

2010

Kansas Performance Tests with

Corn Hybrids

Report of Progress 1037



Kansas State University
Agricultural Experiment Station
and Cooperative Extension Service

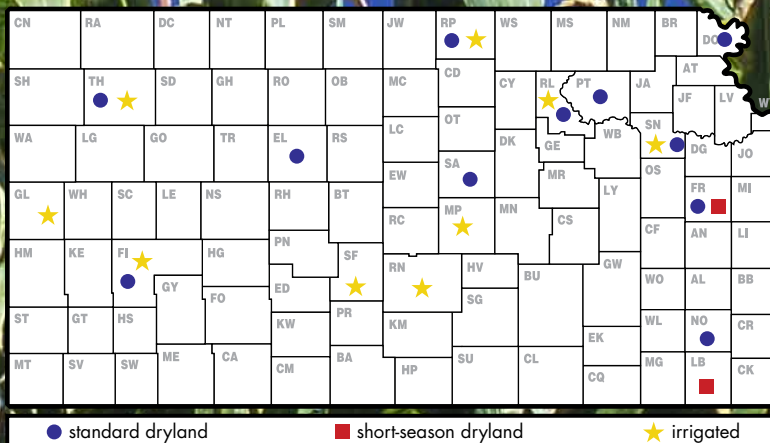


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2010 CORN CROP REVIEW

Statewide Growing Conditions

The Kansas corn growing season progressed rapidly in 2010, spurred by mostly favorable planting conditions in the spring and extremely hot temperatures during the summer. Frequent and sometimes heavy rains required that many acres be replanted, especially in southeast Kansas. Increased rainfall in the spring helped the topsoil moisture levels remain adequate throughout the state, with the exception of a two-week period in August when temperatures stayed in the triple digits (Figure 1). The nighttime temperature during those two weeks also stayed above average for that time of the year, forcing the corn crop to develop at an accelerated pace. Maturity and harvest were essentially finished by the end of September; a week ahead of the 5-year average and an entire month ahead of 2009.

Despite the stresses caused by the extreme heat, the quality of the 2010 corn crop remained good or fair for the duration of the growing season (Figure 2).

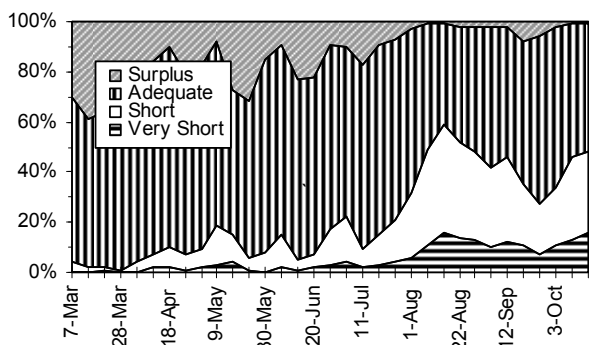


Figure 1. Statewide status of topsoil moisture.

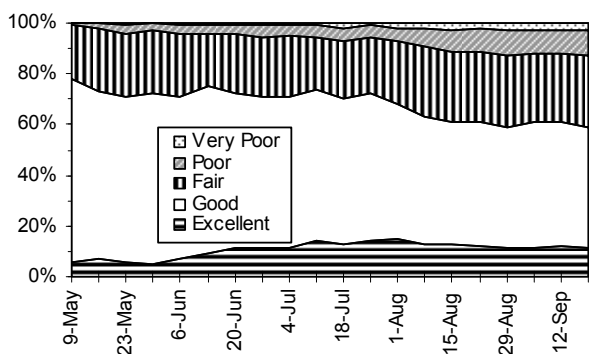


Figure 2. Condition of 2010 Kansas corn crop.

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

Harvest Statistics

The October 8 Crops Report predicted a 585.0 million-bushel crop, down 2% from last year's record production of 598.3 million bushels. The anticipated number of acres to be harvested for grain is 4.5 million, up 17% from 2009. If realized, this will be the highest harvested area since 1933. The predicted average yield of 130 bushels per acre is down 8 bushels from last year. (Kansas Agricultural Statistics Service, Topeka)

Diseases

From a plant health standpoint, 2010 presented a little bit of everything in terms of crop diseases, but without any single disease being epidemic. Early in the season, cool, wet weather caused planting delays and in some cases replanting. Some of the replanting, or poor stands where replanting was not an option, were the result of *Pythium* seedling blight.

At midseason, common rust occurred at above normal levels, causing some confusion with southern rust. Common rust typically is not a yield-limiting disease, but southern rust can be. Southern rust was detected for the first time in Labette County on July 30th, which is about the time it normally arrives in Kansas. No serious outbreaks of the disease were reported during the growing season. Gray leaf spot was present at economic levels in some fields across the state, mostly in those that were in corn continuously and especially where no-till was being practiced.

Late in the season, stalk rots were common in many fields across the state. In areas where extended periods of hot, dry weather occurred from mid-July through mid-August, charcoal rot was common. In other fields, *Fusarium* stalk rot was found more frequently.

A number of fields, particularly in the eastern half of the state, had low to moderate levels of *Diplodia* ear rot. This fungus is common in years when frequent rainfalls occurs at pollination time. Some *Aspergillus* ear rot, the cause of aflatoxin, was found in the Manhattan area, but surveys indicated that it did not appear to be a widespread problem across the state.

Numerous soil and root samples were analyzed for nematodes throughout the season. For most samples, levels of nematodes were below economic thresholds. Nematode species present included root lesion, stunt, dagger, stubby root, spiral and sting.

Other corn diseases reported include anthracnose, Physoderma brown spot, Goss's bacterial wilt and common smut. (Doug Jardine, Kansas State University Department of Plant Pathology)

Insects

Insect problems in corn during the 2010 growing season consisted mainly of whorl feeding by a variety of caterpillars. The predominant species responsible were fall armyworms and corn earworms. This type of early season feeding causes concern among growers because the leaf feeding is very apparent and often results in a ragged-looking plant, but rarely results in yield reductions.

Spider mites were problematic in western Kansas, but growers there are experienced in dealing with these pests so they are not surprised when chemical treatments are required to reduce the populations. (Jeff Whitworth, Kansas State University Department of Entomology)

2010 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 of the 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. Most 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 9 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 8 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 2010 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. 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 lbs/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 latest-maturing entries are ripe, early and midseason 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 2010 Kansas Corn Performance Tests

<p>AgriGold Hybrids St. Francisville, IL 618-943-5776 agrigold.com</p>	<p>G2 Genetics by NuTech Ames, IA 515-232-1997 info@nutechseed.com</p>	<p>Mycogen Seeds Indianapolis, IN 1-800-MYCOGEN dow.com</p>	<p>Spirit Hybrids (Schillinger Genetics, Inc) West Des Moines, IA 515-225-1166 Schilligen.com</p>
<p>Channel Bio Corp. Seward, NE 800-279-7999 Channelbio.com</p>	<p>Garst Seed Belleville, KS 785-527-2271 polanskyseed.com</p>	<p>NuTech Seed, LLC Ames IA 515-232-1997 info@nutechseed.com</p>	<p>Stine Seed Co. Sheridan, IN 317-758-0800</p>
<p>Dekalb (Monsanto) St. Louis, MO 800-768-6387 Asgrowanddekalb.com</p>	<p>LG Seeds Elmwood, IL 800-752-6847 lgseeds.com</p>	<p>Phillips Seed Farms, Inc Hope, KS 785-949-2204 info@phillipsseed.com</p>	<p>Sylvester Ranch, Inc Ottawa, KS 785-242-3598 info@sylvesterseed.com</p>
<p>Dyna-Gro Garden City, KS 620-275-4271 DynaGroSeed.com</p>	<p>Masters Choice Anna, IL 866-444-1044 Seedcorn.com</p>	<p>Pioneer Hi-Bred Intl., Inc Lincoln, NE 402-467-5458 Pioneer.com</p>	<p>Taylor Seed Farms, Inc. White Cloud, KS 785-595-3236 taylorseedfarms.com</p>
<p>eMerge (Schillinger Genetics, Inc. West Des Moines, IA 515-225-1166 Schilligen.com</p>	<p>MFA Incorporated Columbia, MO 573-876-5482 Mfa-inc.com</p>	<p>Premium Seed, Inc. Berwick, IL 309-462-2396 premiumseed.com</p>	<p>Triumph Seed Co., Inc. Ralls, TX 888-521-7333 triumphseed.com</p>
<p>Fontanelle Hybrids Fremont, NE 402-721-1410 fontanelle.com</p>	<p>Midland Genetics Group Ottawa, KS 785-242-3598 info@midlandgenetics.com</p>	<p>Producers Hybrids Battle Creek, NE 888-675-3190 producershybrids.com</p>	<p>VPMaxx (AgVenture of Eastern Kansas, LLC) Iola, KS 620-228-3148</p>

NORTHEAST KANSAS DRYLAND CORN TEST

Agronomy North Farm, Manhattan; Jane Lingenfelter, agronomist

Reading silt loam; Soybeans in 2009

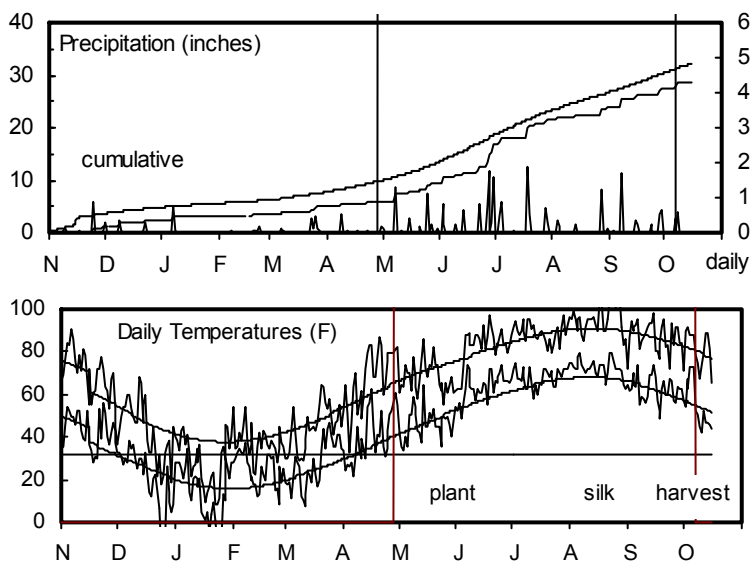
120 - 0 - 0 lb/a N, P, K

Planted on 4/14/2010; Harvested on 9/21/2010

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

Good growing conditions throughout the season.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	6.6	7.4	36	37	357	273
April	1.9	2.4	59	53	341	222
May	3.6	4.2	64	64	413	412
June	6.6	4.8	78	73	726	640
July	4.2	3.7	81	79	822	770
August	3.2	3.2	80	78	765	750
Sep.- Oct.	2.6	5.1	67	66	579	563
Totals:	28.7	30.9	55	54	4,002	3,628



Fuhrman Farms, Inc., Severance; Al Fuhrman, cooperator; Jane Lingenfelter, agronomist

Ulysses silt loam; Soybeans in 2009

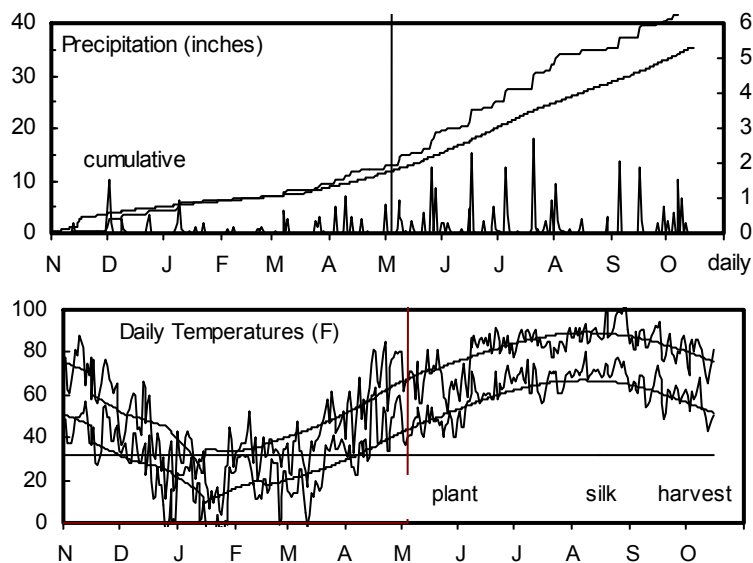
165 - 0 - 0 lb/a N, P, K

Planted on 4/20/2010; Harvested on 9/30/2010

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

Strong wind during the spring and summer caused green snap and lodging.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	14.8	8.5	34	36	317	247
April	3.3	2.9	58	54	307	216
May	4.9	4.2	62	64	367	417
June	6.5	4.7	76	73	701	643
July	6.8	3.9	78	78	774	761
August	2.5	3.7	79	76	767	732
Sep.- Oct.	5.5	6.0	65	66	529	528
Totals:	44.3	33.9	53	53	3,762	3,545



NORTHEAST KANSAS NO-TILL DRYLAND CORN TEST continued.

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

Kipson silty clay loam; Soybeans in 2009

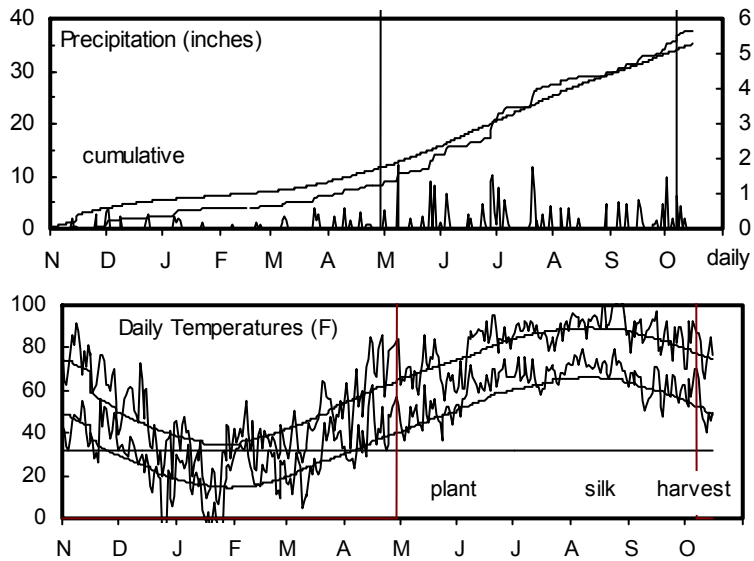
150 - 46 - 0 lb/a N, P, K

Planted on 4/15/2010; Harvested on 9/21/2010

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

Wind and storm damage caused a significant amount of lodging.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	9.1	9.1	37	36	358	261
April	3.2	2.9	59	53	327	208
May	4.6	4.3	64	62	427	373
June	7.3	4.3	77	72	731	614
July	5.8	4.4	80	77	812	742
August	2.2	3.5	79	76	756	716
Sep.- Oct.	5.9	5.2	66	64	561	496
Totals:	38.0	33.8	55	53	3,971	3,409



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

Crete silt loam; Soybeans in 2009

200 - 20 - 0 lb/a N, P, K

Planted on 5/5/2010; Harvested on 10/1/2010

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

Good growing season; some damage to plots caused by severe weather.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	7.1	6.0	34	34	313	235
April	4.2	2.1	56	52	291	204
May	3.5	3.5	61	63	366	393
June	5.3	4.3	76	73	688	635
July	1.8	3.2	79	78	775	755
August	2.2	3.1	78	77	735	731
Sep.- Oct.	2.0	4.2	65	65	524	515
Totals:	26.1	26.5	53	52	3,693	3,468

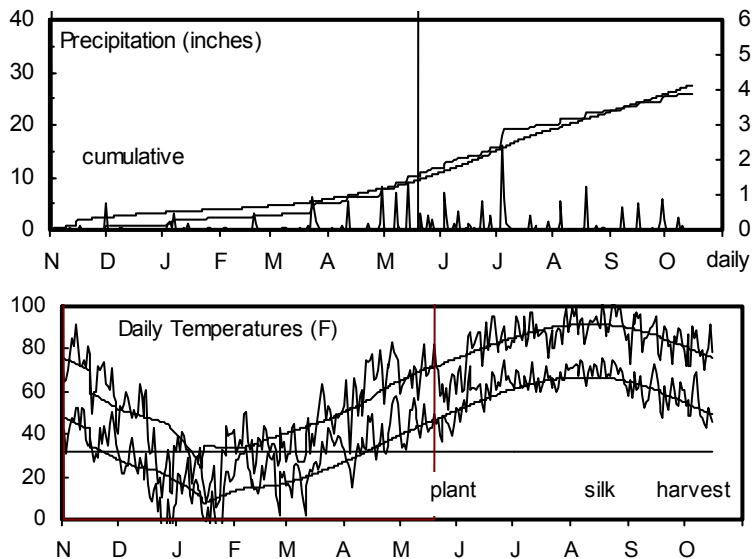


TABLE 2 continued. NORTHEAST KANSAS DRYLAND CORN PERFORMANCE TEST, 2010

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 (%)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)
SYLVESTER	531PRW	162	105	58	13	77	25	--	--	--	--	--	--	129	94	58	14	25	166	90	57	15
SYLVESTER	641BLGW	141	92	57	13	77	28	--	--	--	--	--	--	127	92	57	13	25	196	106	55	17
SYLVESTER	658HLRW	155	101	59	13	78	27	--	--	--	--	--	--	142	103	57	14	24	171	92	56	17
SYLVESTER	670BRW	177	115	58	14	75	27	--	--	--	--	--	--	124	91	57	14	24	196	106	56	18
SYLVESTER	779BRW	--	--	--	--	--	--	--	--	--	--	--	--	138	100	57	15	21	--	--	--	--
SYLVESTER	7A28BRW	131	85	56	13	79	24	--	--	--	--	--	--	168	123	55	13	22	204	110	53	19
TAYLOR	219270	--	--	--	--	--	--	96	81	59	16	85	20	134	97	59	14	23	--	--	--	--
TAYLOR	219350	--	--	--	--	--	--	146	124	60	17	85	21	--	--	--	--	--	--	--	--	--
TAYLOR	299450	153	99	57	13	76	29	--	--	--	--	--	--	122	89	56	13	25	--	--	--	--
TAYLOR	1940VT3	--	--	--	--	--	--	125	106	57	15	85	22	149	108	58	15	23	--	--	--	--
TRIUMPH	1204V	167	109	58	13	76	26	--	--	--	--	--	--	152	110	58	14	24	--	--	--	--
TRIUMPH	1420X	166	108	59	14	77	26	--	--	--	--	--	--	129	94	58	14	24	--	--	--	--
TRIUMPH	1601X	--	--	--	--	--	--	107	91	57	15	85	22	--	--	--	--	--	--	--	--	--
TRIUMPH	1706HXRR	--	--	--	--	--	--	58	50	60	18	85	19	--	--	--	--	--	--	--	--	--
TRIUMPH	7514S	--	--	--	--	--	--	77	65	57	17	86	21	--	--	--	--	--	197	106	55	20
	AVERAGE	154	154	58	13	77	26	118	118	58	16	85	22	137	137	58	14	24	185	185	55	17
	CV (%)	9	9	1	3	1	4	8	8	1	4	2	4	10	10	1	4	5	7	7	1	7
	LSD (0.05)	19	12	1	1	1	1	14	12	1	1	2	1	20	14	1	1	2	22	12	1	2

* Seed treatment and hybrid traits located in Table 9.

** 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 2009

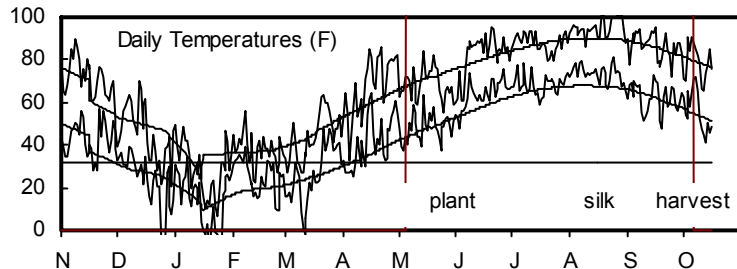
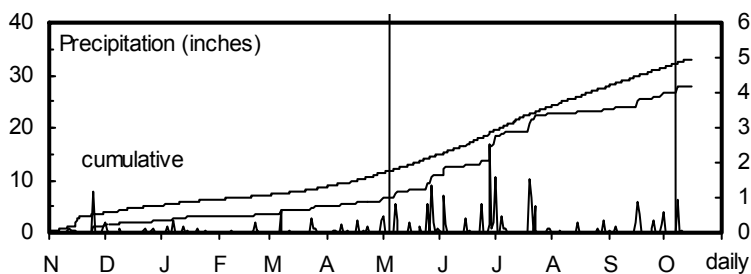
160 - 60 - 70 lb/a N, P, K

Planted on 4/20/2010; Harvested on 9/20/2010

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

Uneven stands and emergence caused by heavy rains in the spring.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	6.9	8.4	37	37	367	268
April	2.5	2.8	59	54	337	221
May	4.6	3.7	64	64	428	414
June	6.3	4.8	78	73	747	652
July	4.0	3.8	81	78	828	774
August	0.7	3.5	80	77	773	751
Sep.- Oct.	3.1	4.6	66	66	563	547
Totals:	28.1	31.6	55	54	4,043	3,627



Ashland Bottoms Research Center, Manhattan; Jane Lingenfelter, agronomist

Sandy loam; Soybeans in 2009

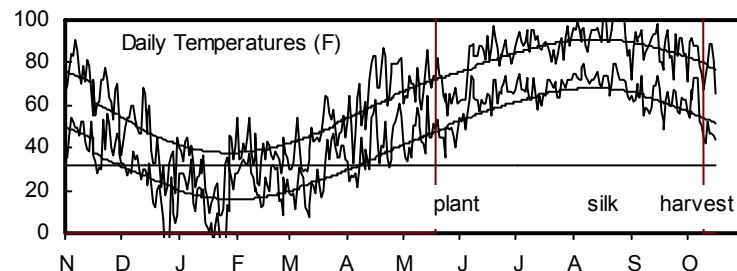
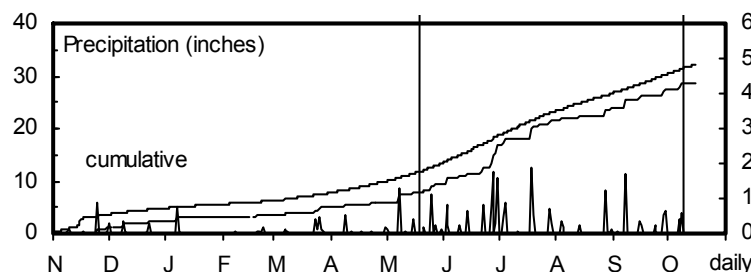
120 - 0 - 0 lb/a N, P, K

Planted on 5/4/2010; Harvested on 9/23/2010

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

Strong storms in June caused extensive green snap.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	6.6	7.4	36	37	357	273
April	1.9	2.4	59	53	341	222
May	3.6	4.2	64	64	413	412
June	6.6	4.8	78	73	726	640
July	4.2	3.7	81	79	822	770
August	3.2	3.2	80	78	765	750
Sep.- Oct.	2.6	5.1	67	66	579	563
Totals:	28.7	30.9	55	54	4,002	3,628



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

Crete silt loam; Soybeans in 2009

200 - 20 - 0 lb/a N, P, K

Planted on 4/28/2010; Harvested on 10/1/2010

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

Good growing season; some damage to plots caused by severe weather.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	7.1	6.0	34	34	313	235
April	4.2	2.1	56	52	291	204
May	3.5	3.5	61	63	366	393
June	5.3	4.3	76	73	688	635
July	1.8	3.2	79	78	775	755
August	2.2	3.1	78	77	735	731
Sep.- Oct.	2.0	4.2	65	65	524	515
Totals:	26.1	26.5	53	52	3,693	3,468

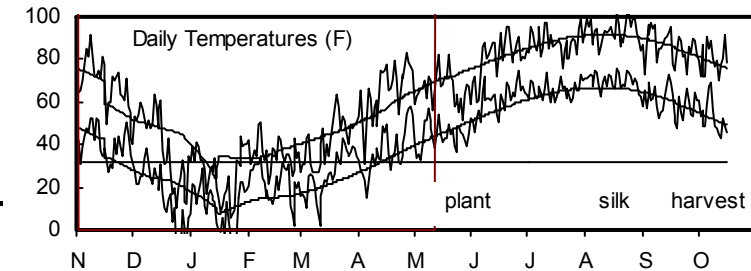
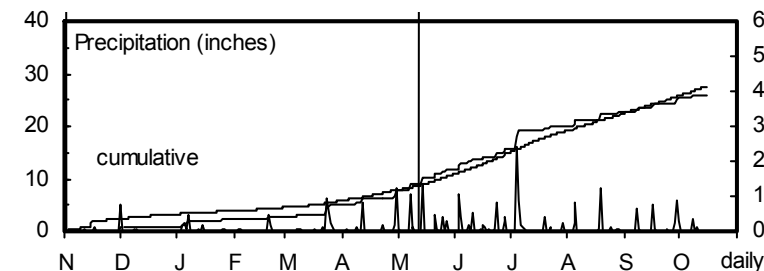


TABLE 3. NORTHEAST KANSAS SPRINKLER-IRRIGATED CORN PERFORMANCE TEST, 2010

BRAND	NAME	TOPEKA, Shawnee County						MANHATTAN, Riley 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 (%)
AGRIGOLD	A6458VT3	191	100	56	17	77	24	97	91	53	14	65	31	215	96	58	15
AGRIGOLD	A6476VT3	169	89	57	18	75	25	122	114	55	14	62	28	228	102	60	16
AGRIGOLD	A6533VT3	174	91	56	18	76	25	122	115	54	15	64	32	234	104	58	17
AGRIGOLD	A6553VT3	202	106	56	17	76	25	108	101	54	15	65	34	235	105	57	17
CHANNEL	208-72VT3	--	--	--	--	--	--	130	122	54	13	64	31	215	96	58	16
CHANNEL	216-49VT3P	203	107	59	17	76	26	108	101	56	15	68	35	219	98	58	16
CHANNEL	216-63VT3	173	91	58	18	77	25	--	--	--	--	--	--	--	--	--	--
DEKALB	DKC62-63	--	--	--	--	--	--	--	--	--	--	--	--	212	95	60	17
DEKALB	DKC63-84	--	--	--	--	--	--	--	--	--	--	--	--	224	100	59	15
DEKALB	DKC64-69	--	--	--	--	--	--	--	--	--	--	--	--	238	106	61	17
DEKALB	DKC64-83	--	--	--	--	--	--	--	--	--	--	--	--	224	100	60	17
DEKALB	DKC65-63	--	--	--	--	--	--	--	--	--	--	--	--	220	98	59	17
FONTANELLE	7V657	175	92	58	17	75	24	--	--	--	--	--	--	225	101	60	16
FONTANELLE	8T169	208	109	58	17	75	26	--	--	--	--	--	--	238	106	60	17
FONTANELLE	8V437	197	104	57	17	75	26	--	--	--	--	--	--	218	97	58	16
G2 GENETICS	5H-511A RR/HX	187	98	56	17	77	26	111	104	55	13	66	29	205	91	59	17
G2 GENETICS	5H-511RR/HX	184	97	56	19	77	26	97	91	54	13	66	26	219	98	60	16
G2 GENETICS	5H-513 RR/HX	200	105	57	19	79	25	86	80	55	14	70	33	233	104	60	17
G2 GENETICS	5H-515 RR/HX	205	108	59	19	79	25	110	103	56	16	69	33	225	101	60	17
G2 GENETICS	5H-515A RR/HX	204	107	58	18	79	25	83	77	56	16	69	32	220	98	61	18
G2 GENETICS	5X-411 RR/HXT	165	87	59	16	76	25	93	87	57	14	63	26	218	97	60	16
G2 GENETICS	5X-411A RR/HXT	165	87	58	17	76	25	107	100	57	15	64	28	210	94	60	16
GARST	82H82-3000GT Brand	--	--	--	--	--	--	--	--	--	--	--	--	221	99	58	18
GARST	83P07 GT/CB/LL Brand	--	--	--	--	--	--	--	--	--	--	--	--	229	103	55	17
GARST	83S06-3000GT Brand	--	--	--	--	--	--	--	--	--	--	--	--	216	96	58	16
GARST	83T94 GT/CB/LL Brand	--	--	--	--	--	--	--	--	--	--	--	--	229	103	57	15
GARST	84N18-3000GT Brand	--	--	--	--	--	--	--	--	--	--	--	--	222	99	56	16
LG SEEDS	LG2620VT3	--	--	--	--	--	--	--	--	--	--	--	--	242	108	59	16
LG SEEDS	LG2641VT3	--	--	--	--	--	--	--	--	--	--	--	--	237	106	56	17
MASTERS CHOICE	MCT-583	--	--	--	--	--	--	--	--	--	--	--	--	210	94	57	16
MAT CHK	EARLY DKC50-44	153	80	55	18	75	25	105	99	54	13	63	30	237	106	58	14
MAT CHK	FULL-R8526YGCB	206	108	53	18	77	25	81	76	52	15	65	29	220	98	56	17
MAT CHK	MID-NC+5392B	212	111	56	17	76	27	97	91	53	13	65	32	220	98	58	16
MIDLAND	361BRW	199	105	58	17	77	26	--	--	--	--	--	--	--	--	--	--
MIDLAND	451GT	158	83	55	17	77	24	--	--	--	--	--	--	--	--	--	--
MIDLAND	481PRW	182	96	58	16	75	25	--	--	--	--	--	--	--	--	--	--
MIDLAND	531PRW	183	96	57	17	76	24	--	--	--	--	--	--	--	--	--	--
MIDLAND	641BLGW	194	102	56	18	77	25	--	--	--	--	--	--	--	--	--	--
MIDLAND	658HLRW	163	86	57	17	77	24	--	--	--	--	--	--	--	--	--	--
MIDLAND	670BRW	195	102	56	18	76	24	--	--	--	--	--	--	--	--	--	--
MIDLAND	779BRW	185	97	56	19	76	23	--	--	--	--	--	--	--	--	--	--
MIDLAND	7A28BRW	213	112	55	19	78	24	--	--	--	--	--	--	--	--	--	--
MYCOGEN	2A787	194	102	57	17	76	26	113	106	54	15	66	29	228	102	59	17
MYCOGEN	2D775	169	89	56	18	75	26	81	75	54	15	65	29	207	92	58	17
MYCOGEN	2H735	169	89	56	18	75	25	113	106	55	13	62	28	--	--	--	--
MYCOGEN	2T784	--	--	--	--	--	--	--	--	--	--	--	--	217	97	59	17
MYCOGEN	2T826	192	101	57	18	77	24	113	106	55	15	66	29	221	99	59	17
MYCOGEN	2V732	199	105	56	17	77	25	113	106	54	14	63	32	222	99	59	16
NUTECH	3T-413 VT3	204	107	56	17	76	25	131	123	54	13	65	32	243	108	59	16
NUTECH	3T-714 VT3	199	105	58	18	75	26	107	100	55	14	64	31	226	101	60	16
NUTECH	5B-612 GT/CB/LL	207	109	54	18	76	23	107	100	51	13	64	33	232	104	57	16
NUTECH	5N-215 GT/CB/LL/RW	189	100	58	17	77	26	109	102	54	15	65	28	235	105	58	17
PHILLIPS	702AG	--	--	--	--	--	--	103	97	54	13	66	28	227	101	59	14
PHILLIPS	703VT3	197	103	57	17	76	25	97	91	55	15	64	31	235	105	58	17
PHILLIPS	715GTBt	183	96	54	17	77	26	91	86	51	13	64	32	219	98	56	16
PHILLIPS	723AG	170	89	57	17	75	25	107	100	56	14	62	33	222	99	58	17
PHILLIPS	789AG	207	109	56	17	77	26	110	103	54	13	65	31	222	99	58	16
PHILLIPS	795VT3	209	110	57	17	76	25	123	116	55	14	63	31	233	104	59	18
PREMIUM	P246 RR	168	88	57	17	75	24	107	100	54	14	64	31	208	93	60	17
PRODUCERS	6814VT3	206	108	57	18	76	23	--	--	--	--	--	--	--	--	--	--
PRODUCERS	7014VT3	189	99	56	17	76	26	--	--	--	--	--	--	--	--	--	--
PRODUCERS	7394VT3	205	108	57	17	75	26	--	--	--	--	--	--	--	--	--	--

TABLE 3 continued. NORTHEAST KANSAS SPRINKLER-IRRIGATED CORN PERFORMANCE TEST, 2010

BRAND	NAME	TOPEKA, Shawnee County						MANHATTAN, Riley County						SCANDIA, 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 (%)
PRODUCERS	7414VT3	200	105	56	17	76	27	--	--	--	--	--	--	--	--	--	--
SYLVESTER	361BRW	--	--	--	--	--	--	116	108	56	13	63	34	219	98	60	14
SYLVESTER	451GT	--	--	--	--	--	--	99	93	54	13	63	33	218	98	59	15
SYLVESTER	481PRW	--	--	--	--	--	--	108	101	55	14	63	33	211	94	59	17
SYLVESTER	531PRW	--	--	--	--	--	--	111	104	54	14	64	31	219	98	59	16
SYLVESTER	641BLGW	--	--	--	--	--	--	103	96	53	14	64	34	222	99	58	17
SYLVESTER	658HLRW	--	--	--	--	--	--	83	78	55	13	65	33	216	97	58	17
SYLVESTER	670BRW	--	--	--	--	--	--	124	116	54	15	65	30	243	109	58	17
SYLVESTER	779BRW	--	--	--	--	--	--	111	104	55	16	67	30	233	104	57	18
SYLVESTER	7A28BRW	--	--	--	--	--	--	109	102	53	14	67	28	232	104	58	17
TAYLOR	219350	194	102	58	19	77	24	133	125	55	14	64	30	231	103	60	16
TAYLOR	219700	190	100	57	18	77	22	88	82	55	15	64	30	214	96	58	17
TRIUMPH	1204V	211	111	57	17	75	26	123	115	55	13	64	31	209	93	58	15
TRIUMPH	1420X	--	--	--	--	--	--	124	116	54	15	63	33	236	105	57	17
TRIUMPH	1522V	--	--	--	--	--	--	85	80	57	15	64	30	--	--	--	--
TRIUMPH	1601X	194	102	58	18	76	25	118	110	54	15	63	28	212	95	59	17
TRIUMPH	1706HXRR	195	102	57	18	78	25	--	--	--	--	--	--	--	--	--	--
TRIUMPH	7514S	192	101	54	19	78	26	--	--	--	--	--	--	--	--	--	--
VPM _{maxx}	RL8154HB	184	97	60	18	75	25	--	--	--	--	--	--	--	--	--	--
VPM _{maxx}	RL8950HB	206	108	58	18	78	25	--	--	--	--	--	--	--	--	--	--
	AVERAGE	190	190	57	18	76	25	107	107	54	14	65	31	224	224	58	16
	CV (%)	9	9	1	8	1	6	9	9	2	6	1	3	7	7	2	6
	LSD (0.05)	24	12	1	2	1	2	13	13	2	1	1	1	25	11	2	2

* Seed treatment and hybrid traits located in Table 9.

** 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

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

Woodson silt loam; Soybeans in 2009

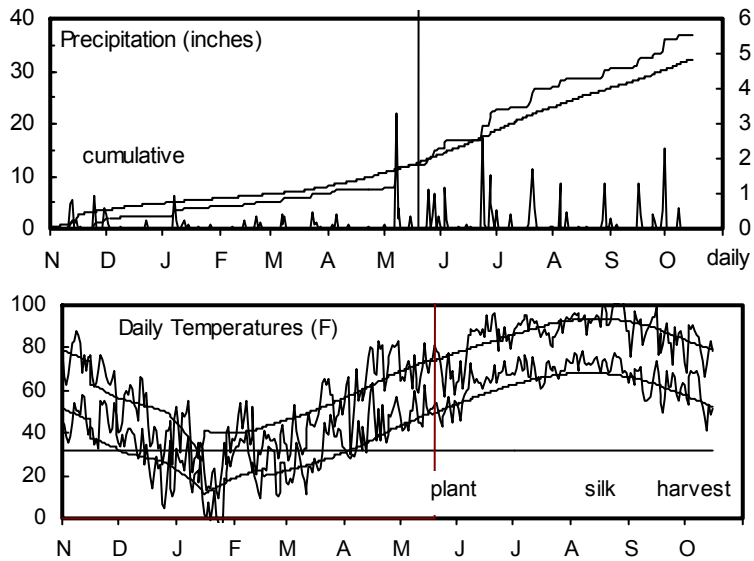
80 - 0 - 0 lb/a N, P, K

Planted on 5/5/2010; Harvested on 9/30/2010

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

Uneven emergence and stands caused by heavy rains during the spring.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	9.2	7.7	39	39	379	319
April	4.4	2.7	60	56	328	260
May	4.6	3.9	66	65	454	449
June	6.4	4.6	79	74	760	667
July	5.5	3.7	81	80	834	778
August	2.0	3.0	81	79	775	756
Sep.- Oct.	6.2	5.1	67	68	588	591
Totals:	38.3	30.8	57	56	4,118	3,820



Private farm, Erie; Kelly Kusel, research technician

Lanton silt loam; Soybeans in 2009

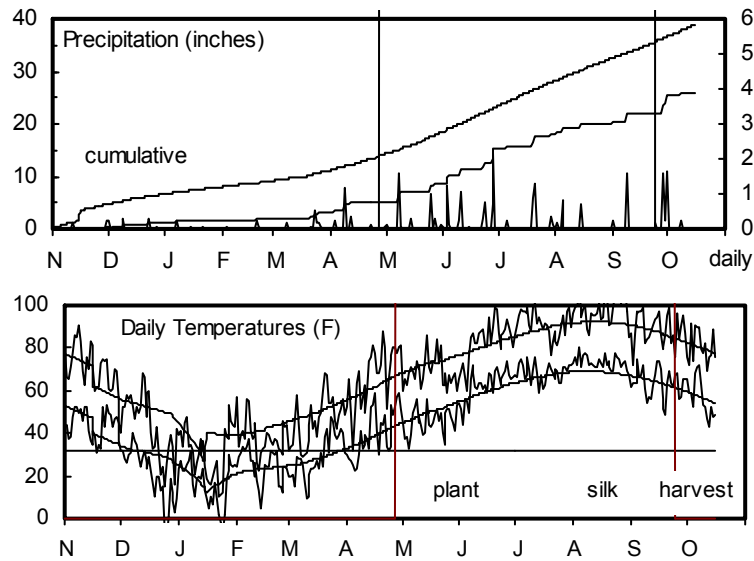
175 - 50 - 25 lb/a N, P, K

Planted on 4/13/2010; Harvested on 9/8/2010

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

Uneven emergence due to dry ground at planting. Dry in early spring; weed control troublesome. Excellent growing conditions in June; July-August very hot and dry. Deer damage to some plots.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	5.0	10.6	38	40	365	315
April	2.3	3.3	58	56	321	254
May	4.2	4.6	64	66	418	461
June	4.2	4.6	80	74	747	681
July	4.4	4.3	82	80	826	791
August	1.9	3.7	82	79	777	763
Sep.- Oct.	4.0	5.9	68	68	592	575
Totals:	25.9	36.9	56	56	4,045	3,840



EAST/CENTRAL KANSAS DRYLAND CORN TEST continued.

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

Silty clay loam; Soybeans in 2009

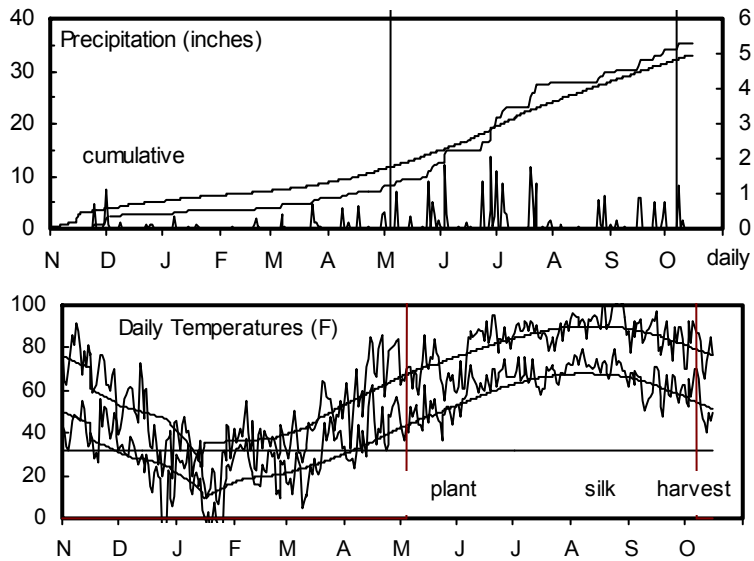
155 - 35 - 0 lb/a N, P, K

Planted on 4/20/2010; Harvested on 9/21/2010

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

Uneven stands and emergence caused by heavy rains in the spring.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	7.8	8.4	37	37	358	268
April	2.7	2.8	59	54	327	221
May	5.4	3.7	64	64	427	414
June	8.3	4.8	77	73	731	652
July	4.7	3.8	80	78	812	774
August	2.3	3.5	79	77	756	751
Sep.- Oct.	4.4	4.6	66	66	561	547
Totals:	35.5	31.6	55	54	3,971	3,627



Private Farm, Assaria; Clayton Short, cooperater; Jane Lingenfelser, agronomist

Smolan silt loam; Wheat in 2009

200 - 45 - 0 lb/a N, P, K

Planted on 5/7/2010; Harvested on 10/5/2010

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

Drought stress during July and August limited yields.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	9.1	8.3	39	39	382	327
April	1.0	2.8	60	55	336	236
May	5.0	4.8	65	65	443	432
June	4.2	3.9	79	75	763	690
July	9.0	4.1	80	81	828	805
August	2.2	3.3	81	80	787	790
Sep.- Oct.	8.2	3.7	67	68	597	595
Totals:	38.6	30.9	57	56	4,137	3,875

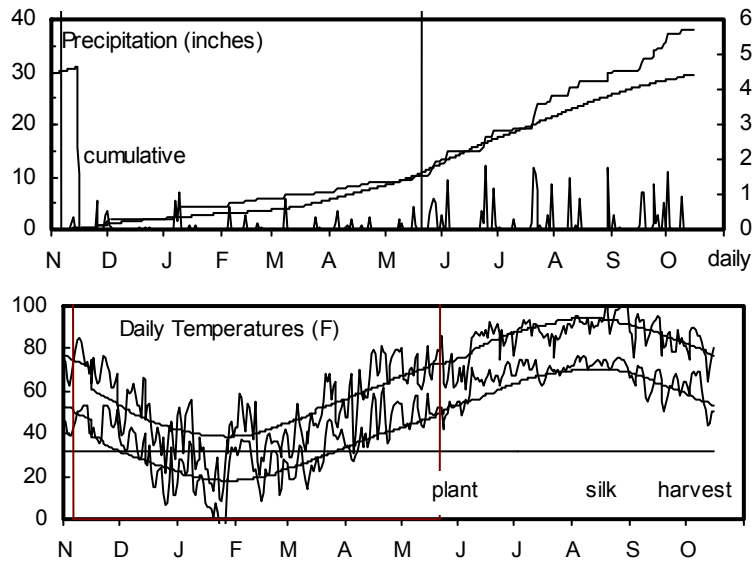


TABLE 4 continued. EAST/CENTRAL KANSAS DRYLAND CORN PERFORMANCE TEST, 2010

BRAND	NAME	OTTAWA, Franklin County					ERIE, Neosho County					TOPEKA, Shawnee County					ASSARIA, Saline 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 (%)	1000 ppa
PHILLIPS	702AG	--	--	--	--	--	--	--	--	--	--	--	124	94	55	14	78	20	50	51	58	12	23	
PHILLIPS	703VT3	89	104	56	13	66	17	--	--	--	--	--	158	120	57	14	78	23	107	108	59	15	25	
PHILLIPS	715GTBt	98	115	54	13	66	20	--	--	--	--	--	158	119	54	13	79	22	97	99	57	13	26	
PHILLIPS	723AG	88	102	55	13	65	19	--	--	--	--	--	143	108	57	14	76	21	110	111	58	12	27	
PHILLIPS	789AG	87	101	56	14	68	21	--	--	--	--	--	134	101	55	14	78	22	140	142	58	14	25	
PHILLIPS	795VT3	92	106	57	14	69	24	--	--	--	--	--	150	113	56	14	79	22	107	109	60	14	25	
PRODUCERS	6790	--	--	--	--	--	--	164	87	58	14	71	25	--	--	--	--	--	--	--	--	--	--	
PRODUCERS	6364GT3	--	--	--	--	--	--	178	94	58	14	70	24	--	--	--	--	--	--	--	--	--	--	
PRODUCERS	6944VT3	--	--	--	--	--	--	180	96	57	15	71	25	--	--	--	--	--	--	--	--	--	--	
PRODUCERS	7014VT3	--	--	--	--	--	--	190	101	56	17	74	24	--	--	--	--	--	--	--	--	--	--	
PRODUCERS	7134VT3	--	--	--	--	--	--	207	110	56	17	72	27	--	--	--	--	--	--	--	--	--	--	
PRODUCERS	7394VT3	--	--	--	--	--	--	214	113	56	17	72	26	--	--	--	--	--	--	--	--	--	--	
TAYLOR	219270	87	101	56	13	67	13	197	105	56	18	70	26	133	100	58	14	76	22	--	--	--	--	
TAYLOR	219350	72	83	58	13	68	16	209	111	56	17	74	24	127	96	57	15	80	21	--	--	--	--	
TRIUMPH	1204V	88	102	56	13	68	21	--	--	--	--	--	154	117	55	14	79	22	--	--	--	--	--	
TRIUMPH	1217Cb	87	101	56	14	67	11	--	--	--	--	--	135	102	57	14	79	22	--	--	--	--	--	
TRIUMPH	7514S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	121	123	58	17	25	
VPMmaxx	RL8154HB	--	--	--	--	--	--	--	--	--	--	--	122	92	58	14	79	22	--	--	--	--	--	
VPMmaxx	RL8950HB	--	--	--	--	--	--	--	--	--	--	--	117	89	57	14	81	22	--	--	--	--	--	
	AVERAGE	86	86	56	13	67	18	188	188	57	16	72	25	132	132	56	14	79	22	98	98	58	14	24
	CV (%)	10	10	2	5	1	13	5	5	1	4	1	8	9	9	2	2	1	4	9	9	2	7	3
	LSD (0.05)	12	14	1	1	1	3	12	7	1	1	1	3	17	13	2	0	1	1	13	13	1	1	1

* Seed treatment and hybrid traits located in Table 9.

** 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.

SHORT-SEASON DRYLAND CORN TEST

Four-State Farm Show, Pittsburg; Kelly Kusel, research technician

Parsons silt loam; Soybeans in 2009

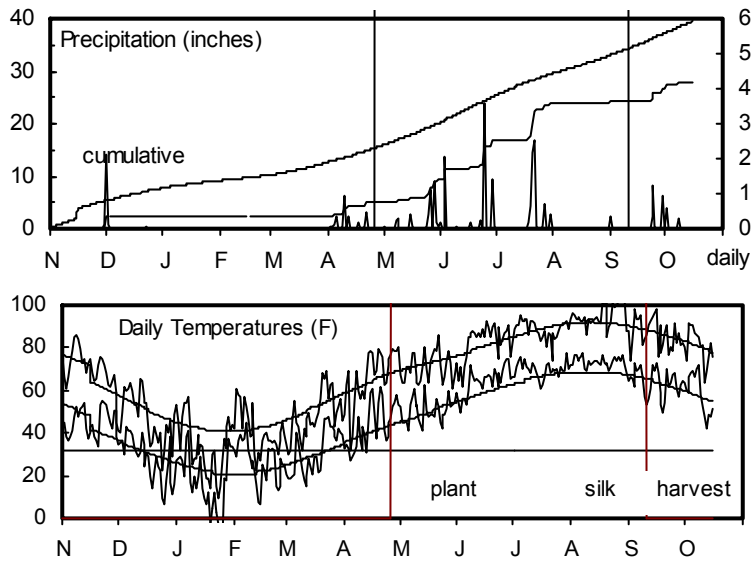
150 - 50 - 60 lb/a N, P, K

Planted on 4/12/2010; Harvested on 8/25/2010

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

Excellent emergence. Excellent growing conditions in June. July and August were very hot and dry. Almost no lodging-excellent drydown.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	4.7	11.9	40	42	383	348
April	1.3	3.4	61	57	344	265
May	5.5	4.6	66	65	472	448
June	5.5	4.5	79	74	758	665
July	6.8	3.3	81	80	829	780
August	0.4	3.6	81	79	786	765
Sep.- Oct.	3.5	6.2	67	68	600	608
Totals:	27.7	37.5	57	57	4,173	3,878



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

Woodson silt loam; Soybeans in 2009

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

Planted on 5/5/2010; Harvested on 9/30/2010

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

Uneven emergence and stands caused by heavy rains during the spring.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	9.2	7.7	39	39	379	319
April	4.4	2.7	60	56	328	260
May	4.6	3.9	66	65	454	449
June	6.4	4.6	79	74	760	667
July	5.5	3.7	81	80	834	778
August	2.0	3.0	81	79	775	756
Sep.- Oct.	6.2	5.1	67	68	588	591
Totals:	38.3	30.8	57	56	4,118	3,820

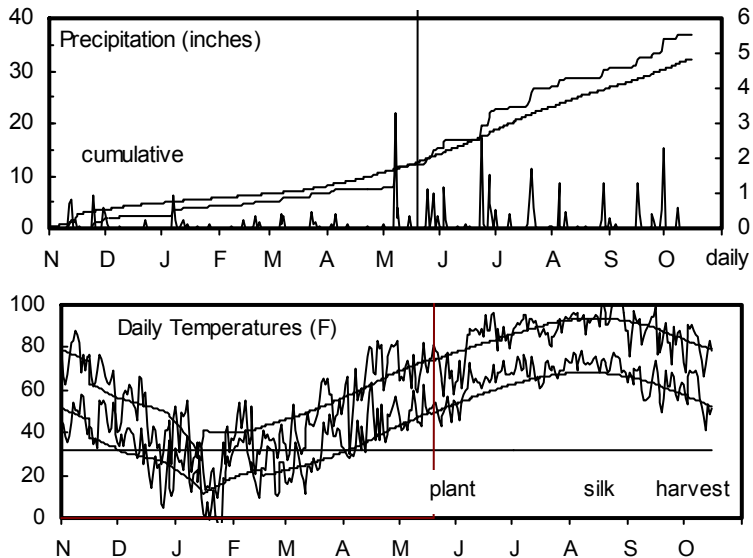


TABLE 5. KANSAS SHORT-SEASON DRYLAND CORN PERFORMANCE TEST, 2010

BRAND	NAME	PARSONS, Labette County						OTTAWA, Franklin County					
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silks)	HT (in)	Ear HT (in)	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silks)
AGRIGOLD	A6309STX	150	97	58	13	71	102	46	78	92	56	12	68
AGRIGOLD	A6384VT3Pro	180	117	58	13	71	102	40	91	107	54	11	69
AGRIGOLD	A6389VT3	147	95	57	14	69	97	39	76	90	56	12	66
AGVENTURE	8033	152	99	56	16	71	100	43	--	--	--	--	--
AGVENTURE	AV 8036V3R	150	98	57	15	71	104	40	--	--	--	--	--
CHANNEL	199-55VT3	161	105	58	13	69	98	42	99	117	55	11	67
CHANNEL	208-72VT3	161	105	57	15	71	99	41	106	125	55	12	66
CHANNEL	211-82R	153	100	58	12	68	97	39	--	--	--	--	--
CHANNEL	211-84T	148	97	56	16	70	99	41	--	--	--	--	--
DEKALB	DKC53-45 GNSS	154	100	59	12	69	96	38	--	--	--	--	--
DEKALB	DKC57-50	153	99	58	14	70	93	41	--	--	--	--	--
FONTANELLE	4T722	152	99	58	13	69	90	36	98	115	56	12	66
FONTANELLE	5T426	149	97	58	13	69	105	43	101	119	56	12	66
G2 GENETICS	1H-005 HX/LL	165	108	56	16	71	106	47	111	131	56	12	66
G2 GENETICS	5H-005 RR/HX	159	104	56	17	71	106	44	108	128	56	12	67
G2 GENETICS	5H-007 RR/HX	153	100	57	14	71	104	47	85	101	57	13	67
G2 GENETICS	5H-105 RR/HX	143	93	58	12	69	95	43	69	81	56	12	66
G2 GENETICS	5H-404 RR/HX	148	96	58	13	69	103	41	87	102	57	12	66
G2 GENETICS	5H-404A RR/HX	143	93	58	13	70	101	44	68	81	55	12	66
G2 GENETICS	5H-502 RR/HX	155	101	58	14	69	97	41	65	76	57	12	66
G2 GENETICS	5H-502A RR/HX	162	106	58	14	69	98	43	79	93	57	12	66
G2 GENETICS	5H-509 RR/HX	164	107	57	15	71	108	47	55	65	58	13	68
G2 GENETICS	5H-607 RR/HX	159	104	57	15	71	103	47	99	117	56	12	67
G2 GENETICS	5H-608 RR/HX	133	87	59	12	66	101	41	--	--	--	--	--
G2 GENETICS	5H-700 RR/HX	167	109	58	14	70	100	41	63	75	57	13	69
G2 GENETICS	5H-905 RR/HX	167	109	58	14	69	100	43	95	112	55	12	65
G2 GENETICS	5H-906 RR/HX	139	90	58	13	70	101	44	--	--	--	--	--
G2 GENETICS	5X-004 RR/HXT	149	97	58	13	70	98	41	--	--	--	--	--
G2 GENETICS	5X-005 RR/HXT	142	93	56	16	71	103	44	--	--	--	--	--
G2 GENETICS	5X-007 RR/HXT	155	101	58	14	70	102	46	--	--	--	--	--
G2 GENETICS	5X-206 RR/HXT	168	109	57	14	70	99	40	51	61	57	13	66
G2 GENETICS	5X-500 RR/HXT	149	97	58	13	69	102	45	68	81	56	12	66
G2 GENETICS	5X-598 RR/HXT	139	91	58	12	66	100	39	49	57	55	12	65
G2 GENETICS	5X-895 RR/HXT	136	89	58	13	69	99	40	40	47	49	13	66
G2 GENETICS	5X-903 RR/HXT	169	110	57	14	69	103	46	--	--	--	--	--
G2 GENETICS	5X-905 RR/HXT	158	103	57	14	70	99	44	88	104	55	12	65
GOLDEN HARVEST	H-8577 3000GT	163	106	57	14	70	106	45	--	--	--	--	--
GOLDEN HARVEST	H-8852 3000GT	173	113	56	16	71	107	45	--	--	--	--	--
MAT CHK	EARLY DKC50-44	163	106	58	14	70	90	40	98	116	55	12	67
MAT CHK	FULL-R8526YGCB	164	106	56	17	74	111	47	106	125	54	13	67
MAT CHK	MID-NC+5392B	161	105	57	15	72	103	48	104	123	55	12	68
MFA MORCORN	MC3227VT3	146	95	58	13	67	101	39	107	126	55	12	65
MFA MORCORN	MC3918VT3P	158	103	57	16	70	100	38	91	107	57	12	65
MIDLAND	120HLR	140	91	57	15	70	103	47	79	93	56	12	65
MIDLAND	361BRW	145	94	57	14	73	103	47	91	107	58	12	70
MYCOGEN	2G779	150	98	56	17	73	116	48	--	--	--	--	--
MYCOGEN	2K592	141	92	57	15	70	101	47	101	120	57	12	66
MYCOGEN	2P612	131	86	57	15	71	96	42	71	84	56	12	66
MYCOGEN	2T777	163	106	56	17	71	108	43	--	--	--	--	--
NUTECH	3A-098 RR	153	100	58	13	69	88	40	--	--	--	--	--
NUTECH	3A-109 GT	145	95	57	15	72	98	49	--	--	--	--	--
NUTECH	3A-406 GT	162	106	58	14	72	107	44	91	107	55	12	67
NUTECH	3T-603 VT3	146	95	58	14	73	105	48	90	106	57	13	69
NUTECH	5N-197 GT/CB/LL/RW	142	92	58	13	70	99	44	82	97	57	12	64
NUTECH	5N-803 GT/CB/LL/RW	153	100	58	13	71	108	46	94	110	56	11	66
PIONEER	35F40 HX1,LL,RR2	166	108	58	13	70	101	45	76	90	56	12	66
PIONEER	35P10 YGCB,RR2	157	102	57	15	69	95	41	--	--	--	--	--
PIONEER	37K11	141	92	59	12	70	93	42	88	104	56	12	66
PIONEER	P0541HR,HX1,LL,RR	162	105	58	13	71	102	42	78	92	57	13	68
PRODUCERS	6790	155	101	58	13	69	101	39	--	--	--	--	--
PRODUCERS	5624VT3	154	100	58	13	69	94	40	--	--	--	--	--
PRODUCERS	5784VT3	173	113	58	13	71	105	40	--	--	--	--	--
PRODUCERS	5804VT3PRO	150	98	59	12	67	99	43	--	--	--	--	--
PRODUCERS	6364GT3	139	91	58	13	69	104	46	--	--	--	--	--
PRODUCERS	6944VT3	168	109	57	15	70	104	41	--	--	--	--	--
TAYLOR	1905VT3	152	99	58	14	72	105	47	89	105	57	12	69
TAYLOR	60-99 RR	135	88	57	15	70	102	45	87	103	55	12	64
TAYLOR	70-04	149	97	57	14	69	104	45	102	121	56	12	65
TRIUMPH	1023X	150	98	58	13	69	97	40	76	89	56	13	69
VPMmax	Exp107233	166	108	58	14	71	103	42	--	--	--	--	--
	AVERAGE	154	104	57	14	70	101	43	85	95	56	12	66
	CV (%)	5	5	1	4	1	2	6	10	10	3	5	2
	LSD (0.05)	10	7	0	1	1	3	4	11	13	2	1	2

* Seed treatment and hybrid traits located in Table 9.

** 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; Norman Schmidt, cooperater; Jane Lingenfelter, agronomist

Crete silt loam; Soybeans in 2009

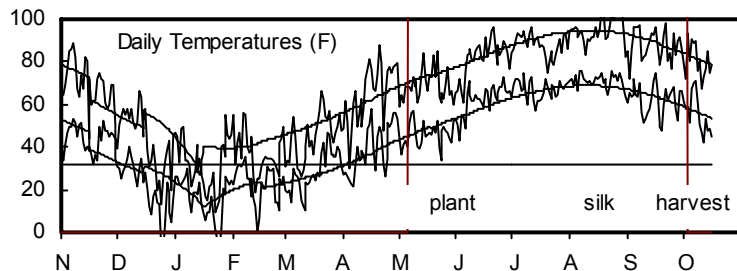
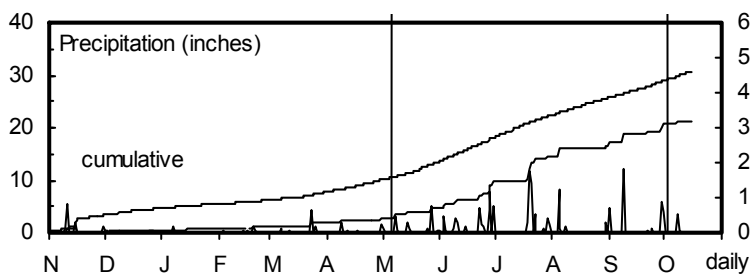
230 - 25 - 0 lb/a N, P, K

Planted on 4/21/2010; Harvested on 9/16/2010

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

Good growing conditions throughout the season.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	2.6	7.5	37	39	347	317
April	1.3	2.4	58	56	304	253
May	2.5	4.1	63	65	414	445
June	3.7	4.4	78	75	722	677
July	6.2	3.4	79	81	783	787
August	2.8	2.9	80	80	743	767
Sep.- Oct.	3.5	4.7	67	68	575	607
Totals:	22.5	29.3	55	56	3,887	3,854



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

Punkin silt loam; Soybeans in 2009

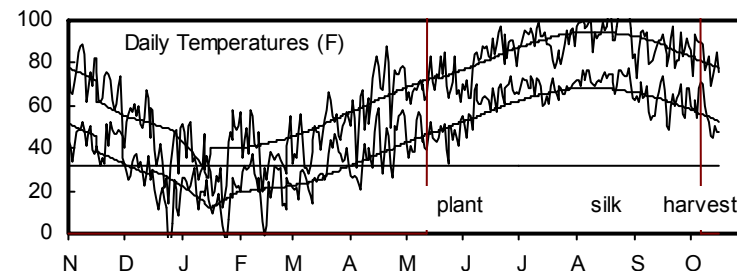
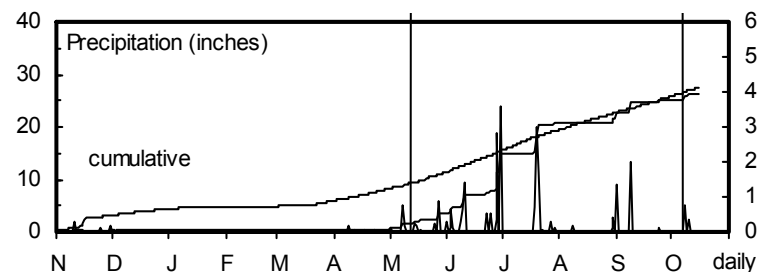
180 - 0 - 0 lb/a N, P, K

Planted on 4/28/2010; Harvested on 9/20/2010

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

Test suffered from too much or not enough water throughout the growing season.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	0.7	5.6	39	39	370	324
April	1.5	2.4	58	55	314	254
May	4.8	3.6	64	65	437	427
June	7.8	4.0	79	75	743	666
July	6.1	3.2	81	81	800	779
August	3.9	2.9	80	79	760	756
Sep.- Oct.	1.6	4.3	67	67	595	586
Totals:	26.4	26.1	56	56	4,019	3,792



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

Carwile fine sandy loam; Soybeans in 2009

204 - 20 - 0 lb/a N, P, K

Planted on 4/21/2010; Harvested on 9/16/2010

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

Very good growing conditions throughout the season.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	2.1	6.0	37	41	344	350
April	2.9	1.8	57	56	284	282
May	4.4	3.2	63	66	417	464
June	4.8	3.4	78	76	715	678
July	2.6	2.7	81	79	783	772
August	4.3	2.3	79	78	725	715
Sep.- Oct.	1.0	3.4	67	66	592	545
Totals:	22.1	22.9	55	57	3,860	3,806

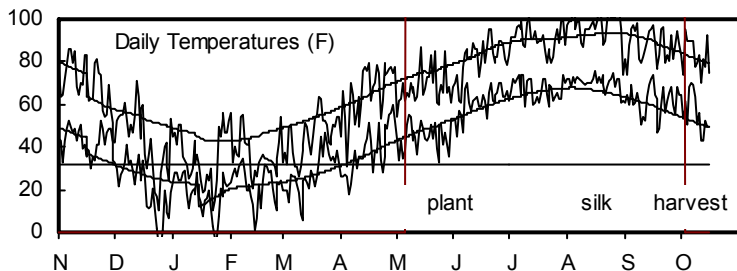
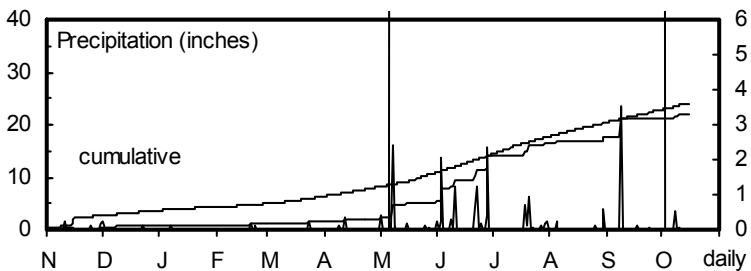


TABLE 6. SOUTH CENTRAL KANSAS IRRIGATED CORN PERFORMANCE TEST, 2010

BRAND	NAME	INMAN, McPherson County					HUTCHINSON, Reno County					ST. JOHN, Stafford County				
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	1000 ppa
CHANNEL	208-72VT3	181	102	58	14	30	207	106	58	14	28	180	96	58	14	31
CHANNEL	216-49VT3P	194	110	60	15	33	212	109	58	16	28	184	98	59	15	34
DEKALB	DKC62-63	--	--	--	--	--	166	86	59	14	32	180	97	59	15	33
DEKALB	DKC63-84	--	--	--	--	--	197	101	57	14	30	203	109	58	14	31
DEKALB	DKC64-69	--	--	--	--	--	199	102	59	15	28	182	98	60	17	30
DEKALB	DKC64-83	--	--	--	--	--	203	104	60	15	30	178	96	60	15	30
DEKALB	DKC66-96	--	--	--	--	--	206	106	59	14	29	202	109	59	15	33
FONTANELLE	7V657	--	--	--	--	--	--	--	--	--	--	180	96	60	15	34
FONTANELLE	7V697	173	97	60	14	33	--	--	--	--	--	186	100	60	14	35
FONTANELLE	8T169	156	88	60	15	29	--	--	--	--	--	191	102	60	16	29
FONTANELLE	8T468	192	108	60	15	30	--	--	--	--	--	182	97	59	14	33
G2 GENETICS	3A-511 RR	189	107	58	15	30	189	97	58	14	28	--	--	--	--	--
G2 GENETICS	3A-615 RR	183	103	57	15	29	--	--	--	--	--	--	--	--	--	--
G2 GENETICS	5H-007 RR/HX	179	101	58	14	29	178	92	58	14	29	--	--	--	--	--
G2 GENETICS	5H-210A RR/HX	160	90	60	14	30	182	93	59	14	30	--	--	--	--	--
G2 GENETICS	5H-311	181	102	59	16	29	190	98	58	15	31	--	--	--	--	--
G2 GENETICS	5H-314 RR/HX	186	105	60	15	29	202	104	60	14	28	--	--	--	--	--
G2 GENETICS	5H-509 RR/HX	179	101	61	15	27	--	--	--	--	--	--	--	--	--	--
G2 GENETICS	5H-511A RR/HX	212	120	59	15	26	186	96	59	14	30	--	--	--	--	--
G2 GENETICS	5H-511RR/HX	205	116	59	15	29	198	102	59	14	26	--	--	--	--	--
G2 GENETICS	5H-513 RR/HX	177	100	58	15	30	198	102	59	15	28	--	--	--	--	--
G2 GENETICS	5H-515 RR/HX	208	118	60	16	29	212	109	59	15	28	--	--	--	--	--
G2 GENETICS	5H-515A RR/HX	178	100	60	16	30	220	113	60	15	32	--	--	--	--	--
G2 GENETICS	5H-608 RR/HX	125	70	57	14	30	140	72	58	13	31	--	--	--	--	--
G2 GENETICS	5H-614 RR/HX	179	101	61	16	29	205	105	61	15	30	--	--	--	--	--
G2 GENETICS	5H-615 RR/HX	186	105	59	16	26	--	--	--	--	--	--	--	--	--	--
G2 GENETICS	5X-007 RR/HXT	174	98	59	14	30	183	94	59	14	28	--	--	--	--	--
G2 GENETICS	5X-206 RR/HXT	169	95	61	15	30	187	96	59	13	28	--	--	--	--	--
G2 GENETICS	5X-215 RR/HXT	172	97	57	14	30	177	91	58	14	31	--	--	--	--	--
G2 GENETICS	5X-411 RR/HXT	162	91	60	15	26	163	84	60	14	29	--	--	--	--	--
G2 GENETICS	5X-411A RR/HXT	175	99	61	15	26	173	89	60	14	31	--	--	--	--	--
LG SEEDS	LG2549VT3	--	--	--	--	--	--	--	--	--	--	188	101	56	14	30
LG SEEDS	LG2555VT3	195	110	58	15	32	--	--	--	--	--	--	--	--	--	--
LG SEEDS	LG2616VT3	184	104	56	13	32	--	--	--	--	--	182	97	56	13	32
LG SEEDS	LG2620VT3	187	106	58	15	28	--	--	--	--	--	--	--	--	--	--
LG SEEDS	LG2641VT3	--	--	--	--	--	--	--	--	--	--	187	100	56	15	33
MASTERS CHOICE	MCT-628	--	--	--	--	--	184	95	59	14	26	--	--	--	--	--
MAT CHK	EARLY DKC50-44	148	84	57	14	28	189	97	58	13	30	173	93	58	14	30
MAT CHK	FULL-R8526YGCB	195	110	54	14	29	217	112	55	16	28	206	110	55	14	31
MAT CHK	MID-NC+5392B	172	97	57	14	30	205	106	57	14	29	188	101	57	14	30
MIDLAND	361BRW	164	93	59	14	31	188	97	58	13	29	179	96	59	13	35
MIDLAND	417BRW	154	87	58	14	28	182	94	57	14	30	180	97	57	14	30
MIDLAND	451GT	163	92	56	13	28	154	79	57	14	30	161	87	56	12	32
MIDLAND	481PRW	138	78	60	15	32	189	97	59	15	30	169	91	59	15	35
MIDLAND	531PRW	167	94	58	14	33	198	102	57	15	29	195	105	57	14	30
MIDLAND	641BLGW	158	89	57	14	33	190	98	58	14	31	178	96	57	14	34
MIDLAND	670BRW	194	110	58	16	31	190	98	57	15	29	196	105	57	16	31
MIDLAND	779BRW	188	106	58	16	28	205	105	57	15	28	185	99	57	17	30
MIDLAND	7A28BRW	169	95	56	13	28	196	101	56	15	29	199	107	55	15	31
MYCOGEN	2A787	183	103	58	16	29	204	105	58	15	27	186	100	58	15	30
MYCOGEN	2D775	166	94	57	16	30	184	95	57	16	26	185	99	57	16	32
MYCOGEN	2T784	176	99	57	16	30	201	103	57	16	30	176	94	56	17	32
MYCOGEN	2T826	171	96	58	16	28	198	102	57	16	28	179	96	57	16	30
MYCOGEN	2V732	193	109	58	14	22	212	109	58	15	30	191	103	59	14	33
NUTECH	0C-616 YGCB	176	99	58	16	27	--	--	--	--	--	--	--	--	--	--
NUTECH	1N-109 CB/LL/RW	172	97	57	13	34	210	108	58	14	29	--	--	--	--	--
NUTECH	3A-710 GT	173	97	59	13	32	166	85	59	13	25	--	--	--	--	--
NUTECH	3A-715 GT	181	102	55	14	29	185	95	55	17	30	--	--	--	--	--
NUTECH	3C-115 RR/YGCB	169	95	58	13	29	198	102	57	15	29	--	--	--	--	--
NUTECH	3T-110 VT3	178	101	58	14	28	--	--	--	--	--	--	--	--	--	--
NUTECH	3T-315 VT3	184	104	58	16	26	189	97	58	15	30	--	--	--	--	--

TABLE 6 continued. SOUTH CENTRAL KANSAS IRRIGATED CORN PERFORMANCE TEST, 2010

BRAND	NAME	INMAN, McPherson County					HUTCHINSON, Reno County					ST. JOHN, Stafford County				
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	1000 ppa
NUTECH	3T-413 VT3	192	109	58	14	29	201	104	59	14	29	--	--	--	--	--
NUTECH	3T-415 VT3	186	105	58	16	30	193	99	57	15	28	--	--	--	--	--
NUTECH	3T-714 VT3	187	105	60	15	31	207	106	60	14	28	--	--	--	--	--
NUTECH	3T-914 VT3	178	100	55	16	33	204	105	56	17	26	--	--	--	--	--
NUTECH	5N-215 GT/CB/LL/RW	182	103	58	16	29	204	105	57	15	29	--	--	--	--	--
PHILLIPS	702AG	144	81	56	13	27	192	99	56	13	28	180	97	56	12	28
PHILLIPS	703VT3	176	99	58	14	30	215	111	57	15	31	190	102	57	14	33
PHILLIPS	715GTbt	193	109	56	13	31	196	101	57	13	28	206	110	56	13	30
PHILLIPS	723AG	162	92	58	14	30	179	92	55	14	30	180	97	58	13	34
PHILLIPS	789AG	164	92	57	14	33	209	107	57	14	29	176	94	57	14	33
PHILLIPS	795VT3	169	96	58	14	31	200	103	58	14	30	195	105	59	15	32
PRODUCERS	6814VT3	182	103	57	14	31	196	101	56	14	28	187	100	57	14	30
PRODUCERS	7134VT3	182	103	57	14	29	188	96	57	14	30	179	96	55	14	33
PRODUCERS	7394VT3	190	107	58	15	29	192	98	57	14	29	200	107	57	16	33
PRODUCERS	7414VT3	182	103	57	14	30	200	103	56	15	31	206	110	55	16	33
PRODUCERS	7624VT3	193	109	58	16	31	197	101	59	15	32	200	107	57	16	32
STINE	9728VT3	--	--	--	--	--	210	108	57	17	29	--	--	--	--	--
STINE	9729VT3 Pro	--	--	--	--	--	181	93	58	14	28	--	--	--	--	--
STINE	9731VT3 Pro	--	--	--	--	--	223	115	59	14	30	--	--	--	--	--
STINE	9806VT3	--	--	--	--	--	209	108	56	17	27	--	--	--	--	--
TRIUMPH	1204V	184	104	58	14	30	213	110	58	15	29	195	104	59	14	30
TRIUMPH	1217Cb	192	108	58	14	31	189	97	58	15	29	--	--	--	--	--
TRIUMPH	1420X	173	97	58	16	32	201	103	58	15	31	--	--	--	--	--
TRIUMPH	7514S	174	98	57	15	32	198	102	57	16	30	--	--	--	--	--
	AVERAGE	177	177	58	15	30	195	195	58	15	29	186	186	58	15	32
	CV (%)	10	10	1	4	4	9	9	2	4	4	7	7	1	5	3
	LSD (0.05)	24	14	1	1	2	24	12	1	1	2	19	10	1	1	1

* Seed treatment and hybrid traits located in Table 9.

** 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; Sorghum in 2009

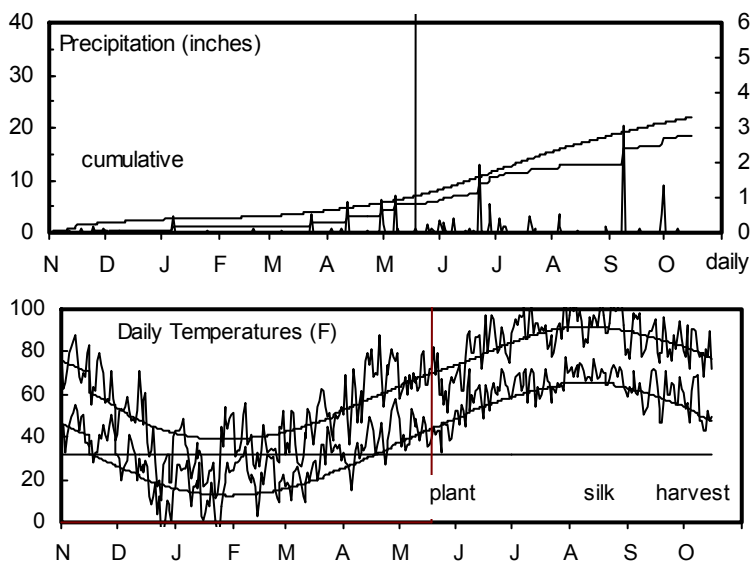
80 - 0 - 0 lb/a N, P, K

Planted on 5/4/2010; Harvested on 9/30/2010

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

Good planting conditions. Wet spring; dry summer until harvest.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	3.0	4.5	36	35	325	241
April	2.5	1.7	56	50	281	191
May	1.8	2.9	61	61	376	355
June	4.1	3.5	77	71	676	594
July	1.6	3.2	80	78	771	733
August	3.3	2.6	79	76	721	712
Sep.- Oct.	2.2	2.9	66	65	555	517
Totals:	18.4	21.3	54	52	3,703	3,343



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

Keith silt loam; Fallow in 2009

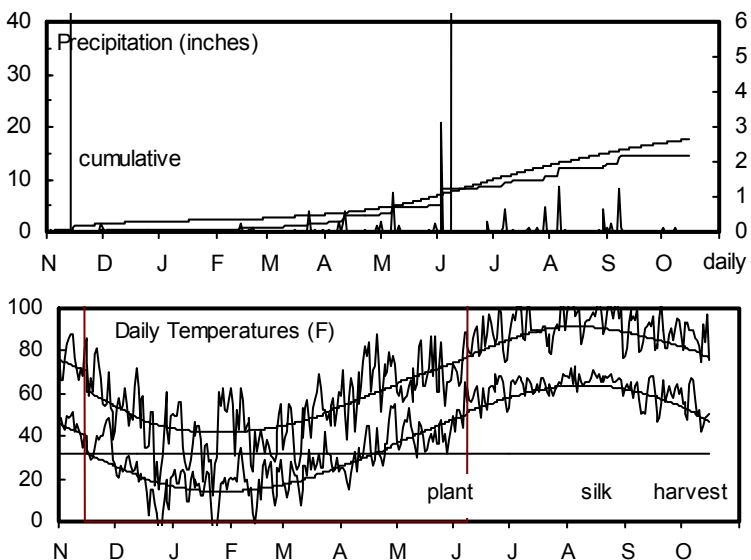
160 - 0 - 0 lb/a N, P, K

Planted on 5/25/2010; Harvested on 10/13/2010

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

Wet winter into early spring. Hot and dry middle to end of June. Dry rest of summer until harvest.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	3.0	3.6	37	36	359	255
April	1.9	1.5	54	50	259	200
May	3.6	2.7	61	61	394	362
June	1.2	2.8	77	72	667	594
July	2.4	2.3	79	78	738	719
August	2.4	2.1	78	76	698	699
Sep.- Oct.	0.3	2.1	68	64	589	508
Totals:	14.7	17.1	55	53	3,704	3,337



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

Keith silt loam; Wheat in 2009

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

Planted on 5/4/2010; Harvested on 9/23/2010

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

Good stands were established and above-normal rainfall through mid-August provided good growing conditions. Mid-August until harvest was hot and dry.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	4.0	3.3	35	34	317	206
April	2.3	1.3	51	49	207	175
May	2.3	2.7	58	59	318	327
June	2.5	3.2	74	70	609	553
July	3.2	2.9	77	76	717	701
August	0.2	1.9	75	74	653	669
Sep.- Oct.	0.8	1.7	64	62	495	462
Totals:	15.2	17.2	52	51	3,316	3,093

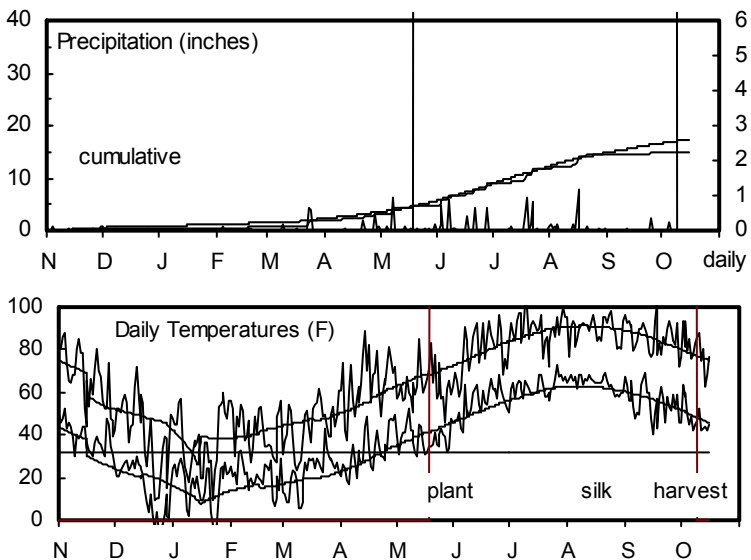


TABLE 7. WEST KANSAS NO-TILL DRYLAND CORN PERFORMANCE TEST, 2010

BRAND	NAME	HAYS, Ellis County						GARDEN CITY, Finney 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
DEKALB	DKC50-44	86	89	51	9	69	17	--	--	--	--	--	--	126	109	55	16	76	17
DEKALB	DKC52-59	66	69	52	9	72	14	--	--	--	--	--	--	123	106	55	14	77	18
DEKALB	DKC55-24	93	96	53	10	72	18	--	--	--	--	--	--	129	112	55	14	78	19
DEKALB	DKC57-50	113	117	55	12	69	17	--	--	--	--	--	--	100	87	55	16	79	17
DEKALB	DKC59-88	91	94	54	11	71	18	--	--	--	--	--	--	86	74	55	18	81	17
DYNA-GRO	55V71	--	--	--	--	--	--	--	--	--	--	--	--	121	105	55	14	79	17
DYNA-GRO	56R60	--	--	--	--	--	--	--	--	--	--	--	--	111	96	53	15	79	18
DYNA-GRO	57V15	--	--	--	--	--	--	--	--	--	--	--	--	142	123	53	19	79	17
FONTANELLE	7T231	--	--	--	--	--	--	106	117	56	16	61	16	--	--	--	--	--	--
LG SEEDS	LG2540VT3	--	--	--	--	--	--	88	97	58	18	61	17	--	--	--	--	--	--
LG SEEDS	LG2544VT3	--	--	--	--	--	--	104	115	57	16	62	15	--	--	--	--	--	--
LG SEEDS	LG2549VT3	--	--	--	--	--	--	87	96	57	17	62	16	--	--	--	--	--	--
MAT CHK	EARLY DKC50-44	112	116	53	10	72	20	108	120	56	15	61	16	133	115	55	15	78	18
MAT CHK	FULL-R8526YGCB	71	73	48	15	75	18	49	54	52	21	62	17	131	114	47	21	81	18
MAT CHK	MID-NC+5392B	107	111	52	13	74	20	99	110	57	20	61	17	112	97	52	17	80	18
MIDLAND	361BRW	--	--	--	--	--	--	90	99	59	16	62	17	112	97	55	14	80	18
MIDLAND	417BRW	100	110	58	16	61	17	--	--	--	--	--	--	--	--	--	--	--	--
MIDLAND	451GT	--	--	--	--	--	--	84	92	57	17	61	14	104	90	53	14	77	17
MIDLAND	481PRW	--	--	--	--	--	--	91	101	58	18	59	18	112	97	54	18	78	17
MIDLAND	531PRW	--	--	--	--	--	--	97	107	57	18	61	16	107	93	55	16	80	18
MIDLAND	641BLGW	--	--	--	--	--	--	99	109	57	19	61	16	98	85	52	18	80	18
MIDLAND	670BRW	--	--	--	--	--	--	65	72	53	24	61	16	110	95	51	23	79	14
MIDLAND	779BRW	--	--	--	--	--	--	68	76	54	20	62	18	123	107	52	21	81	17
MIDLAND	7A28BRW	--	--	--	--	--	--	74	82	55	20	62	15	100	87	50	19	82	17
PHILLIPS	702AG	106	110	52	10	73	19	--	--	--	--	--	--	111	96	53	18	81	15
PHILLIPS	703VT3	105	109	55	13	74	18	124	137	57	19	62	18	107	92	53	19	80	15
PHILLIPS	715GTbt	102	106	51	12	72	19	106	118	56	18	61	18	--	--	--	--	--	--
PHILLIPS	723AG	87	90	54	12	73	20	--	--	--	--	--	--	136	118	53	19	78	18
PHILLIPS	789AG	108	112	53	14	74	19	109	120	56	19	62	16	--	--	--	--	--	--
PHILLIPS	795VT3	109	113	53	12	74	21	62	69	57	19	61	14	--	--	--	--	--	--
PRODUCERS	6790	98	101	53	12	71	17	--	--	--	--	--	--	110	95	53	17	79	16
PRODUCERS	5624VT3	95	99	50	11	70	18	--	--	--	--	--	--	122	105	55	15	77	16
PRODUCERS	5684VT3	102	105	53	10	71	18	--	--	--	--	--	--	150	130	55	14	78	17
PRODUCERS	5784VT3	78	81	51	9	66	18	--	--	--	--	--	--	99	85	55	15	76	15
PRODUCERS	6364GT3	100	104	54	10	70	18	--	--	--	--	--	--	120	104	53	16	79	17
PRODUCERS	6814VT3	99	102	54	12	73	18	--	--	--	--	--	--	100	87	54	18	82	17
STINE	9729VT3 Pro	--	--	--	--	--	--	--	--	--	--	--	--	118	102	54	16	80	18
STINE	9806VT3	--	--	--	--	--	--	--	--	--	--	--	--	114	98	52	21	78	17
TRIUMPH	1121V	99	102	56	13	73	18	--	--	--	--	--	--	--	--	--	--	--	--
	AVERAGE	96	96	53	11	72	18	90	90	56	18	61	16	116	116	53	17	79	17
	CV (%)	9	9	3	1	2	7	9	9	2	8	2	11	10	10	2	16	2	14
	LSD (0.05)	13	13	2	2	2	2	11	12	1	2	2	3	16	14	2	4	2	3

* Seed treatment and hybrid traits located in Table 9.

** 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.

WESTERN KANSAS IRRIGATED CORN TEST

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

Keith silt loam; Sunflower in 2009

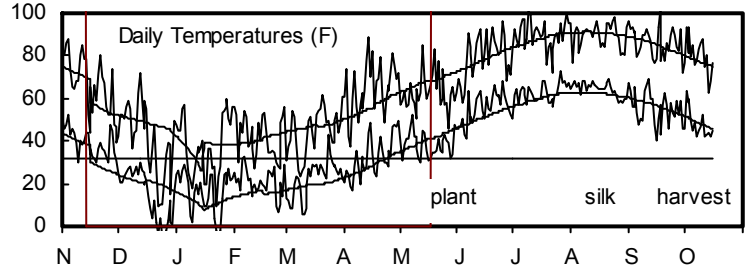
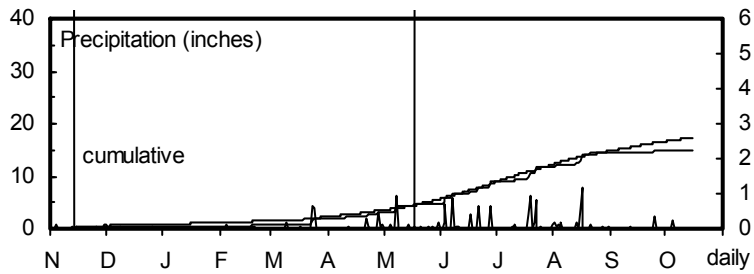
275 - 65 - 0 lb/a N, P, K

Planted on 5/3/2010; Harvested on 10/12/2010

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

Very good growing conditions the entire season.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	4.0	3.3	35	34	317	206
April	2.3	1.3	51	49	207	175
May	2.3	2.7	58	59	318	327
June	2.5	3.2	74	70	609	553
July	3.2	2.9	77	76	717	701
August	0.2	1.9	75	74	653	669
Sep.- Oct.	0.8	1.7	64	62	495	462
Totals:	15.2	17.2	52	51	3,316	3,093



Southwest Research-Extension Center, Tribune; Alan Schlegel, agronomist

Colby silt loam; Sunflower in 2009

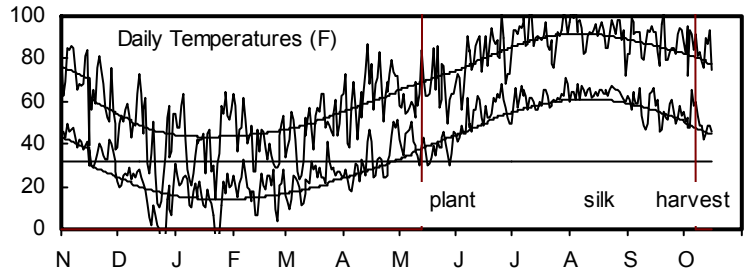
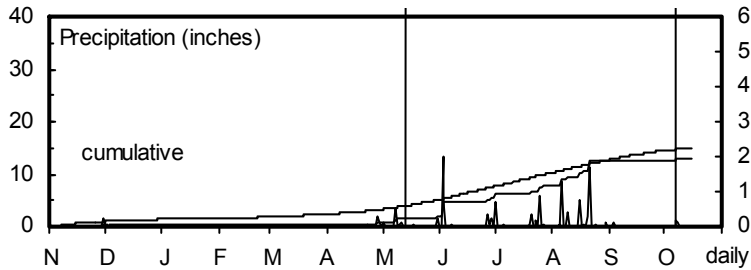
210 - 25 - 0 lb/a N, P, K

Planted on 4/29/2010; Harvested on 9/21/2010

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

Hail event on 7/23.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	1.2	2.8	37	36	330	261
April	1.2	1.2	51	49	213	207
May	3.0	2.2	58	59	344	356
June	1.6	2.4	74	70	601	544
July	3.3	2.4	78	76	701	674
August	2.3	2.1	76	74	673	653
Sep.- Oct.	0.3	1.6	65	63	521	483
Totals:	13.0	14.7	53	52	3,383	3,177



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

Keith silt loam; Soybeans in 2009

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

Planted on 5/25/2010; Harvested on 10/13/2010

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

Wet winter into early spring. Hot and dry middle to end of June. Dry rest of summer until harvest.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	3.0	3.6	37	36	359	255
April	1.9	1.5	54	50	259	200
May	3.6	2.7	61	61	394	362
June	1.2	2.8	77	72	667	594
July	2.4	2.3	79	78	738	719
August	2.4	2.1	78	76	698	699
Sep.-Oct.	0.3	2.1	68	64	589	508
Totals:	14.7	17.1	55	53	3,704	3,337

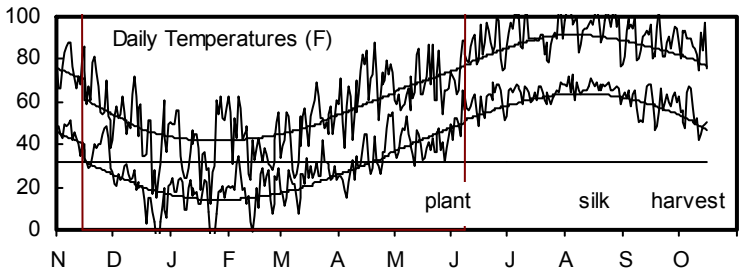
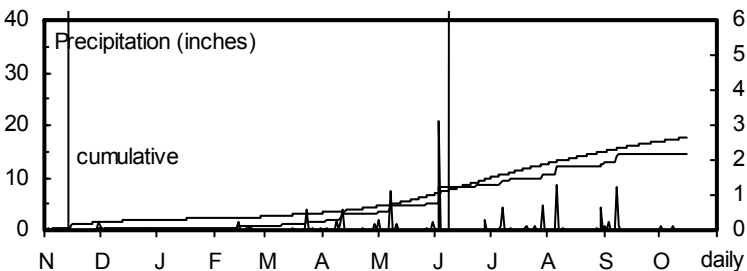


TABLE 8. WEST KANSAS IRRIGATED CORN PERFORMANCE TEST, 2010

BRAND	NAME	COLBY, Thomas County						TRIBUNE, Greeley County						GARDEN CITY, Finney 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
CHANNEL	208-72VT3	263	104	58	14	75	31	189	101	52	24	80	33	148	98	58	12	58	29
CHANNEL	216-49VT3P	230	91	58	15	75	27	175	94	52	27	83	38	162	108	60	13	61	31
DEKALB	DKC52-59	243	96	57	13	75	27	--	--	--	--	--	--	--	--	--	--	--	--
DEKALB	DKC55-24	226	90	58	14	76	28	--	--	--	--	--	--	--	--	--	--	--	--
DEKALB	DKC59-88	249	99	59	15	75	26	176	94	53	26	81	30	153	101	60	13	60	28
DEKALB	DKC62-63	226	90	58	14	74	29	173	93	52	28	81	35	153	102	60	12	58	31
DEKALB	DKC63-84	253	100	56	13	76	27	192	103	52	28	81	33	169	112	57	12	59	28
DEKALB	DKC64-69	--	--	--	--	--	--	199	106	54	26	83	33	163	108	60	14	58	28
DEKALB	DKC64-83	--	--	--	--	--	--	178	95	55	24	81	33	142	94	60	13	59	27
DYNA-GRO	57V07	262	104	56	16	76	29	192	103	51	31	82	35	173	115	58	13	60	30
DYNA-GRO	57V40	228	91	58	15	76	28	182	97	53	23	81	35	142	94	59	13	60	27
DYNA-GRO	57V59	255	101	58	14	74	28	189	101	52	28	81	31	147	97	58	13	58	29
DYNA-GRO	D49VP59	264	105	57	15	74	27	197	105	54	24	78	32	129	86	60	14	57	25
DYNA-GRO	V5373VT3	254	101	57	16	77	28	206	110	52	27	83	33	150	99	60	13	58	28
eMerge	SX849	--	--	--	--	--	--	--	--	--	--	--	--	135	89	61	14	61	28
FONTANELLE	7V697	276	110	58	15	76	29	214	115	53	25	81	35	167	111	59	13	58	31
FONTANELLE	8A478/8T478	--	--	--	--	--	--	--	--	--	--	--	--	123	82	59	12	58	28
FONTANELLE	8T169	--	--	--	--	--	--	203	109	54	25	80	33	142	94	60	13	59	28
FONTANELLE	8T468	291	116	57	15	76	29	207	111	53	27	81	34	157	104	58	13	58	29
FONTANELLE	8V437	--	--	--	--	--	--	168	90	51	27	82	35	153	102	59	12	59	28
GARST	83E90-3000GT	--	--	--	--	--	--	--	--	--	--	--	--	158	105	58	13	61	25
GARST	83P07 GT/CB/LL Brand	--	--	--	--	--	--	--	--	--	--	--	--	155	103	54	13	61	26
GARST	83T94 GT/CB/LL Brand	--	--	--	--	--	--	--	--	--	--	--	--	126	83	56	12	62	26
GARST	85Z64 GT/CB/LL Brand	--	--	--	--	--	--	--	--	--	--	--	--	171	114	57	12	60	28
LG SEEDS	LG2549VT3	--	--	--	--	--	--	--	--	--	--	--	--	158	105	57	12	58	27
LG SEEDS	LG2555VT3	273	108	56	14	76	29	--	--	--	--	--	--	--	--	--	--	--	--
LG SEEDS	LG2616VT3	240	95	57	14	77	27	198	106	49	32	83	34	--	--	--	--	--	--
LG SEEDS	LG2620VT3	261	104	56	15	77	29	175	93	51	25	84	37	--	--	--	--	--	--
LG SEEDS	LG2641VT3	--	--	--	--	--	--	--	--	--	--	--	--	192	127	57	12	57	29
LG SEEDS	LG2642VT3	--	--	--	--	--	--	--	--	--	--	--	--	162	108	59	13	58	29
MAT CHK	EARLY DKC50-44	241	96	57	12	74	29	190	102	56	18	79	35	163	108	57	12	57	30
MAT CHK	FULL-R8526YGCB	282	112	53	19	77	30	164	88	50	33	85	37	134	89	55	13	61	24
MAT CHK	MID-NC+5392B	241	96	57	15	77	28	187	100	50	32	84	37	128	85	57	13	59	26
MIDLAND	361BRW	250	99	58	13	77	29	--	--	--	--	--	--	144	95	59	13	60	28
MIDLAND	417BRW	--	--	--	--	--	--	--	--	--	--	--	--	138	92	57	12	58	23
MIDLAND	451GT	233	92	56	13	78	29	--	--	--	--	--	--	141	93	57	11	61	32
MIDLAND	481PRW	239	95	58	14	74	29	--	--	--	--	--	--	138	92	60	13	58	28
MIDLAND	531PRW	230	91	57	14	74	28	--	--	--	--	--	--	149	99	60	13	58	31
MIDLAND	641BLGW	260	103	56	15	77	29	--	--	--	--	--	--	126	84	57	12	61	34
MIDLAND	670BRW	242	96	56	17	74	27	--	--	--	--	--	--	156	104	57	13	59	27
MIDLAND	779BRW	248	98	56	17	76	28	--	--	--	--	--	--	163	108	58	14	58	25
MIDLAND	7A28BRW	276	110	55	17	79	28	--	--	--	--	--	--	150	100	56	13	62	24
MYCOGEN	2A787	227	90	56	16	76	26	176	94	52	29	83	35	149	99	59	13	58	27
MYCOGEN	2D775	265	105	54	18	74	29	201	108	51	30	80	35	168	112	58	14	57	30
MYCOGEN	2T784	239	95	56	17	79	31	185	99	51	29	85	36	113	75	58	13	61	31
MYCOGEN	2T826	--	--	--	--	--	--	--	--	--	--	--	--	150	100	59	14	61	30
MYCOGEN	2V732	281	111	56	16	76	29	188	100	52	29	82	36	177	118	58	13	60	29
PHILLIPS	702AG	233	92	57	13	77	25	--	--	--	--	--	--	150	100	56	11	60	27
PHILLIPS	703VT3	236	94	57	15	76	30	--	--	--	--	--	--	166	110	59	13	59	29
PHILLIPS	715GTbt	259	103	55	15	77	28	--	--	--	--	--	--	143	95	58	13	60	30
PHILLIPS	723AG	253	100	58	14	75	25	--	--	--	--	--	--	156	103	58	12	59	26
PHILLIPS	789AG	247	98	56	15	77	29	--	--	--	--	--	--	157	104	57	12	59	27
PHILLIPS	795VT3	250	99	58	16	76	27	--	--	--	--	--	--	183	121	58	13	61	33
PRODUCERS	6814VT3	251	100	56	14	76	30	--	--	--	--	--	--	153	101	58	13	58	28
PRODUCERS	7014VT3	255	101	56	14	77	29	--	--	--	--	--	--	159	106	58	12	59	27
PRODUCERS	7134VT3	243	97	55	13	75	28	--	--	--	--	--	--	156	103	57	12	58	30
PRODUCERS	7394VT3	263	104	57	15	77	28	--	--	--	--	--	--	146	97	58	12	58	24
PRODUCERS	7414VT3	273	108	55	16	76	29	--	--	--	--	--	--	140	93	57	12	57	28
PRODUCERS	7624VT3	--	--	--	--	--	--	--	--	--	--	--	--	172	114	59	14	59	30
SPIRIT	SP109-1GT	238	95	56	13	77	28	--	--	--	--	--	--	--	--	--	--	--	--
SPIRIT	SP111-1GT3	244	97	56	14	77	27	193	103	51	26	84	37	--	--	--	--	--	--
SPIRIT	SP112-1LW	258	102	56	15	78	28	161	86	52	25	84	35	157	104	57	12	60	27
SPIRIT	SP113-1LW	--	--	--	--	--	--	163	87	51	26	83	32	--	--	--	--	--	--
SPIRIT	SP114-1GT3	--	--	--	--	--	--	--	--	--	--	--	--	115	76	57	13	61	28
STINE	9729VT3 Pro	--	--	--	--	--	--	--	--	--	--	--	--	141	94	58	13	58	24
STINE	9806VT3	--	--	--	--	--	--	--	--	--	--	--	--	148	98	58	14	58	28

TABLE 8 continued. WEST KANSAS IRRIGATED CORN PERFORMANCE TEST, 2010

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
TRIUMPH	1217Cb	288	114	56	15	76	26	208	111	52	28	81	33	--	--	--	--	--	--
TRIUMPH	1420X	259	103	56	15	76	28	180	96	53	29	83	33	157	104	56	12	59	25
TRIUMPH	1536H	245	97	56	17	77	27	--	--	--	--	--	--	--	--	--	--	--	--
TRIUMPH	1601X	--	--	--	--	--	--	--	--	--	--	--	--	125	83	57	13	59	25
TRIUMPH	7514S	257	102	57	15	77	29	185	99	51	28	85	36	--	--	--	--	--	--
	AVERAGE	252	252	57	15	76	28	187	187	52	27	82	34	151	151	58	13	59	28
	CV (%)	9	9	3	8	1	9	9	9	1	6	1	5	9	9	2	6	2	12
	LSD (0.05)	32	13	2	2	2	3	24	13	1	2	1	2	19	12	1	1	2	5

* Seed treatment and hybrid traits located in Table 9.

** 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 9. Entries in the 2010 Kansas Corn Performance Tests

	SD	TRT*	GDD	DBL	RES	P	F		SD	TRT	GDD	DBL	RES	P	F
AGRIGOLD								FONTANELLE							
A6309STX	P250		2465	--	RR,CB,RW	--	Y	6T510	--		--	--	--	--	--
A6389VT3	P250		2500	--	RR,CB,RW	--	--	7V657	--		--	--	--	--	--
A6384VT3Pro	P250		2600	--	RR,CB,RW	--	--	7V697	--		--	--	--	--	--
A6419VT3	P250		2690	--	RR,CB,RW	--	Y	8A478/8T478	--		--	--	--	--	--
A6476VT3	P250		2700	--	RR,CB,RW	--	--	8V437	--		--	--	--	--	--
A6553VT3	P250		2765	--	RR,CB,RW	--	Y	7T231	--		2720	--	VT3	--	--
A6458VT3	P250		2660	110	RR	--	Y	8T468	--		2790	--	VT3	--	--
A6533VT3	P250		2780	113	RR	--	Y	8T169	--		2875	--	VT3	--	--
AGVENTURE								G2 GENETICS							
8033	--		--	--	--	--	--	3A-210 RR	--		--	--	--	--	--
AV 8036V3R	P250		--	111	CB,RR,RW	--	Y	3A-511 RR	--		--	--	--	--	--
CHANNEL								3A-615 RR							
211-82R	--		--	--	--	--	--	5H-005 RR/HX	--		--	--	--	--	--
211-84T	--		--	--	--	--	--	5H-007 RR/HX	--		--	--	--	--	--
199-55VT3	P250		2370	99	RR	N	Y	5H-105 RR/HX	--		--	--	--	--	--
208-72VT3	P250		2740	108	RR	N	Y	5H-210 RR/HX	--		--	--	--	--	--
216-49VT3P	P250		2875	116	RR	N	N	5H-210A RR/HX	--		--	--	--	--	--
216-63VT3	P250		2925	116	RR	N	Y	5H-311	--		--	--	--	--	--
DEKALB								5H-404 RR/HX							
DKC53-45 GNSS	--		--	--	--	--	--	5H-404A RR/HX	--		--	--	--	--	--
DKC50-44	P250		2530	100	VT3	Y	Y	5H-502 RR/HX	--		--	--	--	--	--
DKC52-59	P250		2540	102	VT3	--	--	5H-502A RR/HX	--		--	--	--	--	--
DKC55-24	P250		2561	105	VT3	--	--	5H-509 RR/HX	--		--	--	--	--	--
DKC57-50	P250		2736	107	VT3	Y	N	5H-511A RR/HX	--		--	--	--	--	--
DKC59-88	P250		--	109	VT3	Y	Y	5H-511RR/HX	--		--	--	--	--	--
DKC61-69	P250		2760	111	VT3	--	--	5H-513 RR/HX	--		--	--	--	--	--
DKC62-63	AC250		2800	112	GENVT3P	Y	Y	5H-515 RR/HX	--		--	--	--	--	--
DKC63-84	P250		2825	113	VT3	Y	Y	5H-515A RR/HX	--		--	--	--	--	--
DKC64-83	AC250		2820	114	GENVT3P	Y	Y	5H-607 RR/HX	--		--	--	--	--	--
DKC64-69	AC250		2850	114	GENVT3P	Y	Y	5H-608 RR/HX	--		--	--	--	--	--
DKC65-63	P250		2810	115	VT3	Y	N	5H-614 RR/HX	--		--	--	--	--	--
DKC66-96	AC250		2820	116	GENVT3P	Y	N	5H-615 RR/HX	--		--	--	--	--	--
DYNA-GRO								5H-700 RR/HX							
56R60	P250		2700	--	HXXTRA RR	--	Y	5H-812 RR/HX	--		--	--	--	--	--
D49VP59	P250		2730	--	VT3PRO	--	Y	5H-905 RR/HX	--		--	--	--	--	--
57V59	P250		2850	--	VT3	--	SF	5H-906 RR/HX	--		--	--	--	--	--
55V71	P250		2580	105	VT3	Y	Y	5X-004 RR/HXT	--		--	--	--	--	--
57V40	P250		2725	110	VT3	Y	Y	5X-005 RR/HXT	--		--	--	--	--	--
57V15	P250		2750	110	VT3	Y	Y	5X-007 RR/HXT	--		--	--	--	--	--
57V07	P250		2850	114	VT3	Y	Y	5X-206 RR/HXT	--		--	--	--	--	--
V5373VT3	P250		2850	114	VT3	Y	Y	5X-215 RR/HXT	--		--	--	--	--	--
eMERGE GENETICS								5X-411 RR/HXT							
SX849	P250		--	--	--	--	Y	5X-411A RR/HXT	--		--	--	--	--	--
FONTANELLE								5X-411B RR/HXT							
4T722	--		--	--	--	--	--	5X-500 RR/HXT	--		--	--	--	--	--
5T426	--		--	--	--	--	--	5X-598 RR/HXT	--		--	--	--	--	--
6T226	--		--	--	--	--	--	5X-895 RR/HXT	--		--	--	--	--	--
								5X-903 RR/HXT	--		--	--	--	--	--
								5X-905 RR/HXT	--		--	--	--	--	--

Table 9 continued. Entries in the 2010 Kansas Corn Performance Tests

							SD TRT	GDD	DBL	RES	P	F	
SD TRT*	GDD	DBL	RES	P	F		SD TRT	GDD	DBL	RES	P	F	
G2 GENETICS							MYCOGEN						
1X-716 HXT/LL	--	1335	--	HXT/LL	--	Y	2P612	CE250	2500	105	RR/LL	N	N
5H-314 RR/HX	--	1345	--	RR2/HX1/LL	--	Y	2K592	CE250	2620	105	RR/LL	N	N
1H-005 HX/LL	--	2590	--	HX1/LL	--	Y	2T699	CE250	2765	110	VT3	--	Y
GARST													
85V88-3000GT Bra C		2550	107	LL,CB,RR	N	Y	2H735	CE250	2755	112	RR2	--	Y
85Z64 GT/CB/LL Br C		2575	110	GT/CB/LL	Y	Y	2V732	CE250	2765	113	VT3	--	--
84N18-3000GT Bra C		2620	111	GT/CB/LL	Y	Y	X21771	CE250	--	114	RR/LL	N	N
83T94 GT/CB/LL Br C		2630	113	GT,CB,LL	N	Y	2T784	CE250	2740	114	RR/LL	N	Y
84U58	C	2630	113	GT/CB/LL/RW	Y	SD	X20785	CE250	--	115	RR/LL	N	N
83S06-3000GT Bra C		2640	114	GT/CB/LL/RW	Y	Y	2T826	CE250	2790	115	RR,LL	--	Y
83E90-3000GT	--	2620	115	CBGTLLRW	N	Y	NUTECH						
83P07 GT/CB/LL B C		2640	115	GTRRCBLL	N	Y	0C-213 YGCB	--	--	--	--	--	--
82H82-3000GT Bra C		2690	118	CBGTLLRR	N	Y	1N-109 CB/LL/RW	--	--	--	--	--	--
GOLDEN HARVEST													
H-8577 3000GT	--	--	--	--	--	--	3A-098 RR	--	--	--	--	--	--
H-8852 3000GT	--	--	--	--	--	--	3A-109 GT	--	--	--	--	--	--
LG SEEDS													
LG2544VT3	P250	2530	107	VT3	N	Y	3A-406 GT	--	--	--	--	--	--
LG2540VT3	P250	2585	110	Bt/RR	N	Y	3A-710 GT	--	--	--	--	--	--
LG2549VT3	P250	2670	110	VT3	N	Y	3A-715 GT	--	--	--	--	--	--
LG2555VT3	P250	2670	111	VT3	N	Y	3C-115 RR/YGCB	--	--	--	--	--	--
LG2620VT3	P250	2620	112	VT3	N	Y	3C-413 RR/YGCB	--	--	--	--	--	--
LG2616VT3	P250	2670	113	VT3	N	Y	3T-110 VT3	--	--	--	VT3	--	Y
LG2641VT3	P250	2685	114	VT3	N	Y	3T-113 VT3	--	--	--	--	--	--
LG2642VT3	P250	2700	115	VT3	N	N	3T-315 VT3	--	--	--	VT3	--	Y
MASTERS CHOICE													
MCT-583	P250	--	--	LL/RR/CB/RW	N	Y	3T-413 VT3	--	--	--	--	--	--
MCT-628	P250	--	--	LL/RR/CB/RW	N	Y	3T-415 VT3	--	--	--	--	--	--
MFA MORCORN													
MC3227VT3	C	2517	--	VT3	N	Y	3T-603 VT3	--	--	--	--	--	--
MC3918VT3P	C	2650	--	VT3P	N	Y	3T-713 VT3	--	--	--	--	--	--
XP 204 VT3	C	2766	--	VT3	N	Y	3T-714 VT3	--	--	--	--	--	--
MIDLAND													
120HLR	P250	--	--	--	--	--	3T-914 VT3	--	--	--	--	--	--
658HLRW	P250	--	--	--	--	--	5B-612 GT/CB/LL	--	--	--	--	--	--
670BRW	P250	--	--	--	--	--	5N-197 GT/CB/LL/	--	--	--	--	--	--
779BRW	P250	--	--	--	--	--	5N-215 GT/CB/LL/	--	--	--	--	--	--
361BRW	P250	2660	107	VT3	Y	Y	5N-803 GT/CB/LL/	--	--	--	--	--	--
451GT	P250	2610	109	GT	Y	Y	5N-813 GT/CB/LL/	--	--	--	--	--	--
481PRW	P250	2630	110	VT3P	Y	Y	0C-616 YGCB	C250	2735	--	YGCB	N	Y
417BRW	P250	2760	110	CB	Y	Y	PHILLIPS						
531PRW	P250	2720	111	VT3P	Y	Y	702AG	P250	2500	104	AG	Y	Y
641BLGW	P250	2680	113	CBLLGTRW	Y	Y	703VT3	P250	2700	108	VT3	Y	Y
7A28BRW	P250	2840	115	CB,RR	Y	Y	723AG	P250	2700	109	AG	Y	Y
MYCOGEN													
2G779	--	--	--	--	--	--	795VT3	P250	2820	111	VT3	Y	Y
2T777	--	--	--	--	--	--	715GTBt	P250	2800	112	Bt	Y	Y
							PIONEER						
							37K11						
							35P10 YGCB,RR2						
							P0541HR,HX1,LL						
							35F40 HX1,LL,RR2						
							PREMIUM						
							P246 RR						
							Maxim XL						

Table 9 continued. Entries in the 2010 Kansas Corn Performance Tests

SD TRT* GDD DBL RES P F							SD TRT GDD DBL RES P F						
PRODUCERS							TRIUMPH						
5624VT3	P250	--	--	RR,CB,RW	--	Y	1121V	C250	2790	110	R,CB,RW	--	Y
5684VT3	P250	--	--	RR,CB,RW	--	Y	1204V	C250	--	112	R,CB,RW	--	Y
7394VT3	P250	--	--	RR,CB,RW	--	Y	7514S	C250	2580	114	LRCBRW	--	Y
7414VT3	P250	--	--	RR,CB,RW	--	Y	1536H	C250	2550	115	CB,RR	N	Y
7624VT3	P250	--	--	RR,CB,RW	--	Y	1420X	C250	2770	115	R,CB,RW	--	Y
6944VT3	P250	2550	--	RR,Bt,RW	--	Y	1522V	C250	2820	116	R,CB,RW	--	N
7134VT3	P250	2575	--	RR,Bt,RW	--	Y	1706HXRR	C250	2630	117	VT3	N	Y
5784VT3	P250	--	97	VT3	Y	Y	VPMmax						
5804VT3PRO	P250	--	98	VT3	Y	Y	Exp107233	C	--	--	RR,LL,CB,RW	--	Y
6364GT3	P250	--	103	3000GT	Y	Y	RL8154HB	C	--	--	RR,LL,CB	--	Y
6790	P250	--	107	--	Y	Y	RL8950HB	C	--	--	RR,LL,CB	--	Y
6814VT3	P250	--	108	VT3	Y	Y	MATURITY CHECK						
7014VT3	P250	--	110	VT3	Y	Y	MID-NC+5392B	--	--	--	--	--	--
SPIRIT HYBRIDS							EARLY DKC50-44	--	2530	100	VT3	--	--
SP109-1GT	CE	--	--	CBLLRW	--	Y	FULL-R8526YGCB	CE	2800	118	CB	N	Y
SP111-1GT3	CE	--	--	RRCBLLRW	--	Y							
SP112-1LW	CE	--	--	CBLLRW	--	Y							
SP113-1LW	CE	--	--	CBLL	Y	N							
SP114-1GT3	CE	--	--	RRCBLLRW	--	--							
STINE													
9731VT3 Pro	P250	2560	113	RR,CB,CRW	N	N							
9729VT3 Pro	P250	2570	114	RR,CB,CRW	N	N							
9728VT3	P250	2590	114	RR, CB, CRW	N	N							
9806VT3	P250	2620	116	RR,CB	N	Y							
SYLVESTER													
417BRW	P250	--	--	--	--	--							
658HLRW	P250	--	--	--	--	--							
670BRW	P250	--	--	--	--	--							
779BRW	P250	--	--	--	--	--							
7A28BRW	P250	--	--	--	--	--							
361BRW	P250	2660	107	VT3	Y	Y							
451GT	P250	2610	109	GT	Y	Y							
481PRW	P250	2630	110	VT3P	Y	Y							
531PRW	P250	2720	111	VT3P	Y	Y							
641BLGW	P250	2680	113	CBLLGTRW	Y	Y							
TAYLOR													
219270	P250	--	--	VT3	--	--							
219350	P250	--	--	VT3	--	--							
219700	P250	--	--	VT3	--	--							
299450	P250	--	--	HX/RR	--	--							
60-99 RR	P250	--	100	RR	--	Y							
1905VT3	P250	--	105	RR	--	Y							
70-04	P250	--	105	RR	--	Y							
1940VT3	P250	--	113	VT3	--	Y							
TRIUMPH													
1023X	C250	--	--	RR	--	--							
1217Cb	C250	--	--	CB	--	--							
1601X	C250	--	--	LRCBRW	--	--							

*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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