

2009

Kansas Performance Tests with

Corn Hybrids

Report of Progress 1019



**Kansas State University
Agricultural Experiment Station
and Cooperative Extension Service**

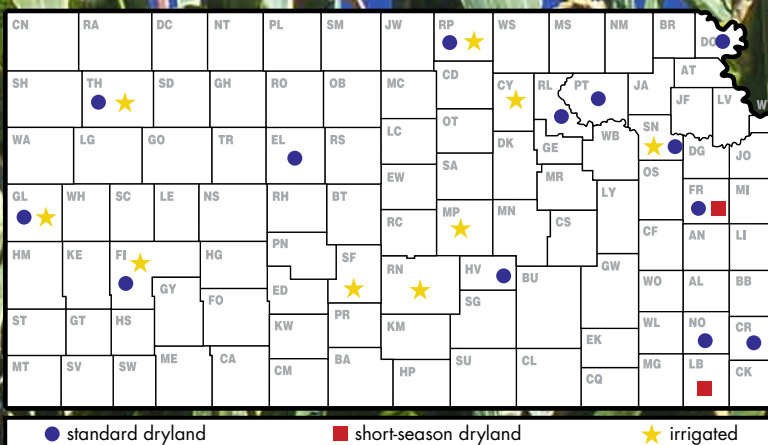


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2009 CORN CROP REVIEW

Statewide Growing Conditions

The 2009 growing season was characterized by widespread wet soils (Figure 1) and unseasonably cool temperatures. The cool weather caused development of the corn crop to lag behind the state average for most of the season, although most acres enjoyed sufficient rainfall. Harvest was significantly delayed by wet conditions starting in September as producers were unable to complete fieldwork or switched to other row crops. Despite the long delays at harvest, quality of the majority of the 2009 corn crop remained in good or excellent condition throughout the growing season. (Figure 2).

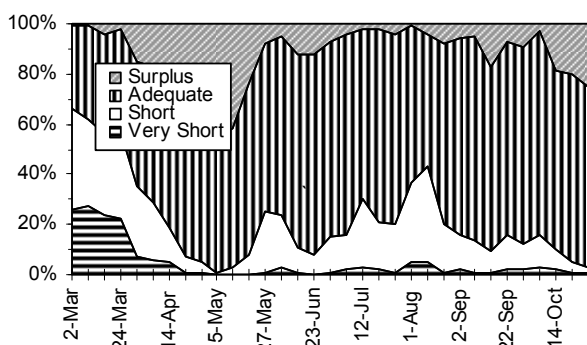


Figure 1. Statewide status of topsoil moisture.

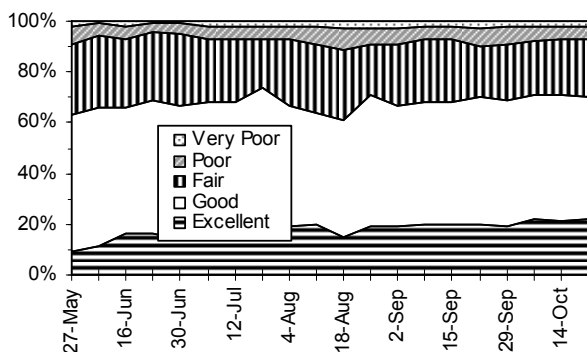


Figure 2. Condition of 2009 Kansas corn crop.

(Crop Weather Reports, Kansas Agricultural Statistics Service, Topeka)

Harvest Statistics

The October 9 Crops Report predicted a 561.2 million-bushel crop, up 15% from last year. If realized, this will be a new record for Kansas. In 2009, 3.87 million acres were harvested for grain, up 7% from 2008. The predicted average yield of 145 bu/acre is 11 bushels more than the previous year. (Kansas Agricultural Statistics Service, Topeka)

Diseases

Early in the season, cold temperatures and wet soils combined to produce symptoms of cold temperature crown stress in many fields. This physiological problem results in damage to the vascular system of a plant and can result in development of nutrient deficiency symptoms, particularly potassium.

The most notable disease in 2009, as in 2008, was gray leaf spot. This disease was observable nearly everywhere corn was grown in the state. In areas where corn was planted no-till and particularly where rotation was not practiced, the disease was present at moderately severe to severe levels, requiring timely fungicide application to preserve yield potential. Individual fields with high levels of disease were found in nearly every area of the state except southeast Kansas, where tillage and rotation have kept this disease at low levels for many years. In some fields planted to susceptible hybrids, gray leaf spot lesions were found on leaves above the ear at silking.

Unlike 2008, southern rust was a minimal problem in 2009. Late planting put the crop at risk, but cooler temperatures and the lack of inoculum moving northward from Texas kept the disease to very low levels. There were no reports of the disease developing to levels that required fungicide application.

Although reports of significant grain mold problems were received from states to the north and east of Kansas in 2009, relatively little grain mold was reported in Kansas. A few fields planted to susceptible hybrids had damaging levels of *Diplodia* ear rot. No reports of *Aspergillus* ear rot, the cause of aflatoxin production, were received in 2009. A small risk for ear mold development remained late in the season in fields where harvest was delayed by wet fields and weather that slowed grain drying.

Stalk rot levels appeared to be below long-time averages. Levels of nematodes in the soil continued a long-term trend of increasing. This is primarily a result of reduced usage of soil-applied insecticides for corn rootworm management as the percentage of acres planted to Bt corn continues to increase in the state.

Other diseases reported in 2009 included *Pythium* blight, crazy top downy mildew, anthracnose, common smut, and Goss's bacterial wilt. Though perhaps important in individual fields, none of these

occurred on a widespread basis. Physiological leaf spots, generally known as local lesion mimic mutants, were reported in many fields during the summer. These leaf spots are caused by specific genetic by environment interactions. Yield losses have not been associated with these local lesion mimic mutants.

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

Insects

Insect pests of corn have been, and can be, fairly well managed by a good scouting program and prompt action, if warranted. Because of this, we have not seen large-scale, widespread pest problems throughout the state. We continue to have scattered problems. Some individual fields in both southeast and south central Kansas had early season wireworm damage.

Seed treatments provide some protection for most early season pests, but in some cases, the cool weather delayed germination past the point at which seed treatments were still effective. A few isolated fields had wheat stem maggot damage. This happens only rarely, but when it does occur, it is in seedling corn planted in wheat that has been pastured through the winter and then sprayed before planting corn.

A few instances of corn leaf aphid infestations were observed, and a few more fields had European corn borer infestations than in the past few years. Western Kansas spider mite infestations seemed to be much less apparent, probably because of the cooler weather. Black cutworms caused some fields to be replanted in southeast Kansas, but the problem was not widespread.

(Jeff Whitworth, Kansas State University Department of Entomology)

2009 PERFORMANCE TESTS

Objectives and Procedures

Corn performance tests, conducted annually by the Kansas Agricultural Experiment Station, provide farmers, extension workers, and seed industry personnel with unbiased agronomic information on many corn hybrids marketed in the state. Entry fees from private seed companies finance the tests. Because entry selection and location are voluntary, not all hybrids grown in the state are included in tests, and the same group of hybrids is not grown uniformly at all test locations. Many companies submit seed treated with systemic insecticides, which can affect

yield in some situations. A column listing insecticide seed treatments for each hybrid is included in Table 11 to help interpret yield results.

Three to four plots (replications) of each hybrid were grown at each location in a randomized complete block design. Each harvested plot consisted of two rows trimmed to a specific length, ranging from 20 to 30 feet at the different locations.

Explanatory information is given in summaries preceding data for each test. Tables 2 through 10 contain results from the individual performance tests. Hybrids are listed together by company name.

A summary of growing season weather data is given for individual test discussions. Precipitation graphs include cumulative lines for 2009 and the 30-year normal in addition to daily rainfall amounts since last fall. Temperature graphs include daily maximum and minimum temperatures compared with normal. General trends in precipitation and temperature relative to normal are readily observed in the graphs. A table with monthly totals and averages for the growing season also is included.

The growth unit, or growing degree day concept, was developed to measure the amount of heat available for growth and maturation. To calculate the daily accumulation, add the maximum and minimum temperatures for each day, divide by 2, and subtract a base temperature of 50. Any temperature below 50°F was considered to be 50, and any temperature over 86°F was considered 86.

Most corn tests were planted at a rate 10% to 20% in excess of the desired population and thinned only to remove doubles. Planting to stand enables evaluation of product performance for the entire growing season. Grain yields are reported as bushels per acre of shelled grain (56 lb/bu) adjusted to a moisture content of 15.5%. Yields also are presented as percentage of test average to speed recognition of highest-yielding hybrids. Hybrids yielding more than 100% of the test average year after year merit consideration. Adaptation to individual farms for appropriate maturity, stalk strength, and other factors also must be considered.

The percentage of lodged stalks is reported when appropriate. Severely lodged stalks or dropped ears that could not be picked up by normal harvest procedures were not included in yield. Because harvest often is delayed until the latest-maturing

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

Small differences in yield should not be overemphasized. Relative ranking and large differences are better indicators of performance. Least

significant differences (LSD) are shown at the bottom of each table. Unless two hybrids differ by at least the LSD shown, little confidence can be placed in one being superior to the other. Yield values in the top LSD group in each test are displayed in bold. The coefficient of variability (CV) can be used in combination with the LSD to estimate the degree of confidence one can have in published data from replicated tests.

Table 1. Companies entering hybrids in the 2009 Kansas Corn Performance Tests

AgriGold Hybrids St. Francisville, IL 618-943-5776 agrigold.com	Kruger Seed Co. Dike, IA 319-989-2414 krugerseed.com	NuTech Seed, LLC Forest City, IA 641-581-3350 info@yieldleader.com	Renze Hybrids Inc. Carroll, IA 800-634-2676 renzehybrids.com
DeKalb (Monsanto Seed) St. Louis, MO 314-694-1000 monsanto.com	Lewis Hybrids, Inc. Ursa, IL 217-964-2131 lewishybrids.com	Otilie RO Seed Marshalltown, IA 800-798-6884 otiliero@hughes.net	Stine Seed Co. Sheridan, IN 317-758-0800
Dyna-Gro Overland Park, KS 800-950-2231 uap.com	LG Seeds Elmwood, IL 800-752-6847 lgseeds.com	Phillips Seed Farms, Inc. Hope, KS 785-949-2204 info@phillipsseed.com	Sylvester Ranch Inc. Ottawa, KS 785-242-3598 info@sylvesterseed.com
Fontanelle Hybrids Fremont, NE 402-721-1410 fontanelle.com	MFA Incorporated Columbia, MO 573-876-5482 mfa-inc.com	Pioneer Hi-Bred Intl., Inc. Lincoln, NE 402-467-5458 pioneer.com	Taylor Seed Farms, Inc. White Cloud, KS 785-595-3236 taylorseedfarms.com
G2 Genetics by NuTech Forest City, IA 641-581-3350 info@yieldleader.com	Midland Genetics Group Ottawa, KS 785-242-3598 info@midlandgenetics.com	Premium Seed, Inc. Berwick, IL 309-462-2396 premiumseed.com	Triumph Seed Co., Inc. Ralls, TX 800-530-4789 triumphseed.com
Garst Seed Belleville, KS 785-527-2271 polanskysseed.com	Mycogen Seeds Indianapolis, IN 1-800-MYCOGEN dow.com	Producers Hybrids Battle Creek, NE 888-675-3190 producershybrids.com	

NORTHEAST KANSAS DRYLAND CORN TEST

Agronomy North Farm, Manhattan; Jane Lingenfelter, agronomist

Reading silt loam; Soybeans in 2008

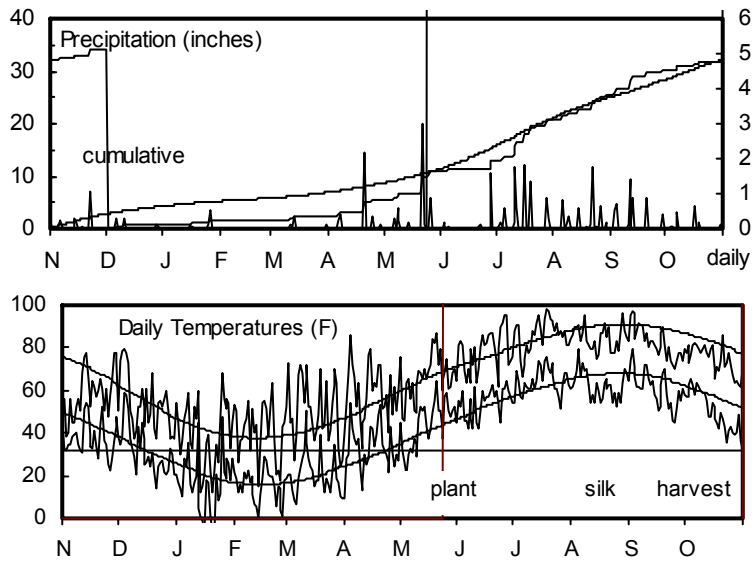
120 - 0 - 0 lb/a N, P, K

Planted on 4/24/2009; Harvested on 9/29/2009

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

Generally good growing season with minimal drought stress; stalk rot was a problem for some hybrids.

Month	Precipitation		Average Temp.		GDU	
	2009	Norm.	2009	Norm.	2009	Norm.
Nov.-Mar.	5.7	7.5	39	37	210	273
April	5.3	2.4	55	53	260	222
May	2.0	4.2	66	64	476	412
June	7.7	4.8	75	73	662	640
July	4.7	3.7	74	79	667	770
August	4.9	3.2	71	78	602	750
October	3.8	6.3	55	63	563	563
Totals:	34.0	32.1	53	54	3,439	3,628



Fuhrman Farms, Inc., Severeance; Al Fuhrman, cooperatoer; Jane Lingenfelter, agronomist

Ulysses silt loam; Soybeans in 2008

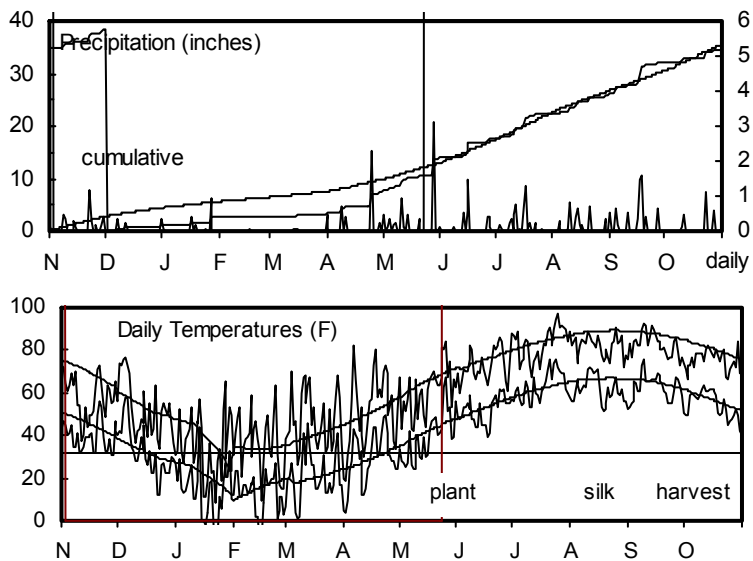
120 - 0 - 0 lb/a N, P, K

Planted on 4/23/2009; Harvested on 10/2/2009

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

Good establishment and reduced enviromental stresses led to a favorable growing season.

Month	Precipitation		Average Temp.		GDU	
	2009	Norm.	2009	Norm.	2009	Norm.
Nov.-Mar.	8.5	8.6	36	36	158	247
April	6.1	2.9	51	54	192	216
May	3.7	4.2	63	64	396	417
June	4.6	4.7	73	73	626	643
July	3.7	3.9	72	78	630	761
August	5.9	3.7	73	76	648	732
October	6.0	7.3	57	63	604	528
Totals:	38.3	35.4	51	53	3,254	3,545



NORTHEAST KANSAS DRYLAND CORN TEST continued.

Lance Rezac Farm, Emmett; Lance Rezac, cooperater; Jane Lingenfelter, agronomist

Kipson silty clay loam; Soybeans in 2008

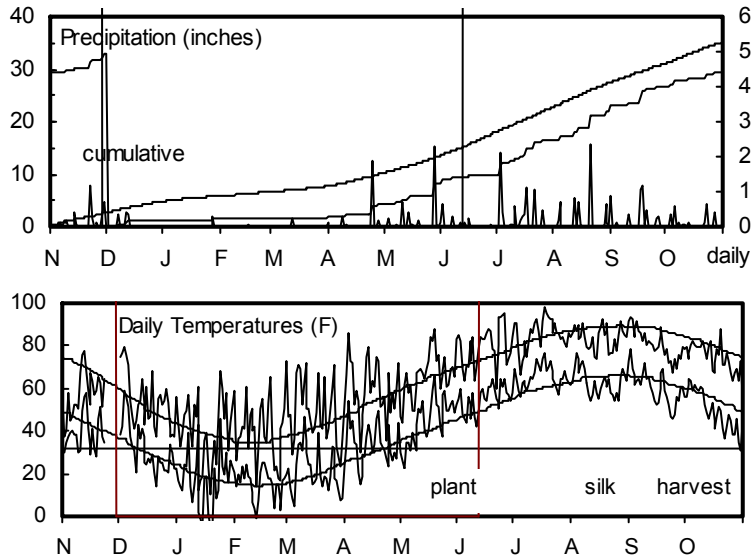
120 - 0 - 0 lb/a N, P, K

Planted on 5/13/2009; Harvested on 10/28/2009

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

Very wet soil conditions interfered with planting and harvest. Cooler than normal temperatures throughout silking and grain fill.

Month	Precipitation		Average Temp.		GDU	
	2009	Norm.	2009	Norm.	2009	Norm.
Nov.-Mar.	5.9	9.2	39	36	236	
April	4.1	2.9	56	53	265	
May	0.8	4.3	67	62	492	
June	6.7	4.3	75	72	673	
July	5.6	4.4	73	77	661	
August	3.8	3.5	70	76	571	
October	6.0	6.3	56	61	512	
Totals:	32.8	35.0	53	53	3,410	



North Central Kansas Experiment Field, Belleville; Barney Gordon, agronomist; Michael Larson and Doug Stensaas, technicians

Crete silt loam; Soybeans in 2008

180 - 30 - 0 lb/a N, P, K

Planted on 4/23/2009; Harvested on 11/9/2009

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

Dry April and May, wetter and cooler than normal for the growing season. Gray leaf spot and some stalk rot were present.

Month	Precipitation		Average Temp.		GDU	
	2009	Norm.	2009	Norm.	2009	Norm.
Nov.-Mar.	3.2	6.1	36	35	170	235
April	1.3	2.1	51	52	216	204
May	0.6	3.5	64	63	426	393
June	4.3	4.3	73	73	605	635
July	3.8	3.2	74	78	660	755
August	2.0	3.1	73	77	648	731
October	5.0	5.1	56	62	616	515
Totals:	20.2	27.4	52	52	3,343	3,468

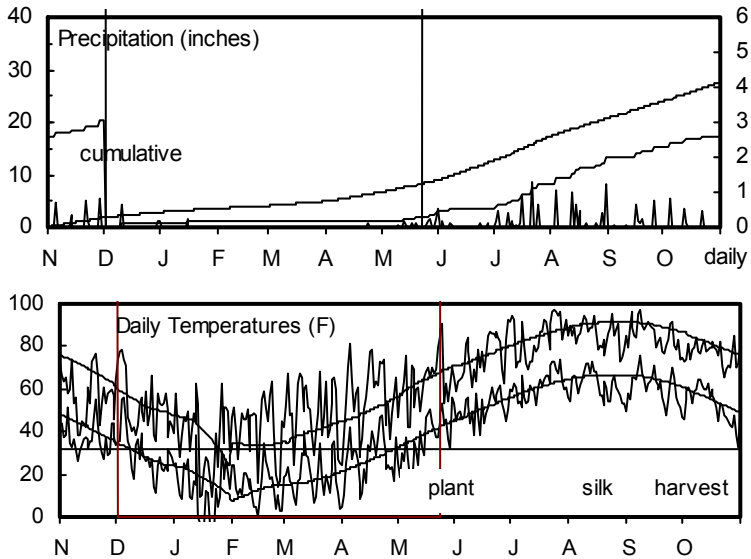


TABLE 2. NORTHEAST KANSAS DRYLAND CORN PERFORMANCE TEST, 2009

BRAND	NAME	MANHATTAN, Riley County					SEVERANCE, Doniphan County					EMMETT, Pottawatomie County					BELLEVILLE, Republic County								
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silks)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silks)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silks)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silks)	1000 ppa
AGRIGOLD	A6456VT3	155	91	59	18	74	16.3	186	89	59	18	76	20.3	133	96	58	17	12.2	--	--	--	--	--	--	--
AGRIGOLD	A6458VT3	182	107	56	16	74	16.3	203	97	56	15	75	22.1	166	119	55	16	12.2	--	--	--	--	--	--	--
AGRIGOLD	A6479VT3	174	103	58	18	74	15.9	224	107	60	18	77	19.9	141	102	58	18	11.3	--	--	--	--	--	--	--
AGRIGOLD	A6489VT3	160	94	58	19	75	16.0	190	90	59	19	76	18.2	135	97	58	17	9.3	--	--	--	--	--	--	--
AGRIGOLD	A6533VT3	188	111	56	18	75	16.3	237	113	57	18	76	20.3	177	128	56	17	13.9	--	--	--	--	--	--	--
AGRIGOLD	A6632VT3	185	109	56	19	75	17.8	235	112	57	19	74	20.6	154	111	56	19	12.1	--	--	--	--	--	--	--
DYNA-GRO	55B31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	202	94	59	16	77	25.2	
DYNA-GRO	57V07	--	--	--	--	--	--	214	102	57	18	76	20.0	--	--	--	--	--	208	97	58	16	77	24.7	
DYNA-GRO	57V15	--	--	--	--	--	--	219	104	58	16	75	19.7	--	--	--	--	--	233	108	58	16	77	24.1	
DYNA-GRO	57V21	--	--	--	--	--	--	226	108	57	19	76	21.7	--	--	--	--	--	--	--	--	--	--	--	--
DYNA-GRO	57V38	--	--	--	--	--	--	211	101	58	17	74	19.2	--	--	--	--	--	221	103	58	16	77	24.7	
DYNA-GRO	57V40	--	--	--	--	--	--	204	97	58	16	75	22.3	--	--	--	--	--	181	85	58	16	76	23.0	
DYNA-GRO	55V71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	192	89	58	16	76	23.1	
DYNA-GRO	V5373VT3	--	--	--	--	--	--	215	103	56	18	76	22.4	--	--	--	--	--	--	--	--	--	--	--	--
FONTANELLE	7T231	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	197	92	58	16	77	24.7	
FONTANELLE	7T728	--	--	--	--	--	--	--	--	--	--	--	--	130	94	59	17	13.4	217	101	59	16	75	25.0	
FONTANELLE	8T169	--	--	--	--	--	--	--	--	--	--	--	--	144	104	59	18	9.5	--	--	--	--	--	--	
FONTANELLE	8T468	--	--	--	--	--	--	--	--	--	--	--	--	145	105	57	17	11.0	--	--	--	--	--	--	
FONTANELLE	8T812	--	--	--	--	--	--	--	--	--	--	--	--	148	106	58	18	11.9	--	--	--	--	--	--	
G2 GEN. by NUTECH	1H-716 HX/LL	172	101	59	20	74	15.3	188	90	59	21	79	22.4	133	96	59	20	11.0	--	--	--	--	--	--	--
G2 GEN. by NUTECH	1X-911 HXT/LL	137	81	60	17	74	14.6	198	94	60	20	76	20.0	105	76	60	18	12.2	--	--	--	--	--	--	--
G2 GEN. by NUTECH	3A-615	150	89	59	18	74	14.1	208	99	60	18	75	18.9	124	89	58	18	11.0	--	--	--	--	--	--	--
G2 GEN. by NUTECH	5H-015	173	102	55	18	74	16.3	235	112	57	18	75	21.2	128	92	56	17	9.5	--	--	--	--	--	--	--
G2 GEN. by NUTECH	5H-210	163	96	58	17	75	16.3	224	107	60	17	74	22.6	151	108	57	16	13.3	--	--	--	--	--	--	--
G2 GEN. by NUTECH	5H-210A	171	101	58	16	75	16.3	225	107	60	17	74	21.1	168	121	58	16	14.7	--	--	--	--	--	--	--
G2 GEN. by NUTECH	5H-314 RR/HX	152	90	60	18	75	14.8	199	95	61	18	75	18.5	137	99	59	17	9.2	--	--	--	--	--	--	--
G2 GEN. by NUTECH	5H-511	163	96	59	17	75	15.8	212	101	60	18	75	19.4	138	99	59	19	10.2	--	--	--	--	--	--	--
G2 GEN. by NUTECH	5H-511A	157	93	59	17	73	14.9	217	103	60	18	76	19.2	138	99	59	18	8.9	--	--	--	--	--	--	--
G2 GEN. by NUTECH	5H-615	146	86	59	18	75	13.1	195	93	59	18	75	18.9	120	86	58	17	10.1	--	--	--	--	--	--	--
G2 GEN. by NUTECH	5H-911 RR/HX	157	93	61	17	74	15.8	208	99	62	17	74	20.2	122	88	60	18	12.8	--	--	--	--	--	--	--
G2 GEN. by NUTECH	5H-915	168	99	58	19	74	16.0	230	110	59	20	80	21.8	162	116	58	19	13.3	--	--	--	--	--	--	--
G2 GEN. by NUTECH	5X-915	183	108	59	19	75	17.6	225	108	59	20	78	21.4	125	90	58	19	13.9	--	--	--	--	--	--	--
GARST	83E90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	219	102	58	16	78	24.7	
GARST	82H82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	205	95	59	16	80	24.5	
GARST	84H80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	242	113	58	16	78	24.4	
GARST	84Q55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	227	106	58	16	77	24.9	
GARST	85V87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	219	102	58	16	74	24.5	
KRUGER	K-6010VT3	164	97	57	18	75	15.4	215	103	59	18	74	21.5	155	112	58	17	13.0	--	--	--	--	--	--	--
KRUGER	K-6015VT3	175	103	58	19	74	17.0	210	100	59	19	74	18.6	140	101	59	18	8.7	--	--	--	--	--	--	--
KRUGER	K-6114VT3	176	104	59	19	75	17.0	214	102	60	19	75	21.2	152	109	59	18	12.1	--	--	--	--	--	--	--
KRUGER	K-6116VT3	171	101	57	18	74	17.8	206	98	58	18	75	20.2	145	104	57	17	11.9	--	--	--	--	--	--	--
KRUGER	K-6208VT3	160	95	58	17	74	16.4	220	105	59	17	74	21.4	142	103	58	17	11.8	--	--	--	--	--	--	--
KRUGER	K-6213VT3	178	105	57	17	73	17.5	180	86	59	17	76	18.9	137	99	57	17	13.3	--	--	--	--	--	--	--
KRUGER	K-6214VT3	147	87	57	18	75	14.2	198	94	59	17	74	22.3	133	95	57	17	11.3	--	--	--	--	--	--	--
KRUGER	K-6408VT3	175	103	58	17	74	16.8	171	82	59	15	74	20.3	102	74	60	17	10.2	--	--	--	--	--	--	--
KRUGER	K-6410VT3	165	98	57	17	74	16.0	220	105	60	17	74	19.9	134	96	58	17	13.9	--	--	--	--	--	--	--
KRUGER	K-6411VT3	184	109	56	16	75	15.9	207	99	57	16	77	19.7	140	101	56	16	12.4	--	--	--	--	--	--	--
KRUGER	K-6412VT3	160	94	59	18	74	16.5	202	96	60	18	74	22.3	113	81	59	18	9.9	--	--	--	--	--	--	--
LEWIS	1013VT3	151	89	57	18	75	15.8	196	93	58	17	74	20.3	123	88	57	17	12.4	217	101	58	16	76	24.7	
LEWIS	7198VT3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	226	105	58	16	78	24.3	
LEWIS	910VT3	175	104	58	17	75	16.7	216	103	59	17	74	22.1	139	100	57	17	11.9	--	--	--	--	--	--	--
LG SEEDS	LG2549VT3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	230	107	58	16	76	24.6	
LG SEEDS	LG2555VT3	--	--	--	--	--	--	235	112	57	16	75	22.0	--	--	--	--	--	234	109	58	16	76	24.5	
LG SEEDS	LG2620VT3	--	--	--	--	--	--	216	103	57	18	75	20.3	--	--	--	--	--	239	111	58	16	76	23.7	
MAT CHK	EARLY DKC50-44	165	97	59	15	74	17.1	182	87	59	15	74	20.8	147	106	58	16	10.1	186	87	58	16	75	25.2	
MAT CHK	FULL-R8526YGCB	179	106	58	19	75	16.5	200	95	58	19	77	22.0	144	103	58	18	11.3	209	97	59	16	76	25.1	
MAT CHK	MID-NC-4392B	170	100	58	18	75	15.9	198	94	58	18	76	20.0	125	90	58	17								

TABLE 2 continued. NORTHEAST KANSAS DRYLAND CORN PERFORMANCE TEST, 2009

BRAND	NAME	MANHATTAN, Riley County					SEVERANCE, Doniphan County					EMMETT, Pottawatomie County					BELLEVILLE, Republic County							
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)
SYLVESTER	120HLR	151	89	58	16	75	17.2	--	--	--	--	--	116	83	57	17	12.4	222	103	59	16	74	24.6	
SYLVESTER	417BRW	175	103	56	18	74	16.2	--	--	--	--	--	135	97	57	16	11.0	183	85	58	16	76	23.7	
SYLVESTER	436BRW	191	113	58	17	75	16.1	--	--	--	--	--	135	97	57	17	9.2	212	99	58	16	77	24.7	
SYLVESTER	658HLRW	156	92	57	18	74	15.6	--	--	--	--	--	128	92	58	18	12.1	197	92	58	16	79	24.2	
SYLVESTER	670BRW	171	101	56	19	74	15.9	--	--	--	--	--	123	89	56	18	11.5	234	109	58	16	76	24.4	
SYLVESTER	779BRW	170	100	55	20	73	16.4	--	--	--	--	--	171	123	56	18	12.4	242	113	58	16	77	24.6	
SYLVESTER	7A28BRW	182	107	54	20	75	16.0	--	--	--	--	--	156	113	56	17	12.2	257	120	58	16	80	24.5	
SYLVESTER	7A58BRW	165	97	55	20	75	15.5	--	--	--	--	--	135	97	57	18	11.0	188	88	58	16	78	24.9	
TAYLOR	1933VT3	--	--	--	--	--	--	205	98	60	17	74	20.0	131	94	59	17	12.8	--	--	--	--	--	--
TAYLOR	1940VT3	180	106	57	18	76	16.0	205	98	58	17	75	22.3	143	103	57	17	12.2	--	--	--	--	--	--
TAYLOR	1944VT3	--	--	--	--	--	--	225	107	60	18	75	20.3	--	--	--	--	--	--	--	--	--	--	--
TAYLOR	2230Hx	--	--	--	--	--	--	183	88	57	18	78	20.0	153	110	58	17	12.2	197	92	59	16	77	24.5
TAYLOR	2260Hx	166	98	56	18	75	17.1	--	--	--	--	--	140	101	57	17	11.6	--	--	--	--	--	--	
TAYLOR	A-113-09	--	--	--	--	--	--	--	--	--	--	--	149	107	58	18	12.2	--	--	--	--	--	--	
TAYLOR	C-012-09	--	--	--	--	--	--	--	--	--	--	--	136	98	58	17	11.9	178	83	58	16	76	24.2	
TAYLOR	G-115-09	--	--	--	--	--	--	141	67	59	20	79	19.0	--	--	--	--	--	--	--	--	--	--	
TRIUMPH	1522V	--	--	--	--	--	--	220	105	58	20	74	21.1	--	--	--	--	--	--	--	--	--	--	
TRIUMPH	1706HX	--	--	--	--	--	--	214	102	57	19	78	17.9	--	--	--	--	--	--	--	--	--	--	
TRIUMPH	7514X	161	95	56	19	74	16.4	223	107	57	18	77	22.0	--	--	--	--	--	--	--	--	--	--	
	AVERAGE	169	169	57	18	74	16.2	210	210	58	18	76	20.7	139	139	58	17	11.8	215	215	59	16	77	24.4
	CV (%)	6	6	1	2	1	8	7	7	2	2	2	5	10	10	1	3	8	8	8	0	1	1	3
	LSD (0.05)	15	9	1	1	2	1.8	24	11	2	1	2	1.5	18	13	1	1	1.3	28	13	0	0	1	1.3

* Seed treatments and hybrid traits located in Table 11.

** Yields in bold in the top LSD group.

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

NORTHEAST KANSAS SPRINKLER-IRRIGATED CORN TEST

Kansas River Valley Experiment Field, Topeka; Larry Maddux, agronomist; Charles Clark and William Riley, technicians

Eudora silt loam; Soybeans in 2008

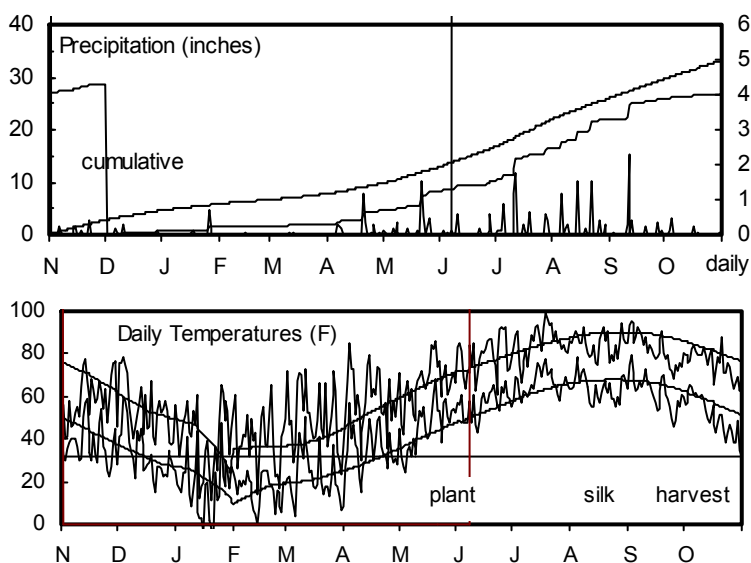
162 - 50 - 0 lb/a N, P, K

Planted on 5/8/2009; Harvested on 10/1/2009

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

Growing season was cooler and wetter than normal. Rainfall was sufficient; irrigation was not needed.

Month	Precipitation		Average Temp.		GDU	
	2009	Norm.	2009	Norm.	2009	Norm.
Nov.-Mar.	4.8	8.5	39	37	216	268
April	3.7	2.8	56	54	274	221
May	1.9	3.7	68	64	508	414
June	6.0	4.8	76	73	688	652
July	5.7	3.8	74	78	686	774
August	3.8	3.5	72	77	615	751
October	2.6	6.0	56	63	596	547
Totals:	28.5	33.0	54	54	3,582	3,627



Michael McMann Farm, Clay Center; Michael McMann, cooperater; Jane Lingenfelter, agronomist

Eudora silt loam; Soybeans in 2008

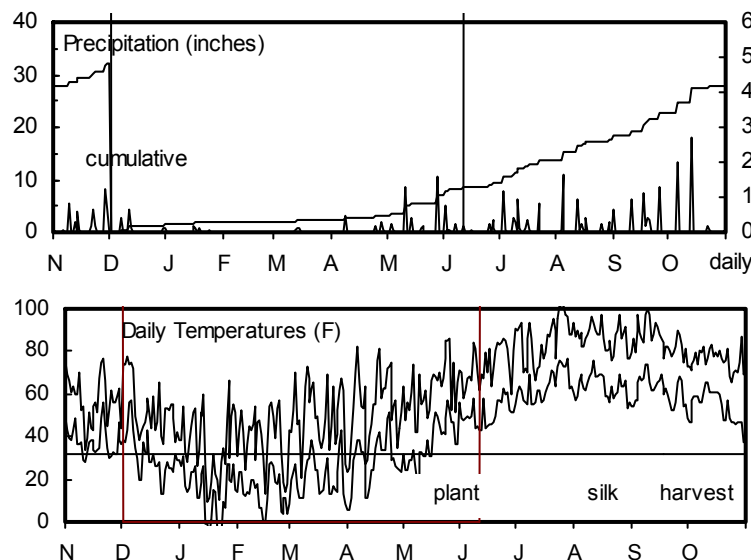
150 - 30 - 0 lb/a N, P, K

Planted on 5/12/2009; Harvested on 11/6/2009

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

Above average rainfall throughout most of the growing season.

Month	Precipitation		Average Temp.		GDU	
	2009	Norm.	2009	Norm.	2009	Norm.
Nov.-Mar.	4.8		37		175	
April	3.9		51		203	
May	1.3		63		403	
June	4.3		75		633	
July	4.0		75		692	
August	4.4		74		655	
October	9.6		56		611	
Totals:	32.4		52		3,371	



Irrigation Experiment Field, Scandia; Barney Gordon, agronomist; Michael Larson and Doug Stensaas, technicians

Crete silt loam; Corn in 2008

200 - 30 - 10 lb/a N, P, K

Planted on 5/1/2009; Harvested on 11/5/2009

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

Very dry April and May, wetter and cooler than normal for the growing season. Gray leaf spot and some stalk rot were present.

Month	Precipitation		Average Temp.		GDU	
	2009	Norm.	2009	Norm.	2009	Norm.
Nov.-Mar.	3.2	6.1	56	37	170	179
April	1.3	1.6	51	38	216	19
May	0.6	2.2	64	52	426	207
June	4.3	3.4	73	63	605	375
July	3.8	4.4	74	73	660	654
August	2.0	3.2	73	78	648	755
October	5.0	6.6	56	73	616	1279
Totals:	20.2	27.4	52	52	3,343	3,468

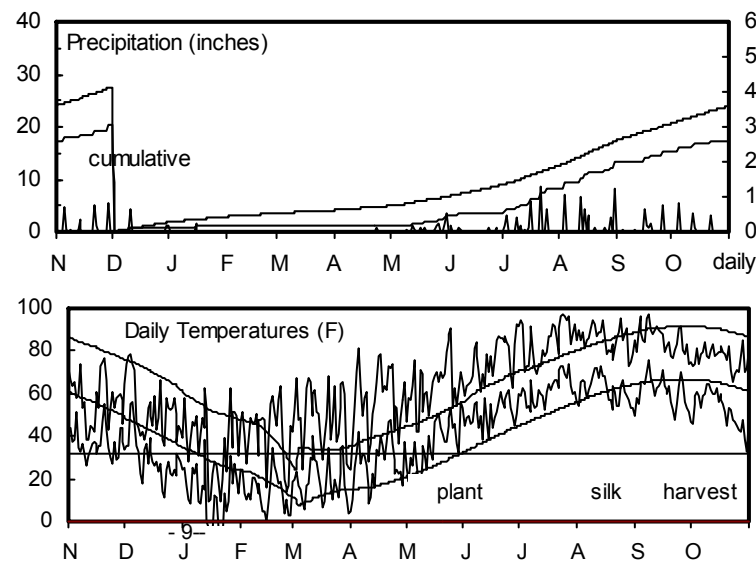


TABLE 3. NORTHEAST KANSAS SPRINKLER-IRRIGATED CORN PERFORMANCE TEST, 2009

BRAND	NAME	TOPEKA, Shawnee County					1000 ppa	MORGANVILLE, Clay County					1000 ppa	SCANDIA, Republic County					1000 ppa
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silks)		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silks)		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silks)	
AGRIGOLD	A6456VT3	185	93	60	17	60	22.6	180	91	58	17	21.3	254	100	58	18	73	33.0	
AGRIGOLD	A6458VT3	181	91	57	17	61	22.0	200	101	55	17	20.5	260	102	56	17	74	33.6	
AGRIGOLD	A6479VT3	198	100	60	17	61	22.3	226	114	59	17	20.9	237	93	59	18	71	35.1	
AGRIGOLD	A6489VT3	203	102	59	17	60	22.2	190	96	59	18	20.2	251	99	59	18	73	33.5	
AGRIGOLD	A6533VT3	215	109	59	17	60	22.7	189	96	55	18	22.4	283	111	58	18	71	33.8	
AGRIGOLD	A6632VT3	214	108	59	18	60	23.0	191	96	57	19	14.7	273	107	58	19	72	34.2	
DYNA-GRO	57V07	--	--	--	--	--	--	187	94	56	18	19.5	263	103	57	18	73	34.8	
DYNA-GRO	57V21	--	--	--	--	--	--	193	98	56	19	21.6	274	108	57	19	73	35.7	
DYNA-GRO	57V38	--	--	--	--	--	--	208	105	57	18	20.0	253	99	58	18	71	34.2	
DYNA-GRO	57V40	--	--	--	--	--	--	194	98	56	17	20.8	253	100	58	17	73	33.2	
DYNA-GRO	58V72	--	--	--	--	--	--	184	93	56	18	19.5	237	93	57	18	74	34.3	
DYNA-GRO	V5373VT3	--	--	--	--	--	--	207	105	56	19	24.1	261	103	57	19	74	35.4	
FONTANELLE	7T728	187	94	59	17	58	23.2	--	--	--	--	--	258	101	60	18	68	35.2	
FONTANELLE	8T169	199	100	59	17	60	22.4	--	--	--	--	--	257	101	59	19	72	35.6	
FONTANELLE	8T468	175	88	59	17	59	23.1	--	--	--	--	--	260	102	59	18	69	33.2	
FONTANELLE	8T812	201	101	60	17	59	22.4	--	--	--	--	--	249	98	59	18	72	33.8	
G2 GEN. by NUTECH	1H-716 HX/LL	176	89	59	18	65	22.6	206	104	57	20	20.3	249	98	59	19	74	34.1	
G2 GEN. by NUTECH	3A-615	166	84	60	17	61	22.8	177	89	57	18	18.2	255	100	59	18	73	34.6	
G2 GEN. by NUTECH	5H-615	185	93	60	17	60	21.5	169	86	57	18	17.6	261	102	59	19	71	34.0	
G2 GEN. by NUTECH	5H-915	201	101	58	18	65	22.2	189	96	56	19	21.8	243	95	58	18	75	34.5	
GARST	82H82	--	--	--	--	--	--	--	--	--	--	--	257	101	60	19	74	34.0	
GARST	82R44	--	--	--	--	--	--	--	--	--	--	--	249	98	59	19	75	33.6	
GARST	83C55	--	--	--	--	--	--	--	--	--	--	--	255	100	57	18	74	34.2	
GARST	83P07	--	--	--	--	--	--	--	--	--	--	--	264	104	55	19	74	33.6	
GARST	83T94	--	--	--	--	--	--	--	--	--	--	--	255	100	56	18	72	33.7	
KRUGER	K-6010VT3	193	97	60	17	59	23.2	196	99	58	17	21.2	250	98	58	18	69	35.6	
KRUGER	K-6015VT3	205	103	60	17	60	22.4	187	95	59	18	21.2	263	103	59	18	70	34.8	
KRUGER	K-6114VT3	184	93	61	17	59	22.9	216	109	60	19	22.2	242	95	59	18	73	36.1	
KRUGER	K-6116VT3	199	100	59	17	58	22.3	229	116	57	18	22.2	260	102	60	18	69	35.5	
KRUGER	K-6208VT3	192	97	60	17	59	23.3	207	105	58	17	22.9	270	106	59	18	71	35.1	
KRUGER	K-6213VT3	191	96	59	17	59	22.4	197	99	57	17	21.6	248	98	58	17	70	33.7	
KRUGER	K-6214VT3	187	94	59	17	58	22.0	196	99	57	17	21.6	246	97	59	17	69	34.2	
KRUGER	K-6408VT3	182	92	60	17	61	22.0	189	96	59	17	19.0	--	--	--	--	--		
KRUGER	K-6410VT3	204	103	58	17	59	23.5	201	101	57	17	21.5	253	99	58	17	70	35.1	
KRUGER	K-6411VT3	196	99	59	17	60	22.2	179	91	56	16	19.3	239	94	56	17	74	35.4	
KRUGER	K-6412VT3	200	101	61	17	58	22.8	192	97	59	18	22.4	238	93	59	17	69	34.1	
KRUGER	K-6606VT3	--	--	--	--	--	--	--	--	--	--	--	222	87	58	17	69	33.6	
LEWIS	1013VT3	159	80	59	17	58	23.0	179	91	58	17	20.5	239	94	59	18	68	33.7	
LEWIS	910VT3	185	93	59	17	60	22.8	211	107	57	17	21.6	260	102	58	17	69	34.0	
LG SEEDS	LG2620VT3	--	--	--	--	--	--	--	--	--	--	--	284	112	57	18	73	34.1	
LG SEEDS	LG2627Hx	--	--	--	--	--	--	--	--	--	--	--	237	93	57	18	75	34.4	
MAT CHK	EARLY DKC50-44	161	81	59	17	59	22.9	191	96	59	16	22.8	213	84	58	16	68	34.4	
MAT CHK	FULL-R8526YGCB	202	102	60	17	60	22.5	194	98	57	19	21.8	251	99	59	19	71	34.8	
MAT CHK	MID-NC+5392B	141	71	59	17	59	22.6	194	98	58	17	21.6	261	103	59	18	70	36.0	
MIDLAND	7A58BRW	215	108	58	18	63	22.4	--	--	--	--	--	--	--	--	--	--		
MIDLAND	436BRW	215	108	60	17	61	22.0	--	--	--	--	--	--	--	--	--	--		
MIDLAND	658HLRW	186	94	59	17	61	21.6	--	--	--	--	--	--	--	--	--	--		
MIDLAND	670BRW	211	107	59	17	60	23.0	--	--	--	--	--	--	--	--	--	--		
MIDLAND	779BRW	201	101	59	17	61	22.3	--	--	--	--	--	--	--	--	--	--		
MIDLAND	7A28BRW	250	126	58	17	65	22.6	--	--	--	--	--	--	--	--	--	--		
MYCOGEN	2E696	175	88	61	17	62	22.5	198	100	58	17	21.5	249	98	59	17	74	35.4	
MYCOGEN	2G847	209	105	60	18	60	22.6	208	105	58	19	21.5	257	101	59	19	71	34.6	
MYCOGEN	2H735	178	90	58	17	59	22.4	214	108	56	17	20.3	248	98	58	17	74	34.1	
MYCOGEN	2T699	173	87	58	17	60	22.6	209	105	57	17	22.4	238	93	57	17	70	35.1	
MYCOGEN	2T789	196	99	59	17	63	22.0	193	98	57	19	16.6	253	99	58	18	73	33.1	
MYCOGEN	2T832	230	116	58	18	62	22.2	189	96	56	18	20.0	266	105	57	19	74	35.0	
MYCOGEN	2V732	225	113	59	17	61	22.9	171	87	57	18	19.9	251	99	58	18	72	37.0	
NUTECH	3A-811	211	107	59	17	61	22.5	218	110	59	17	21.2	215	84	59	17	73	36.0	
NUTECH	3T-110 VT3	176	89	58	17	60	22.3	194	98	56	17	20.3	242	95	58	18	71	33.4	
NUTECH	3T-413	220	111	59	17	60	23.1	218	110	57	19	20.6	264	104	59	18	71	34.1	
PHILLIPS	799	198	100	60	18	65	22.3	212	107	58	20	21.9	257	101	60	19	75	34.0	
PHILLIPS	784VT3	206	104	58	18	62	21.9	203	102	55	18	21.8	268	105	57	18	72	35.3	
PHILLIPS	789AG	227	114	59	18	60	22.7	211	106	56	19	22.7	273	107	58	19	73	33.8	
PHILLIPS	795VT3	219	111	59	17	61	22.4	208	105	57	18	23.7	253	100	59	18	72	34.7	
PREMIUM	P237	--	--	--	--	--	--	185	94	57	17	19.2	247	97	58	17	74	32.8	
PRODUCERS	7014VT3	180	91	58	17	61	22.1	--	--	--	--	--	260	102	56	17	73	33.6	
PRODUCERS	7134VT3	--	--	--	--	--	--	--	--	--	--	--	267	105	56	18	72	35.2	
PRODUCERS	7394VT3	213	107	59	17	60	22.5	--	--	--	--	--	282	111	57	18	73	34.5	
PRODUCERS	7414VT3	207	104	58	17	59	23.4	--	--	--	--	--	270	106	56	18	72	34.2	
PRODUCERS	7624VT3	210	106	59	18	60	22.7	--	--	--	--	--	269	106	58	19	73	34.8	

TABLE 3 continued. NORTHEAST KANSAS SPRINKLER-IRRIGATED CORN PERFORMANCE TEST, 2009

BRAND	NAME	TOPEKA, Shawnee County					MORGANVILLE, Clay County					SCANDIA, Republic County						
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silks)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silks)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silks)
RENZE	1386VT3	202	102	60	17	61	22.5	207	105	57	18	23.4	239	94	59	18	71	33.6
RENZE	1399VT3	212	107	58	17	60	22.2	207	105	57	18	22.2	257	101	59	18	70	35.2
RENZE	1428VT3	204	103	58	17	61	22.3	211	107	56	19	22.2	263	104	58	19	73	34.6
RENZE	1526VT3	226	114	58	18	62	22.5	210	106	56	19	21.6	278	109	58	20	74	34.4
RENZE	5347HX1/LL	205	104	58	17	61	22.1	203	102	57	18	21.3	247	97	58	18	73	33.7
RENZE	5X479HXT/LL	234	118	59	18	62	23.0	194	98	56	20	19.6	259	102	60	20	75	35.5
SYLVESTER	120HLR	--	--	--	--	--	--	178	90	57	17	21.3	240	94	59	17	72	33.6
SYLVESTER	417BRW	--	--	--	--	--	--	183	93	56	17	18.2	235	92	58	17	69	34.3
SYLVESTER	436BRW	--	--	--	--	--	--	204	103	57	17	19.3	263	103	58	18	72	34.3
SYLVESTER	658HLRW	--	--	--	--	--	--	205	104	58	18	22.2	234	92	58	18	73	34.4
SYLVESTER	670BRW	--	--	--	--	--	--	194	98	56	19	20.5	270	106	58	18	71	34.1
SYLVESTER	779BRW	--	--	--	--	--	--	189	96	56	19	20.5	280	110	56	18	72	34.2
SYLVESTER	7A28BRW	--	--	--	--	--	--	202	102	55	17	19.5	259	102	56	18	71	33.7
SYLVESTER	7A58BRW	--	--	--	--	--	--	225	114	56	19	20.5	289	114	58	19	73	34.0
TAYLOR	1940VT3	208	105	58	17	61	22.4	216	109	57	18	22.7	252	99	58	18	71	33.4
TAYLOR	2260Hx	202	102	58	17	62	22.2	214	108	57	18	19.0	242	95	57	18	72	34.7
TAYLOR	G-115-09	196	99	60	18	65	22.6	161	81	57	19	19.7	239	94	59	19	75	34.5
TRIUMPH	1305X	--	--	--	--	--	--	194	98	56	18	21.2	--	--	--	--	--	--
TRIUMPH	1420V	--	--	--	--	--	--	192	97	55	19	18.6	--	--	--	--	--	--
TRIUMPH	1522V	--	--	--	--	--	--	207	105	58	19	21.9	--	--	--	--	--	--
TRIUMPH	7514X	210	106	59	17	63	22.1	191	96	57	19	19.7	253	100	59	19	75	33.3
TRIUMPH	TRX91414	--	--	--	--	--	--	184	93	59	17	20.6	--	--	--	--	--	--
	Average	198	102	59	17	61	22.5	198	102	57	18	20.8	254	102	58	18	72	34.4
	CV (%)	8	8	1	1	1	4	9	9	1	3	6	6	6	1	2	3	4
	LSD (0.05)	22	11	1	0	1	1.1	26	13	1	1	1.8	26	10	1	1	3	1.9

* Seed treatments and hybrid traits located in Table 11.

** Yields in bold in the top LSD group.

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

TABLE 4. EAST KANSAS IRRIGATED CORN RESTRICTED ENTRY PERFORMANCE TEST, 2009

BRAND	NAME	HUTCHINSON, Reno County					TOPEKA, Shawnee County					SCANDIA, Republic County							
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silks)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silks)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silks)	1000 ppa
DYNA-GRO	57V38	208	97	59	17	61	22.5	226	111	59	17	61	22.4	235	99	58	18	73	33.7
DYNA-GRO	V5373VT3	228	106	57	17	61	21.3	200	98	58	17	61	22.4	228	96	57	18	75	35.9
MAT CHK	EARLY DKC50-44	194	91	59	15	59	23.0	174	85	59	16	58	21.9	204	85	58	16	68	36.0
MAT CHK	FULL-R8526YGCB	238	111	59	17	61	22.0	195	96	60	17	60	21.3	228	96	58	18	71	35.0
MAT CHK	MID-NC+5392B	207	96	59	17	61	18.9	167	82	60	17	59	22.5	234	98	59	18	73	36.3
MYCOGEN	2T789	211	98	58	17	61	22.7	219	107	60	17	62	21.4	233	98	58	18	72	34.4
MYCOGEN	2V732	207	96	58	17	60	22.1	207	102	59	17	60	22.4	276	116	58	17	74	36.5
PHILLIPS	784VT3	225	105	57	17	59	18.9	227	111	58	17	62	22.4	252	106	57	18	75	35.2
PHILLIPS	795VT3	212	99	58	17	60	22.1	221	108	59	17	60	22.6	257	108	58	18	74	34.6
	AVERAGE	214	102	58	17	60	21.5	204	102	59	17	60	22.2	238	102	58	18	73	35.3
	CV (%)	7	7	1	3	2	8	4	4	1	1	3	8	8	1	2	4	3	
	LSD (0.05)	23	11	1	1	2	2.6	13	6	1	0	1	0.9	34	14	1	1	4	1.8

* Seed treatments and hybrid traits located in Table 11.

** Yields in bold in the top LSD group.

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

EAST/CENTRAL KANSAS DRYLAND CORN TEST

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

Silty clay loam; Soybeans in 2008

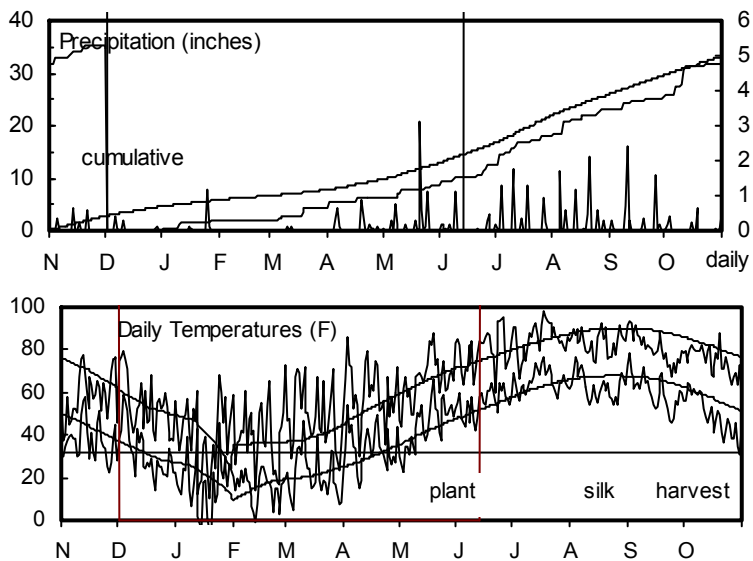
155 - 35 - 0 lb/a N, P, K

Planted on 5/14/2009; Harvested on 11/7/2009

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

Growing season was cooler and wetter than normal, delaying planting, maturity, and harvest.

Month	Precipitation		Average Temp.		GDU	
	2009	Norm.	2009	Norm.	2009	Norm.
Nov.-Mar.	6.4	8.5	39	37	236	268
April	6.6	2.8	56	54	265	221
May	2.3	3.7	67	64	492	414
June	7.2	4.8	75	73	673	652
July	7.0	3.8	73	78	661	774
August	6.0	3.5	70	77	571	751
October	4.3	6.0	55	63	570	547
Totals:	39.8	33.0	53	54	3,469	3,627



East Central Kansas Experiment Field, Ottawa; Larry Maddux, agronomist; Jim Kimball, technician

Woodson silt loam; Soybeans in 2008

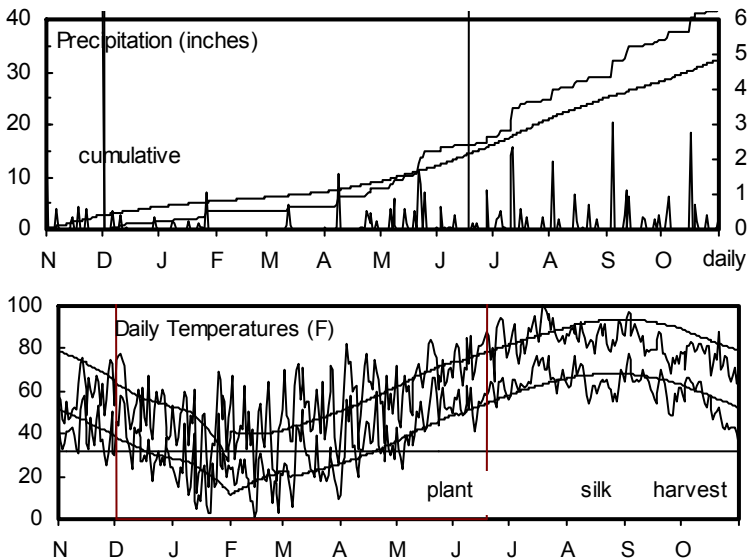
80 - 0 - 0 lb/a N, P, K

Planted on 5/19/2009; Harvested on 11/10/2009

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

Several violent storms damaged plots; some hybrids had a significant degree of green snap.

Month	Precipitation		Average Temp.		GDU	
	2009	Norm.	2009	Norm.	2009	Norm.
Nov.-Mar.	8.0	7.8	41	39	212	319
April	6.9	2.7	57	56	279	260
May	2.7	3.9	68	65	514	449
June	7.1	4.6	77	74	717	667
July	4.6	3.7	75	80	703	778
August	6.9	3.0	72	79	619	756
October	10.9	6.5	57	65	607	591
Totals:	47.0	32.2	55	56	3,651	3,820



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

Smolan silt loam; Soybeans in 2008

120 - 37 - 0 lb/a N, P, K

Planted on 5/20/2009; Harvested on 10/7/2009

Target stand of 18,000 plants/acre; 11.6 in. spacing

The season was characterized by favorable rainfall and below-normal temperatures. Drought stress was minimal.

Month	Precipitation		Average Temp.		GDU	
	2009	Norm.	2009	Norm.	2009	Norm.
Nov.-Mar.	3.2	7.5	40	40	238	317
April	5.8	2.4	55	56	224	253
May	3.1	4.1	66	65	459	445
June	5.3	4.4	78	75	705	677
July	4.6	3.4	76	81	715	787
August	2.0	2.9	72	80	623	767
October	8.2	5.9	56	65	577	607
Totals:	32.2	30.6	54	56	3,540	3,854

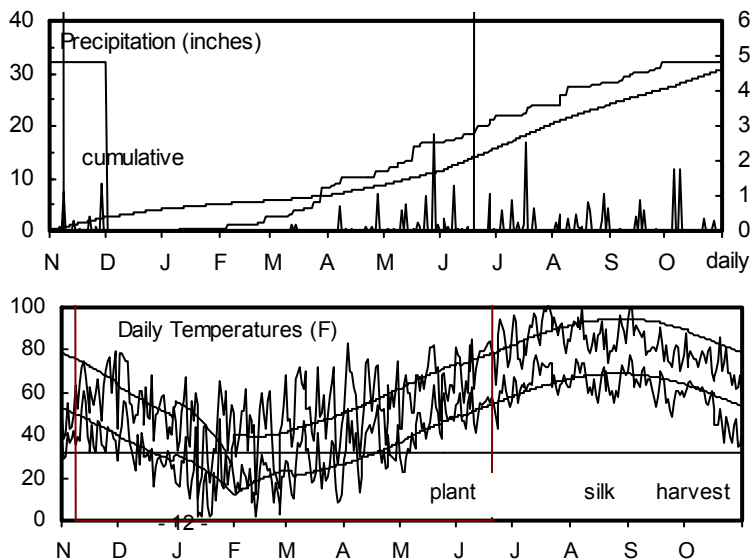


TABLE 5. EAST/CENTRAL KANSAS DRYLAND CORN PERFORMANCE TEST, 2009

BRAND	NAME	OTTAWA, Franklin County						HESSTON, Harvey County					TOPEKA, Shawnee County				
		YIELD ^a (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	1000 ppa
AGRIGOLD	A6456VT3	127	118	57	16	60	19.6	--	--	--	--	163	88	56	15	22.2	
AGRIGOLD	A6458VT3	88	82	55	15	64	19.3	--	--	--	--	173	93	54	15	21.1	
AGRIGOLD	A6479VT3	115 ⁺	106	56	16	62	18.0	--	--	--	--	190	103	57	15	21.5	
AGRIGOLD	A6489VT3	103	96	57	15	62	18.7	--	--	--	--	193	104	57	16	22.1	
AGRIGOLD	A6533VT3	125	116	56	16	62	20.9	--	--	--	--	184	99	55	15	21.9	
AGRIGOLD	A6632VT3	89 ⁺	83	56	16	61	20.4	--	--	--	--	186	100	55	15	21.6	
DYNA-GRO	55B31	--	--	--	--	--	--	112	93	58	14	22.7	--	--	--	--	
DYNA-GRO	55V71	--	--	--	--	--	--	130	109	57	14	25.0	--	--	--	--	
DYNA-GRO	57V07	112	105	55	16	61	19.1	120	100	56	17	22.5	196	105	55	15	21.3
DYNA-GRO	57V15	137	128	56	15	60	17.9	130	108	57	14	21.5	198	107	55	15	21.9
DYNA-GRO	57V21	109	101	56	16	64	21.2	--	--	--	--	200	107	55	15	21.6	
DYNA-GRO	57V38	122	114	56	16	63	20.8	138	115	57	18	22.1	192	103	56	15	21.9
DYNA-GRO	57V40	102 ⁺	95	56	16	62	17.7	128	106	58	17	20.5	184	99	56	15	22.4
DYNA-GRO	V5373VT3	118	110	56	15	63	20.9	--	--	--	--	182	98	56	15	21.0	
FONTANELLE	7T728	107	99	57	16	60	18.1	--	--	--	--	184	99	57	15	22.2	
FONTANELLE	8T468	137	127	56	16	61	18.5	--	--	--	--	168	91	56	15	21.9	
FONTANELLE	8T812	90	84	56	16	62	15.1	--	--	--	--	--	--	--	--	--	
G2 GEN. by NUTECH	1H-005 HX/LL	--	--	--	--	--	--	133	111	56	15	18.7	--	--	--	--	
G2 GEN. by NUTECH	3A-615	--	--	--	--	--	--	134	112	56	18	20.2	--	--	--	--	
G2 GEN. by NUTECH	5H-007	--	--	--	--	--	--	119	99	57	16	19.0	--	--	--	--	
G2 GEN. by NUTECH	5H-007A	--	--	--	--	--	--	121	101	57	16	21.9	--	--	--	--	
G2 GEN. by NUTECH	5H-199	--	--	--	--	--	--	113	95	57	14	19.9	--	--	--	--	
G2 GEN. by NUTECH	5H-210	--	--	--	--	--	--	137	114	59	15	19.6	--	--	--	--	
G2 GEN. by NUTECH	5H-210A	--	--	--	--	--	--	138	116	59	15	23.4	--	--	--	--	
G2 GEN. by NUTECH	5H-314 RR/HX	--	--	--	--	--	--	116	96	59	17	23.1	--	--	--	--	
G2 GEN. by NUTECH	5H-501 RR/HX	--	--	--	--	--	--	113	94	57	14	20.5	--	--	--	--	
G2 GEN. by NUTECH	5H-506 RR/HX	--	--	--	--	--	--	108	90	58	15	21.2	--	--	--	--	
G2 GEN. by NUTECH	5H-506A	--	--	--	--	--	--	126	105	57	15	21.9	--	--	--	--	
G2 GEN. by NUTECH	5H-511	--	--	--	--	--	--	111	93	57	17	21.9	--	--	--	--	
G2 GEN. by NUTECH	5H-511A	--	--	--	--	--	--	130	108	58	17	21.8	--	--	--	--	
G2 GEN. by NUTECH	5H-615	--	--	--	--	--	--	132	110	57	18	20.2	--	--	--	--	
G2 GEN. by NUTECH	5H-797	--	--	--	--	--	--	88	74	57	14	21.8	--	--	--	--	
G2 GEN. by NUTECH	5H-905	--	--	--	--	--	--	124	103	57	14	23.5	--	--	--	--	
G2 GEN. by NUTECH	5H-915	--	--	--	--	--	--	113	94	57	19	20.5	--	--	--	--	
G2 GEN. by NUTECH	5H-999	--	--	--	--	--	--	119	99	57	13	21.2	--	--	--	--	
G2 GEN. by NUTECH	5X-005	--	--	--	--	--	--	122	102	58	15	24.4	--	--	--	--	
G2 GEN. by NUTECH	5X-802	--	--	--	--	--	--	117	98	56	14	21.5	--	--	--	--	
KRUGER	K-6010VT3	121	112	57	16	61	19.0	--	--	--	--	175	94	56	15	22.1	
KRUGER	K-6015VT3	116	108	57	16	62	18.7	--	--	--	--	193	104	56	16	22.7	
KRUGER	K-6114VT3	124	116	58	17	63	19.4	--	--	--	--	156	84	57	16	22.1	
KRUGER	K-6116VT3	132 ⁺	123	56	16	61	15.9	--	--	--	--	174	94	56	15	21.1	
KRUGER	K-6208VT3	74 ⁺	69	56	16	61	19.7	--	--	--	--	184	99	56	15	22.3	
KRUGER	K-6213VT3	133	124	56	16	62	21.4	--	--	--	--	163	88	56	15	21.6	
KRUGER	K-6214VT3	90 ⁺	83	56	16	60	17.5	--	--	--	--	183	99	57	15	21.4	
KRUGER	K-6408VT3	65 ⁺	60	55	16	60	15.2	--	--	--	--	182	98	56	15	21.8	
KRUGER	K-6410VT3	93	87	57	16	62	17.1	--	--	--	--	198	107	56	15	21.9	
KRUGER	K-6411VT3	138	128	55	15	63	17.4	--	--	--	--	194	104	56	15	21.6	
KRUGER	K-6412VT3	61 ⁺	56	57	16	60	18.2	--	--	--	--	169	91	57	15	22.7	
MAT CHK	EARLY DKC50-44	124	115	56	15	59	20.8	107	90	58	14	23.2	149	80	56	15	22.6
MAT CHK	FULL-R8526YGCB	109	101	58	17	63	19.4	132	110	58	17	21.9	199	107	57	16	22.1
MAT CHK	MID-NC+5392B	132	123	57	16	61	20.4	126	105	57	15	21.8	191	103	57	15	21.8
MFA MORCORN	MC4107VT3	137	127	56	15	61	18.7	--	--	--	--	--	--	--	--	--	
MFA MORCORN	MC4207VT3	28 ⁺	26	55	16	61	17.0	--	--	--	--	--	--	--	--	--	
MIDLAND	417BRW	105	98	55	16	60	18.2	128	106	56	14	21.3	175	94	56	15	21.7
MIDLAND	7A58BRW	--	--	--	--	--	--	--	--	--	--	--	199	107	56	16	21.5
MIDLAND	120HLR	49 ⁺	46	55	16	61	17.7	109	91	58	15	22.7	--	--	--	--	
MIDLAND	436BRW	102 ⁺	95	56	16	63	18.3	125	105	57	15	22.2	207	111	56	15	21.8
MIDLAND	658HLRW	107	100	56	16	64	19.0	130	108	57	18	22.9	183	98	56	16	21.1
MIDLAND	670BRW	78 ⁺	73	55	17	61	17.1	129	108	56	18	20.2	170	92	55	16	21.5
MIDLAND	779BRW	--	--	--	--	--	--	120	100	56	18	23.1	192	104	56	15	22.0
MIDLAND	7A28BRW	118	109	54	16	64	16.0	137	114	55	18	21.8	216	116	55	15	21.3
MYCOGEN	2E696	124	115	56	15	63	18.3	--	--	--	--	184	99	57	15	22.2	
MYCOGEN	2T699	108	101	53	16	60	18.8	--	--	--	--	202	109	56	15	22.7	
MYCOGEN	2T789	80 ⁺	74	56	16	62	17.9	--	--	--	--	173	93	57	15	21.5	
MYCOGEN	2V732	138	128	57	16	63	16.9	--	--	--	--	189	102	56	16	22.3	
NUTECH	2A-804	--	--	--	--	--	--	89	75	55	14	22.5	--	--	--	--	
NUTECH	3A-098	--	--	--	--	--	--	96	80	58	14	22.1	--	--	--	--	
NUTECH	3A-799 RR	--	--	--	--	--	--	80	67	57	14	24.0	--	--	--	--	
NUTECH	3A-804	--	--	--	--	--	--	86	71	55	13	22.4	--	--	--	--	

TABLE 5 continued. EAST/CENTRAL KANSAS DRYLAND CORN PERFORMANCE TEST, 2009

BRAND	NAME	OTTAWA, Franklin County						HESSTON, Harvey County					TOPEKA, Shawnee County				
		YIELD* (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	1000 ppa
NUTECH	3A-811	--	--	--	--	--	--	91	76	58	15	21.9	--	--	--	--	--
NUTECH	3A-813	--	--	--	--	--	--	95	79	57	17	21.6	--	--	--	--	--
NUTECH	3C-413	--	--	--	--	--	--	140	117	58	17	21.8	--	--	--	--	--
NUTECH	3T-098	--	--	--	--	--	--	120	101	59	17	20.0	--	--	--	--	--
NUTECH	3T-106	--	--	--	--	--	--	127	106	58	15	21.6	--	--	--	--	--
NUTECH	3T-110 VT3	--	--	--	--	--	--	125	104	57	16	23.1	--	--	--	--	--
NUTECH	3T-300	--	--	--	--	--	--	132	110	58	14	22.7	--	--	--	--	--
NUTECH	3T-315	--	--	--	--	--	--	128	107	56	19	22.4	--	--	--	--	--
NUTECH	3T-401	--	--	--	--	--	--	103	86	59	14	22.2	--	--	--	--	--
NUTECH	3T-413	--	--	--	--	--	--	141	117	58	18	22.2	--	--	--	--	--
NUTECH	3T-600	--	--	--	--	--	--	112	93	59	15	22.4	--	--	--	--	--
NUTECH	3T-601	--	--	--	--	--	--	105	88	59	14	21.3	--	--	--	--	--
NUTECH	3T-603	--	--	--	--	--	--	103	86	58	15	22.4	--	--	--	--	--
NUTECH	3T-603B	--	--	--	--	--	--	122	101	58	15	20.5	--	--	--	--	--
NUTECH	3T-612	--	--	--	--	--	--	123	103	57	16	21.2	--	--	--	--	--
NUTECH	3T-706	--	--	--	--	--	--	120	100	60	15	21.3	--	--	--	--	--
NUTECH	3T-713	--	--	--	--	--	--	129	108	56	16	21.6	--	--	--	--	--
NUTECH	3T-801	--	--	--	--	--	--	119	99	58	15	20.3	--	--	--	--	--
NUTECH	3T-904	--	--	--	--	--	--	133	111	59	15	21.3	--	--	--	--	--
NUTECH	5B-804	--	--	--	--	--	--	98	82	56	13	20.6	--	--	--	--	--
NUTECH	5X-100	--	--	--	--	--	--	125	104	58	15	21.9	--	--	--	--	--
NUTECH	IN-001	--	--	--	--	--	--	117	98	55	12	23.1	--	--	--	--	--
NUTECH	OC-213	--	--	--	--	--	--	133	111	56	18	22.4	--	--	--	--	--
NUTECH	OC-603	--	--	--	--	--	--	125	105	58	15	21.3	--	--	--	--	--
PHILLIPS	799	93	87	57	17	65	19.6	131	109	58	20	20.2	206	111	57	16	22.6
PHILLIPS	784VT3	109	101	55	16	63	18.7	125	104	56	18	21.9	185	99	55	15	21.3
PHILLIPS	789AG	98	91	55	16	62	19.8	109	91	57	17	19.6	193	104	56	16	22.2
PHILLIPS	795VT3	117	109	56	16	63	17.8	145	121	58	18	21.9	176	95	56	16	21.5
PIONEER	35F40 HX1,LL,RR2	--	--	--	--	--	--	117	98	59	16	21.6	--	--	--	--	--
PIONEER	35K03 HX1,LL,RR2	--	--	--	--	--	--	123	103	60	16	22.9	--	--	--	--	--
PIONEER	P0541HR,HX1,LL,RR	--	--	--	--	--	--	114	95	59	15	22.5	--	--	--	--	--
PRODUCERS	5624VT3	--	--	--	--	--	--	109	91	58	14	20.3	--	--	--	--	--
PRODUCERS	5734VT3	--	--	--	--	--	--	118	99	58	14	24.2	--	--	--	--	--
PRODUCERS	6944VT3	--	--	--	--	--	--	121	101	56	15	20.9	--	--	--	--	--
PRODUCERS	7014VT3	--	--	--	--	--	--	126	105	55	14	22.4	--	--	--	--	--
PRODUCERS	XP6833BtRR	--	--	--	--	--	--	108	90	56	14	20.2	--	--	--	--	--
RENZE	1386VT3	111	103	56	16	63	20.3	--	--	--	--	--	195	105	56	15	21.9
RENZE	1399VT3	127	118	57	16	63	18.8	--	--	--	--	--	194	105	56	15	22.7
RENZE	1428VT3	130	121	56	16	62	18.2	--	--	--	--	--	178	96	56	16	22.8
RENZE	1526VT3	86 ⁺	80	56	17	64	19.7	--	--	--	--	--	210	113	56	16	21.9
RENZE	5347HX1/LL	126	117	55	16	64	20.8	--	--	--	--	--	180	97	56	16	21.1
RENZE	5X479HXT/LL	80	74	57	17	63	19.1	--	--	--	--	--	197	106	57	16	21.5
TAYLOR	1940VT3	148	138	56	16	62	17.2	--	--	--	--	--	192	103	56	15	21.9
TAYLOR	2230Hx	131	122	56	16	62	15.3	--	--	--	--	--	182	98	56	16	20.7
TAYLOR	2260Hx	81 ⁺	75	56	16	63	18.4	--	--	--	--	--	189	102	56	15	21.3
TAYLOR	C-012-09	--	--	--	--	--	--	--	--	--	--	--	183	98	56	15	21.9
TRIUMPH	1121V	--	--	--	--	--	--	127	106	58	15	22.5	179	97	57	15	22.0
TRIUMPH	1204V	--	--	--	--	--	--	143	119	58	18	22.8	190	103	55	15	22.6
TRIUMPH	1522V	--	--	--	--	--	--	--	--	--	--	--	180	97	57	16	21.1
	AVERAGE	108	108	56	16	62	18.6	120	120	57	16	21.8	186	186	56	15	21.8
	CV (%)	9	9	2	3	2	6	7	7	1	4	5	9	9	1	3	4
	LSD	13	13	2	1	1	1.5	13	11	1	1	1.8	23	12	1	1	1.3

⁺ Green snap occurred in two or more replications.

* Seed treatments and hybrid traits located in Table 11.

** Yields in bold in the top LSD group.

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

KANSAS SHORT-SEASON DRYLAND CORN TEST

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

Parsons silt loam; Corn in 2008

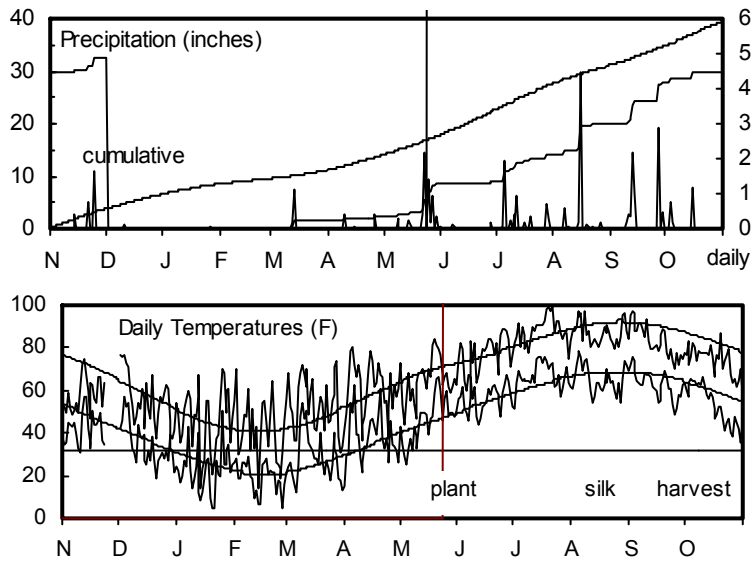
168 - 46 - 30 lb/a N, P, K

Planted on 4/24/2009; Harvested on 9/30/2009

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

Very wet all summer; drowned young plants had to be replanted.

Month	Precipitation		Average Temp.		GDU	
	2009	Norm.	2009	Norm.	2009	Norm.
Nov.-Mar.	2.4	12.0	42	42	204	348
April	6.2	3.4	56	57	255	265
May	0.4	4.6	67	65	488	448
June	5.3	4.5	78	74	734	665
July	5.7	3.3	77	80	729	780
August	7.7	3.6	73	79	631	765
October	5.0	7.9	57	65	523	608
Totals:	32.7	39.3	56	57	3,563	3,878



East Central Kansas Experiment Field, Ottawa; Larry Maddux, agronomist; Jim Kimball, technician

Woodson silt loam; Soybeans in 2008

80 - 0 - 0 lb/a N, P, K

Planted on 5/19/2009; Harvested on 11/10/2009

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

Several violent storms damaged plots; some hybrids had a significant degree of green snap.

Month	Precipitation		Average Temp.		GDU	
	2009	Norm.	2009	Norm.	2009	Norm.
Nov.-Mar.	8.0	7.8	41	39	212	319
April	6.9	2.7	57	56	279	260
May	2.7	3.9	68	65	514	449
June	7.1	4.6	77	74	717	667
July	4.6	3.7	75	80	703	778
August	6.9	3.0	72	79	619	756
October	10.9	6.5	57	65	607	591
Totals:	47.0	32.2	55	56	3,651	3,820

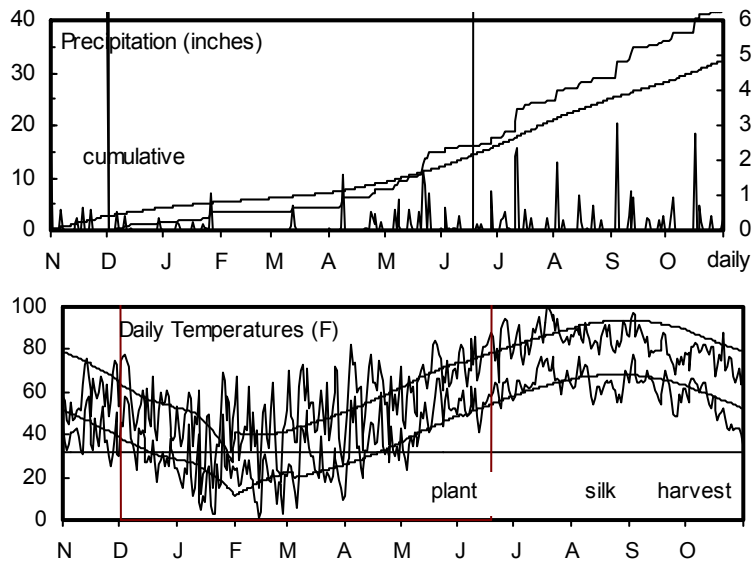


TABLE 6. KANSAS SHORT-SEASON DRYLAND CORN PERFORMANCE TEST, 2009

BRAND	NAME	PARSONS, Labette County								OTTAWA, Franklin County					
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa	HT (in)	Ear HT (in)	YIELD ⁺ (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa
DYNA-GRO	53V80	114	80	58	15	80	21.1	96	38	81	85	55	15	58	17.0
DYNA-GRO	54T42	111	78	56	17	81	21.6	98	46	84	87	56	15	61	20.2
DYNA-GRO	55B31	137	97	56	18	83	19.6	96	42	130	136	56	16	61	21.5
DYNA-GRO	55V71	129	91	56	17	82	17.6	92	42	30 ⁺	31	54	15	62	18.7
G2 GEN. by NUTECH	1H-005 HX/LL	170	119	56	19	81	22.7	102	41	--	--	--	--	--	--
G2 GEN. by NUTECH	5H-007	150	105	55	19	82	18.6	98	43	--	--	--	--	--	--
G2 GEN. by NUTECH	5H-007A	146	102	56	19	81	19.5	98	41	--	--	--	--	--	--
G2 GEN. by NUTECH	5H-199	121	85	56	17	80	18.3	97	40	--	--	--	--	--	--
G2 GEN. by NUTECH	5H-501 RR/HX	136	95	56	18	81	21.5	101	44	--	--	--	--	--	--
G2 GEN. by NUTECH	5H-506 RR/HX	154	108	56	18	81	19.6	96	41	--	--	--	--	--	--
G2 GEN. by NUTECH	5H-506A	142	100	56	19	81	21.1	99	41	--	--	--	--	--	--
G2 GEN. by NUTECH	5H-797	117	82	56	17	80	19.9	95	39	--	--	--	--	--	--
G2 GEN. by NUTECH	5H-905	164	115	56	17	80	22.2	93	44	--	--	--	--	--	--
G2 GEN. by NUTECH	5H-999	129	91	57	16	80	19.8	95	41	--	--	--	--	--	--
G2 GEN. by NUTECH	5X-005	159	111	56	19	81	20.3	98	43	--	--	--	--	--	--
G2 GEN. by NUTECH	5X-802	130	91	56	17	80	21.8	92	40	--	--	--	--	--	--
KRUGER	K-6006VT3	--	--	--	--	--	--	--	--	107	112	55	15	62	17.7
KRUGER	K-6102VT3	--	--	--	--	--	--	--	--	92	96	55	15	58	21.6
KRUGER	K-6200VT3	--	--	--	--	--	--	--	--	83	86	55	15	58	19.9
KRUGER	K-6401VT3	--	--	--	--	--	--	--	--	104	109	56	15	59	21.5
KRUGER	K-6606VT3	--	--	--	--	--	--	--	--	96	100	56	15	59	16.8
MAT CHK	EARLY DKC50-44	161	113	56	17	81	23.1	97	41	99	104	55	15	59	18.7
MAT CHK	FULL-R8526YGCB	151	106	56	18	81	22.1	93	40	130	136	57	16	62	18.4
MAT CHK	MID-NC+5392B	161	113	55	20	83	21.3	101	39	114	119	56	16	61	17.3
MFA MORCORN	MC3597VT3	123	86	56	18	82	18.6	91	35	81	84	57	15	60	17.6
MFA MORCORN	XP191VT3	150	105	56	19	81	22.2	93	36	104 ⁺	109	57	15	59	20.8
MIDLAND	120HLR	137	96	56	19	81	23.1	97	44	65 ⁺	68	56	16	59	19.0
MYCOGEN	2G611	144	101	56	18	82	22.1	100	40	103	107	55	15	59	18.2
MYCOGEN	2K662	149	104	56	18	82	22.0	98	44	93	97	55	15	63	18.6
NUTECH	3A-098	164	115	56	17	80	24.4	97	40	--	--	--	--	--	--
NUTECH	3A-799 RR	137	97	57	17	82	18.9	94	38	--	--	--	--	--	--
NUTECH	3A-804	150	106	56	17	80	21.4	99	42	--	--	--	--	--	--
NUTECH	3T-098	128	90	57	16	81	20.5	94	38	--	--	--	--	--	--
NUTECH	3T-106	153	108	56	19	81	23.3	98	43	--	--	--	--	--	--
NUTECH	3T-300	141	99	57	16	80	21.9	96	40	--	--	--	--	--	--
NUTECH	3T-401	137	97	57	17	81	20.2	96	39	--	--	--	--	--	--
NUTECH	3T-600	141	99	56	17	80	22.0	105	45	--	--	--	--	--	--
NUTECH	3T-601	153	108	57	17	80	22.2	100	40	--	--	--	--	--	--
NUTECH	3T-603	147	103	56	18	85	21.9	103	45	--	--	--	--	--	--
NUTECH	3T-603B	140	98	56	18	85	20.8	103	46	--	--	--	--	--	--
NUTECH	3T-706	156	110	56	18	82	21.4	97	40	--	--	--	--	--	--
NUTECH	3T-801	139	98	56	18	83	20.3	102	42	--	--	--	--	--	--
NUTECH	3T-904	156	109	56	18	82	22.5	99	44	--	--	--	--	--	--
NUTECH	5B-804	130	92	56	17	80	18.0	103	39	--	--	--	--	--	--
NUTECH	5X-100	121	85	56	19	83	21.6	100	44	--	--	--	--	--	--
NUTECH	IN-001	136	96	57	15	81	20.8	96	40	--	--	--	--	--	--
NUTECH	OC-603	137	96	56	18	85	18.6	104	42	--	--	--	--	--	--
PIONEER	35F40 HX1,LL,RR2	141	99	56	18	81	20.0	98	43	--	--	--	--	--	--
PIONEER	35K03 HX1,LL,RR2	147	103	56	20	82	21.0	100	35	--	--	--	--	--	--
PIONEER	P0541HR,HX1,LL,RR	163	115	56	18	84	23.9	98	36	--	--	--	--	--	--
PRODUCERS	5624VT3	141	99	57	16	82	22.2	94	37	54 ⁺	56	54	15	59	16.6
PRODUCERS	5734VT3	139	97	57	16	82	20.9	92	38	69 ⁺	72	55	15	59	19.9
PRODUCERS	6944VT3	163	114	56	18	83	22.0	101	40	124⁺	129	55	15	60	17.9
PRODUCERS	7014VT3	163	114	56	18	82	21.7	100	41	120	125	55	15	62	18.0
PRODUCERS	XP5691Bt	131	92	57	15	80	22.8	97	38	104	108	55	15	59	17.9
PRODUCERS	XP6833BtRR	132	93	56	18	82	18.3	97	38	107	111	54	15	60	19.7
TAYLOR	A-105-09	130	91	55	19	82	21.3	96	43	109	114	56	15	62	18.3
TAYLOR	F-100-09	144	101	56	18	81	21.3	93	41	121	126	56	15	61	18.2
TAYLOR	F-105-09	142	100	56	18	85	21.7	102	45	91	95	57	15	64	17.4
	AVERAGE	142	142	56	18	82	21.1	98	41	96	96	55	15	60	18.7
	CV (%)	9	9	1	5	1	12	4	7	10	10	2	2	2	6
	LSD (0.05)	18	12	1	1	1	3.5	6	4	13	14	2	0	2	1.5

⁺ Two or more replications were affected by green snap caused by several violent storms.

* Seed treatments and hybrid traits located in Table 11.

** Yields in bold in the top LSD group.

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

SOUTH CENTRAL KANSAS IRRIGATED CORN TEST

Private farm, Inman; Jane Lingenfelter, agronomist; Norman and Tracy Schmidt, cooperators

Crete silt loam; Soybeans in 2008

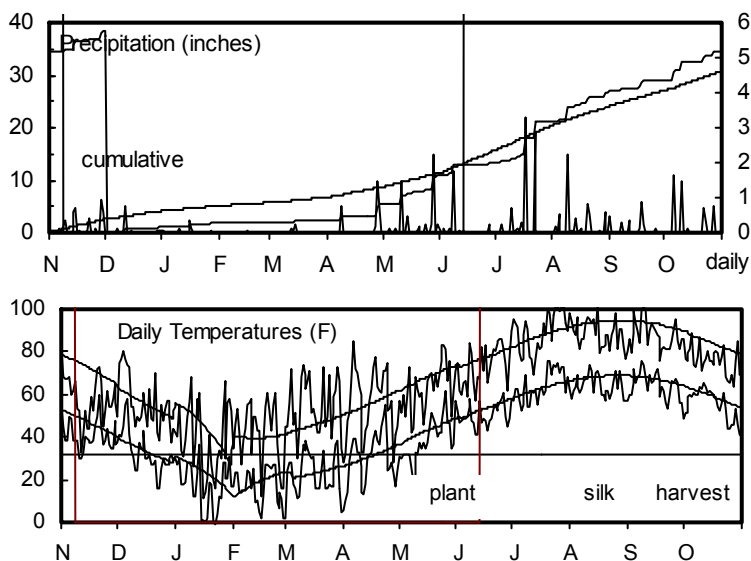
150 - 0 - 0 lb/a N, P, K

Planted on 5/14/2009; Harvested on 10/7/2009

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

Heavy rains after planting may have reduced stands; generally good growing conditions.

Month	Precipitation		Average Temp.		GDU	
	2009	Norm.	2009	Norm.	2009	Norm.
Nov.-Mar.	6.0	7.5	39	40	189	317
April	5.4	2.4	51	56	208	253
May	2.4	4.1	62	65	382	445
June	7.6	4.4	77	75	669	677
July	5.6	3.4	76	81	708	787
August	2.0	2.9	76	80	703	767
October	9.6	5.9	57	65	625	607
Totals:	38.6	30.6	54	56	3,483	3,854



Evans Seed Farm, Hutchinson; Bill Heer, agronomist; John Evans, cooperator

Punkin silt loam; Soybeans in 2008

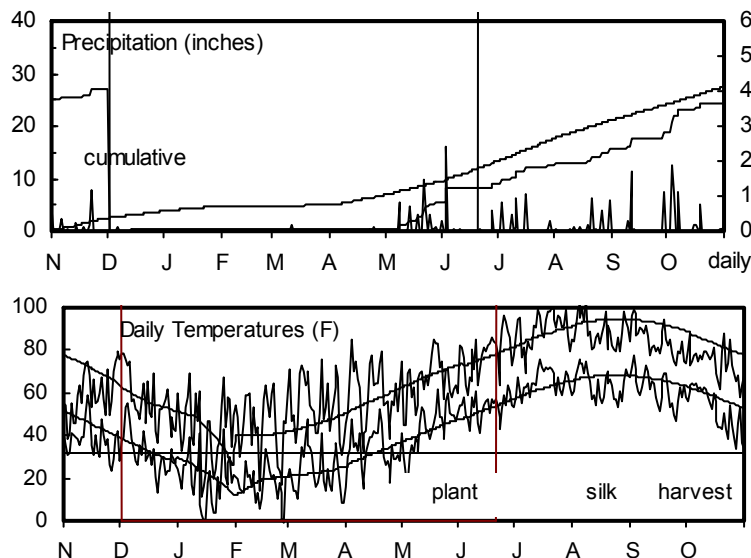
180 - 0 - 0 lb/a N, P, K

Planted on 5/21/2009; Harvested on 11/6/2009

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

Wet conditions delayed planting and harvest. Good growing conditions otherwise.

Month	Precipitation		Average Temp.		GDU	
	2009	Norm.	2009	Norm.	2009	Norm.
Nov.-Mar.	1.8	5.7	41	39	226	324
April	4.8	2.4	55	55	248	254
May	3.2	3.6	66	65	460	427
June	3.9	4.0	78	75	695	666
July	2.1	3.2	77	81	711	779
August	3.2	2.9	73	79	635	756
October	8.2	5.5	56	64	584	586
Totals:	27.1	27.3	54	56	3,559	3,792



Russell & Son Farms, St. John; Jane Lingenfelter, agronomist; Rick Russell, cooperator

Carwile fine sandy loam; Soybeans in 2008

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

Planted on 5/14/2009; Harvested on 11/4/2009

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

Wet soil conditions and slow grain drydown delayed harvest.

Month	Precipitation		Average Temp.		GDU	
	2009	Norm.	2009	Norm.	2009	Norm.
Nov.-Mar.	0.6	6.1	41	41	209	350
April	5.2	1.8	54	56	237	282
May	3.3	3.2	65	66	453	464
June	6.0	3.4	76	76	667	678
July	1.7	2.7	76	79	702	772
August	1.9	2.3	73	78	640	715
October	4.3	4.5	55	64	573	545
Totals:	23.1	24.0	54	56	3,480	3,806

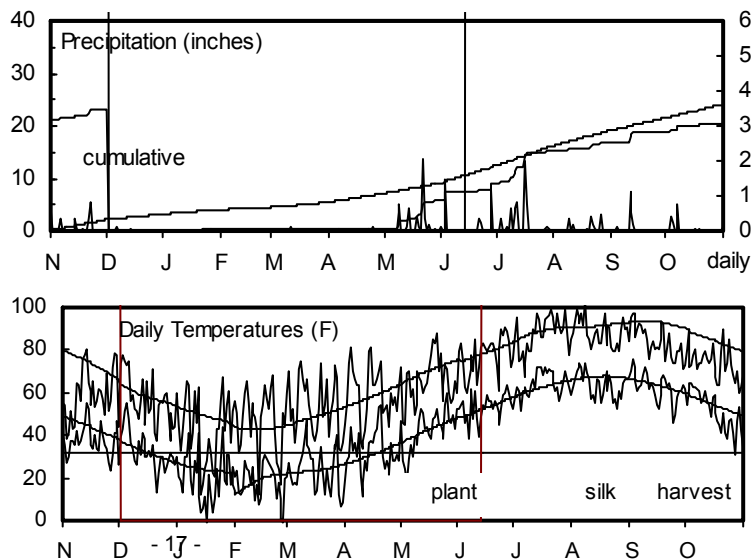


TABLE 7. SOUTH CENTRAL KANSAS IRRIGATED CORN PERFORMANCE TEST, 2009

BRAND	NAME	INMAN, McPherson County						HUTCHINSON, Reno County						ST. JOHN, Stafford County				
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	1000 ppa
DYNA-GRO	57V07	210	119	57	17	67	22.0	--	--	--	--	--	131	94	57	18	23.5	
DYNA-GRO	57V15	158	90	58	14	66	23.2	--	--	--	--	--	--	--	--	--	--	
DYNA-GRO	57V21	178	101	57	17	68	23.8	--	--	--	--	--	133	96	57	18	21.8	
DYNA-GRO	57V38	184	105	59	16	64	22.1	--	--	--	--	--	128	92	58	19	23.7	
DYNA-GRO	57V40	164	93	57	14	68	22.4	--	--	--	--	--	127	92	58	18	22.4	
DYNA-GRO	58V72	--	--	--	--	--	--	--	--	--	--	--	154	111	56	19	23.1	
DYNA-GRO	V5373VT3	193	110	58	16	69	25.5	--	--	--	--	--	162	117	58	18	22.5	
FONTANELLE	7T728	162	92	60	17	66	23.9	--	--	--	--	--	139	100	57	18	23.5	
FONTANELLE	8T169	152	87	59	17	68	25.1	--	--	--	--	--	129	93	58	18	23.4	
FONTANELLE	8T468	216	123	59	18	62	24.2	--	--	--	--	--	158	114	59	18	23.4	
FONTANELLE	8T812	151	86	60	17	65	23.4	--	--	--	--	--	131	95	57	19	21.8	
G2 GEN. by NUTECH	1H-716 HX/LL	162	92	58	21	65	19.2	195	96	58	18	62	23.4	--	--	--	--	
G2 GEN. by NUTECH	1X-716 HXT/LL	168	96	59	19	68	23.6	214	106	59	18	61	23.4	--	--	--	--	
G2 GEN. by NUTECH	3A-615	195	111	59	19	64	22.0	175	86	58	17	59	18.5	--	--	--	--	
G2 GEN. by NUTECH	5H-210	170	97	59	15	66	24.9	193	95	59	16	59	22.1	--	--	--	--	
G2 GEN. by NUTECH	5H-210A	198	113	60	16	63	25.0	--	--	--	--	--	--	--	--	--	--	
G2 GEN. by NUTECH	5H-511	167	95	58	17	66	20.8	174	86	58	16	61	20.3	--	--	--	--	
G2 GEN. by NUTECH	5H-511A	153	87	58	17	66	19.1	--	--	--	--	--	--	--	--	--	--	
G2 GEN. by NUTECH	5H-615	188	107	59	17	68	20.8	--	--	--	--	--	--	--	--	--	--	
G2 GEN. by NUTECH	5H-915	175	100	59	17	69	25.7	--	--	--	--	--	--	--	--	--	--	
MAT CHK	EARLY DKC50-44	156	89	59	14	69	23.0	204	100	59	15	57	24.0	134	97	58	19	23.4
MAT CHK	FULL-R8526YGCB	191	109	60	18	69	22.8	224	111	58	17	61	22.9	132	95	58	18	21.8
MAT CHK	MID-NC+5392B	181	103	59	17	68	23.8	200	98	58	17	60	22.0	128	92	58	17	22.8
MIDLAND	417BRW	180	102	58	16	66	21.2	208	103	57	17	60	23.2	138	99	57	19	23.1
MIDLAND	120HLR	--	--	--	--	--	--	175	86	58	16	57	21.8	--	--	--	--	--
MIDLAND	436BRW	154	87	57	15	69	21.6	205	101	57	16	61	22.0	132	95	58	18	21.8
MIDLAND	658HLRW	--	--	--	--	--	--	185	91	58	17	60	20.8	--	--	--	--	--
MIDLAND	670BRW	168	95	57	18	67	20.7	203	100	56	18	60	20.9	144	104	57	19	21.2
MIDLAND	779BRW	194	110	59	17	68	23.2	219	108	57	18	61	25.2	145	105	58	18	23.7
MIDLAND	7A28BRW	--	--	--	--	--	--	224	111	56	17	61	22.7	--	--	--	--	--
MYCOGEN	2G847	167	95	59	18	65	24.8	167	82	58	18	59	22.6	137	99	58	18	22.1
MYCOGEN	2T789	191	108	59	18	68	23.3	192	94	58	17	61	22.4	140	101	58	18	21.8
MYCOGEN	2V732	201	114	59	18	66	22.7	218	107	58	17	60	24.1	143	103	59	18	22.1
NUTECH	3A-811	162	92	59	15	67	25.9	--	--	--	--	--	--	--	--	--	--	--
NUTECH	3A-813	206	117	58	17	67	23.1	--	--	--	--	--	--	--	--	--	--	--
NUTECH	3C-413	131	75	59	15	65	24.2	--	--	--	--	--	--	--	--	--	--	--
NUTECH	3T-110 VT3	193	110	57	16	68	22.1	168	83	57	17	59	21.2	--	--	--	--	--
NUTECH	3T-413	210	120	59	18	62	22.9	220	108	59	17	60	24.4	--	--	--	--	--
NUTECH	3T-512	162	92	58	15	64	26.5	--	--	--	--	--	--	--	--	--	--	--
NUTECH	3T-612	156	89	60	17	64	22.4	--	--	--	--	--	--	--	--	--	--	--
NUTECH	3T-712	176	100	59	16	62	25.0	--	--	--	--	--	--	--	--	--	--	--
NUTECH	OC-213	159	90	56	14	67	25.3	--	--	--	--	--	--	--	--	--	--	--
PHILLIPS	799	212	121	60	18	69	22.4	198	98	59	17	62	22.6	134	97	58	19	21.1
PHILLIPS	784VT3	189	107	58	17	68	24.8	226	111	56	17	61	20.9	143	103	57	19	22.8
PHILLIPS	789AG	149	85	58	18	69	23.1	202	99	57	18	60	20.9	142	103	57	18	21.1
PHILLIPS	795VT3	176	100	58	16	62	24.4	205	101	58	17	60	24.3	104	75	57	19	23.1
PRODUCERS	7014VT3	153	87	52	12	69	24.7	209	103	55	16	61	22.9	161	116	57	18	24.8
PRODUCERS	7394VT3	172	98	57	17	68	23.6	225	111	57	17	60	20.7	147	106	58	18	23.1
PRODUCERS	7414VT3	150	85	56	16	67	23.2	216	107	56	17	60	22.0	146	105	58	18	22.8
PRODUCERS	7624VT3	152	86	57	18	69	25.1	220	109	57	18	61	23.2	133	96	58	18	22.4
STINE	9726VT3	--	--	--	--	--	--	220	108	57	18	61	22.4	--	--	--	--	--
STINE	9727VT3	--	--	--	--	--	--	203	100	56	17	60	22.6	--	--	--	--	--
STINE	9728VT3	--	--	--	--	--	--	206	102	58	17	60	22.3	--	--	--	--	--
STINE	9806VT3	--	--	--	--	--	--	201	99	56	18	60	17.4	--	--	--	--	--
TRIUMPH	1522V	195	111	59	20	62	22.2	199	98	59	18	58	22.1	133	96	58	18	24.2
TRIUMPH	1536H	190	108	60	16	69	22.8	204	101	58	16	61	24.6	143	103	57	18	21.1
TRIUMPH	7514X	189	108	58	17	68	22.6	205	101	57	18	61	23.2	144	104	59	18	21.9
	AVERAGE	176	176	58	17	66	23.3	203	203	58	17	60	22.3	139	139	58	18	22.6
	CV (%)	10	10	2	7	1	4	8	8	1	2	2	6	8	8	2	5	4
	LSD (0.05)	34	20	2	2	2	1.6	22	11	1	1	2	1.9	16	12	2	1	1.1

* Seed treatments and hybrid traits located in Table 11.

** Yields in bold in the top LSD group.

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

WEST KANSAS NO-TILL DRYLAND CORN TEST

Agricultural Research Center, Hays; Wayne Aschwege, agronomist

Harney clay loam; Fallow in 2008

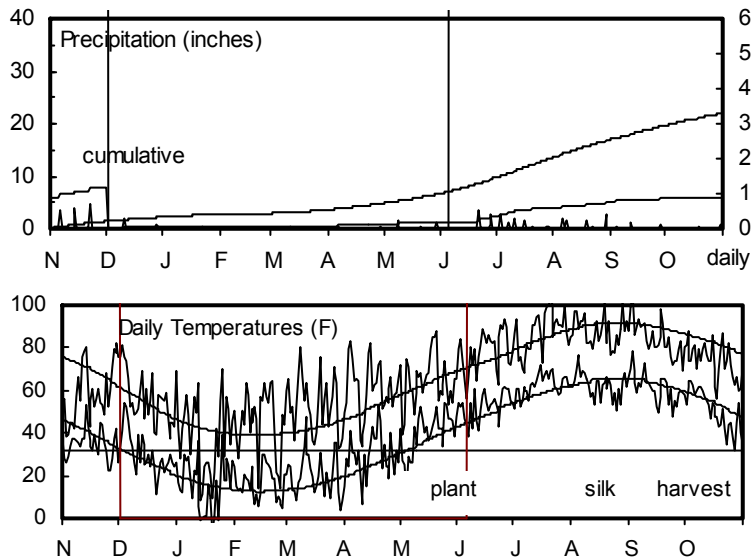
80 - 0 - 0 lb/a N, P, K

Planted on 5/6/2009; Harvested on 11/12/2009

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

Hays missed the increased precipitation enjoyed by most of the state.

Month	Precipitation		Average Temp.		GDU	
	2009	Norm.	2009	Norm.	2009	Norm.
Nov.-Mar.	0.7	4.6	39	35	223	241
April	0.5	1.7	53	50	218	191
May	1.1	2.9	65	61	463	355
June	1.6	3.5	75	71	636	594
July	1.4	3.2	75	78	681	733
August	0.4	2.6	72	76	619	712
October	2.3	3.5	54	61	551	517
Totals:	7.9	21.9	53	52	3,390	3,343



Southwest Research-Extension Center, Garden City; Pat Evans, agronomist; Monty Spangler, technician

Keith silt loam; Wheat in 2008

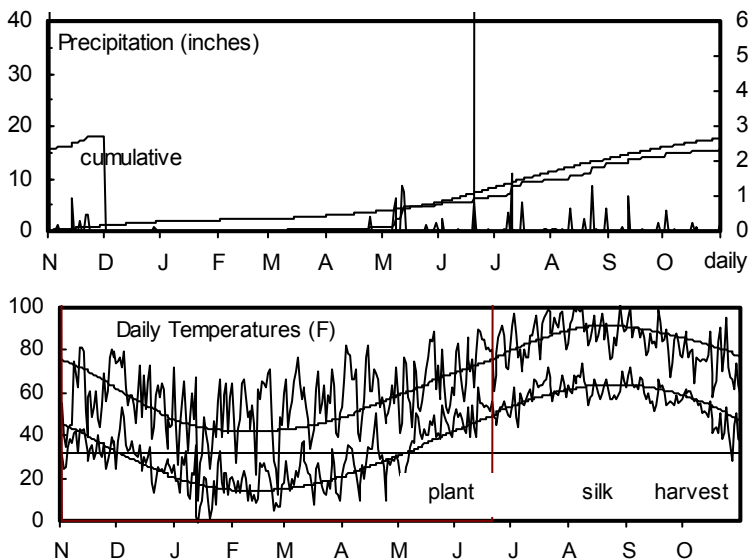
160 - 0 - 0 lb/a N, P, K

Planted on 5/21/2009; Harvested on 10/1/2009

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

Dry winter through March; wet conditions April through the summer. Hailstorm on July 17 caused damage during silking.

Month	Precipitation		Average Temp.		GDU	
	2009	Norm.	2009	Norm.	2009	Norm.
Nov.-Mar.	1.9	3.7	40	36	220	255
April	4.4	1.5	52	50	209	200
May	1.4	2.7	64	61	421	362
June	3.2	2.8	74	72	613	594
July	2.5	2.3	77	78	687	719
August	1.4	2.1	73	76	619	699
October	3.4	2.5	54	61	547	508
Totals:	18.2	17.6	53	52	3,316	3,337



WEST KANSAS NO-TILL DRYLAND CORN TEST, continued.

Southwest Research-Extension Center, Tribune; Alan Schlegel, agronomist; DeWayne Bond, technician

Richfield silt loam; Wheat in 2008

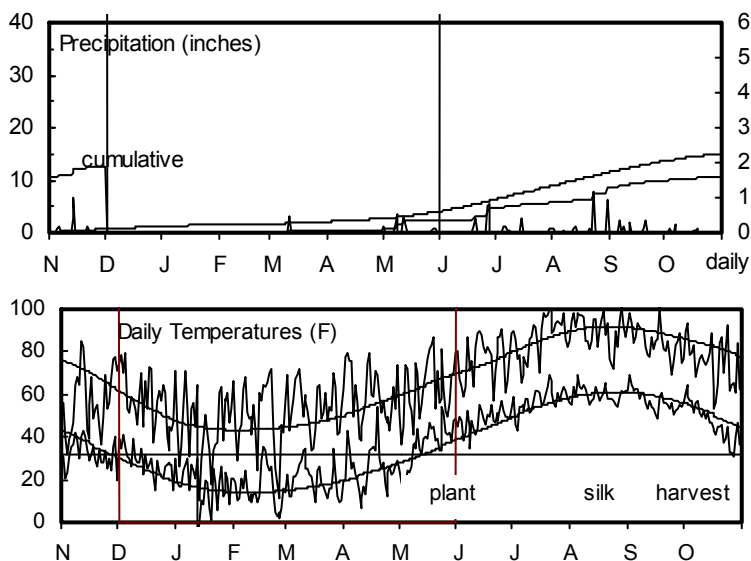
80 - 0 - 0 lb/a N, P, K

Planted on 5/1/2009; Harvested on 11/9/2009

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

Good moisture at planting.

Month	Precipitation		Average Temp.		GDU	
	2009	Norm.	2009	Norm.	2009	Norm.
Nov.-Mar.	1.9	2.8	39	36	222	261
April	1.8	1.2	51	49	207	207
May	2.2	2.2	62	59	393	356
June	1.1	2.4	72	70	563	544
July	1.6	2.4	75	76	649	674
August	1.4	2.1	71	74	570	653
October	2.6	1.9	52	60	504	483
Totals:	12.5	15.0	52	52	3,109	3,177



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

Keith silt loam; Fallow in 2008

160 - 50 - 0 lb/a N, P, K

Planted on 5/11/2009; Harvested on 10/28/2009

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

Very good growing season with above-average rainfall and below-average temperatures. Growing season ended on October 3 with freezing temperatures.

Month	Precipitation		Average Temp.		GDU	
	2009	Norm.	2009	Norm.	2009	Norm.
Nov.-Mar.	1.0	3.4	38	34	180	206
April	3.7	1.3	49	49	173	175
May	4.6	2.7	62	59	381	327
June	3.4	3.2	71	70	560	553
July	2.1	2.9	74	76	635	701
August	2.7	1.9	71	74	573	669
October	3.6	1.9	52	59	481	462
Totals:	21.1	17.4	51	51	2,983	3,093

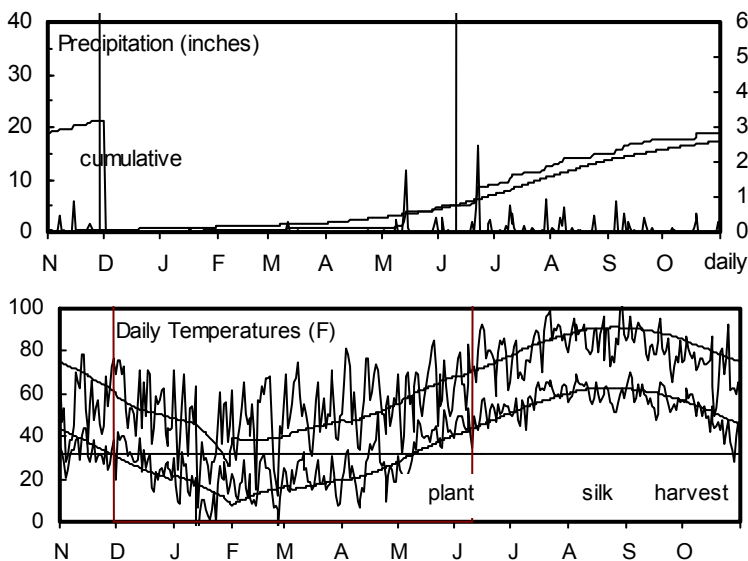


TABLE 8. WEST KANSAS NO-TILL DRYLAND CORN PERFORMANCE TEST, 2009

BRAND	NAME	HAYS, Ellis County						GARDEN CITY, Finney County						TRIBUNE, Greeley County						COLBY, Thomas County					
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa
DYNA-GRO	54T42	122	99	55	14	72	17.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DYNA-GRO	55B31	117	95	55	14	74	17.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DYNA-GRO	55V71	119	97	54	15	74	19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DYNA-GRO	56K60	112	91	54	14	74	17.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DYNA-GRO	57V07	146	119	55	16	72	16.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DYNA-GRO	57V15	129	105	54	14	74	16.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FONTANELLE	7T231	--	--	--	--	--	--	115	121	54	21	63	19.5	--	--	--	--	--	--	--	--	--	--	--	--
LG SEEDS	LG2619VT3	--	--	--	--	--	--	--	--	--	--	--	--	120	111	59	16	79	13.0	--	--	--	--	--	--
LG SEEDS	LG2620VT3	--	--	--	--	--	--	--	--	--	--	--	--	110	102	59	16	80	14.8	--	--	--	--	--	--
MAT CHK	EARLY DKC50-44	111	91	53	14	71	17.2	85	89	58	15	60	18.2	112	103	60	14	75	13.6	165	117	55	18	71	15.8
MAT CHK	FULL-R8526YGCB	137	111	56	17	74	17.2	84	88	56	19	64	18.7	108	100	60	16	76	14.1	152	108	49	26	75	16.1
MAT CHK	MID-NC+5392B	116	95	56	15	74	16.2	105	111	56	21	64	18.2	107	98	59	16	76	13.1	133	95	52	22	72	13.9
MIDLAND	417BRW	135	110	54	14	74	15.6	90	95	54	19	63	20.6	--	--	--	--	--	--	--	--	--	--	--	--
MIDLAND	436BRW	131	107	56	15	75	16.1	96	102	56	16	65	19.2	--	--	--	--	--	--	--	--	--	--	--	--
MIDLAND	658HLRW	105	86	54	15	75	17.5	80	85	56	20	67	19.2	--	--	--	--	--	--	--	--	--	--	--	--
MIDLAND	670BRW	134	109	54	16	74	17.2	101	107	52	22	66	18.4	--	--	--	--	--	--	--	--	--	--	--	--
MIDLAND	7A28BRW	--	--	--	--	--	--	90	95	52	24	68	19.2	--	--	--	--	--	--	--	--	--	--	--	--
MYCOGEN	21789	--	--	--	--	--	--	--	--	--	--	--	--	119	110	60	15	80	13.1	--	--	--	--	--	--
MYCOGEN	2V732	--	--	--	--	--	--	--	--	--	--	--	--	133	123	58	17	84	15.6	--	--	--	--	--	--
OTTILIE	4971VT3	--	--	--	--	--	--	95	101	56	17	66	19.2	113	104	60	14	78	13.8	--	--	--	--	--	--
OTTILIE	5341VT3	--	--	--	--	--	--	106	112	55	24	63	18.4	100	92	59	15	80	16.1	--	--	--	--	--	--
PHILLIPS	784VT3	116	95	55	16	74	17.6	86	90	53	24	66	19.5	79	73	59	16	81	15.8	136	97	49	24	75	15.1
PHILLIPS	795VT3	141	115	54	16	74	17.3	113	120	55	25	64	20.0	91	84	59	15	80	16.7	150	107	53	22	74	15.6
PRODUCERS	5624VT3	112	91	51	14	72	16.2	88	93	59	14	60	20.0	--	--	--	--	--	--	136	97	56	17	72	14.6
PRODUCERS	6944VT3	139	113	54	15	74	17.3	--	--	--	--	--	--	--	--	--	--	--	--	131	93	54	20	73	15.8
PRODUCERS	XP55524VT3	105	85	54	14	70	16.3	86	91	60	15	58	19.0	--	--	--	--	--	--	131	93	56	18	69	13.5
PRODUCERS	XP5691Bt	109	89	52	12	70	17.4	96	102	58	17	58	17.9	--	--	--	--	--	--	109	77	55	17	67	14.3
PRODUCERS	XP5804VT3	99	80	52	13	70	17.0	94	99	59	16	59	19.3	--	--	--	--	--	--	142	101	54	19	67	14.6
PRODUCERS	XP6833BIRR	121	99	56	14	74	14.3	96	102	56	15	65	19.7	--	--	--	--	--	--	151	107	55	18	74	16.0
STINE	9726VT3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	152	108	53	20	73	16.7
STINE	9806VT3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	144	102	52	22	74	14.5
TRIUMPH	1121V	144	118	55	15	74	17.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	AVERAGE	123	123	54	15	73	16.9	95	95	56	19	63	19.1	109	109	59	15	79	14.5	141	141	53	20	72	15.1
	CV (%)	7	7	3	4	2	6	8	8	2	9	2	6	9	9	2	4	3	10	9	9	4	16	3	12
	LSD (0.05)	11	9	2	1	2	1.4	11	11	1	2	1	1.7	13	12	1	1	4	2.2	17	12	3	5	3	2.6

* Seed treatments and hybrid traits located in Table 11.

** Yields in bold in the top LSD group.

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

WEST KANSAS IRRIGATED CORN TEST

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

Keith silt loam; Soybeans in 2008

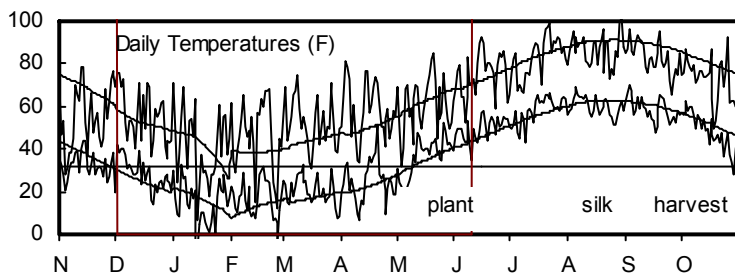
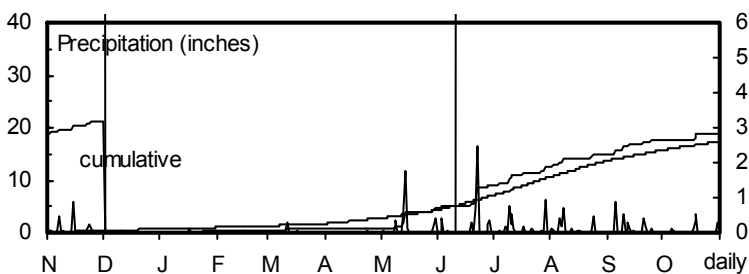
275 - 60 - 0 lb/a N, P, K

Planted on 5/11/2009; Harvested on 11/10/2009

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

Very good growing season with above-average rainfall and below-average temperatures. Test was sprayed with Hero for spider mites and rootworms and Quilt for rust and fungus.

Month	Precipitation		Average Temp.		GDU	
	2009	Norm.	2009	Norm.	2009	Norm.
Nov.-Mar.	1.0	3.4	38	34	180	206
April	3.7	1.3	49	49	173	175
May	4.6	2.7	62	59	381	327
June	3.4	3.2	71	70	560	553
July	2.1	2.9	74	76	635	701
August	2.7	1.9	71	74	573	669
October	3.6	1.9	52	59	481	462
Totals:	21.1	17.4	51	51	2,983	3,093



Southwest Research-Extension Center, Tribune; Alan Schlegel, agronomist; DeWayne Bond, technician

Ulysses silt loam; Soybeans in 2008

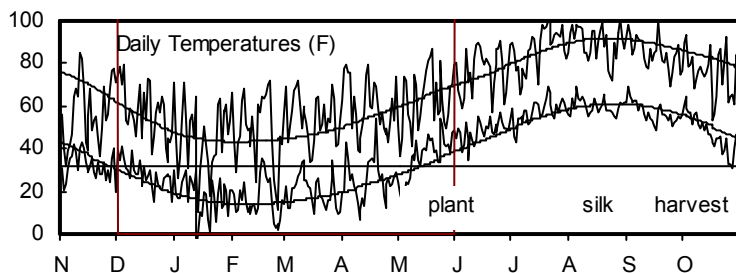
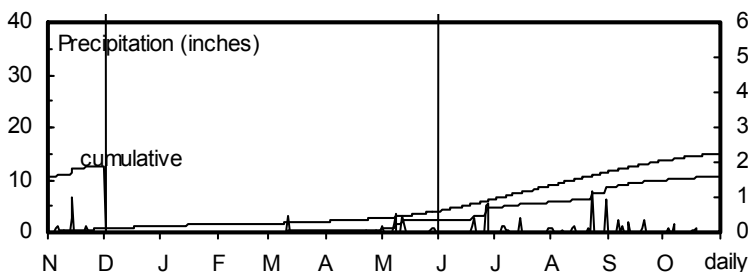
240 - 0 - 0 lb/a N, P, K

Planted on 5/1/2009; Harvested on 11/6/2009

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

Good moisture at planting.

Month	Precipitation		Average Temp.		GDU	
	2009	Norm.	2009	Norm.	2009	Norm.
Nov.-Mar.	1.9	2.8	39	36	222	261
April	1.8	1.2	51	49	207	207
May	2.2	2.2	62	59	393	356
June	1.1	2.4	72	70	563	544
July	1.6	2.4	75	76	649	674
August	1.4	2.1	71	74	570	653
October	2.6	1.9	52	60	504	483
Totals:	12.5	15.0	52	52	3,109	3,177



Southwest Research-Extension Center, Garden City; Pat Evans, agronomist; Monty Spangler, technician

Keith silt loam; Soybeans in 2008

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

Planted on 5/21/2009; Harvested on 11/5/2009

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

Wet conditions April through the summer. Hailstorm on July 17 caused 20-25% leaf loss.

Month	Precipitation		Average Temp.		GDU	
	2009	Norm.	2009	Norm.	2009	Norm.
Nov.-Mar.	2.1	3.7	40	36	220	255
April	4.4	1.5	52	50	209	200
May	1.4	2.7	64	61	421	362
June	3.2	2.8	74	72	613	594
July	2.5	2.3	77	78	687	719
August	1.4	2.1	73	76	619	699
October	3.6	2.5	54	61	547	508
Totals:	18.5	17.6	53	52	3,316	3,337

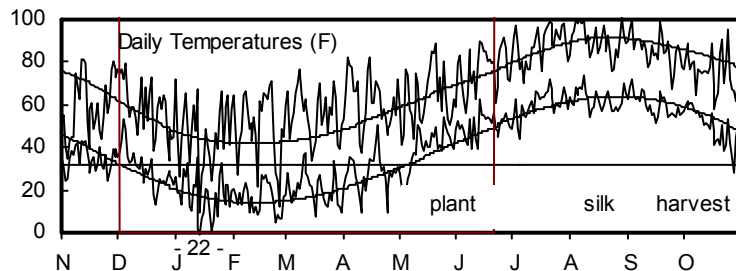
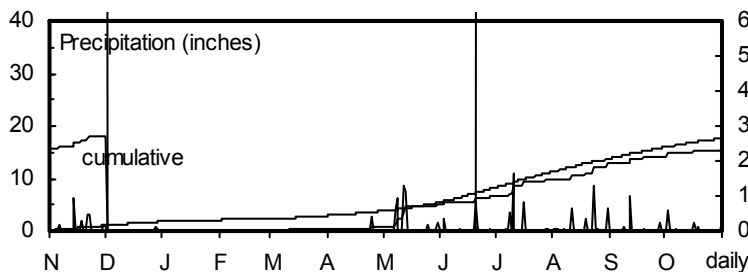


TABLE 9. WEST KANSAS IRRIGATED CORN PERFORMANCE TEST, 2009

BRAND	NAME	COLBY, Thomas County						TRIBUNE, Greeley County						GARDEN CITY, Finney County					
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa
DYNA-GRO	57V07	--	--	--	--	--	--	197	94	57	15	74	28.0	199	103	54	18	65	35.8
DYNA-GRO	57V21	--	--	--	--	--	--	213	102	58	16	76	29.0	190	98	55	19	66	37.5
DYNA-GRO	57V38	--	--	--	--	--	--	204	98	59	16	77	28.7	189	97	55	19	66	38.3
DYNA-GRO	57V40	--	--	--	--	--	--	195	94	58	15	75	26.6	182	93	57	19	64	35.8
DYNA-GRO	58V72	--	--	--	--	--	--	192	92	57	16	78	28.1	173	89	53	19	68	36.4
DYNA-GRO	V5373VT3	--	--	--	--	--	--	229	110	57	17	78	28.8	202	104	53	20	65	35.0
FONTANELLE	7T728	253	98	55	19	67	26.7	204	98	60	15	73	29.6	193	99	58	18	61	35.3
FONTANELLE	8T169	245	95	54	21	70	24.3	216	104	59	16	75	28.0	201	103	56	19	66	35.6
FONTANELLE	8T468	278	107	54	19	69	27.3	218	105	59	16	76	28.0	209	107	56	20	63	34.9
LG SEEDS	LG2549VT3	258	100	52	18	71	26.6	--	--	--	--	--	--	--	--	--	--	--	--
LG SEEDS	LG2555VT3	270	104	52	19	71	27.1	--	--	--	--	--	--	--	--	--	--	--	--
LG SEEDS	LG2616VT	--	--	--	--	--	--	186	89	57	15	78	28.2	--	--	--	--	--	--
LG SEEDS	LG2641VT3	--	--	--	--	--	--	--	--	--	--	--	--	205	105	54	19	64	35.3
LG SEEDS	LG2642VT3	--	--	--	--	--	--	--	--	--	--	--	--	202	104	53	21	65	35.8
MAT CHK	EARLY DKC50-44	260	100	56	17	66	27.1	192	92	59	14	73	28.7	176	90	57	16	62	34.5
MAT CHK	FULL-R8526YGCB	246	95	54	21	71	25.5	213	102	59	16	77	28.8	145	75	57	18	63	34.5
MAT CHK	MID-NC+5392B	266	103	54	20	69	27.4	201	97	59	15	75	28.4	202	104	56	18	64	34.7
MIDLAND	417BRW	--	--	--	--	--	--	--	--	--	--	--	--	195	100	55	18	64	36.7
MIDLAND	436BRW	--	--	--	--	--	--	--	--	--	--	--	--	201	103	57	18	65	34.7
MIDLAND	658HLRW	--	--	--	--	--	--	--	--	--	--	--	--	150	77	57	17	68	34.6
MIDLAND	670BRW	--	--	--	--	--	--	--	--	--	--	--	--	201	104	53	20	65	35.1
MIDLAND	7A28BRW	--	--	--	--	--	--	--	--	--	--	--	--	171	88	52	19	70	35.6
MYCOGEN	2C730	268	104	55	19	71	26.0	219	105	59	16	77	28.1	197	102	56	17	66	34.0
MYCOGEN	2E696	261	101	56	20	73	28.5	227	109	60	15	78	28.7	--	--	--	--	--	--
MYCOGEN	2T789	233	90	53	20	75	25.8	212	102	58	16	80	26.8	202	104	57	18	67	36.2
MYCOGEN	2T832	--	--	--	--	--	--	--	--	--	--	--	--	218	112	55	20	68	33.8
MYCOGEN	2V732	258	100	53	21	72	25.6	200	96	57	16	77	29.4	193	99	56	19	65	39.6
OTTILIE	5121VT3	--	--	--	--	--	--	204	98	58	15	76	28.8	193	99	56	18	66	36.5
OTTILIE	5341VT3	--	--	--	--	--	--	205	98	59	16	77	28.0	190	98	56	19	65	38.5
OTTILIE	5411VT3	--	--	--	--	--	--	228	109	57	17	76	27.9	197	102	54	20	66	36.4
OTTILIE	5441VT3	--	--	--	--	--	--	222	106	59	16	77	28.8	--	--	--	--	--	--
OTTILIE	5441VT3	--	--	--	--	--	--	--	--	--	--	--	--	203	105	55	19	67	37.7
PHILLIPS	784VT3	271	104	51	21	72	27.3	194	93	57	16	77	28.5	198	102	54	19	66	40.1
PHILLIPS	795VT3	272	105	53	20	71	27.2	203	97	59	16	77	28.5	191	98	55	19	66	37.5
PRODUCERS	7014VT3	259	100	52	17	71	24.4	--	--	--	--	--	--	219	112	54	17	65	33.0
PRODUCERS	7134VT3	264	102	53	19	70	27.2	--	--	--	--	--	--	217	112	55	18	64	36.4
PRODUCERS	7394VT3	268	103	54	20	70	26.5	--	--	--	--	--	--	200	103	55	17	65	35.9
PRODUCERS	7414VT3	244	94	52	20	70	26.5	--	--	--	--	--	--	193	99	55	19	64	36.1
PRODUCERS	7624VT3	254	98	52	21	71	27.1	--	--	--	--	--	--	220	113	53	21	65	38.2
STINE	9726VT3	--	--	--	--	--	--	--	--	--	--	--	--	208	107	55	21	66	34.8
STINE	9806VT3	--	--	--	--	--	--	--	--	--	--	--	--	191	98	54	20	64	34.5
TRIUMPH	1121V	256	99	56	20	73	27.0	238	114	60	15	78	28.8	--	--	--	--	--	--
TRIUMPH	1204V	265	102	53	21	72	27.3	214	102	58	16	77	28.1	189	97	55	20	66	38.2
TRIUMPH	1305X	--	--	--	--	--	--	--	--	--	--	--	--	181	93	54	20	63	35.2
TRIUMPH	1420V	--	--	--	--	--	--	--	--	--	--	--	--	192	99	52	20	65	32.1
TRIUMPH	1536H	275	106	54	20	74	26.9	--	--	--	--	--	--	--	--	--	--	--	--
TRIUMPH	5501X	229	88	56	18	71	26.0	184	88	59	15	76	27.5	--	--	--	--	--	--
TRIUMPH	7514X	269	104	54	20	73	26.8	219	105	58	17	79	28.4	189	97	56	19	67	38.3
TRIUMPH	TRX91414	--	--	--	--	--	--	--	--	--	--	--	--	200	103	53	20	65	35.3
	AVERAGE	259	259	54	19	71	26.6	209	209	58	16	76	28.4	194	194	55	19	65	36.0
	CV (%)	6	6	1	4	2	7	7	7	1	4	2	4	7	7	1	4	1	8
	LSD (0.05)	22	9	1	1	2	2.5	20	10	1	1	2	1.5	20	10	1	1	1	3.8

* Seed treatments and hybrid traits located in Table 11.

** Yields in bold in the top LSD group.

TABLE 10. WEST KANSAS IRRIGATED CORN RESTRICTED ENTRY PERFORMANCE TEST, 2009

BRAND	NAME	COLBY, Thomas County						TRIBUNE, Greeley County						GARDEN CITY, Finney County					
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa
LG SEEDS	LG2619VT3	270	105	52	21	73	27.6	205	101	58	16	77	28.4	189	104	54	20	66	34.0
LG SEEDS	LG2620VT3	254	99	52	19	73	27.0	193	95	58	15	78	28.5	173	95	55	18	65	34.8
MAT CHK	MID-NC+5392B	252	98	54	20	70	27.8	197	97	58	15	76	27.7	190	105	55	18	65	37.4
MAT CHK	FULL-R8526YGCB	269	104	54	21	71	28.2	221	108	60	16	76	28.8	163	90	56	19	64	37.4
MAT CHK	EARLY DKC50-44	251	98	57	18	67	28.3	192	94	59	14	73	28.7	181	100	57	15	62	37.8
MYCOGEN	2V732	259	101	53	20	73	28.0	204	100	59	15	77	27.4	193	106	54	19	66	40.1
MYCOGEN	2T789	248	96	53	20	75	27.9	215	105	59	16	79	28.1	182	100	55	19	68	38.3
	AVERAGE	258	258	53	20	72	27.8	204	204	59	15	77	28.2	181	181	55	18	65	37.1
	CV (%)	6	6	1	3	1	4	7	7	1	2	1	5	6	6	1	3	2	6
	LSD (0.05)	21	8	1	1	1	1.6	21	11	1	1	1	2.1	16	9	1	1	2	3.3

* Seed treatments and hybrid traits located in Table 11.

** Yields in bold in the top LSD group.

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

Table 11. Entries in the 2009 Kansas Corn Performance Tests*

	SD TRT*	GDD	DBL	RES	P	F		SD TRT	GDD	DBL	RES	P	F
AGRIGOLD							G2 GEN. by NUTECH						
A6456VT3	P250	--	110	RR	--	N	1X-911 HXT/LL	--	1325	--	HXT/LL	--	Y
A6458VT3	P250	2660	110	RR	--	Y	5H-911 RR/HX	--	1325	--	RR2/HX1/LL	--	Y
A6479VT3	P250	2700	112	RR	--	N	1H-716 HX/LL	--	1335	--	HX1/LL	--	Y
A6489VT3	P250	2700	112	RR	--	N	1X-716 HXT/LL	--	1335	--	HXT/LL	--	Y
A6533VT3	P250	2780	113	RR	--	Y	5H-314 RR/HX	--	1345	--	RR2/HX1/LL	--	Y
A6632VT3	P250	2800	115	RR	--	Y	5H-501 RR/HX	--	2465	--	RR2/HX1/LL	--	Y
DYNA-GRO							GARST						
53V80	P250	2325	92	VT3	Y	Y	5H-506 RR/HX	--	2595	--	RR2/HX1/LL	--	Y
54T42	P250	2485	98	RR,HX1	Y	Y							
55B31	P250	2580	104	RRYGCBRW	Y	Y	85V87	CE	2550	107	LL,CB,RR	N	Y
55V71	P250	2580	105	VT3	Y	Y	84Q55	CE	2600	112	CBGTLRR	N	Y
56K60	P250	2630	106	RR	Y	Y	84H80	CE	2670	112	CBGTLRW	N	Y
57V40	P250	2725	110	VT3	Y	Y	83T94	CE	2630	113	GT,CB,LL	N	Y
57V15	P250	2750	110	VT3	Y	Y	83C55	CE	2660	114	CBGTLRW	N	Y
57V38	P250	2830	112	VT3	Y	Y	83E90	CE	2620	115	CBGTLRW	N	Y
57V07	P250	2850	114	VT3	Y	Y	83P07	CE	2640	115	GTRRCBLL	N	Y
V5373VT3	P250	2850	114	VT3	Y	Y	82R44	CE	2690	117	GTRRCBLL	N	Y
57V21	P250	2870	115	VT3	Y	Y	82H82	CE	2690	118	CBGTLRR	N	Y
58V72	P250	2875	116	VT3	Y	Y							
FONTANELLE							KRUGER						
7T231	P250	2720	--	VT3	--	--	K-6116VT3	CE	--	--	--	--	--
7T728	P250	2750	--	VT3	--	--	K-6200VT3	CE	2500	100	RR	Y	N
8T468	P250	2790	--	VT3	--	--	K-6401VT3	CE	--	101	RR,BT,CRW	Y	Y
8T812	P250	2850	--	VT3	--	--	K-6102VT3	CE	--	102	RR,BT,CRW	Y	Y
8T169	P250	2875	--	VT3	--	--	K-6606VT3	CE	--	106	RR,BT,CRW	Y	Y
G2 GEN. by NUTECH							K-6006VT3						
3A-615	--	--	--	--	--	--	K-6006VT3	CE	2550	106	RR,YG+	Y	Y
5H-007	--	--	--	--	--	--	K-6408VT3	CE	2730	108	RR	Y	N
5H-007A	--	--	--	--	--	--	K-6208VT3	CE	2750	108	RR	Y	Y
5H-015	--	--	--	--	--	--	K-6410VT3	CE	2750	110	RR	Y	N
5H-199	--	--	--	--	--	--	K-6010VT3	CE	2780	110	RR	Y	N
5H-210	--	--	--	--	--	--	K-6411VT3	CE	--	111	RR,BT,CRW	Y	Y
5H-210A	--	--	--	--	--	--	K-6412VT3	CE	2630	112	RR,YG+	Y	Y
5H-503	--	--	--	--	--	--	K-6213VT3	CE	--	113	RR,BT,CRW	Y	Y
5H-506A	--	--	--	--	--	--	K-6114VT3	CE	--	114	RR,BT,CRW	Y	Y
5H-511	--	--	--	--	--	--	K-6214VT3	CE	2800	114	RR	Y	N
5H-511A	--	--	--	--	--	--	K-6015VT3	CE	2650	115	RR,YG+	Y	Y
5H-615	--	--	--	--	--	--							
5H-797	--	--	--	--	--	--	LEWIS						
5H-905	--	--	--	--	--	--	910VT3	P250	2740	110	RR, CB, RW	N	Y
5H-915	--	--	--	--	--	--	1013VT3	P250	2800	113	RR, CB, RW	N	Y
5H-999	--	--	--	--	--	--	7198VT3	P250	2820	116	CBRWRR	--	Y
5X-005	--	--	--	--	--	--							
5X-614	--	--	--	--	--	--	LG SEEDS						
5X-711	--	--	--	--	--	--	LG2549VT3	P250	2670	110	VT3	N	Y
5X-711A	--	--	--	--	--	--	LG2555VT3	P250	2670	111	VT3	N	Y
5X-802	--	--	--	--	--	--	LG2620VT3	P250	2620	112	VT3	N	Y
5X-915	--	--	--	--	--	--	LG2616VT	P250	2670	113	VT3	N	Y
							LG2619VT3	P250	2680	113	VT3	N	Y
							LG2627Hx	P250	2685	114	Hx, LL	N	Y
							LG2641VT3	P250	2685	114	VT3	N	Y
							LG2642VT3	P250	2700	115	VT3	N	N

Table 11 continued. Entries in the 2009 Kansas Corn Performance Tests

	SD TRT*	GDD	DBL	RES	P	F		SD TRT	GDD	DBL	RES	P	F
MFA MORCORN							NUTECH						
MC3597VT3	C	2490	105	VT3	Y	N	3T-612	--	--	--	--	--	--
XP191VT3	C	2750	109	VT3	N	Y	3T-706	--	--	--	--	--	--
MC4107VT3	C	2720	111	VT3	N	Y	3T-712	--	--	--	--	--	--
MC4207VT3	C	2760	112	VT3	Y	Y	3T-713	--	--	--	--	--	--
MIDLAND							3T-801	--	--	--	--	--	--
120HLR	--	--	--	--	--	--	3T-904	--	--	--	--	--	--
658HLRW	--	--	--	--	--	--	5B-804	--	--	--	--	--	--
670BRW	--	--	--	--	--	--	5N-809	--	--	--	--	--	--
779BRW	--	--	--	--	--	--	5X-100	--	--	--	--	--	--
417BRW	--	2760	110	CB	Y	Y	IN-001	--	--	--	--	--	--
436BRW	--	2780	111	CB	Y	Y	OC-113	--	--	--	--	--	--
7A28BRW	--	2840	115	CB,RR	Y	Y	OC-213	--	--	--	--	--	--
7A58BRW	--	2870	117	CB,RR	Y	Y	OC-603	--	--	--	--	--	--
MYCOGEN							OTTILIE						
2G611	C250	2510	104	VT3	--	Y	5121VT3	CE	2635	--	VT3	N	N
2K662	C250	2595	108	HXT,LL,RR2	--	Y	5341VT3	CE	2770	--	VT3	N	N
2T699	C250	2765	110	VT3	--	Y	5441VT3	CE	2800	--	VT3	Y	Y
2E696	C250	2790	110	VT3	--	--	4971VT3	CE	2810	--	VT3	Y	Y
2C730	C250	2625	112	HXT,LL,RR2	--	Y	5411VT3	CE	2810	--	VT3	N	N
2H735	C250	2755	112	RR2	--	Y	PHILLIPS						
2V732	C250	2765	113	VT3	--	--	784VT3	--	2800	111	RR,Bt	Y	Y
2T789	C250	2745	114	HXT,LL,RR2	--	Y	795VT3	--	2820	111	VT3	Y	Y
2T832	C250	2785	115	VT3	--	Y	789AG	--	2820	112	VT3	Y	Y
2G847	C250	2820	116	VT3	--	Y	799	--	2820	112	--	Y	Y
NUTECH							PIONEER						
2A-804	--	--	--	--	--	--	P0541HR,HX1,LL,	CE	2500	105	CB,RR,LL	Y	Y
3A-098	--	--	--	--	--	--	35K03 HX1,LL,RR2	CE	2530	106	LL,RR	N	Y
3A-799 RR	--	--	--	RR2	--	Y	35F40 HX1,LL,RR2	CE	2550	106	CB,RR	Y	Y
3A-804	--	--	--	--	--	--	PREMIUM						
3A-811	--	--	--	--	--	--	P237	--	2400	--	--	N	Y
3A-813	--	--	--	--	--	--	PRODUCERS						
3C-115	--	--	--	--	--	--	5624VT3	P250	--	--	RR,CB,RW	--	Y
3C-413	--	--	--	--	--	--	5734VT3	P250	--	--	RR,CB,RW	--	Y
3C-616	--	--	--	--	--	--	7394VT3	P250	--	--	RR,CB,RW	--	Y
3T-013	--	--	--	--	--	--	7414VT3	P250	--	--	RR,CB,RW	--	Y
3T-098	--	--	--	--	--	--	7624VT3	P250	--	--	RR,CB,RW	--	Y
3T-106	--	--	--	--	--	--	6944VT3	P250	2550	--	RR,Bt,RW	--	Y
3T-110 VT3	--	--	--	VT3	--	Y	7134VT3	P250	2575	--	RR,Bt,RW	--	Y
3T-300	--	--	--	--	--	--	XP55524VT3	P250	--	95	VT3	Y	Y
3T-313	--	--	--	--	--	--	XP5691Bt	P250	--	96	CB	Y	Y
3T-315	--	--	--	--	--	--	XP5804VT3	P250	--	98	VT3	Y	Y
3T-401	--	--	--	--	--	--	XP6833BtRR	P250	--	108	VT3	Y	Y
3T-413	--	--	--	--	--	--	7014VT3	P250	--	110	VT3	Y	Y
3T-512	--	--	--	--	--	--	RENZE						
3T-600	--	--	--	--	--	--	5347HX1/LL	P250	2770	112	LLCB	N	Y
3T-601	--	--	--	--	--	--	1399VT3	P250	2780	113	RR,CB, RW	Y	Y
3T-603	--	--	--	--	--	--	5X479HXT/LL	P250	2785	113	LL,CB,RW	Y	Y
3T-603B	--	--	--	--	--	--							

Table 11 continued. Entries in the 2009 Kansas Corn Performance Tests

	SD TRT*	GDD	DBL	RES	P	F	SD TRT	GDD	DBL	RES	P	F
RENZE												
1386VT3	P250	2790	115	RR, CB, RW	Y	Y						
1428VT3	P250	2800	115	RR, CB, RW	Y	Y						
1526VT3	P250	2870	117	RR, CB, RW	Y	Y						
STINE												
9727VT3	P250	2580	113	RR, CB, CRW	N	N						
9728VT3	P250	2590	114	RR, CB, CRW	N	N						
9726VT3	P250	2600	114	RR, CB, CRW	N	N						
9806VT3	P250	2620	116	RR, CB	N	Y						
SYLVESTER												
120HLR	--	--	--	--	--	--						
417BRW	--	--	--	--	--	--						
436BRW	--	--	--	--	--	--						
658HLRW	--	--	--	--	--	--						
670BRW	--	--	--	--	--	--						
779BRW	--	--	--	--	--	--						
7A28BRW	--	--	--	--	--	--						
7A58BRW	--	--	--	--	--	--						
TAYLOR												
F-100-09	P250	--	100	RR	--	Y						
A-105-09	CE	--	105	RR	--	Y						
F-105-09	P250	--	105	RR	--	Y						
2230Hx	P250	--	112	RR CB	--	--						
C-012-09	P250	--	112	VT3	--	--						
1933VT3	P250	--	113	VT3	--	--						
1940VT3	P250	--	113	VT3	--	Y						
A-113-09	CE	--	113	VT3	--	Y						
1944VT3	P250	--	114	VT3	--	--						
2260Hx	P250	--	114	--	N	N						
G-115-09	CE	--	114	--	--	--						
TRIUMPH												
5501X	--	--	--	--	--	Y						
7514X	--	--	--	--	--	--						
TRX91414	--	--	--	--	--	--						
1121V	--	2790	110	R, CB, RW	--	Y						
1204V	--	--	112	R, CB, RW	--	Y						
1305X	--	--	113	LB, CB, RW	--	Y						
1536VT3	--	2550	115	CB, RR	N	Y						
1420V	--	2770	115	R, CB, RW	--	Y						
1522V	--	2820	116	R, CB, RW	--	N						
1706HXRR	--	2630	117	VT3	N	Y						
MATURITY CHECK												
MID-NC+5392B	--	--	--	--	--	--						
EARLY DKC50-44	--	2530	100	VT3	--	--						
FULL-R8526YGCB	--	2800	118	CB	N	Y						

*SD TRT = Seed treatment (C=Cruiser, CE=Cruiser Extreme, P=Poncho. Numbers indicate rates if available); GDD = growing degree days; DBL = days to black layer; RES = herbicide, disease, and insect resistance traits [(Bt, BtCB, CB, YG, YG1, YG+, YGCB), Hx = transgenic corn borer protection; BtRW, RW, YGRW, HxRW = transgenic rootworm protection; CL, I, IT, IMI = imidazolinone resistant/tolerant; LL = Liberty Link; RR = Roundup Ready; TS, T = Triple Stack (RRCBRW)]; P = prolific; F = flex ear. Values provided by entrants.

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