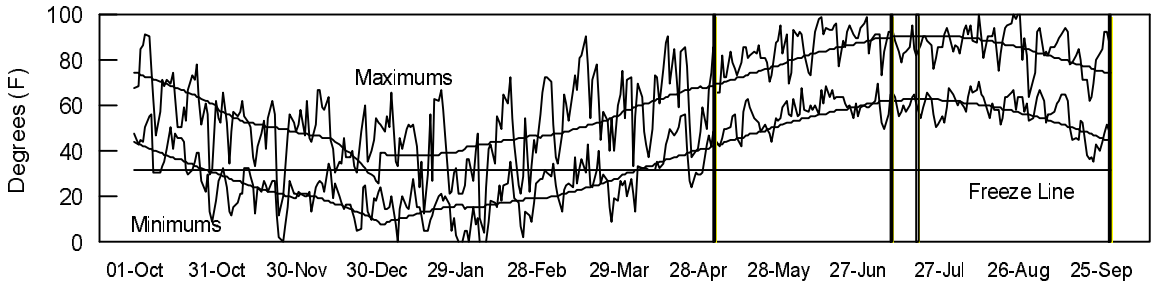
1994 GROWING CONDITIONS:

Favorable growing conditions for almost the entire season enabled the production of outstanding yields in this test. All three maturity groups averaged nearly 250 bushels/acre. Spider mites and root worm beetles were noted, but caused little or no damage.

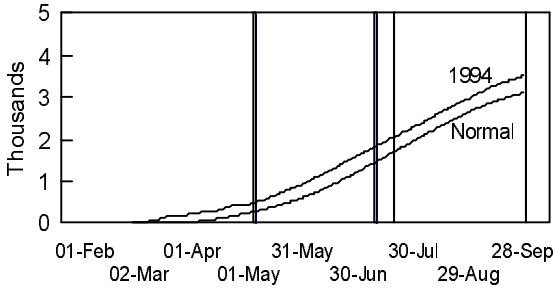
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1994	Normal	1994	Normal	1994	Normal
April	3.9	1.5	49	50	227	205
May	0.7	3.0	65	60	493	369
June	3.5	3.5	75	71	668	615
July	5.3	3.1	73	77	683	751
August	0.5	2.0	75	74	701	703
Sep.	0.9	1.5	67	65	525	446
Season Totals	14.8	14.6	68	66	3296	3088

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TABLE 12. THOMAS CO. IRR. STANDARD CORN PERFORMANCE TEST RESULTS, 1992-94.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-94		1994				
BRAND	HYBRID	1994	1993	1991	2-Yr. AVG.	3-Yr. AVG	1994	1993	1991	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Test Wt. lb/bu
EARLY HYBRIDS																
DEKALB	DK512	236	--	--	--	--	95	--	--	--	--	15	66	99	0.8	57
BO-JAC	386	224	58	--	141	--	91	50	--	16	75	15	67	102	0.4	58
ICI	8543	262	110	--	186	--	106	95	--	18	77	15	67	100	1.6	58
OHLDE	X218 EXP	230	--	--	--	--	93	--	--	--	--	15	67	100	0.8	58
DEKALB	DK564	226	--	--	--	--	91	--	--	--	--	15	68	101	1.2	58
AGRIPRO	AP 588	247	--	--	--	--	100	--	--	--	--	15	69	102	0.4	59
BO-JAC	438	258	--	--	--	--	104	--	--	--	--	15	69	101	0	59
OHLDE	310	250	118	--	184	--	101	103	--	18	78	15	69	102	1.5	58
OTTILIE	2443	237	--	--	--	--	96	--	--	--	--	15	69	101	1.2	59
PIONEER	3394	255	--	231	--	--	103	--	96	--	--	15	70	102	0.8	59
HYPERFORMER	HS 9484	260	--	258	--	--	105	--	108	--	--	16	67	102	0.8	58
MILLER	MP-1091	265	--	--	--	--	107	--	--	--	--	16	68	103	0.8	57
NORTHRUP-KING	N6330	259	114	241	187	205	105	99	101	19	77	16	68	101	0.4	58
--CHECK	SHORT - C4327	228	--	--	--	--	92	--	--	--	--	16	69	100	0.4	58
DELTAPINE	4450	262	110	--	186	--	106	95	--	19	77	16	69	102	0.4	58
OHLDE	104	247	--	--	--	--	100	--	--	--	--	16	69	100	0.4	57
OHLDE	312	268	--	--	--	--	108	--	--	--	--	16	72	103	0.8	58
Averages		248	115	240	181	201	100	100	100	20	78	15	68	101	0.7	58
C.V.(%)		4	--	--	--	--	4	--	--	--	--	3	2	2	143	1
L.S.D.(.05)*		12	15	17	--	--	5	13	7	--	--	1	1	NS	NS	1
MEDIUM HYBRIDS																
GOLDEN HARVEST	H-2493	240	116	--	178	--	95	100	--	17	77	15	69	103	1.2	58
MILLER	MP-1111	237	--	--	--	--	94	--	--	--	--	15	69	100	1.2	59
HORIZON	7878	234	109	--	172	--	92	95	--	17	79	15	70	100	0.8	58
CARGILL	6327	255	--	--	--	--	101	--	--	--	--	16	68	102	1.2	58
OTTILIE	2448	247	--	--	--	--	97	--	--	--	--	16	69	100	1.2	59
TRIUMPH	1324	239	--	240	--	--	94	--	100	--	--	16	69	101	0	59
--CHECK	MID - H2530	235	--	--	--	--	93	--	--	--	--	16	70	103	0.8	57
CARGILL	7777	272	--	--	--	--	107	--	--	--	--	16	70	102	0.4	60
GOLDEN HARVEST	H-2530	230	120	--	175	--	91	105	--	18	78	16	70	100	0.8	57
CARGILL	7877	257	124	--	191	--	101	108	--	19	78	16	71	101	1.2	58
OHLDE	X332 EXP	238	--	--	--	--	94	--	--	--	--	16	71	100	1.2	59
OTTILIE	2446	260	131	--	195	--	103	114	--	23	81	16	73	101	0	58
NORTHRUP-KING	N7590	244	--	--	--	--	96	--	--	--	--	17	69	103	0	58
AGRIPRO	AP 670	240	116	--	178	--	95	101	--	21	79	17	70	102	0.4	59
BO-JAC	602	251	--	236	--	--	99	--	98	--	--	17	70	100	0.8	58
CARGILL	7697	249	126	238	188	204	98	109	99	21	78	17	70	100	1.2	59
OHLDE	X331 EXP	280	125	--	203	--	111	109	--	23	78	17	70	103	0.8	58
CARGILL	7557	251	--	--	--	--	99	--	--	--	--	17	71	103	0	60
NC+	5514	250	--	--	--	--	99	--	--	--	--	17	71	102	0	56
MILLER	MP-1130	253	--	--	--	--	100	--	--	--	--	17	72	102	0.8	57
OTTILIE	2476	276	--	--	--	--	109	--	--	--	--	17	72	102	0	57
BO-JAC	577	257	144	--	201	--	102	125	--	20	81	17	73	102	0	57
CROW'S	510	264	134	--	199	--	104	117	--	22	81	17	73	99	0.4	57
HORIZON	7711	261	140	--	200	--	103	122	--	23	81	17	73	103	0	58
ICI	8310	252	113	--	182	--	100	98	--	22	81	17	73	100	0	59
NC+	5037	266	134	--	200	--	105	116	--	21	81	17	73	101	0.4	58
OHLDE	X340 EXP	253	--	--	--	--	100	--	--	--	--	17	73	100	0	57
HYPERFORMER	HS 9502	257	137	273	197	222	101	119	114	21	81	17	74	101	0	57
ASGROW	RX801	254	--	--	--	--	100	--	--	--	--	17	75	101	0.4	59
NORTHRUP-KING	N7333	256	--	--	--	--	101	--	--	--	--	18	70	102	0.8	58

(continued)

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TABLE 12. THOMAS CO. IRR. STANDARD CORN PERFORMANCE TEST RESULTS, 1992-94.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-94		1994				
BRAND	HYBRID	1994	1993	1991	2-Yr. AVG.	3-Yr. AVG	1994	1993	1991	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Test Wt. lb/bu
PIONEER	3346	239	143	--	191	--	94	124	--	25	78	18	70	101	0.8	58
KAYSTAR	KX - 909	231	--	--	--	--	91	--	--	--	--	18	72	93	0.8	56
OTTILIE	2482	247	--	--	--	--	98	--	--	--	--	18	72	102	0	56
DEKALB	DK652	276	--	--	--	--	109	--	--	--	--	19	71	101	1.2	55
PIONEER	3162	276	134	242	205	217	109	116	101	24	79	19	71	102	0.4	58
PIONEER	3225	271	--	--	--	--	107	--	--	--	--	19	71	99	0.4	59
OHLDE	300	262	128	--	195	--	103	111	--	23	83	19	75	100	0	58
MYCOGEN	ORO 142	264	138	--	201	--	104	120	--	23	83	19	76	101	0.4	58
OTTILIE	2483	262	138	--	200	--	103	120	--	24	83	19	76	102	0.4	58
Averages		254	115	240	184	203	100	100	100	21	79	17	71	101	0.5	58
C.V.(%)		4	--	--	--	--	4	--	--	--	--	3	1	2	203	1
L.S.D.(.05)*		11	15	17	--	--	4	13	7	--	--	1	1	3	NS	1
LATE HYBRIDS																
CARGILL	7997	234	118	--	176	--	95	102	--	21	79	18	71	100	0.8	58
STINE	1179	249	129	--	189	--	101	112	--	25	79	18	71	102	0.8	57
--CHECK	FULL - NEB. 611	218	103	233	160	185	88	90	97	21	80	18	73	100	1.5	56
--CHECK	FULL-B73XMO17	230	87	231	159	183	93	76	96	20	81	18	73	102	2.3	57
OHLDE	510	253	--	--	--	--	102	--	--	--	--	18	74	102	0.4	57
ASGROW	RX897	251	--	--	--	--	102	--	--	--	--	18	75	100	0	57
CARGILL	8327	252	133	--	193	--	102	116	--	24	82	18	75	100	0	57
CROW'S	668	253	142	--	197	--	102	123	--	25	83	18	75	100	0	57
OTTILIE	2562	257	136	--	197	--	104	118	--	26	83	18	75	100	0	57
MYCOGEN	7885	235	117	--	176	--	95	101	--	21	84	18	76	101	0.4	57
ICI	8272	248	127	276	187	217	100	110	115	23	81	19	73	100	1.2	57
DELTAPINE	4662	271	125	--	198	--	109	108	--	21	81	19	74	102	1.2	57
MYCOGEN	8240	257	--	--	--	--	104	--	--	--	--	19	74	103	1.1	57
CASTERLINE	CX1252	261	--	--	--	--	106	--	--	--	--	19	75	102	0.4	57
HYPERFORMER	HS 9843	243	133	--	188	--	99	116	--	25	82	19	75	102	1.1	57
HYPERFORMER	HS 9822	263	127	--	195	--	106	110	--	21	83	19	75	103	1.1	57
HYPERFORMER	HS 9848	251	133	--	192	--	102	116	--	25	83	19	75	100	0	58
CASTERLINE	CX1253	247	122	--	184	--	100	106	--	24	83	19	76	102	0.4	57
DELTAPINE	4581	260	136	--	198	--	105	118	--	24	84	19	76	101	0	57
DEKALB	DK715	243	135	--	189	--	98	117	--	23	80	20	72	100	0.4	56
DELTAPINE	G-4673B	261	126	265	194	217	105	110	110	23	80	20	72	102	1.9	56
CROW'S	702	203	--	--	--	--	82	--	--	--	--	22	73	99	2	53
Averages		247	115	240	181	201	100	100	100	22	81	19	74	101	0.8	57
C.V.(%)		5	--	--	--	--	5	--	--	--	--	4	1	2	177	1
L.S.D.(.05)*		14	15	17	--	--	6	13	7	--	--	1	1	NS	NS	1
ALL HYBRIDS																
Test Averages		250	115	240	183	202	100	100	100	--	--	17	71	101	1	58
C.V.(%)		4	--	--	--	--	--	--	--	--	--	3	1	2	180	1
L.S.D.(.05)**		14	15	17	--	--	6	13	7	--	--	1	1	3	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.

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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 1993, fallow in 1992
FERTILIZATION: 60 lbs N/acre postplant
PLANTING DATE: April 22
SILKING DATES: July 10 - July 18
HARVEST DATE: August 14
PEST CONTROL: Good
Cyclone, Dual, and Atrazine preemergence

POPULATION:
Desired: 30,000 plants/acre, 7 in. spacing
Thinned: June 15
Final stand: 96% of desired
TEST YIELDS:
Average: 89 bu/acre
Range: 67 to 102 bu/acre
L.S.D.: 9.9 bu/acre
C.V.: 9.2%
1994 GROWING CONDITIONS:
Above-normal precipitation in June and July enabled even the full-season hybrids to set seed and produce excellent yields for this dryland location. Yields for short-season check C4327 are not included because of extensive raccoon damage.
(Weather data and graphs presented with irrigated test, page 35).

TABLE 13. GREELEY CO. DRY. STANDARD CORN PERFORMANCE TEST RESULTS, 1994.

BRAND	HYBRID	ACRE YIELD, BUSHELS 1994	YIELD AS % OF TEST AVERAGE 1994	1994 Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Test Wt. lb/bu
ASGROW	RX623	94	106	15	79	97	--	56
BO-JAC	135	67	75	16	81	98	--	54
--CHECK	MID - H2530	82	92	16	83	97	--	54
--CHECK	SHORT - C4327	--	--	17	82	95	--	54
BO-JAC	438	94	106	18	83	99	--	53
CASTERLINE	C 1191	83	93	21	82	78	--	54
--CHECK	FULL - NEB. 611	95	107	24	84	98	--	50
BO-JAC	577	102	114	24	85	100	--	51
HYPERFORMER	HS 9773	85	95	25	87	97	--	51
ASGROW	RX801	83	93	28	87	99	--	51
--CHECK	FULL-B73XMO17	98	110	29	87	96	--	49
CASTERLINE	CX1237	99	111	31	86	101	--	50
Averages		89	100	22	84	96	--	52
C.V.(%)		9	9	8	1	4	--	1
L.S.D.(.05)*		10	11	2	1	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.

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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 1993, corn in 1992
FERTILIZATION: 215 lbs N/acre preplant
75 lbs P_2O_5/acre preplant
PLANTING DATE: April 22
HARVEST DATE: September 28
PEST CONTROL: Good
Dual and Atrazine at planting
POPULATION: 27,878 plants/acre, 7.5 in. spacing

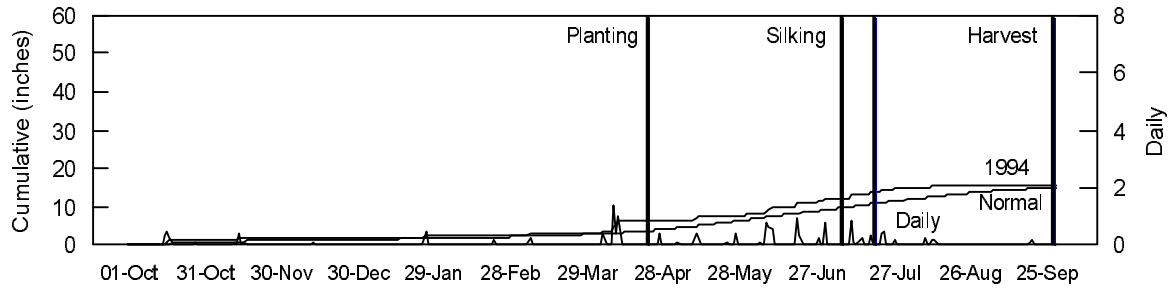
	EARLY	MEDIUM	LATE	ALL
STAND (%):	98	99	98	98
TEST YIELDS:				
Avg. (bu/a):	171	205	200	195
Range (bu/a):	136-190	165-227	172-232	136-232
L.S.D. (bu/a):	32.0	26.4	25.8	28.3
C.V. (%):	13.0	9.1	9.1	10.4
SILK DATES:	7/7-7/13	7/10-7/20	7/12-7/20	7/7-7/20

IRRIGATION: 15-20 in. total, applied 6/16, 6/29, 7/7, 7/19, 8/3, 8/21, and 9/1

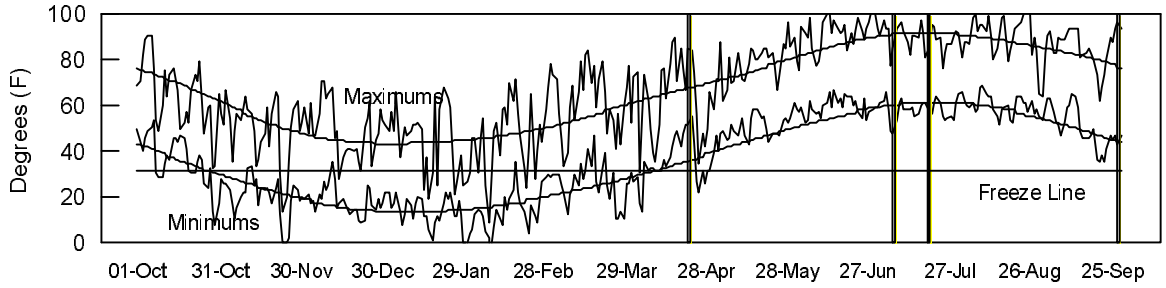
1994 GROWING CONDITIONS:

All hybrids established good stands and produced adequate yields. As might be expected under irrigation in a normal growing season, the early hybrids yielded less than the medium or late hybrids. Little difference in yield occurred between the medium and late groups, although the medium group had lower grain moisture and higher test weight averages. Insect and disease damage was minimal.

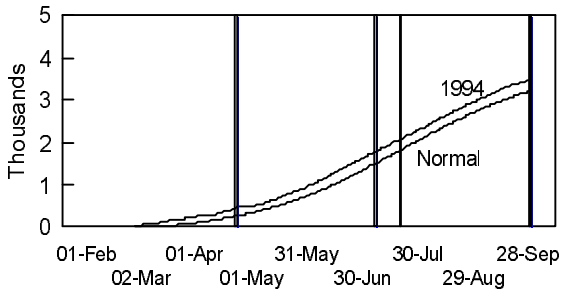
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1994	Normal	1994	Normal	1994	Normal
April	3.7	1.4	49	50	243	236
May	1.3	2.4	64	60	469	397
June	3.6	2.5	76	71	667	603
July	3.4	2.5	74	76	677	723
August	0.7	2.2	75	74	678	688
Sep.	0.3	1.2	68	65	526	470
Season Totals	12.9	12.2	68	66	3261	3116

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TABLE 14. GREELEY CO. IRR. STANDARD CORN PERFORMANCE TEST RESULTS, 1992-94.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-94		1994				
BRAND	HYBRID	1994	1993	1992	2-Yr. AVG.	3-Yr. AVG	1994	1993	1992	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Test Wt. lb/bu
EARLY HYBRIDS																
BO-JAC	135	136	--	--	--	--	79	--	--	--	--	12	76	98	0.7	56
OHLDE	097	142	--	--	--	--	83	--	--	--	--	14	76	98	1.8	56
--CHECK	SHORT - C4327	176	--	--	--	--	103	--	--	--	--	15	78	101	0.4	58
BO-JAC	386	148	186	--	167	--	86	99	--	16	84	16	81	97	0.4	56
OHLDE	X218 EXP	188	--	--	--	--	110	--	--	--	--	17	80	96	0.8	57
OHLDE	104	178	--	--	--	--	104	--	--	--	--	18	80	101	0	54
DEKALB	DK591	184	--	--	--	--	108	--	--	--	--	18	81	97	2.2	55
OHLDE	310	184	--	--	--	--	107	--	--	--	--	18	82	98	0	56
BO-JAC	438	190	--	--	--	--	111	--	--	--	--	19	82	97	0	56
DELTAPINE	4450	182	200	233	191	205	106	107	105	18	86	19	82	98	0.4	55
AGRIPRO	AP 588	174	--	--	--	--	102	--	--	--	--	20	82	98	0	55
Averages		171	188	222	179	194	100	100	100	18	85	17	80	98	0.6	56
C.V.(%)		13	--	--	--	--	13	--	--	--	--	13	3	3	229	2
L.S.D.(.05)*		32	17	23	--	--	19	9	11	--	--	3	3	NS	NS	NS
MEDIUM HYBRIDS																
--CHECK	MID - H2530	198	--	--	--	--	97	--	--	--	--	17	82	100	0	56
CARGILL	6327	189	--	--	--	--	92	--	--	--	--	18	79	100	0.7	55
HORIZON	7878	217	175	215	196	203	106	94	97	18	87	18	83	99	0	54
CARGILL	7697	216	195	233	205	215	105	104	105	19	85	19	81	98	0.7	57
CARGILL	7777	216	--	--	--	--	106	--	--	--	--	20	83	99	0.4	55
PIONEER	3346	217	209	--	213	--	106	111	--	21	86	20	83	101	0	57
TRIUMPH	1324	208	--	--	--	--	101	--	--	--	--	20	83	101	0	54
CARGILL	7557	185	--	--	--	--	90	--	--	--	--	20	84	99	0	58
WILSON	E4514 EXP	210	--	--	--	--	102	--	--	--	--	21	82	98	0	54
BO-JAC	602	223	--	--	--	--	109	--	--	--	--	22	83	98	0	54
AGRIPRO	AP 670	196	--	--	--	--	96	--	--	--	--	22	84	97	0	54
CASTERLINE	CX1222	189	200	229	195	206	92	107	103	22	87	22	84	99	0	55
ASGROW	RX801	214	--	--	--	--	104	--	--	--	--	22	86	98	0	54
DEKALB	DK652	219	--	--	--	--	107	--	--	--	--	23	85	97	0	52
TRIUMPH	1452	165	202	--	183	--	80	108	--	21	88	23	86	100	0	53
NC+	5037	208	--	--	--	--	101	--	--	--	--	24	86	101	0	52
HORIZON	7711	217	187	--	202	--	106	100	--	22	90	24	87	102	0	52
PIONEER	3225	220	--	--	--	--	107	--	--	--	--	25	84	99	0	55
PIONEER	3162	227	204	245	216	225	111	109	110	25	85	26	82	99	0.7	55
MYCOGEN	ORO 142	170	205	--	188	--	83	109	--	26	91	28	89	97	0.4	52
Averages		205	188	222	196	205	100	100	100	21	87	22	84	99	0.1	54
C.V.(%)		9	--	--	--	--	9	--	--	--	--	9	2	3	338	2
L.S.D.(.05)*		26	17	23	--	--	13	9	11	--	--	2	2	NS	NS	1

(continued)

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TABLE 14. GREELEY CO. IRR. STANDARD CORN PERFORMANCE TEST RESULTS, 1992-94.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-94		1994				
BRAND	HYBRID	1994	1993	1992	2-Yr. AVG.	3-Yr. AVG	1994	1993	1992	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Test Wt. lb/bu
LATE HYBRIDS																
--CHECK	FULL - NEB. 611	177	151	217	164	182	89	81	98	18	87	19	83	100	0.4	53
--CHECK	FULL-B73XMO17	197	176	217	187	197	98	94	98	20	88	21	84	101	0	53
CROW'S	667	204	192	240	198	212	102	102	108	21	87	22	82	98	0.7	54
CASTERLINE	CX1237	191	194	247	192	211	95	104	111	22	87	22	84	97	0	55
STINE	1179	232	--	--	--	--	116	--	--	--	--	23	81	100	0.4	53
DELTAPINE	G-4673B	219	205	231	212	218	109	109	104	22	88	23	84	97	0.4	54
ICI	8281	200	--	--	--	--	100	--	--	--	--	23	85	98	0	52
HYPERFORMER	HS 9843	205	209	208	207	207	102	111	94	24	89	23	86	97	0	53
CARGILL	7997	221	186	232	204	213	110	99	104	22	86	24	83	97	0.8	53
DELTAPINE	4662	206	--	--	--	--	103	--	--	--	--	24	86	100	0	53
MYCOGEN	8240	172	--	--	--	--	86	--	--	--	--	24	86	101	0	52
CROW'S	668	193	191	--	192	--	97	102	--	24	90	24	87	96	0.4	52
CASTERLINE	CX1252	203	--	--	--	--	101	--	--	--	--	24	88	98	0	53
CASTERLINE	CX1253	206	204	212	205	208	103	109	96	25	89	25	85	98	0	52
CARGILL	8327	222	194	--	208	--	111	103	--	24	89	25	86	99	0.4	52
DELTAPINE	4581	208	213	235	211	219	104	114	106	24	91	25	88	98	0	53
HYPERFORMER	HS 9848	184	185	--	185	--	92	99	--	24	91	26	89	96	0.4	52
ASGROW	RX897	186	--	--	--	--	93	--	--	--	--	27	87	101	0	52
CROW'S	702	180	--	--	--	--	90	--	--	--	--	28	85	96	0.4	51
Averages		200	188	222	194	203	100	100	100	22	88	24	85	98	0.2	53
C.V.(%)		9	--	--	--	--	9	--	--	--	--	9	2	3	304	2
L.S.D.(.05)*		26	17	23	--	--	13	9	11	--	--	2	2	NS	NS	1
ALL HYBRIDS																
Test Averages		195	188	222	192	202	100	100	100	--	--	21	83	98	0.3	54
C.V.(%)		10	--	--	--	--	10	--	--	--	--	10	2	3	300	2
L.S.D.(.05)**		28	17	23	--	--	5	9	11	--	--	3	3	NS	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.

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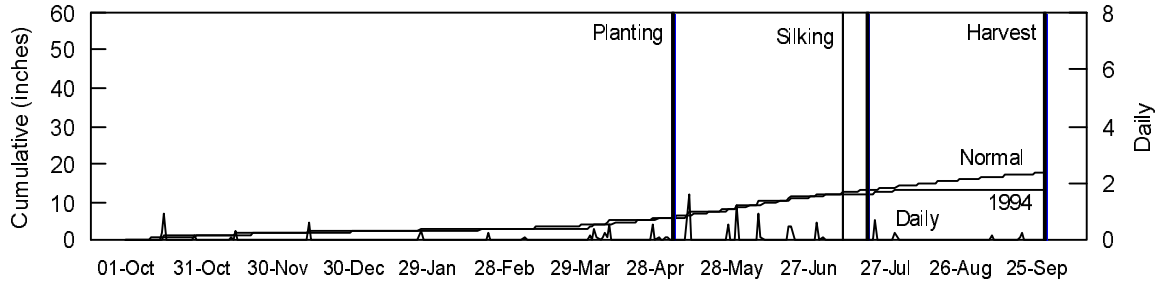
SOUTHWESTERN KANSAS STANDARD CORN TEST IRRIGATED

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 1993, corn in 1992
FERTILIZATION: 180 lbs N/acre preplant
PLANTING DATE: May 5
HARVEST DATE: October 12
PEST CONTROL: Good
Counter and Prowl/Bladex at planting
POPULATION: 27,878 plants/acre, 7.5 in. spacing
IRRIGATION: Prewatered plus 5 in. applied on 6/22, 7/1, 7/19, 8/5, and 8/24

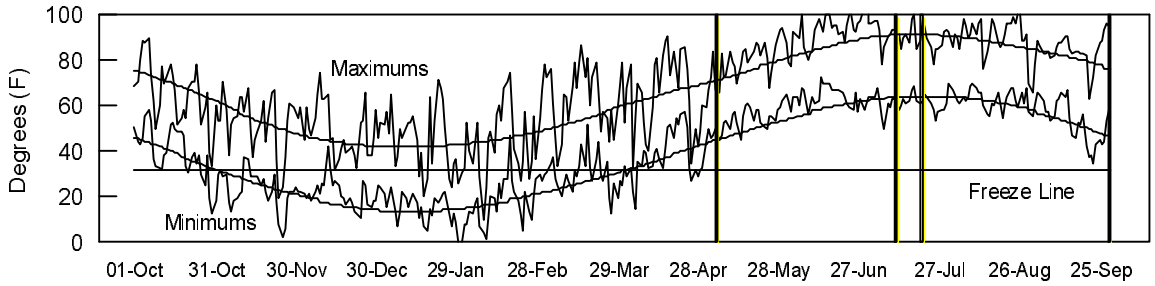
	EARLY	MEDIUM	LATE	ALL
STAND (%): Not counted but appeared adequate				
TEST YIELDS:				
Avg. (bu/a):	197	193	194	193
Range (bu/a):	170-214	170-232	167-227	167-232
L.S.D. (bu/a):	25.1	25.1	26.8	26.3
C.V. (%):	7.4	8.0	8.5	8.5
SILK DATES:	7/11-7/15	7/14-7/18	7/13-7/21	7/11-7/21

1994 GROWING CONDITIONS:
A mild summer with favorable growing conditions enabled the production of good yields. Insect and disease damage was minimal.

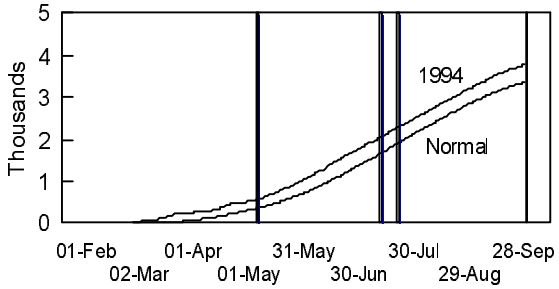
PRECIPITATION



DAILY TEMPERATURES



GROWING DEGREE DAYS



GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1994	Normal	1994	Normal	1994	Normal
April	2.5	1.7	52	51	264	229
May	3.6	2.9	67	62	518	410
June	2.0	2.9	78	72	735	656
July	1.5	2.5	76	78	729	771
August	0.2	2.2	77	75	735	736
Sep.	0.5	1.5	69	67	564	492
Season Totals	10.2	13.8	70	68	3545	3294

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TABLE 15. FINNEY CO. IRR. STANDARD CORN PERFORMANCE TEST RESULTS, 1992-94.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-94		1994			
					2-Yr.	3-Yr.				Mois-ture	Days to	Mois-ture	Days to	Drop. Ear	Plant Ht.
BRAND	HYBRID	1994	1993	1992	AVG.	AVG	1994	1993	1992	%	Silk	%	Silk	%	in.
EARLY HYBRIDS															
--CHECK	SHORT - C4327	206	--	--	--	--	105	--	--	--	--	14	68	2.8	97
DELTAPINE	4450	214	203	--	208	--	109	100	--	17	72	14	71	0	95
ASGROW	RX623	170	--	--	--	--	87	--	--	--	--	15	67	0	91
Averages		197	202	239	199	212	100	100	100	18	72	14	69	0.9	94
C.V.(%)		7	--	--	--	--	7	--	--	--	--	3	2	150	2
L.S.D.(.05)*		25	24	27	--	--	13	12	11	--	--	NS	2	NS	3
MEDIUM HYBRIDS															
PIONEER	3346	172	197	--	184	--	89	97	--	18	71	14	70	0	92
--CHECK	MID - H2530	208	--	--	--	--	107	--	--	--	--	14	71	0	95
DSS	4114 EXP	185	--	--	--	--	95	--	--	--	--	14	71	0.9	98
PIONEER	3245	208	225	238	216	224	108	111	100	17	74	14	72	0.5	94
CARGILL	7777	193	--	--	--	--	100	--	--	--	--	15	70	0.5	100
CARGILL	7877	194	201	236	197	210	100	100	99	18	71	15	70	0.5	99
OTTILIE	2448	183	--	--	--	--	95	--	--	--	--	15	70	0.5	99
CARGILL	7557	192	--	--	--	--	99	--	--	--	--	15	71	1.4	95
COOP	7820	179	--	--	--	--	92	--	--	--	--	15	71	0	100
DSS	4111 EXP	172	--	--	--	--	89	--	--	--	--	15	71	0.5	97
GOLDEN HARVEST	H-2573	194	--	--	--	--	100	--	--	--	--	15	71	0	100
GOLDEN HARVEST	H-2530	185	192	--	188	--	95	95	--	17	72	15	71	0.5	99
HOEGEMEYER	2685	170	--	--	--	--	88	--	--	--	--	15	71	0.5	97
DEKALB	DK646	192	228	245	210	222	99	113	103	18	73	15	72	0.5	101
HORIZON	7711	202	208	--	205	--	104	103	--	18	74	15	72	0	93
DSS	4116 EXP	191	--	--	--	--	99	--	--	--	--	15	73	0	100
NC+	5037	208	197	--	202	--	107	98	--	18	74	15	73	1.4	95
ASGROW	RX770	198	--	--	--	--	102	--	--	--	--	16	70	0.5	98
ASGROW	RX747	193	--	--	--	--	100	--	--	--	--	16	70	0.5	92
CARGILL	7697	173	210	248	192	210	90	104	104	18	71	16	70	0.9	100
GOLDEN HARVEST	EX 424 EXP	197	--	--	--	--	102	--	--	--	--	16	71	1.4	103
NORTHRUP-KING	N7590	204	--	--	--	--	106	--	--	--	--	16	71	0.9	96
OTTILIE	2482	210	--	--	--	--	109	--	--	--	--	16	71	0.5	101
PIONEER	3225	232	--	--	--	--	120	--	--	--	--	16	71	0.5	95
DEKALB	DK652	200	--	--	--	--	104	--	--	--	--	16	72	0.9	96
HYPERFORMER	HS 9502	195	197	254	196	215	101	97	107	18	74	16	72	0	94
OHLDE	X340 EXP	184	--	--	--	--	95	--	--	--	--	16	72	0.9	94
OTTILIE	2476	197	--	--	--	--	102	--	--	--	--	16	72	0	101
OTTILIE	2446	199	200	259	199	219	103	99	109	18	74	16	72	0	93
TRIUMPH	1452	199	209	--	204	--	103	103	--	18	74	16	72	0.5	93
STINE	1118	175	--	--	--	--	91	--	--	--	--	16	73	0.5	96
COOP	2315WC	183	202	271	193	219	95	100	114	20	73	17	72	0	99
KAYSTAR	KX - 909	187	--	--	--	--	96	--	--	--	--	17	72	0.5	99
ASGROW	RX801	196	180	--	188	--	101	89	--	20	75	17	73	0.5	102
MYCOGEN	ORO 142	220	213	--	216	--	114	105	--	20	76	17	73	1.9	100
OHLDE	X370 EXP	181	--	--	--	--	94	--	--	--	--	17	73	0.5	104
OTTILIE	2483	200	187	250	193	212	103	93	105	20	76	17	73	0	99
OHLDE	300	205	208	258	207	224	106	103	108	20	76	17	74	0.5	98
OHLDE	X1598 EXP	186	199	--	192	--	96	98	--	19	76	17	74	0.5	101
PIONEER	3162	197	211	241	204	216	102	104	101	21	72	18	71	0.5	95
Averages		193	202	239	198	211	100	100	100	19	74	16	72	0.5	98
C.V.(%)		8	--	--	--	--	8	--	--	--	--	5	1	186	2
L.S.D.(.05)*		25	24	27	--	--	13	12	11	--	--	1	1	NS	3

(continued)

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		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-94		1994			
					2-Yr.	3-Yr.				Mois-	Days	Mois-	Days	Drop.	Plant
BRAND	HYBRID	1994	1993	1992	AVG.	AVG	1994	1993	1992	ture %	to Silk	ture %	to Silk	Ear %	Ht. in.
LATE HYBRIDS															
STINE	1179	189	--	--	--	--	98	--	--	--	--	16	69	1.4	96
CARGILL	7997	180	193	238	187	204	93	96	100	18	72	16	70	0	97
--CHECK	FULL-B73XMO17	178	197	227	188	201	92	98	95	19	73	16	71	0.5	104
HYPERFORMER	HS 9822	193	183	--	188	--	99	91	--	20	75	16	72	0.5	102
--CHECK	FULL - NEB. 611	173	183	238	178	198	89	91	100	19	73	17	71	2.8	97
DELTAPINE	G-4673B	207	225	254	216	229	107	111	106	19	73	17	71	0.9	102
NC+	6414	192	209	232	200	211	99	103	97	19	73	17	71	0.5	98
AGRIPRO	AP 758	219	--	--	--	--	113	--	--	--	--	17	72	0.5	101
CARGILL	8327	211	218	--	214	--	109	108	--	20	75	17	72	0.9	99
CARGILL	X9304 EXP	191	--	--	--	--	99	--	--	--	--	17	72	0.5	101
HYPERFORMER	HS 9843	167	203	242	185	204	86	100	101	20	74	17	72	0	100
HYPERFORMER	HS 9848	192	179	--	186	--	99	89	--	21	76	17	72	0	101
ICI	8285	179	--	--	--	--	92	--	--	--	--	17	72	0.5	102
OTTILIE	2562	167	231	--	199	--	86	114	--	19	74	17	72	0.9	101
TRIUMPH	2010	200	228	--	214	--	103	113	--	19	74	17	72	1.4	100
ASGROW	RX899	207	201	236	204	214	106	99	99	20	75	17	73	1.4	100
COOP	2345	182	219	269	200	223	94	108	113	19	74	17	73	0.5	100
HOEGEMEYER	2761	196	226	--	211	--	101	112	--	20	75	17	73	0	98
HORIZON	LG2632	216	--	--	--	--	111	--	--	--	--	17	73	0.9	95
ICI	8281	184	--	--	--	--	95	--	--	--	--	17	73	0.5	97
MYCOGEN	8240	219	219	--	219	--	113	108	--	20	75	17	73	0	98
OHLDE	510	209	233	227	221	223	108	115	95	19	74	17	73	0	100
CASTERLINE	CX1253	190	206	250	198	216	98	102	105	20	76	17	74	0	101
MYCOGEN	7885	187	176	--	182	--	96	87	--	20	77	17	74	0.5	102
NC+	7117	196	--	--	--	--	101	--	--	--	--	17	74	0.5	100
OHLDE	373	182	201	--	191	--	94	99	--	20	77	17	74	0	102
WILSON	1910	227	219	246	223	231	117	108	103	20	73	18	71	0	89
DELTAPINE	4662	198	243	256	220	232	102	120	108	20	74	18	72	1.4	99
ICI	8272	189	216	253	202	219	98	107	106	20	74	18	72	0.9	94
ASGROW	RX897	193	--	--	--	--	99	--	--	--	--	18	73	0	101
AGRIPRO	AP 697	178	202	--	190	--	92	100	--	21	76	18	74	0.5	99
CASTERLINE	CX1252	195	--	--	--	--	101	--	--	--	--	18	74	0	102
DELTAPINE	4581	187	220	262	203	223	97	109	110	21	76	18	74	0.5	99
HOEGEMEYER	2775	178	--	--	--	--	92	--	--	--	--	18	74	0.9	103
DEKALB	DK715	226	230	255	228	237	117	114	107	21	73	19	72	0.5	101
WILSON	DEMAND 119	199	--	--	--	--	103	--	--	--	--	19	74	0.9	92
WILSON	2330	224	205	242	215	224	116	101	101	22	77	19	74	0.5	100
WILSON	DEMAND 118	171	--	--	--	--	88	--	--	--	--	20	77	0.9	100
Averages		194	202	239	198	212	100	100	100	20	74	17	73	0.6	99
C.V.(%)		9	--	--	--	--	9	--	--	--	--	5	2	170	2
L.S.D.(.05)*		27	24	27	--	--	14	12	11	--	--	1	2	NS	3
ALL HYBRIDS															
Test Averages		193	202	239	198	211	100	100	100	--	--	16	72	0.6	98
C.V.(%)		8	--	--	--	--	8	--	--	--	--	5	1	175	2
L.S.D.(.05)**		26	24	27	--	--	13	12	11	--	--	1	2	NS	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.

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TABLE 16. YIELD AS PERCENT OF TEST AVERAGE FROM STANDARD CORN TESTS, 1994.

		DRYLAND TESTS											IRRIGATED TESTS							ALL	
		COUNTY									Hyb	No.	COUNTY					Hyb	No.	Hyb	No.
BRAND	HYBRID	DP	BR	RL	SN	FR	NO	RP	TH	GL	Avg	Tst.	RP	SF	TH	GL	FI	Avg	Tst.	Avg	Tst.
EARLY HYBRIDS																					
--CHECK	SHORT - C4327	101	102	103	--	85	65	107	110	--	96	7	105	90	92	103	105	99	5	97	12
AGRIPRO	AP 588	--	--	--	--	--	--	--	--	--	--	0	--	--	100	102	--	101	2	101	2
ASGROW	RX623	--	--	--	--	--	93	97	99	106	99	4	--	101	--	--	87	94	2	97	6
BO-JAC	135	--	94	107	--	--	--	--	95	75	93	4	--	--	--	79	--	79	1	90	5
BO-JAC	386	--	--	--	--	--	--	--	--	--	--	0	--	--	91	86	--	89	2	89	2
BO-JAC	438	94	98	107	--	--	--	--	104	106	102	5	--	--	104	111	--	108	2	103	7
CASTERLINE	C 1191	--	--	--	--	--	--	--	89	93	91	2	--	--	--	--	--	--	0	91	2
DEKALB	DK512	--	--	--	--	--	--	--	--	--	--	0	--	--	95	--	--	95	1	95	1
DEKALB	DK564	--	--	--	--	--	--	--	--	--	--	0	106	--	91	--	--	99	2	99	2
DEKALB	DK580	--	--	--	--	--	--	107	--	--	107	1	--	--	--	--	--	--	0	107	1
DEKALB	DK591	108	100	107	--	103	--	119	--	--	107	5	113	--	--	108	--	111	2	108	7
DELTAPINE	4450	93	101	--	--	--	--	--	--	--	97	2	103	--	106	106	109	106	4	103	6
HAWKEYE	SX53	--	--	--	--	--	--	--	--	--	--	0	92	--	--	--	--	92	1	92	1
HYPERFORMER	HS 9484	90	97	--	--	--	--	--	--	--	94	2	--	--	105	--	--	105	1	97	3
HYPERFORMER	HY 9475	94	104	--	--	--	--	--	--	--	99	2	--	--	--	--	--	--	0	99	2
HYPERFORMER	HY 9487	105	95	--	--	--	--	--	--	--	100	2	79	--	--	--	--	79	1	93	3
ICI	8543	--	104	--	--	--	--	--	--	--	104	1	--	--	106	--	--	106	1	105	2
LEWIS	5584	108	110	--	--	--	--	--	--	--	109	2	--	--	--	--	--	--	0	109	2
MILLER	MP-1091	--	--	--	--	--	--	--	--	--	--	0	--	--	107	--	--	107	1	107	1
NORTHRUP-KING	N4242	--	--	--	--	--	--	81	--	--	81	1	--	--	--	--	--	--	0	81	1
NORTHRUP-KING	N6330	--	--	--	--	--	--	--	--	--	--	0	--	110	105	--	--	108	2	108	2
OHLDE	097	--	--	--	--	--	--	--	--	--	--	0	--	--	--	83	--	83	1	83	1
OHLDE	104	--	93	89	--	--	--	91	--	--	91	3	87	--	100	104	--	97	3	94	6
OHLDE	310	92	--	--	--	--	--	--	--	--	92	1	--	--	101	107	--	104	2	100	3
OHLDE	312	107	--	--	--	--	--	--	--	--	107	1	--	--	108	--	--	108	1	108	2
OHLDE	X218 EXP	--	--	--	--	--	--	--	--	--	--	0	--	--	93	110	--	102	2	102	2
OTTILIE	2438	--	--	--	--	--	--	--	99	--	99	1	--	--	--	--	--	--	0	99	1
OTTILIE	2443	--	--	--	--	--	--	--	--	--	--	0	--	--	96	--	--	96	1	96	1
PATRIOT	5093	--	101	--	--	--	--	--	--	--	101	1	--	--	--	--	--	--	0	101	1
PATRIOT	5105	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	0	--	0
PATRIOT	5108	--	--	99	--	--	--	--	--	--	99	1	--	--	--	--	--	--	0	99	1
PIONEER	3394	108	--	--	--	112	126	--	--	--	115	3	115	--	103	--	--	109	2	113	5
PIONEER	3489	--	--	--	--	--	116	--	--	--	116	1	--	--	--	--	--	--	0	116	1
STINE	1059	--	--	--	--	--	--	--	--	--	--	0	101	--	--	--	--	101	1	101	1
STINE	1076	--	--	88	--	--	--	--	--	--	88	1	--	--	--	--	--	--	0	88	1
Averages, %		100	100	100	--	100	100	100	100	100	--	--	100	100	100	100	100	--	--	--	--
C.V.%		7	6	8	--	10	7	3	11	9	--	--	6	11	4	13	7	--	--	--	--
L.S.D.(.05)*		9	7	10	--	14	10	4	16	11	--	--	9	15	5	19	13	--	--	--	--
MEDIUM HYBRIDS																					
--CHECK	MID - H2530	89	91	103	52	97	93	90	95	92	89	9	103	98	93	97	107	100	5	93	14
AGRIPRO	AP 670	--	--	--	--	--	--	--	--	--	--	0	--	--	95	96	--	96	2	96	2
ASGROW	RX747	98	99	--	--	100	93	89	--	--	96	5	--	--	--	--	100	100	1	97	6
ASGROW	RX770	--	--	--	--	--	--	87	105	--	96	2	--	88	--	--	102	95	2	96	4
ASGROW	RX801	--	--	--	--	--	109	--	--	93	101	2	100	102	100	104	101	101	5	101	7
BO-JAC	520	96	--	--	--	98	--	--	--	--	97	2	--	--	--	--	--	--	0	97	2
BO-JAC	577	97	--	103	107	102	--	--	97	114	103	6	--	--	102	--	--	102	1	103	7
BO-JAC	602	--	--	--	--	99	--	--	--	--	99	1	--	--	99	109	--	104	2	102	3
CARGILL	6327	--	--	--	--	96	78	--	--	--	87	2	--	--	101	92	--	97	2	92	4
CARGILL	7557	--	95	--	--	--	--	--	--	--	95	1	--	97	99	90	99	96	4	96	5
CARGILL	7697	--	98	--	--	93	88	--	--	--	93	3	106	--	98	105	90	100	4	97	7
CARGILL	7777	102	107	118	107	101	95	125	--	--	108	7	98	103	107	106	100	103	5	106	12

(continued)

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		DRYLAND TESTS											IRRIGATED TESTS							ALL	
		COUNTY									Hyb	No.	COUNTY					Hyb	No.	Hyb	No.
BRAND	HYBRID	DP	BR	RL	SN	FR	NO	RP	TH	GL	Avg	Tst.	RP	SF	TH	GL	FI	Avg	Tst.	Avg	Tst.
CARGILL	7877	102	--	--	--	--	--	--	--	--	102	1	--	89	101	--	100	97	3	98	4
CASTERLINE	CX1222	--	--	--	--	--	--	--	--	--	--	0	--	91	--	92	--	92	2	92	2
COOP	2315WC	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	95	95	1	95	1
COOP	7820	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	92	92	1	92	1
CROW'S	490	--	--	94	--	--	--	--	--	--	94	1	--	--	--	--	--	--	0	94	1
CROW'S	510	--	--	--	--	--	--	--	--	--	--	0	--	--	104	--	--	104	1	104	1
DEKALB	DK626	--	--	--	114	--	--	--	--	--	114	1	107	--	--	--	--	107	1	111	2
DEKALB	DK646	111	106	--	--	108	--	--	--	--	108	3	--	95	--	--	99	97	2	104	5
DEKALB	DK652	95	--	--	--	--	--	--	--	--	95	1	112	--	109	107	104	108	4	105	5
DELANGE	DS 1995	--	--	--	--	98	122	--	--	--	110	2	--	106	--	--	--	106	1	109	3
DSS	4111 EXP	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	89	89	1	89	1
DSS	4114 EXP	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	95	95	1	95	1
DSS	4116 EXP	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	99	99	1	99	1
FONTANELLE	4372	--	94	--	96	--	--	--	--	--	95	2	--	--	--	--	--	--	0	95	2
FONTANELLE	5222	97	--	--	103	--	--	--	--	--	100	2	--	--	--	--	--	--	0	100	2
FONTANELLE	5424	104	99	--	101	--	--	100	--	--	101	4	--	--	--	--	--	--	0	101	4
GOLDEN HARVEST	EX 424 EXP	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	102	102	1	102	1
GOLDEN HARVEST	H-2493	--	--	--	--	--	--	--	--	--	--	0	--	--	95	--	--	95	1	95	1
GOLDEN HARVEST	H-2530	94	96	99	--	--	100	--	--	--	97	4	99	95	91	--	95	95	4	96	8
GOLDEN HARVEST	H-2573	96	104	--	--	--	99	--	--	--	100	3	98	--	--	--	100	99	2	99	5
HAWKEYE	7378	--	111	--	--	--	--	--	--	--	111	1	--	--	--	--	--	--	0	111	1
HAWKEYE	8179	117	--	--	--	--	--	--	--	--	117	1	102	--	--	--	--	102	1	110	2
HAWKEYE	8981	--	112	--	--	--	--	--	--	--	112	1	--	--	--	--	--	--	0	112	1
HAWKEYE	SX59	99	--	--	--	--	--	--	--	--	99	1	--	--	--	--	--	--	0	99	1
HOEGEMEYER	2655	--	--	--	--	--	--	--	--	--	--	0	102	--	--	--	--	102	1	102	1
HOEGEMEYER	2676	--	--	--	--	106	--	--	--	--	106	1	--	--	--	--	--	--	0	106	1
HOEGEMEYER	2685	95	101	--	--	--	--	--	--	--	98	2	90	--	--	--	88	89	2	94	4
HOEGEMEYER	2712	--	--	--	--	--	--	--	--	--	--	0	78	--	--	--	--	78	1	78	1
HORIZON	7711	--	--	--	--	--	--	--	--	--	--	0	--	113	103	106	104	107	4	107	4
HORIZON	7878	--	--	--	--	--	--	--	--	--	--	0	--	--	92	106	--	99	2	99	2
HYPERFORMER	HS 9502	--	--	--	--	--	--	--	--	--	--	0	106	106	101	--	101	104	4	104	4
HYPERFORMER	HY 9610	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	0	--	0
ICI	8310	--	--	--	--	--	--	--	--	--	--	0	--	--	100	--	--	100	1	100	1
ICI	8326	91	--	--	--	--	--	--	--	--	91	1	--	--	--	--	--	--	0	91	1
KAYSTAR	KX - 909	--	--	--	--	--	--	--	--	--	--	0	88	--	91	--	96	92	3	92	3
MIDWEST	G 8445	87	--	--	--	--	--	--	--	--	87	1	--	--	--	--	--	--	0	87	1
MILLER	MP-1111	--	--	--	--	--	--	--	--	--	--	0	--	--	94	--	--	94	1	94	1
MILLER	MP-1130	--	--	--	--	--	--	--	--	--	--	0	--	--	100	--	--	100	1	100	1
MYCOGEN	ORO 142	105	--	--	--	--	--	--	--	--	105	1	98	105	104	83	114	101	5	102	6
NC+	5037	--	95	--	--	--	--	--	100	--	98	2	108	101	105	101	107	104	5	102	7
NC+	5514	--	--	--	--	--	--	--	112	--	112	1	--	--	99	--	--	99	1	106	2
NORTHRUP-KING	N6822	--	--	--	--	103	101	82	--	--	95	3	--	--	--	--	--	--	0	95	3
NORTHRUP-KING	N7333	105	101	--	99	103	97	--	--	--	101	5	104	--	101	--	--	103	2	101	7
NORTHRUP-KING	N7590	--	--	--	--	--	--	--	--	--	--	0	96	99	96	--	106	99	4	99	4
OHLDE	300	103	99	80	--	96	112	--	--	--	98	5	98	105	103	--	106	103	4	100	9
OHLDE	X1598 EXP	--	--	--	--	--	--	--	--	--	--	0	--	109	--	--	96	103	2	103	2
OHLDE	X331 EXP	102	--	--	--	110	--	--	--	--	106	2	98	--	111	--	--	105	2	105	4
OHLDE	X332 EXP	108	--	--	--	95	--	--	--	--	102	2	--	--	94	--	--	94	1	99	3
OHLDE	X340 EXP	101	--	107	--	104	--	--	--	--	104	3	108	103	100	--	95	102	4	103	7
OHLDE	X370 EXP	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	94	94	1	94	1
OTTILIE	2446	--	--	--	--	--	--	--	--	--	--	0	--	--	103	--	103	103	2	103	2
OTTILIE	2448	--	--	--	--	--	--	--	--	--	--	0	74	--	97	--	95	89	3	89	3
OTTILIE	2476	--	--	--	--	--	--	--	--	--	--	0	--	--	109	--	102	106	2	106	2
OTTILIE	2482	--	--	--	--	--	--	--	--	--	--	0	101	--	98	--	109	103	3	103	3

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		DRYLAND TESTS											IRRIGATED TESTS							ALL	
		COUNTY									Hyb	No.	COUNTY					Hyb	No.	Hyb	No.
BRAND	HYBRID	DP	BR	RL	SN	FR	NO	RP	TH	GL	Avg	Tst.	RP	SF	TH	GL	FI	Avg	Tst.	Avg	Tst.
OTTILIE	2483	--	--	--	--	--	--	--	--	--	--	0	96	--	103	--	103	101	3	101	3
PATRIOT	5115	--	--	--	104	--	--	--	--	--	104	1	--	--	--	--	--	--	0	104	1
PATRIOT	5118	--	--	97	109	--	--	--	--	--	103	2	--	--	--	--	--	--	0	103	2
PATRIOT	6140A	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	0	--	0
PATRIOT	6147	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	0	--	0
PATRIOT	6155	--	98	--	--	--	--	--	--	--	98	1	--	--	--	--	--	--	0	98	1
PIONEER	3162	100	--	--	--	--	--	--	--	--	100	1	110	100	109	111	102	106	5	105	6
PIONEER	3225	106	--	--	--	--	--	--	--	--	106	1	116	103	107	107	120	111	5	110	6
PIONEER	3245	--	95	--	--	--	--	--	--	--	95	1	--	--	--	--	108	108	1	102	2
PIONEER	3279	--	102	--	102	102	--	120	--	--	107	4	--	--	--	--	--	--	0	107	4
PIONEER	3346	--	102	--	98	94	--	120	--	--	104	4	106	97	94	106	89	98	5	101	9
STINE	1118	--	98	--	--	--	--	--	--	--	98	1	100	110	--	--	91	100	3	100	4
STINE	1154	--	--	--	--	95	--	86	--	--	91	2	--	--	--	--	--	--	0	91	2
TERRA	TR 641	--	--	--	--	--	105	--	--	--	105	1	--	79	--	--	--	79	1	92	2
TRIUMPH	1324	100	--	--	--	100	--	--	--	--	100	2	--	--	94	101	--	98	2	99	4
TRIUMPH	1452	--	--	--	107	--	107	102	--	--	105	3	--	104	--	80	103	96	3	101	6
WILSON	E4514 EXP	--	--	--	--	--	--	--	--	--	--	0	--	--	--	102	--	102	1	102	1
Averages, %		100	100	100	100	100	100	100	100	100	--	--	100	100	100	100	100	--	--	--	--
C.V.%		9	6	9	12	8	7	8	11	9	--	--	8	7	4	9	8	--	--	--	--
L.S.D.(.05)*		10	7	11	15	9	8	10	16	11	--	--	11	9	4	13	13	--	--	--	--
LATE HYBRIDS																					
--CHECK	FULL - NEB. 611	82	89	112	129	101	88	93	99	107	100	9	109	86	88	89	89	92	5	97	14
--CHECK	FULL-B73XMO17	92	93	103	115	104	85	104	83	110	99	9	100	83	93	98	92	93	5	97	14
AGRIPRO	AP 697	--	--	--	--	--	--	--	--	--	--	0	--	97	--	--	92	95	2	95	2
AGRIPRO	AP 758	--	--	--	--	--	--	--	--	--	--	0	--	109	--	--	113	111	2	111	2
ASGROW	RX897	104	107	--	--	103	--	--	--	--	105	3	96	105	102	93	99	99	5	101	8
ASGROW	RX899	109	100	--	--	102	--	--	--	--	104	3	--	--	--	--	106	106	1	104	4
BO-JAC	615	107	--	95	--	94	--	--	--	--	99	3	--	--	--	--	--	--	0	99	3
CARGILL	7997	96	101	--	104	100	85	--	--	--	97	5	112	82	95	110	93	98	5	98	10
CARGILL	8327	108	107	--	--	94	105	--	--	--	104	4	92	107	102	111	109	104	5	104	9
CARGILL	X9304 EXP	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	99	99	1	99	1
CASTERLINE	CX1237	--	--	--	--	--	--	--	113	111	112	2	--	--	--	95	--	95	1	106	3
CASTERLINE	CX1252	--	--	--	--	--	--	--	--	--	--	0	--	100	106	101	101	102	4	102	4
CASTERLINE	CX1253	--	--	--	--	--	--	--	--	--	--	0	--	99	100	103	98	100	4	100	4
COOP	2345	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	94	94	1	94	1
CROW'S	667	96	--	109	--	--	--	--	--	--	103	2	110	--	--	102	--	106	2	104	4
CROW'S	668	108	--	--	--	--	--	--	--	--	108	1	98	--	102	97	--	99	3	101	4
CROW'S	702	--	--	--	--	--	--	--	--	--	--	0	--	--	82	90	--	86	2	86	2
DEKALB	DK671	--	--	--	--	106	--	--	--	--	106	1	--	--	--	--	--	--	0	106	1
DEKALB	DK683	--	--	--	--	--	--	--	--	--	--	0	--	101	--	--	--	101	1	101	1
DEKALB	DK715	--	--	--	--	--	--	--	--	--	--	0	118	85	98	--	117	105	4	105	4
DELTAPINE	4581	101	98	--	--	96	100	--	--	--	99	4	105	105	105	104	97	103	5	101	9
DELTAPINE	4662	--	--	--	--	--	--	--	--	--	--	0	--	101	109	103	102	104	4	104	4
DELTAPINE	G-4673B	104	102	79	--	110	99	--	--	--	99	5	--	98	105	109	107	105	4	101	9
FONTANELLE	6162	113	--	--	--	114	--	113	--	--	113	3	--	--	--	--	--	--	0	113	3
FONTANELLE	6340	--	106	--	--	--	--	--	--	--	106	1	--	--	--	--	--	--	0	106	1
GOLDEN HARVEST	H-2641	--	107	--	--	--	--	--	--	--	107	1	86	106	--	--	--	96	2	100	3
HOEGEMEYER	2689	--	97	--	--	--	--	--	--	--	97	1	--	--	--	--	--	--	0	97	1
HOEGEMEYER	2761	108	105	--	--	102	--	--	--	--	105	3	--	--	--	--	101	101	1	104	4
HOEGEMEYER	2775	106	--	--	--	102	--	--	--	--	104	2	--	--	--	--	92	92	1	100	3
HORIZON	LG2632	--	--	--	--	--	--	--	--	--	--	0	--	97	--	--	111	104	2	104	2

(continued)

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TABLE 16. YIELD AS PERCENT OF TEST AVERAGE FROM STANDARD CORN TESTS, 1994.

		DRYLAND TESTS											IRRIGATED TESTS							ALL	
		COUNTY									Hyb	No.	COUNTY					Hyb	No.	Hyb	No.
BRAND	HYBRID	DP	BR	RL	SN	FR	NO	RP	TH	GL	Avg	Tst.	RP	SF	TH	GL	FI	Avg	Tst.	Avg	Tst.
HYPERFORMER	HS 9704	111	91	--	--	--	--	--	--	--	101	2	--	--	--	--	--	--	0	101	2
HYPERFORMER	HS 9773	98	96	--	--	--	--	--	--	95	96	3	--	--	--	--	--	--	0	96	3
HYPERFORMER	HS 9822	--	--	--	--	--	--	--	--	--	--	0	--	100	106	--	99	102	3	102	3
HYPERFORMER	HS 9843	100	100	--	82	--	101	--	--	--	96	4	84	102	99	102	86	95	5	95	9
HYPERFORMER	HS 9848	--	--	--	--	--	--	--	--	--	--	0	107	103	102	92	99	101	5	101	5
ICI	8272	--	--	--	--	--	--	--	--	--	--	0	--	--	100	--	98	99	2	99	2
ICI	8281	--	96	120	--	101	97	--	--	--	104	4	113	105	--	100	95	103	4	103	8
ICI	8285	101	--	--	--	--	106	--	--	--	104	2	87	104	--	--	92	94	3	98	5
ICI	8315	--	--	--	--	88	--	--	--	--	88	1	--	--	--	--	--	--	0	88	1
LEWIS	8492	101	109	--	--	--	--	--	--	--	105	2	--	--	--	--	--	--	0	105	2
MIDWEST	G 8775	93	--	--	--	--	--	--	--	--	93	1	--	--	--	--	--	--	0	93	1
MYCOGEN	7885	91	95	--	--	100	109	--	--	--	99	4	--	106	95	--	96	99	3	99	7
MYCOGEN	8240	105	100	--	--	104	103	--	--	--	103	4	95	106	104	86	113	101	5	102	9
NC+	6414	--	--	--	--	97	--	--	--	--	97	1	--	--	--	--	99	99	1	98	2
NC+	6959	109	--	--	--	--	--	--	--	--	109	1	--	102	--	--	--	102	1	106	2
NC+	7117	--	--	--	--	98	--	--	--	--	98	1	--	99	--	--	101	100	2	99	3
NC+	7304	--	--	--	--	--	101	--	--	--	101	1	--	107	--	--	--	107	1	104	2
NC+	7507	--	99	--	--	--	--	--	--	--	99	1	--	--	--	--	--	--	0	99	1
NORTHRUP-KING	N7989	--	--	--	--	96	--	--	--	--	96	1	110	101	--	--	--	106	2	102	3
NORTHRUP-KING	N7992	101	100	--	--	--	--	--	--	--	101	2	--	--	--	--	--	--	0	101	2
NORTHRUP-KING	N8811	--	--	--	--	108	--	--	--	--	108	1	--	--	--	--	--	--	0	108	1
OHLDE	359	94	100	--	--	--	--	--	--	--	97	2	--	--	--	--	--	--	0	97	2
OHLDE	373	--	--	--	--	--	--	--	--	--	--	0	103	107	--	--	94	101	3	101	3
OHLDE	510	102	104	84	--	91	105	--	--	--	97	5	90	106	102	--	108	102	4	99	9
OTTILIE	2562	--	--	--	--	--	--	--	--	--	--	0	88	--	104	--	86	93	3	93	3
PATRIOT	1660	--	96	--	--	--	--	--	--	--	96	1	--	--	--	--	--	--	0	96	1
PATRIOT	2330	113	--	--	--	--	--	--	--	--	113	1	--	--	--	--	--	--	0	113	1
PATRIOT	6160	108	--	--	--	--	--	--	--	--	108	1	--	--	--	--	--	--	0	108	1
PATRIOT	7160	93	--	--	--	--	--	--	--	--	93	1	--	--	--	--	--	--	0	93	1
PATRIOT	7170	--	--	96	--	--	--	--	--	--	96	1	--	--	--	--	--	--	0	96	1
STINE	1161	--	--	--	--	--	101	--	--	--	101	1	--	--	--	--	--	--	0	101	1
STINE	1179	92	102	--	--	--	--	--	--	--	97	2	--	--	101	116	98	105	3	102	5
STINE	1180	91	--	--	--	--	--	--	--	--	91	1	--	--	--	--	--	--	0	91	1
STINE	1181	--	--	--	72	--	--	--	--	--	72	1	--	--	--	--	--	--	0	72	1
STINE	1220	--	--	--	--	96	92	--	--	--	94	2	--	--	--	--	--	--	0	94	2
TERRA	E1168 EXP	--	--	--	--	--	102	--	--	--	102	1	--	100	--	--	--	100	1	101	2
TERRA	TR 1167	--	--	--	--	--	111	--	--	--	111	1	--	103	--	--	--	103	1	107	2
TERRA	TR 1185	--	--	--	--	--	106	--	--	--	106	1	--	92	--	--	--	92	1	99	2
TERRA	TR 702E	--	--	--	--	--	106	--	--	--	106	1	--	100	--	--	--	100	1	103	2
TRIUMPH	2010	95	--	--	98	94	99	91	--	--	95	5	--	--	--	--	103	103	1	97	6
WILSON	1910	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	117	117	1	117	1
WILSON	2330	107	--	--	--	--	--	--	--	--	107	1	--	--	--	--	116	116	1	112	2
WILSON	DEMAND 118	83	--	--	--	--	--	--	--	--	83	1	--	--	--	--	88	88	1	86	2
WILSON	DEMAND 119	84	--	--	--	--	--	--	--	--	84	1	--	--	--	--	103	103	1	94	2
WILSON	E11961 EXP	98	--	--	--	--	--	--	--	--	98	1	--	--	--	--	--	--	0	98	1
Averages, %		100	100	100	100	100	100	100	100	100	--	--	100	100	100	100	100	--	--	--	--
C.V.%		10	6	11	16	8	5	5	11	9	--	--	9	8	5	9	9	--	--	--	--
L.S.D.(.05)*		12	7	14	22	9	6	7	16	11	--	--	13	10	6	13	14	--	--	--	--

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

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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 1993, corn in 1992
FERTILIZATION: 102 lbs N/acre preplant
48 lbs P_2O_5/acre preplant
24 lbs K_2O/acre preplant
PLANTING DATE: April 20
SILKING DATES: June 27 - July 5
HARVEST DATE: September 15
PEST CONTROL: Good
Bicep herbicide

POPULATION:
Desired: 20,000 plants/acre, 10.5 in. spacing
Thinned: Overplanted by 10%, not thinned
Final stand: 88% of desired
TEST YIELDS: Slightly variable
Average: 92 bu/acre
Range: 47 to 121 bu/acre
L.S.D.: 15.4 bu/acre
C.V.: 11.9%

1994 GROWING CONDITIONS:
Heavy rain and cold temperatures after planting reduced emergence and final stands for some hybrids. Those hybrids with lower stands tended to have lower yields as well. Dry weather during May and late June reduced yield potential. A windstorm in early June caused most plants to lean severely. Most hybrids were fully mature by mid to late August. (Weather data and graphs presented with standard test results, page 17).

TABLE 17. FRANKLIN CO. SHORT-SEASON CORN PERFORMANCE TEST RESULTS, 1992-94.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-94		1994					
BRAND	HYBRID	1994	1993	1992	2-Yr. AVG.	3-Yr. AVG	1994	1993	1992	Moisture %	Days to Silk	Moisture %	Days to Silk	Final Stnd %	Ears per Plnt	Lodging %	Test Wt. lb/bu
NORTHRUP KING	N3808	83	--	--	--	--	90	--	--	--	--	14	70	76	1	4.2	56
NORTHRUP KING	N4242	80	72	--	76	--	87	111	--	13	63	15	70	92	1	1.9	56
BO-JAC	135	91	--	--	--	--	99	--	--	--	--	15	72	87	1	0.5	56
-MATURITY CHECK	SHORT-C4327	101	73	158	87	111	110	113	115	13	65	15	73	100	0.9	2.6	55
PATRIOT	1140	97	--	--	--	--	106	--	--	--	--	15	73	99	1	2.2	56
CARGILL	3477	47	--	--	--	--	51	--	--	--	--	16	68	84	0.6	1.5	55
CARGILL	3777	72	--	--	--	--	78	--	--	--	--	16	70	93	0.8	2.9	57
GOLDEN HARVEST	H-2441	106	--	--	--	--	115	--	--	--	--	16	70	98	0.9	2.1	56
PIONEER	3737	87	53	154	70	98	95	81	111	14	65	16	72	88	1	1.5	55
CARGILL	4327	96	--	157	--	--	104	--	114	--	--	16	73	90	1	2.6	56
NC+	1991	100	65	--	82	--	109	99	--	13	65	16	73	94	1	1.9	56
-MATURITY CHECK	MID-H2530	110	--	--	--	--	120	--	--	--	--	16	74	91	0.9	0	54
DELTAPINE	G-4393	87	70	--	78	--	95	107	--	14	66	16	74	88	0.9	0.5	57
MYCOGEN	5440	94	--	--	--	--	102	--	--	--	--	16	74	66	1	0	53
PIONEER	3563	102	77	151	89	110	111	118	109	15	66	16	74	87	1	0.5	56
OHLDE	102	98	68	--	83	--	107	105	--	14	67	16	75	89	1.1	2.2	54
LEWIS	4284	86	--	--	--	--	94	--	--	--	--	16	76	85	1	0.5	55
GOLDEN HARVEST	H-2404	93	75	127	84	99	102	115	92	14	62	17	69	99	1	2.1	57
PIONEER	3769	63	--	--	--	--	69	--	--	--	--	17	69	64	0.9	4.5	55
GOLDEN HARVEST	H-2408	97	--	--	--	--	106	--	--	--	--	17	70	97	0.9	2.2	56
ICI	8599	109	65	145	87	106	118	99	105	15	66	17	73	90	1.1	2	55
OHLDE	097	78	--	--	--	--	85	--	--	--	--	17	73	86	1	1.6	56
PATRIOT	3960	65	--	--	--	--	70	--	--	--	--	17	73	68	1	0.5	56
DEKALB	DK580	108	--	--	--	--	118	--	--	--	--	17	74	94	1	2.3	56
OHLDE	104	107	69	--	88	--	117	106	--	15	67	17	74	89	1	0.9	54
BO-JAC	335	111	--	--	--	--	121	--	--	--	--	17	75	98	0.9	2.2	57
DELANGE	DS 1204	98	--	--	--	--	106	--	--	--	--	17	75	87	1	1.5	55
STINE	1076	72	--	--	--	--	78	--	--	--	--	17	75	104	0.8	0.4	56
TRIUMPH	1040A	70	--	--	--	--	76	--	--	--	--	17	75	68	1	1.8	54
DELTAPINE	4450	120	55	--	87	--	130	84	--	16	67	17	76	99	1	0	56
DELANGE	DS 1221	81	63	--	72	--	88	97	--	16	67	18	74	74	1	0.5	55
NC+	4616	109	50	179	80	113	119	77	130	17	67	18	75	102	0.9	0.4	55
-MATURITY CHECK	FULL-B73XMO17	84	56	156	70	99	91	86	113	18	69	18	76	76	0.9	1.2	54
ICI	8481	121	--	--	--	--	132	--	--	--	--	19	73	100	1	0	55
Test Averages		92	65	138	78	98	100	100	100	15	66	16	73	88	0.9	1.5	55
C.V.(%)		12	--	--	--	--	12	--	--	--	--	6	1	12	9.1	107	2
L.S.D.(.05)*		15	9	17	12	14	17	13	12	1	1	1	1	13	0.1	1.9	1

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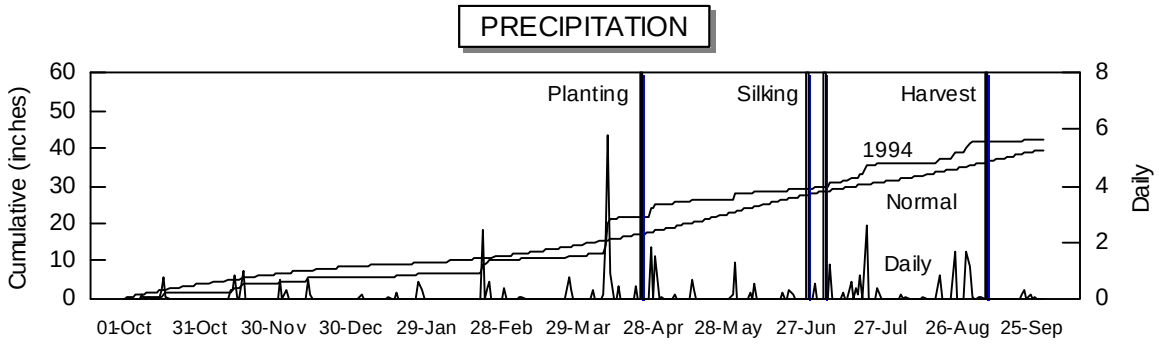
SOUTHEASTERN KANSAS SHORT-SEASON CORN TEST

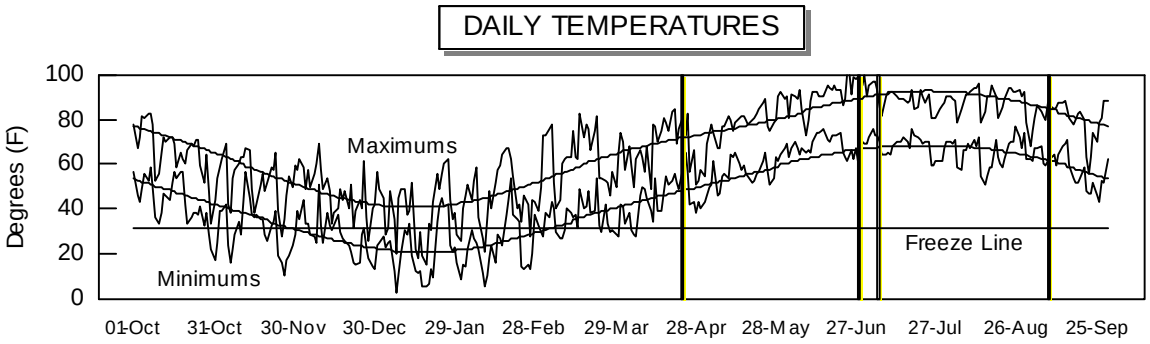
LOCATION: Southeast Agric. Research Center
Near Parsons in **Labette County**
COOPERATORS: James Long, agronomist
L.W. Lomas, head
TEST SITE: Parsons silt loam
Soybeans in 1993, corn in 1992
FERTILIZATION: 100 lbs N/acre preplant
50 lbs P_2O_5/acre preplant
50 lbs K_2O/acre preplant
PLANTING DATE: April 24
SILKING DATES: June 29 - July 6
HARVEST DATE: September 8
PEST CONTROL: Adequate
Bicep herbicide

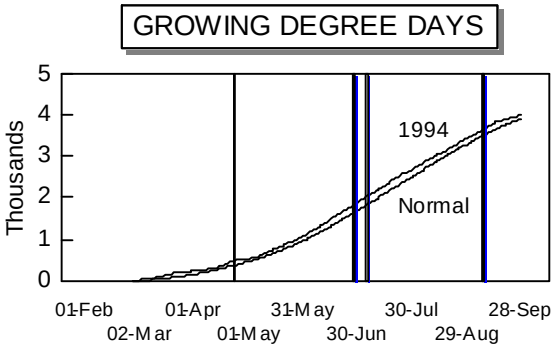
POPULATION:

Desired:	20,000 plants/acre, 10.5 in. spacing
Thinned:	May 18
Final stand:	93% of desired
TEST YIELDS:	Somewhat variable
Average:	102 bu/acre
Range:	80 to 123 bu/acre
L.S.D.:	17.2 bu/acre
C.V.:	14.4%

1994 GROWING CONDITIONS:
Very heavy rains early in the summer flooded out the first planting. Continued rains prevented replanting until late April. May and June were very dry, as were late July and early August.







GROWING-SEASON WEATHER SUMMARY

	Precipitation		Average Temp.		GDD	
Month	1994	Normal	1994	Normal	1994	Normal
April	13.6	3.8	56	58	293	296
May	2.6	5.0	68	66	544	505
June	1.4	4.7	80	75	804	729
July	6.7	3.5	79	80	829	835
August	5.5	3.9	77	78	769	811
Sep.	0.8	4.4	69	70	557	590
Season Totals	30.7	25.3	71	71	3795	3765

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TABLE 18. LABETTE CO. SHORT-SEASON CORN PERFORMANCE TEST RESULTS, 1992-94.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-94		1994				
BRAND	HYBRID	1994	1993	1992	2-Yr. AVG.	3-Yr. AVG	1994	1993	1992	Mois-ture %	Days to Silk	Mois-ture %	Days to Silk	Final Stnd %	Lod-ging %	Test Wt. lb/bu
DEKALB	DK462	100	--	--	--	--	98	--	--	--	--	16	66	98	0	55
GOLDEN HARVEST	H-2404	101	114	138	107	118	99	105	101	16	69	16	66	95	0	56
PIONEER	3737	104	110	150	107	121	102	101	109	17	69	17	67	94	0	57
PIONEER	3769	92	--	--	--	--	90	--	--	--	--	18	64	83	0	56
CARGILL	3477	80	--	--	--	--	79	--	--	--	--	18	66	92	0	56
NORTHRUP KING	N4242	105	107	--	106	--	103	98	--	17	70	18	67	102	0	57
CARGILL	4327	98	--	155	--	--	97	--	113	--	--	18	69	107	0.4	55
ICI	8481	82	--	--	--	--	81	--	--	--	--	18	69	79	0.4	55
OHLDE	097	95	--	--	--	--	94	--	--	--	--	18	69	93	0	56
PATRIOT	1140	106	--	--	--	--	105	--	--	--	--	18	69	90	0	58
GOLDEN HARVEST	H-2441	106	--	--	--	--	104	--	--	--	--	18	70	85	0	56
HOEGEMEYER	2583	115	105	139	110	120	113	96	101	18	72	18	70	104	0	55
-MATURITY CHECK	MID-H2530	110	--	--	--	--	108	--	--	--	--	18	71	96	0	56
HOEGEMEYER	2575	94	--	--	--	--	92	--	--	--	--	19	67	102	0.9	54
PATRIOT	3960	83	--	--	--	--	82	--	--	--	--	19	67	81	0	56
-MATURITY CHECK	SHORT-C4327	102	110	151	106	121	100	102	110	18	71	19	68	91	0.4	55
CARGILL	3777	105	--	--	--	--	103	--	--	--	--	19	68	99	0	55
HOEGEMEYER	2545	117	--	--	--	--	115	--	--	--	--	19	68	87	0	56
ICI	8599	103	101	141	102	115	101	93	103	18	70	19	68	100	0	55
PIONEER	3563	105	126	157	115	129	103	116	115	18	70	19	68	91	0	56
TERRA	TR 1070	99	107	142	103	116	98	99	104	18	70	19	68	91	0	56
DELANGE	DS 1204	95	--	--	--	--	93	--	--	--	--	19	69	95	0.5	55
MYCOGEN	5440	112	--	--	--	--	111	--	--	--	--	19	69	91	0	54
TRIUMPH	1040A	104	--	--	--	--	103	--	--	--	--	19	69	90	0	56
LEWIS	4284	90	--	--	--	--	88	--	--	--	--	19	70	96	0	55
NC+	3795	103	--	--	--	--	102	--	--	--	--	19	70	94	0	56
DELANGE	DS 1221	107	98	--	102	--	105	90	--	18	73	19	71	97	0	55
OHLDE	102	108	--	--	--	--	106	--	--	--	--	19	71	102	0	55
DEKALB	DK580	123	128	--	125	--	121	118	--	18	72	20	69	90	0	56
GOLDEN HARVEST	H-2408	103	--	--	--	--	102	--	--	--	--	20	69	96	0	55
HOEGEMEYER	2592	109	104	--	107	--	107	96	--	18	72	20	70	96	0.4	55
NORTHRUP KING	N3808	94	--	--	--	--	92	--	--	--	--	21	69	82	0	54
OHLDE	104	109	--	--	--	--	107	--	--	--	--	21	69	91	0.5	54
STINE	1076	86	--	--	--	--	84	--	--	--	--	21	72	100	0	55
TERRA	TR 1090	109	110	--	109	--	107	101	--	19	72	22	69	86	0	55
NC+	1991	99	115	--	107	--	98	106	--	19	72	22	70	93	0.5	54
-MATURITY CHECK	FULL-B73XMO17	114	108	139	111	120	112	100	102	21	75	22	73	95	0	52
Test Averages		102	109	137	105	116	100	100	100	18	71	19	69	93	0.1	55
C.V.(%)		14	--	--	--	--	14	--	--	--	--	4	3	16	444	1
L.S.D.(.05)*		17	14	15	16	15	17	13	11	1	2	1	2	18	0.6	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.

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

LOCATION: South Central Kansas Experiment Field 9mi. southwest of Hutchinson in **Reno County**
COOPERATORS: William Heer, agronomist
Brian Wade, technician
TEST SITE: Clark silt loam planted to corn in 1993 and 1992
FERTILIZATION: 125 lbs N/acre preplant
16 lbs N/acre at planting
43 lbs P_2O_5/acre at planting
PLANTING DATE: April 8
SILKING DATES: June 27 - July 5
HARVEST DATE: August 25
PEST CONTROL: Good
Counter, Frontier, and Bladex 4L at planting

POPULATION:
Desired: 20,909 plants/acre, 10 in. spacing
Thinned: Overplanted by 20%, not thinned
Final stand: 109% of desired
TEST YIELDS: Highly variable
Average: 39 bu/acre
Range: 4 to 78 bu/acre
L.S.D.: NS
C.V.: 27%
1994 GROWING CONDITIONS:
Several conditions contributed to high yield variability. An April freeze killed the plants to the soil surface, delaying early-season growth. Moisture and heat stress during silking and pollen shed prevented full pollination of several hybrids. Continued moisture stress later in the season caused severe ear drop for some hybrids. For these reasons, 1994 yields are not reported.

TABLE 19. RENO CO. SHORT-SEASON CORN PERFORMANCE TEST RESULTS, 1992,94.

		ACRE YIELD, BUSHELS		YIELD AS % OF TEST AVERAGE		92,94		1994					
						Mois-	Days	Mois-	Days	Final	Lod-	Plant	Test
BRAND	HYBRID	1994	1992	1994	1992	ture %	to Silk	ture %	to Silk	Stnd %	ging %	Ht. in.	Wt. lb/bu
CARGILL	3477	--	--	--	--	--	--	12	73	106	16.4	68	55
CARGILL	3777	--	--	--	--	--	--	12	80	111	9.8	85	59
GOLDEN HARVEST	H-2404	--	125	--	98	13	78	13	75	108	19.8	66	59
GOLDEN HARVEST	H-2408	--	--	--	--	--	--	13	76	117	8.1	65	58
-MATURITY CHECK	MID-H2530	--	--	--	--	--	--	13	83	115	16.1	71	56
DELANGE	DS 1221	--	--	--	--	--	--	13	84	96	13.6	72	56
LEWIS	4284	--	--	--	--	--	--	13	85	112	20.5	72	54
DELTAPINE	G-4393	--	--	--	--	--	--	14	78	109	5.6	79	57
DELANGE	DS 1386	--	--	--	--	--	--	14	79	97	10.8	67	57
NC+	3795	--	--	--	--	--	--	14	79	115	7	72	56
PIONEER	3563	--	149	--	116	13	81	14	80	111	13	82	58
PIONEER	3394	--	--	--	--	--	--	14	80	107	34.7	71	58
-MATURITY CHECK	SHORT-C4327	--	119	--	93	14	82	14	81	118	16.6	80	57
PIONEER	3489	--	--	--	--	--	--	14	81	96	14.3	75	57
GOLDEN HARVEST	H-2441	--	--	--	--	--	--	15	79	108	21.4	72	55
CARGILL	4327	--	--	--	--	--	--	15	83	112	12	79	56
NORTHRUP KING	N6330	--	--	--	--	--	--	16	81	115	3.9	74	56
CASTERLINE	CX1222	--	--	--	--	--	--	17	84	103	24	78	54
-MATURITY CHECK	FULL-B73XMO17	--	101	--	79	18	85	19	86	108	15.8	83	51
Test Averages		--	128	--	100	14	81	14	80	109	14.9	74	56
C.V.(%)		--	--	--	--	--	--	5	2	6	44.8	5	2
L.S.D.(.05)*		--	12	--	10	1	2	1	2	8	7.9	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.

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

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 1993 and 1992
FERTILIZATION: 168 lbs N/acre preplant
46 lbs P_2O_5/acre preplant
150 lbs N/acre after planting
PLANTING DATE: March 30
SILKING DATES: June 25 - July 7
HARVEST DATE: November 8
PEST CONTROL: Good
Atrazine and Dual at planting

POPULATION:
Desired: 18,182 plants/acre, 11.5 in. spacing
Thinned: Overplanted by 20%, not thinned
Final stand: 80% of desired
TEST YIELDS: Highly variable
Average: 37 bu/acre
Range: 24 to 49 bu/acre
L.S.D.: 15 bu/acre
C.V.: 28 %

1994 GROWING CONDITIONS:
An April freeze killed the plant tops and slowed early growth. Moisture and heat stress limited plant development and increased yield variability.

TABLE 20. STAFFORD CO. DRYLAND SHORT-SEASON CORN PERFORMANCE TEST RESULTS, 1992,94.

		ACRE YIELD, BUSHELS		YIELD AS % OF TEST AVERAGE		92,94		1994			
BRAND	HYBRID	1994	1992	1994	1992	Moisture %	Days to Silk	Moisture %	Days to Silk	Final Stnd %	Test Wt. lb/bu
-MATURITY CHECK	SHORT-C4327	--	141	--	116	15	89	11	92	83	51
CARGILL	3477	--	--	--	--	--	--	12	87	79	58
GOLDEN HARVEST	H-2441	--	--	--	--	--	--	12	89	85	56
DEKALB	DK462	--	--	--	--	--	--	12	90	73	55
AGRIPRO	AP 328	--	--	--	--	--	--	12	91	74	56
CARGILL	3777	--	--	--	--	--	--	12	91	80	58
GOLDEN HARVEST	H-2292	--	--	--	--	--	--	12	91	81	53
CASTERLINE	CX1174	--	--	--	--	--	--	12	92	77	56
CARGILL	4327	--	--	--	--	--	--	12	93	80	56
NC+	3795	--	--	--	--	--	--	12	94	79	56
AGRIPRO	AP 429	--	--	--	--	--	--	12	95	79	56
TRIUMPH	5570	--	--	--	--	--	--	12	96	75	55
-MATURITY CHECK	MID-H2530	--	--	--	--	--	--	12	97	89	54
NORTHRUP KING	N6330	--	--	--	--	--	--	12	97	79	57
-MATURITY CHECK	FULL-B73XMO17	--	107	--	88	18	95	12	99	73	54
GOLDEN HARVEST	H-2404	--	116	--	96	15	85	13	87	75	59
NORTHRUP KING	N4242	--	--	--	--	--	--	13	87	83	57
GOLDEN HARVEST	H-2408	--	--	--	--	--	--	13	89	84	59
PIONEER	3737	--	134	--	110	14	86	13	89	83	56
PIONEER	3563	--	94	--	77	16	89	13	93	81	60
Test Averages		--	122	--	100	15	89	12	92	80	56
C.V.(%)		--	--	--	--	--	--	3	2	10	3
L.S.D.(.05)*		--	22	--	18	1	2	0	2	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.

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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 1993, fallow in 1992
FERTILIZATION: 168 lbs N/acre preplant
46 lbs P_2O_5/acre preplant
150 lbs N/acre after planting
PLANTING DATE: May 12
SILKING DATES: July 2 - July 9
HARVEST DATE: November 9
PEST CONTROL: Good
Atrazine and Dual at planting
POPULATION:
Desired: 32,167 plants/acre, 6.5 in. spacing
Thinned: Overplanted by 20%, not thinned
Final stand: 83% of desired

TEST YIELDS:
Average: 157 bu/acre
Range: 129 to 177 bu/acre
L.S.D.: 20.9 bu/acre
C.V.: 8.1%
IRRIGATION: 15 inches in 27 irrigations
1994 GROWING CONDITIONS:
The test was planted originally on April 15, but freezes in late April caused sufficient stand loss to necessitate replanting. Final stands in the second planting were 12-27% lower than the target stand. However, stands for all hybrids were within 10% of the average. Stand differences likely contributed little to hybrid yield differences. The growing season was very hot and dry. Infestations of southwestern corn borer and european corn borer may have contributed to some of the lodging.
(Weather data, graphs, and growing conditions presented with standard test, page 27).

TABLE 21. STAFFORD CO. IRR. SHORT-SEASON CORN PERFORMANCE TEST RESULTS, 1992-94.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-94		1994					
					2-Yr.	3-Yr.				Mois-	Days	Mois-	Days	Final	Ears	Lod-	Test
BRAND	HYBRID	1994	1993	1992	AVG.	AVG	1994	1993	1992	ture %	to Silk	ture %	to Silk	Stnd %	per Plnt	ging %	Wt. lb/bu
CARGILL	3777	129	--	--	--	--	83	--	--	--	--	13	51	84	1	2.4	59
GOLDEN HARVEST	H-2441	176	--	--	--	--	112	--	--	--	--	13	52	81	1.1	2.1	56
GOLDEN HARVEST	H-2390	157	--	--	--	--	100	--	--	--	--	13	52	88	1	9.3	57
MYCOGEN	5440	145	--	--	--	--	92	--	--	--	--	13	53	83	1	4.4	56
OHLDE	097	142	--	--	--	--	91	--	--	--	--	13	53	84	1	3.3	58
-MATURITY CHECK	SHORT-C4327	161	157	213	159	177	103	112	115	14	72	13	54	82	1.1	2.6	58
NC+	2844	160	--	212	--	--	102	--	114	--	--	13	54	83	1.1	4.2	57
CASTERLINE	CX1186	154	--	--	--	--	98	--	--	--	--	13	55	86	1	0.4	57
MYCOGEN	6890	168	--	--	--	--	107	--	--	--	--	13	55	87	0.9	0.9	57
OHLDE	104	145	153	--	149	--	93	108	--	14	75	13	56	83	1	1.6	57
PIONEER	3489	157	--	--	--	--	100	--	--	--	--	13	56	73	1	9.2	57
-MATURITY CHECK	MID-H2530	150	--	--	--	--	96	--	--	--	--	13	57	89	1	2.1	58
OHLDE	102	147	--	--	--	--	94	--	--	--	--	13	58	74	1.1	4.8	57
DELTAPINE	G-4393	173	138	--	156	--	111	98	--	14	71	14	53	86	1	0.4	58
PIONEER	3563	171	152	211	161	178	109	108	114	15	72	14	55	89	1	3.6	59
CARGILL	4327	150	--	203	--	--	96	--	110	--	--	14	56	82	1	2.6	58
DEKALB	DK591	177	152	--	165	--	113	108	--	15	74	14	56	76	1.1	5.6	58
NORTHRUP KING	N6330	153	--	--	--	--	98	--	--	--	--	14	56	88	1	0.8	58
DELTAPINE	4450	167	160	--	163	--	106	114	--	16	72	15	54	83	1	3	56
NC+	4616	151	151	210	151	171	96	108	113	16	74	15	56	79	1	4.3	57
PIONEER	3394	176	--	--	--	--	112	--	--	--	--	15	57	89	1	6.6	58
-MATURITY CHECK	FULL-B73XMO17	140	147	192	144	160	90	105	104	18	74	17	55	76	1	4.7	55
Test Averages		157	141	185	149	161	100	100	100	14	72	14	55	83	1	3.6	57
C.V.(%)		8	--	--	--	--	8	--	--	--	--	5	3	10	5.3	88	2
L.S.D.(.05)*		21	17	20	19	19	13	12	11	1	2	1	2	NS	NS	4.3	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.

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SOUTHWEST KANSAS SHORT-SEASON CORN TEST IRRIGATED

LOCATION: Southwest Research-Extension Center
Near Garden City in **Finney County**
COOPERATORS: Merle Witt, agronomist
James Schaffer, head
TEST SITE: Keith silt loam
Short-season corn in 1993 and 1992
FERTILIZATION: 190 lbs N/acre preplant
PLANTING DATE: May 6
SILKING DATES: July 6 - July 14
HARVEST DATE: September 23
PEST CONTROL: Good
Counter in furrow at planting
Prowl/Bladex at planting

POPULATION:
Desired: 34,838 plants/acre, 6 in. spacing (planted to stand)
Final stand: Not counted, but appeared good
TEST YIELDS:
Average: 174 bu/acre
Range: 98 to 209 bu/acre
L.S.D.: 21.0 bu/acre
C.V.: 7.4%
1994 GROWING CONDITIONS:
The mild summer provided good growing conditions. Weed control was very good, and no insect or disease damage was evident. Several hybrids yielded over 200 bushels per acre.
(Weather data and graphs presented with standard test, page 38).

TABLE 22. FINNEY CO. IRR. SHORT-SEASON CORN PERFORMANCE TEST RESULTS, 92-94.

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			93-94		1994		
BRAND	HYBRID	1994	1993	1992	2-Yr. AVG.	3-Yr. AVG	1994	1993	1992	Moisture %	Days to Silk	Moisture %	Days to Silk	Plant Ht. in.
OHLDE	097	165	--	--	--	--	95	--	--	--	--	13	61	91.3
CARGILL	3777	98	--	--	--	--	56	--	--	--	--	13	62	92.7
DEKALB	DK512	181	189	--	185	--	104	110	--	13	71	13	64	100.3
WILSON	1140	157	147	--	152	--	90	85	--	13	71	13	65	86.3
GOLDEN HARVEST	H-2407	151	165	--	158	--	87	96	--	12	72	13	66	91.7
AGRIPRO	AP 328	158	--	--	--	--	91	--	--	--	--	14	62	93
BO-JAC	135	162	--	--	--	--	93	--	--	--	--	14	64	88.3
TRIUMPH	TRX3201 EXP	135	--	--	--	--	78	--	--	--	--	14	64	87.7
ASGROW	RX623	187	--	--	--	--	108	--	--	--	--	14	65	95.3
DEKALB	DK564	195	149	221	172	188	112	86	109	13	73	14	65	94.3
NC+	2844	165	--	--	--	--	95	--	--	--	--	14	65	93.7
MYCOGEN	5440	174	--	--	--	--	100	--	--	--	--	14	66	95
GOLDEN HARVEST	H-2441	184	--	--	--	--	106	--	--	--	--	15	62	88.7
DELTAPINE	G-4393	184	165	--	174	--	106	96	--	14	70	15	63	96.7
WILSON	1371	162	--	--	--	--	93	--	--	--	--	15	64	96.7
-MATURITY CHECK	SHORT-C4327	187	147	212	167	182	108	85	105	14	73	15	65	97.3
BO-JAC	386	166	--	--	--	--	96	--	--	--	--	15	65	97.7
AGRIPRO	AP 429	185	--	--	--	--	107	--	--	--	--	15	66	94
OHLDE	104	175	184	225	179	194	100	107	111	14	73	15	66	100.3
AGRIPRO	AP 521	157	--	--	--	--	90	--	--	--	--	15	68	103.7
CARGILL	4327	170	--	219	--	--	97	--	108	--	--	16	65	97.3
DEKALB	DK580	210	--	--	--	--	120	--	--	--	--	16	66	93.7
NC+	4616	206	213	223	210	214	118	124	110	15	73	16	66	97
-MATURITY CHECK	MID-H2530	191	--	--	--	--	110	--	--	--	--	16	67	99.7
DELTAPINE	4450	209	207	--	208	--	120	120	--	15	74	16	67	97.3
NORTHRUP KING	N6330	204	--	--	--	--	117	--	--	--	--	16	67	95.7
OHLDE	102	154	--	--	--	--	89	--	--	--	--	16	67	97
ASGROW	RX699	182	--	--	--	--	104	--	--	--	--	17	66	94.3
CASTERLINE	CX1186	187	191	--	189	--	108	111	--	15	73	17	66	91.7
-MATURITY CHECK	FULL-B73XMO17	182	194	214	188	197	104	113	106	16	76	17	69	102.7
Test Averages		174	172	202	173	183	100	100	100	14	72	15	65	95
C.V.(%)		7	--	--	--	--	7	--	--	--	--	6	2	1.3
L.S.D.(.05)*		21	25	21	23	22	12	15	10	1	2	1	2	1.7

* 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.

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TABLE 23. YIELD AS PERCENT OF TEST AVERAGE FROM SHORT-SEASON CORN TESTS, 1994.

BRAND	HYBRID	COUNTY				Hyb Avg	No. Tst.
		FRA	LAB	STA	FIN		
-- CHECK	FULL-B73XMO17	91	112	90	104	99	4
-- CHECK	MID-H2530	120	108	96	110	109	4
-- CHECK	SHORT-C4327	110	100	103	108	105	4
AGRIPRO	AP 328	--	--	--	91	91	1
AGRIPRO	AP 429	--	--	--	107	107	1
AGRIPRO	AP 521	--	--	--	90	90	1
ASGROW	RX623	--	--	--	108	108	1
ASGROW	RX699	--	--	--	104	104	1
BO-JAC	135	99	--	--	93	96	2
BO-JAC	335	121	--	--	--	121	1
BO-JAC	386	--	--	--	96	96	1
CARGILL	3477	51	79	--	--	65	2
CARGILL	3777	78	103	83	56	80	4
CARGILL	4327	104	97	96	97	99	4
CASTERLINE	CX1174	--	--	--	--	--	0
CASTERLINE	CX1186	--	--	98	108	103	2
CASTERLINE	CX1222	--	--	--	--	--	0
DEKALB	DK462	--	98	--	--	98	1
DEKALB	DK512	--	--	--	104	104	1
DEKALB	DK564	--	--	--	112	112	1
DEKALB	DK580	118	121	--	120	120	3
DEKALB	DK591	--	--	113	--	113	1
DELANGE	DS 1204	106	93	--	--	100	2
DELANGE	DS 1221	88	105	--	--	97	2
DELANGE	DS 1386	--	--	--	--	--	0
DELTAPINE	G-4393	95	--	111	106	104	3
DELTAPINE	4450	130	--	106	120	119	3
GOLDEN HARVEST	H-2292	--	--	--	--	--	0
GOLDEN HARVEST	H-2390	--	--	100	--	100	1
GOLDEN HARVEST	H-2404	102	99	--	--	101	2
GOLDEN HARVEST	H-2407	--	--	--	87	87	1
GOLDEN HARVEST	H-2408	106	102	--	--	104	2
GOLDEN HARVEST	H-2441	115	104	112	106	109	4
HOEGEMEYER	2545	--	115	--	--	115	1
HOEGEMEYER	2575	--	92	--	--	92	1
HOEGEMEYER	2583	--	113	--	--	113	1
HOEGEMEYER	2592	--	107	--	--	107	1
ICI	8481	132	81	--	--	107	2
ICI	8599	118	101	--	--	110	2
LEWIS	4284	94	88	--	--	91	2
MYCOGEN	5440	102	111	92	100	101	4
MYCOGEN	6890	--	--	107	--	107	1
NC+	1991	109	98	--	--	104	2
NC+	2844	--	--	102	95	99	2
NC+	3795	--	102	--	--	102	1
NC+	4616	119	--	96	118	111	3
NORTHRUP KING	N3808	90	92	--	--	91	2
NORTHRUP KING	N4242	87	103	--	--	95	2
NORTHRUP KING	N6330	--	--	98	117	108	2
OHLDE	097	85	94	91	95	91	4
OHLDE	102	107	106	94	89	99	4

(continued)

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TABLE 23. YIELD AS PERCENT OF TEST AVERAGE FROM SHORT-SEASON CORN TESTS, 1994.

BRAND	HYBRID	COUNTY				Hyb Avg	No. Tst.
		FRA	LAB	STA	FIN		
OHLDE	104	117	107	93	100	104	4
PATRIOT	1140	106	105	--	--	106	2
PATRIOT	3960	70	82	--	--	76	2
PIONEER	3394	--	--	112	--	112	1
PIONEER	3489	--	--	100	--	100	1
PIONEER	3563	111	103	109	--	108	3
PIONEER	3737	95	102	--	--	99	2
PIONEER	3769	69	90	--	--	80	2
STINE	1076	78	84	--	--	81	2
TERRA	TR 1070	--	98	--	--	98	1
TERRA	TR 1090	--	107	--	--	107	1
TRIUMPH	1040A	76	103	--	--	90	2
TRIUMPH	TRX3201 EXP	--	--	--	78	78	1
TRIUMPH	5570	--	--	--	--	--	0
WILSON	1140	--	--	--	90	90	1
WILSON	1371	--	--	--	93	93	1
Test Averages		100	100	100	100	--	--
C.V.(%)		12	14	8	7	--	--
L.S.D.(.05)*		17	17	13	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.

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APPENDIX: Entrants and Entries in the 1994 Standard Corn Tests.

ENTRANT/ADDRESS	BRAND AND TELEPHONE	HYBRID	GDD[1]	DAYS TO BLACK LAYER[2]	MATURITY GROUP[3]
AGRIPRO SEEDS	AGRIPRO	AP 588	2525	110	E
P.O. Box 237		AP 670	2570	114	M
Tekamah, NE 68061	(515)232-0691	AP 758	2795	116	L
		AP 697	2800	116	L
ASGROW SEED COMPANY	ASGROW	RX623	2450	105	E
7000 Portage Rd.		RX747	2525	112	M
Kalamazoo, MI 49001	(800)373-4653	RX770	2570	113	M
		RX801	2570	114	M
		RX897	2585	118	L
		RX899	2585	118	L
BO-JAC HYBRID SEED CO.	BO-JAC	135	2400	102	E
RR 2, Box 11		386	2500	107	E
Mt. Pulaski, IL 62548	(800)397-2069	438	2600	110	E
		520	2650	111	M
		577	2690	113	M
		602	2730	114	M
		615	2770	117	L
CARGILL HYBRID SEEDS	CARGILL	6327	2740	112	M
P.O. Box 5645		7557	2760	114	M
Minneapolis, MN 55440	(612)742-6743	7697	2780	114	M
		7777	2780	114	M
		7877	2790	114	M
		7997	2820	116	L
		8327	2850	116	L
		X9304 EXP	2890	118	L
CASTERLINE SEEDS	CASTERLINE	C 1191	2750	108	E
Box 1377		CX1222	2820	114	M
Dodge City, KS 67801	(800)444-4137	CX1237	2860	117	L
		CX1252	2880	118	L
		CX1253	2880	118	L
COOPERATIVE SEEDS, INC.	COOP	7820	2560	114	M
6009 510th St.		2315WC	2575	115	M
Alta, IA 51002	(712)296-3258	2345	2630	117	L
CROW'S HYBRID CORN CO.	CROW'S	490	2490	114	M
P.O. Box 306		510	2545	115	M
Milford, IL 60953	(815)889-4151	667	2650	116	L
		668	2650	116	L
		702	2710	118	L

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APPENDIX: Entrants and Entries in the 1994 Standard Corn Tests.

ENTRANT/ADDRESS	BRAND AND TELEPHONE	HYBRID	GDD[1]	DAYS TO BLACK LAYER[2]	MATURITY GROUP[3]
DEKALB GENETICS CORP.	DEKALB	DK512	2520	101	E
3100 Sycamore Road		DK564	2670	106	E
DeKalb, IL 60115	(815)758-9323	DK580	2710	108	E
		DK591	2750	108	E
		DK626	2800	112	M
		DK646	2830	114	M
		DK652	2830	115	M
		DK671	2695	116	L
		DK683	2930	118	L
		DK715	2960	121	L
DELANGE SEED	DELANGE	DS 1995	2800	115	M
P.O. Box 7					
Girard, KS 66743	(800)962-5429				
DELTA & PINE LAND CO.	DELTAPINE	4450	2450	105	E
P.O. BOX 157		4581	2700	116	L
Scott, MS 38772	(601)742-3351	4662	2700	116	L
		G-4673B	2700	116	L
DRUSSEL SEED & SUPPLY	DSS	4111 EXP	2510	111	M
2197 W. Parallel Rd.		4116 EXP	2540	114	M
Garden City, KS 67846	(316)275-2359	4114 EXP	2570	114	M
FONTANELLE HYBRIDS	FONTANELLE	4372	2350	111	M
Rt. 1, Box 18		5222	2400	114	M
Nickerson, NE 68044	(402)721-1410	5424	2450	115	M
		6162	2550	116	L
		6340	2600	117	L
THE J.C.ROBINSON SEED CO.	GOLDEN HARVEST	H-2493	2641	111	M
100 J. C. Robinson Blvd.		H-2530	2690	113	M
Waterloo, NE 68069	(402)779-2531	H-2573	2710	114	M
		EX 424 EXP	2720	115	M
		H-2641	2780	117	L
HAWKEYE HYBRIDS INC.	HAWKEYE	SX53	2600	110	E
2165 Idaho Drive		SX59	2615	111	M
Pella, IA 50219	(515)628-3827	8179	2620	112	M
		7378	2660	114	M
		8981	2670	115	M
HOEGEMEYER HYBRIDS	HOEGEMEYER	2655	2600	113	M
RR 2, Box 126		2676	2630	114	M
Hooper, NE 68031	(402)654-3399	2712	2650	115	M
		2685	2670	115	M
		2689	2680	116	L
		2761	2700	117	L
		2775	2720	118	L

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HORIZON SEEDS, INC.	HORIZON	7711	2420	113	M
P.O. Box 88		7878	2450	114	M
TeKamah, Ne 68061	(800)752-6574	LG2632	2500	116	L
HYPERFORMER SEED CO.	HYPERFORMER	HS 9484	2500	109	E
One Hy Crop Row		HY 9475	2500	109	E
Memphis, TN 38120	(901)756-1771	HY 9487	2580	110	E
		HS 9502	2620	113	M
		HY 9610	2680	115	M
		HS 9773	2700	116	L
		HS 9704	2720	117	L
		HS 9822	2750	118	L
		HS 9843	2750	118	L
		HS 9848	2750	118	L
ICI SEEDS	ICI	8543	2570	109	E
6945 Vista Drive		8326	2600	114	M
West Des Moines, IA 50266	(800)348-2742	8310	2600	115	M
		8272	2610	116	L
		8281	2660	116	L
		8315	2650	117	L
		8285	2670	118	L
KAYSTAR SEED	KAYSTAR	KX - 909	2650	115	M
P.O. Box 947					
Huron, SD 57350	(605)352-8791				
LEWIS HYBRIDS, INC.	LEWIS	5584	2575	110	E
P.O. Box 38		8492	2720	119	L
Ursa, IL 62376	(217)964-2131				
MIDWEST SEED GENETICS, INC.	MIDWEST	G 8445	2825	115	M
P.O. Box 518		G 8775	2930	118	L
Carroll, IA 51404	(800)369-8218				
MILLER GRASS SEED CO.	MILLER	MP-1091	2400	109	E
1600 Cornhusker Hwy		MP-1111	2450	111	M
Lincoln, NE 68521	(402)438-1232	MP-1130	2450	113	M
MYCOGEN PLANT SCIENCES	MYCOGEN	ORO 142	2525	114	M
624 27th St.		7885	2575	116	L
Lubbock, TX 79404	(806)744-1408	8240	2600	117	L
NC+ HYBRIDS	NC+	5037	2475	112	M
Box 4408		5514	2500	113	M
Lincoln, NE 68504	(402)467-2517	6414	2600	116	L
		6959	2590	117	L
		7117	2590	118	L
		7304	2600	118	L
		7507	2620	118	L

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NORTHRUP KING CO.	NORTHRUP-KING	N4242	2510	100	E
P.O. Box 959		N6330	2690	109	E
Minneapolis, MN 55440	(316)543-2707	N6822	2740	113	M
		N7333	2760	113	M
		N7590	2770	114	M
		N7992	2770	118	L
		N7989	2790	118	L
		N8811	2870	122	L
OHLDE SEED FARMS	OHLDE	097	2300	97	E
RR 1, Box 63		310	2460	104	E
Palmer, KS 66962	(913)692-4555	104	2550	104	E
		X218 EXP	2350	105	E
		312	2500	110	E
		X332 EXP	2580	112	M
		X331 EXP	2600	112	M
		X340 EXP	2630	113	M
		X1598 EXP	2620	114	M
		300	2625	114	M
		X370 EXP	2710	115	M
		359	2710	117	L
		510	2720	118	L
		373	2800	120	L
OTTILIE RO SEEDS	OTTILIE	2443	2644	109	E
1462 Sanford Ave.		2438	2652	110	E
Marshalltown, IA 50158	(800)798-6884	2448	2692	113	M
		2446	2688	114	M
		2476	2694	115	M
		2482	2718	115	M
		2483	2760	115	M
		2562	2772	116	L
PATRIOT SEED INC.	PATRIOT	5093	2700	109	E
1411 N. Kickapoo		5105	2725	110	E
Lincoln, Ill 62656	(217)732-8102	5108	2725	110	E
		5115	2750	111	M
		5118	2750	111	M
		6140A	2770	112	M
		6147	2770	112	M
		6155	2850	115	M
		1660	2875	116	L
		6160	2875	116	L
		7160	2875	116	L
		7170	2900	117	L
		2330	3000	120	L

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APPENDIX: Entrants and Entries in the 1994 Standard Corn Tests.

ENTRANT/ADDRESS	BRAND AND TELEPHONE	HYBRID	GDD[1]	DAYS TO BLACK LAYER[2]	MATURITY GROUP[3]
PIONEER HI-BRED INT'L, INC.	PIONEER	3489	2750	109	E
1616 S. Kentucky St., Suite C-150		3394	2780	110	E
Amarillo, TX 79102	(806)356-0160	3279	2850	113	M
		3346	2850	113	M
		3225	2870	114	M
		3162	2880	114	M
		3245	2900	115	M
STINE SEEDS COMPANY	STINE	1059	2450	105	E
2225 Laredo Trail		1076	2465	107	E
Adel, IA 50003	(800)362-2510	1118	2510	111	M
		1154	2630	115	M
		1161	2655	116	L
		1179	2675	117	L
		1180	2590	118	L
		1181	2690	118	L
		1220	2740	122	L
TERRA INTERNATIONAL, INC.	TERRA	TR 641	2600	115	M
Terra Centre, 600 4th St.		E1168 EXP	2730	116	L
Sioux City, IA 51101	(800)831-1002	TR 1167	2730	116	L
		TR 1185	2710	118	L
		TR 702E	2850	120	L
TRIUMPH SEED CO., INC.	TRIUMPH	1324		113	M
P.O. Box 1050		1452		114	M
Ralls, TX 79357	(806)253-2584	2010		120	L
WILSON SEEDS, INC.	WILSON	E4514 EXP	2800	112	M
P.O. Box 391		1910	2950	116	L
Harlan, IA 51537	(712)755-3841	DEMAND 118	2950	118	L
		DEMAND 119	2975	119	L
		2330	2975	120	L
		E11961 EXP	2975	120	L
	--CHECK	SHORT - C4327		105	E
	--CHECK	MID - H2530		113	M
NEBRASKA	--CHECK	FULL - NEB. 611		118	L
	--CHECK	FULL - B73 X MO17		118	L

Hybrid characteristics provided by entrants (blank indicates information not provided):
[1] Growing Degree Days to black layer.
[2] Days to black layer.
[3] Maturity Group; E= early, M= medium, L= late.

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APPENDIX: Entrants and Entries in the 1994 Short-Season Corn Tests.

ENTRANT/ADDRESS	BRAND AND TELEPHONE	HYBRID	GDD[1]	DAYS TO BLACK LAYER[2]	PROL.[3]	FLEX EAR[4]
AGRIPRO SEEDS	AGRIPRO	AP 328	2350	100	Y	Y
P.O. Box 237		AP 429	2400	104	Y	Y
Tekamah, NE 68061	(515)232-0691	AP 521	2500	108	Y	Y
ASGROW SEED COMPANY	ASGROW	RX623	2450	105	Y	Y
7000 Portage Rd.		RX699	2480	105	N	N
Kalamazoo, MI 49001	(800)373-4653					
BO-JAC HYBRID SEED CO.	BO-JAC	135	2435	100	Y	Y
RR 2, Box 11		335	2570	105	N	Y
Mt. Pulaski, IL 62548	(800)-397-2069	386	2575	105	N	N
CARGILL HYBRID SEEDS	CARGILL	3477	2550	97	N	N
P.O. Box 5645		3777	2560	97	N	N
Minneapolis, MN 55440	(612)742-6743	4327	2640	101	N	N
CASTERLINE SEEDS	CASTERLINE	CX1174	2510	103	N	N
Box 1377		CX1186	2560	105	Y	Y
Dodge City, KS 67801	(800)444-4137	CX1222	2820	114	Y	Y
DEKALB PLANT GENETICS	DEKALB	DK462	2390	96	Y	Y
3100 Sycamore Road		DK512	2520	101	Y	Y
DeKalb, IL 60115	(815)758-9323	DK564	2670	106	Y	Y
		DK580	2710	108	Y	Y
		DK591	2750	108	Y	Y
DELANGE SEED	DELANGE	DS 1204	2600	104	Y	Y
P.O. Box 7		DS 1221	2600	105	Y	Y
Girard, KS 66743	(800)962-5429	DS 1386	2700	108	N	N
DELTA & PINE LAND CO.	DELTAPINE	G-4393	2300	100	N	Y
P.O. BOX 157		4450	2450	105	N	Y
Scott, MS 38772	(601)742-3351					
THE J. C. ROBINSON SEED CO.	GOLDEN HARVEST	H-2292	2490	95	N	N
100 J. C. Robinson Blvd.		H-2390	2512	102	N	N
Waterloo, NE 68069	(402)779-2531	H-2404	2524	102	Y	N
		H-2407	2505	103	N	N
		H-2408	2527	103	Y	N
		H-2441	2570	105	N	Y
HOEGEMEYER HYBRIDS	HOEGEMEYER	2545	2320	93	Y	N
RR 2, Box 126		2575	2420	98	Y	N
Hooper, NE 68031	(402)654-3399	2583	2450	100	Y	N
		2592	2460	100	Y	N
ICI SEEDS	ICI	8599	2530	105	Y	Y
6945 Vista Drive		8481	2570	105	N	Y
West Des Moines, IA 50266	(800)348-2742					

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APPENDIX: Entrants and Entries in the 1994 Short-Season Corn Tests.

ENTRANT/ADDRESS	BRAND AND TELEPHONE	HYBRID	GDD[1]	DAYS TO BLACK LAYER[2]	PROL.[3]	FLEX EAR[4]
LEWIS HYBRIDS, INC. P.O. Box 38 Ursa, IL 62376	LEWIS (217)964-2131	4284	2580	104	Y	Y
MYCOGEN PLANT SCIENCES 624 27th St. Lubbock, TX 79404	MYCOGEN (806)744-1408	5440 6890	2350 2450	104 109	N N	Y Y
NC+ HYBRIDS Box 4408 Lincoln, NE 68504	NC+ (402)467-2517	1991 2844 3795 4616	2300 2375 2445 2425	100 104 107 110	Y Y Y Y	Y Y Y Y
NORTHRUP KING CO. P.O. Box 959 Minneapolis, MN 55440	NORTHRUP KING (316)543-2707	N3808 N4242 N6330	2490 2510 2690	95 100 109		
OHLDE SEED FARMS RR 1, Box 63 Palmer, KS 66962	OHLDE (913)692-4555	097 102 104	 2500 2550	97 102 104		
PATRIOT SEED INC. 1411 N. Kickapoo Lincoln, Ill 62656	PATRIOT (217)732-8102	3960 1140	2375 2475	96 100	N N	Y Y
PIONEER HI-BRED INT'L, INC. 1616 S. Kentucky St., Suite C-150 Amarillo, TX 79102	PIONEER (806)356-0160	3769 3737 3563 3489 3394	2440 2470 2600 2750 2780	96 97 105 109 110	N N N N N	Y Y Y Y Y
STINE SEEDS COMPANY 2225 Laredo Trail Adel, IA 50003	STINE (800)362-2510	1076	2465	107	N	Y
TERRA INTERNATIONAL, INC. Terra Centre, 600 4th St. Sioux City, IA 51101	TERRA (800)831-1002	TR 1070 TR 1090	2310 2460	105 108	Y Y	Y Y
TRIUMPH SEED CO., INC. P.O. Box 1050 Ralls, TX 79357	TRIUMPH (806)253-2584	TRX3201 EXP 5570 1040A	2250 2370 2450	100 105 110		
WILSON SEEDS, INC. P.O. Box 391 Harlan, IA 51537	WILSON (712)755-3841	1140 1371	2250 2600	99 105	Y Y	Y Y
-CHECK -CHECK -CHECK		SHORT-C4327 MID-H2530 FULL-B73XMO17	2600	101 111 118	Y	Y

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Hybrid characteristics provided by entrants (blank indicates information not provided):
1 Growing Degree Days to black layer.
2 Days to black layer.
3 Prolific; Y= yes, N = no.
4 Flex Ear; Y = yes, N = no.

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.

* This agreement must be signed by an authorized individual before results involving the company's entries can be published by the Experiment Station. Except for the limitation that the name "KANSAS STATE UNIVERSITY" cannot be used in advertising (you may use something like "official state tests" or "state yield trials"), this does not preclude the use of data for advertising, if done in a fair manner.

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CONTRIBUTORS

MAIN STATION, MANHATTAN

Kraig Roozeboom
Assistant Agronomist
(Senior Author)

RESEARCH CENTERS

Patrick Evans, Colby
James Long, Parsons
Alan Schlegel, Tribune
Merle Witt, Garden City

EXPERIMENT FIELDS

W. Barney Gordon, Scandia
William Heer, Hutchinson
Keith Janssen, Ottawa
Larry Maddux and Philip Barnes, Topeka
Brian Marsh, Powhattan
Victor Martin, St. John

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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Agricultural Experiment Station, Kansas State University, Manhattan 66506-4008

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