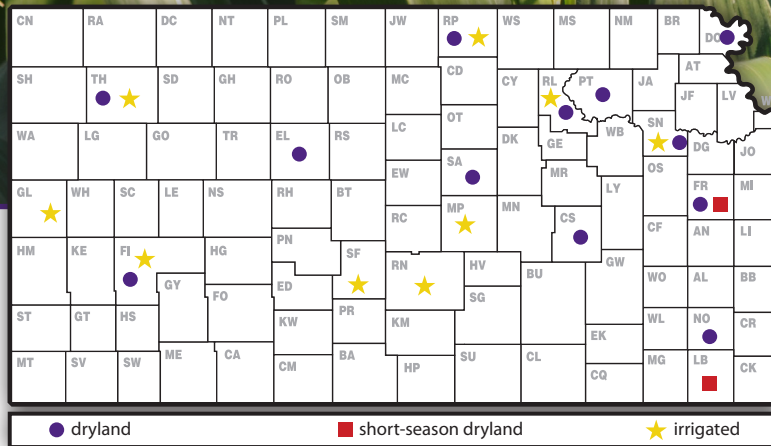
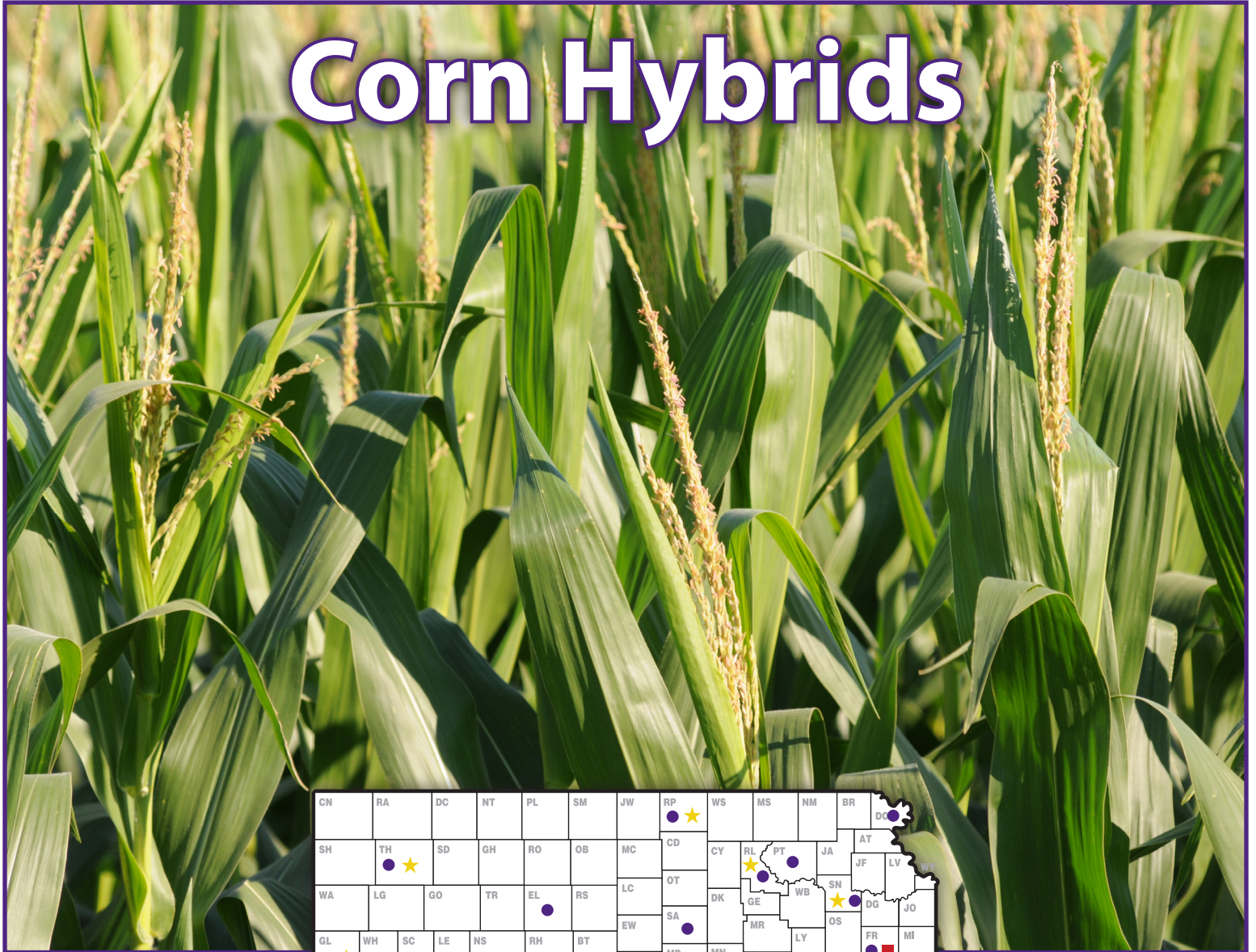


# 2014 Kansas Performance Tests with

# Corn Hybrids



## Report of Progress 1109



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# 2014 CORN CROP REVIEW

## Statewide Growing Conditions

The 2014 growing season was generally very favorable for the corn crop in Kansas. Planting began with adequate levels of topsoil moisture for most of the state (Figure 1), and timely rains and cooler-than-average temperatures continued into the summer months. Rainfall increased in the early fall, extending drydown of the grain and prompting many producers to harvest soybean and grain sorghum before corn. Despite the harvest delays, plant health remained good, and the majority of Kansas producers enjoyed above-average yields.

The effects of the mild growing season in 2014 could be seen in the quality of the corn crop; more than half of the crop was rated as good or excellent at the time of harvest (Figure 2). (Crop-Weather Reports, Kansas Agricultural Statistics, Topeka)

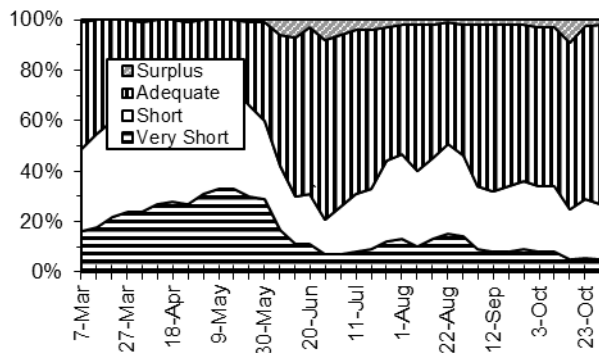


Figure 1. Statewide status of topsoil moisture

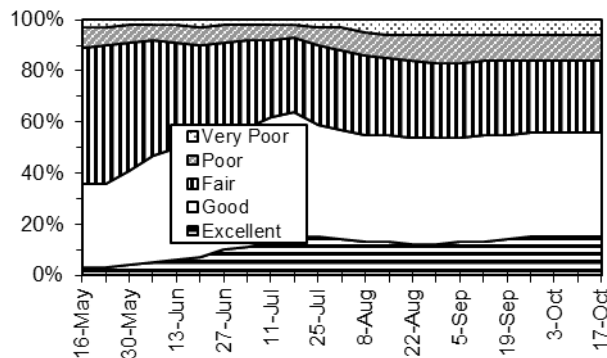


Figure 2. Condition of 2014 Kansas corn crop

## Harvest Statistics

The September 11 Crops Report predicted a 578 million-bushel crop, up 14% from last year's production. The anticipated number of acres to be harvested for grain is 3.75 million, down 6% from last year. The predicted average yield of 154 bushels per acre is up 27 bushels from last year. (Kansas Agricultural Statistics Service, Topeka)

## Diseases

Above-average rainfall in many areas of the state was responsible for corn yields that were well above average. These same rains however, provided conditions favorable to several diseases. Continuing a recent pattern, Goss's bacterial wilt and leaf blight continued to spread across the state. In 2014, Goss's leaf blight was found for the first time ever in 16 Kansas counties, most of which were in south central and the eastern third of the state. Goss's blight has now been reported in 55 different counties since its reemergence in the last decade.

Gray leaf spot, the most common foliar disease in the state, was active again in 2014. Irrigated fields that are in continuous no-till corn or that received rain in mid June were the most affected, especially if moderately susceptible hybrids were planted. Northern corn leaf blight, a less common disease in Kansas, was present in many areas, but this disease, which likes cooler weather, rarely reaches levels requiring fungicide treatment. Anthracnose leaf blight and southern rust, the other common foliar diseases, were also present in 2014, but there were no reports of fields that required spraying because of their presence.

Late in the season, stalk rots became an issue in many fields. All four of the common stalk rots that occur in Kansas were identified somewhere in the state. These include Fusarium stalk rot, charcoal rot, anthracnose stalk rot, and Diplodia stalk rot. Charcoal rot was present in areas that were droughty during grain fill. The other three are associated with higher levels of moisture starting at tasseling through the later stages of kernel development.

Rain also helped to significantly reduce the presence of Aspergillus ear mold, the cause of aflatoxin. Surveys in the areas of the state where the disease is most common indicated that the incidence of the disease was very low. (Doug Jardine, Kansas State

University Department of Plant Pathology)

## **Insects**

Once again, pest problems in corn were not too severe overall. Some localized infestations caused some concern. Japanese beetles were clipping silks in several fields in northeast Kansas and western corn rootworm adults were also voraciously feeding on silks in a couple of fields in north central Kansas. Neither insect reached the point of justifying an insecticide application but it was questionable for a while.

The same fields in north central Kansas that had the rootworm beetle problem also had goose-necking due to rootworm larval feeding on the roots. These fields were three or four consecutive years of corn planted with susceptible varieties. (Jeff Whitworth, Kansas State University Department of Entomology)

## **2014 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 2014 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 of 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 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 2014 Kansas Corn Performance Tests**

---

<b>AgriGold Hybrids</b> St. Francisville, IL 800-262-7333 agrigold.com	<b>Channel Seed</b> St. Louis, MO 314-694-1000 monsanto.com	<b>Integrity Hybrids</b> Kelley, IA 515-460-2169 integrityhybrids.com	<b>NuTech Seed, LLC (G2 Genetics)</b> Ames IA 515-232-1997 yieldleader.com
<b>AgVenture</b> Kentland, IN 888-999-0859 agventure.com	<b>Dekalb</b> St. Louis, MO 314-694-1000 monsanto.com	<b>LG Seeds</b> Elmwood, IL 800-752-6847 lgseeds.com	<b>Phillips Seed Farms, Inc.</b> Hope, KS 785-949-2204 phillipsseed.com
<b>Armor Seed, LLC</b> Waldenburg, AR 662-719-3157 armorseed.com	<b>Golden Acres Genetics</b> Waco, TX 254-761-9838 gaseed.com	<b>Midland Genetics Group</b> Ottawa, KS 785-242-3598 midlandgenetics.com	<b>Producers Hybrids</b> Battle Creek, NE 800-673-3190 producershybrids.com
<b>B-H Genetics</b> Ganado, TX 361-771-2755 bhgenetics.com	<b>Golden Harvest</b> Minnetonka, MN 612-656-8600 syngenta.com	<b>Mycogen Seeds</b> Indianapolis, IN 1-800-MYCOGEN dow.com	<b>Unity Seeds</b> Lafayette, IN 800-338-4558 unityseeds.com



# NORTHEAST KANSAS DRYLAND CORN TEST

Agronomy North Farm, Manhattan; Jane Lingenfelter, agronomist

Reading silt loam; soybean in 2013

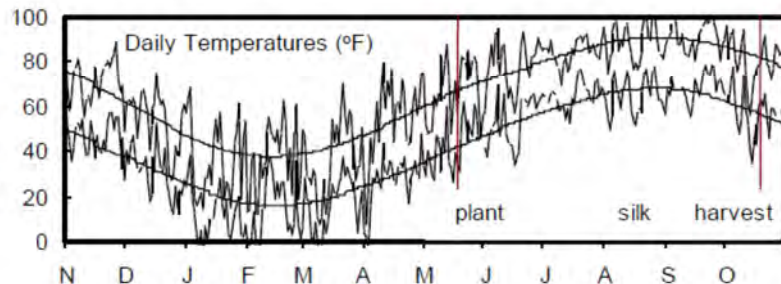
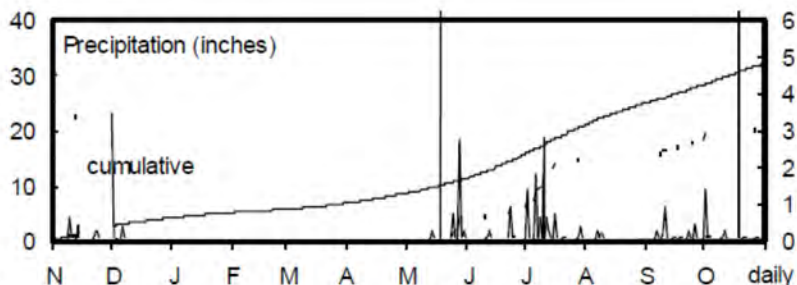
160 - 0 - 0 lb/a N, P, K

Planted on 4/18/2014; Harvested on 9/17/2014

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

Mild conditions during the summer months.

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	3.2	7.4	34	37	359	273
April	4.0	2.4	56	53	288	222
May	1.5	4.2	67	64	509	412
June	7.5	4.8	75	73	666	640
July	0.7	3.7	77	79	705	770
August	2.6	3.2	80	78	781	750
Sep.-Oct.	3.5	5.1	64	66	894	563
Totals:	23.0	30.9	53	54	4,202	3,628



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

Ulysses silt loam; soybean in 2013

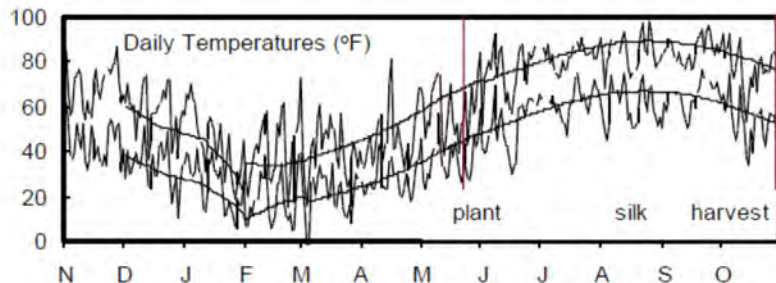
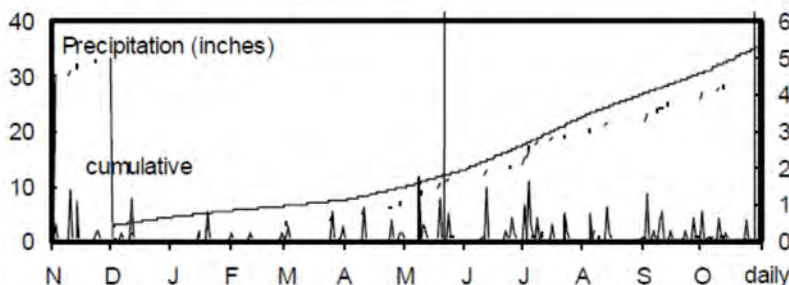
180 - 0 - 0 lb/a N, P, K

Planted on 4/22/2014; Harvested on 9/26/2014

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

Mild conditions during the summer months.

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	9.0	8.5	38	36	271	247
April	4.5	2.9	48	54	145	216
May	2.6	4.2	65	64	483	417
June	4.6	4.7	72	73	619	643
July	2.2	3.9	72	78	598	761
August	4.1	3.7	75	76	703	732
Sep.-Oct.	6.1	4.7	61	68	756	528
Totals:	33.0	32.6	53	53	3,574	3,545



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

Kipson silty clay loam; soybean in 2013

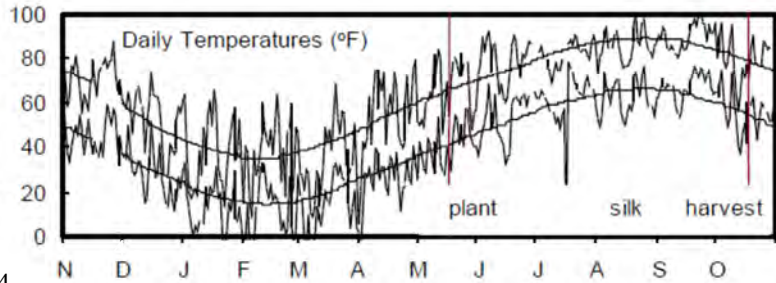
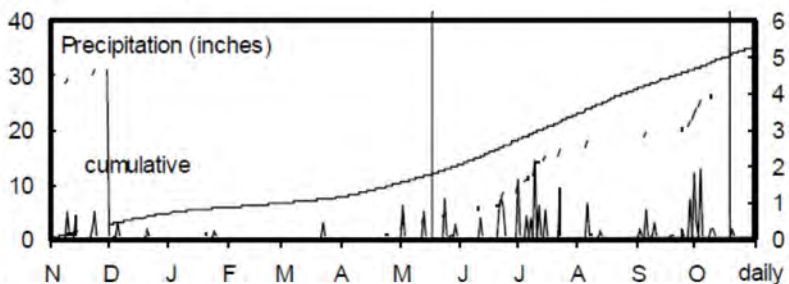
180 - 0 - 0 lb/a N, P, K

Planted on 4/18/2014; Harvested on 9/17/2014

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

Good growing season with minimal stresses.

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	5.8	9.1	34	36	356	261
April	3.2	2.9	54	53	260	208
May	3.4	4.3	66	62	502	373
June	6.7	4.3	72	72	590	614
July	1.4	4.4	74	77	663	742
August	3.2	3.5	79	76	757	716
Sep.-Oct.	7.1	5.2	63	64	847	496
Totals:	30.8	33.8	52	53	3,975	3,409



**TABLE 2. NORTHEAST KANSAS DRYLAND CORN PERFORMANCE TEST, 2014**

BRAND	NAME	MANHATTAN, Riley County					SEVERANCE, Doniphan County					Onaga, Pottawatomie 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
AGRIGOLD	A6408VT3PRIB	--	--	--	--	--	--	--	--	--	--	--	181	92	56	14	25	
AGRIGOLD	A6499STXRIB	--	--	--	--	--	235	106	56	22	72	24	193	99	58	18	26	
AGRIGOLD	A6517VT3PRIB	156	99	54	19	76	24	256	115	53	20	72	24	--	--	--	--	
AGRIGOLD	A6553VT3PRIB	160	101	52	18	74	22	--	--	--	--	--	--	--	--	--		
AGRIGOLD	A6573VT3PRIB	--	--	--	--	--	241	108	54	21	73	24	--	--	--	--		
AGRIGOLD	A6619VT2RIBD1	177	112	56	20	75	26	--	--	--	--	--	215	110	56	20	24	
DEKALB	DKC53-78 SSRIB	157	99	58	15	74	24	185	83	57	17	71	26	184	94	58	16	24
DEKALB	DKC61-89 RIB	178	112	58	18	77	24	249	112	56	20	72	26	214	109	58	17	26
DEKALB	DKC64-69 GENVT3P	174	110	57	19	73	23	212	95	56	20	71	22	173	88	58	17	24
GOLDEN ACRES	G4598	182	115	58	18	74	27	232	104	58	20	71	25	208	106	59	18	27
GOLDEN ACRES	G4655A	175	111	56	18	74	23	233	105	54	22	72	23	214	109	55	19	24
GOLDEN ACRES	G4678DG	171	108	56	20	75	24	254	114	54	21	72	24	228	116	56	19	27
GOLDEN ACRES	G5621	159	100	58	19	74	23	197	89	56	21	71	24	200	102	57	18	25
LG SEEDS	LG5618STXRIB	146	92	58	19	77	24	241	108	56	21	71	26	201	103	58	18	28
LG SEEDS	LG5622STX	127	80	58	17	75	20	--	--	--	--	--	--	--	--	--		
LG SEEDS	LG5630VT3PRIB	--	--	--	--	--	--	195	87	52	20	72	16	184	94	54	18	18
LG SEEDS	LG5717VT2Pro	155	98	56	21	81	24	251	113	55	21	71	27	247	126	57	20	27
MAT CHECK	LATE	168	106	59	20	76	23	251	113	57	23	71	21	208	106	59	20	23
MAT CHECK	MED	143	91	59	17	74	23	193	87	57	20	72	21	176	90	58	18	22
MIDLAND	344PRW	153	97	58	16	74	22	--	--	--	--	--	180	92	58	16	23	
MIDLAND	425SS	151	95	57	17	75	23	--	--	--	--	--	185	94	57	17	22	
MIDLAND	534PRW	171	108	59	17	74	24	240	108	57	20	72	24	210	107	59	17	25
MIDLAND	573PRW	150	95	59	19	74	21	207	93	57	20	72	22	188	96	59	18	22
MIDLAND	594PR DG	161	101	56	19	76	21	200	90	55	21	71	20	195	100	56	19	23
MIDLAND	624PRW	--	--	--	--	--	--	235	106	55	22	72	26	--	--	--	--	
MIDLAND	653PRW	149	94	57	20	74	22	218	98	54	21	72	20	191	98	56	20	24
MIDLAND	714PRW	167	106	56	20	76	23	238	107	54	22	72	22	235	120	56	20	26
MIDLAND	735PRW	169	107	55	20	77	29	255	115	54	22	71	28	--	--	--	--	
NUTECH/G2 GENETICS	3F-515	147	93	58	19	82	20	234	105	56	22	72	20	201	103	57	19	22
NUTECH/G2 GENETICS	3F-814	166	105	56	19	76	27	224	101	55	21	72	24	213	109	56	19	28
NUTECH/G2 GENETICS	5D-109	156	98	60	17	74	23	201	90	59	20	71	20	178	91	60	17	24
NUTECH/G2 GENETICS	5F-008	128	81	59	17	74	22	217	97	58	19	71	22	180	92	59	17	22
NUTECH/G2 GENETICS	5F-709	157	99	58	16	72	21	205	92	56	19	72	21	193	98	57	17	25
NUTECH/G2 GENETICS	5F-805	159	100	58	17	73	22	191	86	58	18	71	23	183	93	58	16	23
NUTECH/G2 GENETICS	5F-811	153	96	60	18	76	22	221	99	58	21	72	22	193	99	59	18	23
NUTECH/G2 GENETICS	5H-905	154	97	57	16	74	23	203	91	57	17	71	24	192	98	57	15	26
NUTECH/G2 GENETICS	5Z-113	137	87	60	18	74	20	222	100	58	20	73	20	195	99	59	19	22
NUTECH/G2 GENETICS	5Z-1209	162	102	57	18	76	29	221	99	57	19	72	24	173	89	58	17	27
NUTECH/G2 GENETICS	5Z-707	135	85	57	16	75	20	170	76	56	18	71	19	154	79	57	15	20
PHILLIPS	PSF053 VT2Pro	153	97	58	16	75	21	--	--	--	--	--	--	--	--	--	--	
PHILLIPS	PSF082 VT3Pro	173	109	58	16	74	22	--	--	--	--	--	--	--	--	--	--	
PHILLIPS	PSF112 VT3Pro	149	94	58	17	74	24	--	--	--	--	--	--	--	--	--	--	
PHILLIPS	PSF133DGV2Pro	160	101	56	20	76	23	--	--	--	--	--	--	--	--	--	--	
PHILLIPS	PSF141 SS	160	101	58	20	74	24	--	--	--	--	--	--	--	--	--	--	
PHILLIPS	PSF143 VT2Pro	170	107	57	21	75	25	--	--	--	--	--	--	--	--	--	--	
PRODUCERS	7198STXRIB	--	--	--	--	--	--	210	94	56	20	72	21	--	--	--	--	
PRODUCERS	7213VT2RIB	--	--	--	--	--	--	216	97	57	19	73	28	--	--	--	--	
PRODUCERS	7224VT3PRIB	--	--	--	--	--	--	251	113	53	21	72	26	--	--	--	--	
PRODUCERS	7268STXRIB	--	--	--	--	--	--	219	99	56	21	72	27	--	--	--	--	
PRODUCERS	7574VT3PRIB	--	--	--	--	--	--	229	103	53	21	72	26	--	--	--	--	
PRODUCERS	7633VT2RIBD1	--	--	--	--	--	--	223	100	55	22	72	23	--	--	--	--	
UNITY	5512 SS-RIB	155	98	57	20	78	27	--	--	--	--	--	--	--	--	--	--	
UNITY	5514 SS-RIB	162	102	57	20	76	23	--	--	--	--	--	--	--	--	--	--	
UNITY	5608 SS-RIB	180	114	58	17	76	30	--	--	--	--	--	--	--	--	--	--	
	AVERAGE	158	100	57	18	75	24	222	100	56	20	72	23	196	100	57	18	24
	CV (%)	10	10	2	4	1	4	8	8	1	3	1	4	8	8	1	6	4
	LSD (0.05)	22	14	1	1	1	1	24	11	1	1	1	1	21	11	1	1	2

\*Seed treatment and hybrid traits located in Table 10.

\*\*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

Ashland Bottoms Research Center, Manhattan; Jane Lingenfelter, agronomist

Sandy loam; grain sorghum in 2013

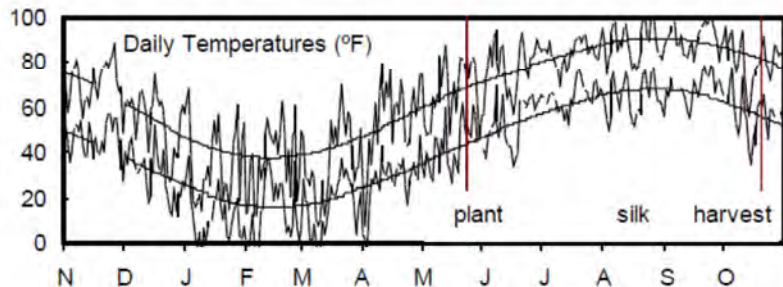
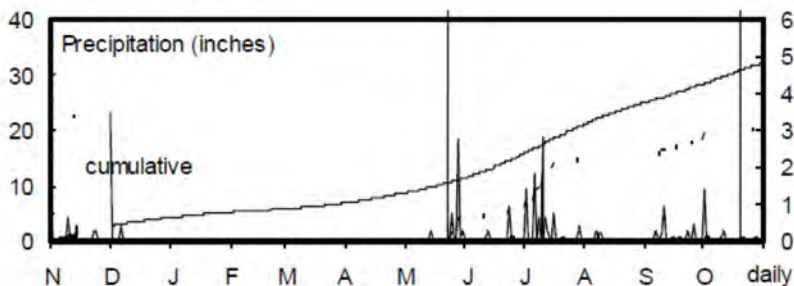
160 - 0 - 0 lb/a N, P, K

Planted on 4/23/2014; Harvested on 9/18/2014

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

Hailstorm in June, but crop recovered with minor green snap.

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	3.2	7.4	34	37	359	273
April	4.0	2.4	56	53	288	222
May	1.5	4.2	67	64	509	412
June	7.5	4.8	75	73	666	640
July	0.7	3.7	77	79	705	770
August	2.6	3.2	80	78	781	750
Sep.-Oct.	3.5	5.1	64	66	894	563
Totals:	23.0	30.9	53	54	4,202	3,628



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

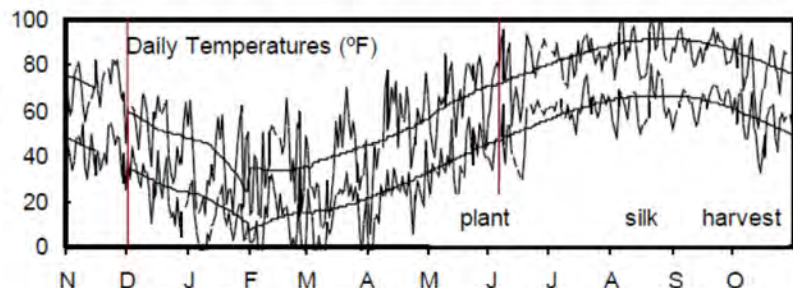
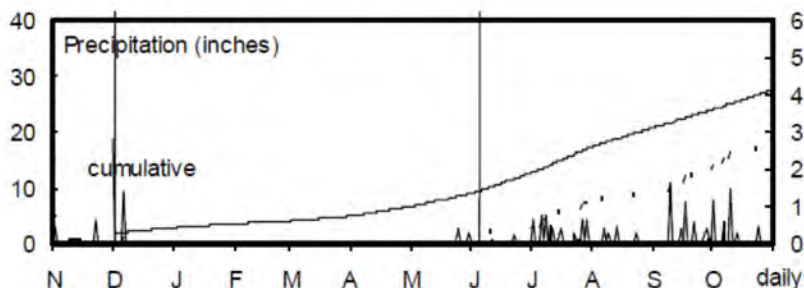
Crete silt loam; soybean in 2013

175 - 0 - 0 lb/a N, P, K

Planted on 5/6/2014; Harvested on 10/31/2014

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

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	3.1	6.0	32	34	310	235
April	0.7	2.1	53	52	258	204
May	0.4	3.5	65	63	473	393
June	4.6	4.3	73	73	622	635
July	1.4	3.2	75	78	665	755
August	4.4	3.1	76	77	713	731
Sep.-Oct.	4.8	4.2	61	65	801	515
Totals:	19.5	26.5	51	52	3,843	3,468



Kansas River Valley Experiment Field, Topeka; Eric Adee, agronomist; Charles Clark and William Riley, technicians

Eudora silt loam; soybean in 2013

196 - 52 - 60 lb/a N, P, K

Planted on 4/18/2014; Harvested on 9/9/2014

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

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	3.6	8.4	34	37	356	268
April	2.5	2.8	55	54	276	221
May	2.4	3.7	67	64	519	414
June	5.7	4.8	74	73	664	652
July	1.1	3.8	74	78	669	774
August	2.2	3.5	79	77	760	751
Sep.-Oct.	5.9	4.6	63	66	857	547
Totals:	23.3	31.6	53	54	4,102	3,627

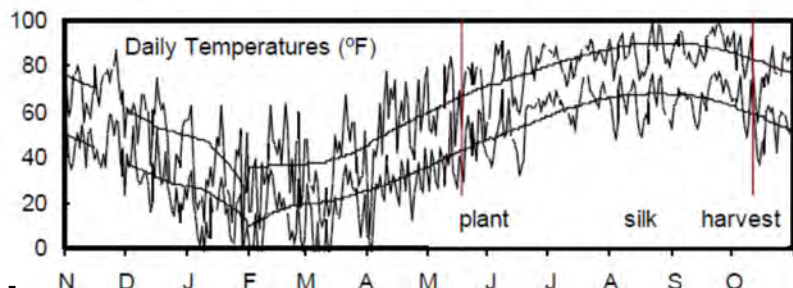
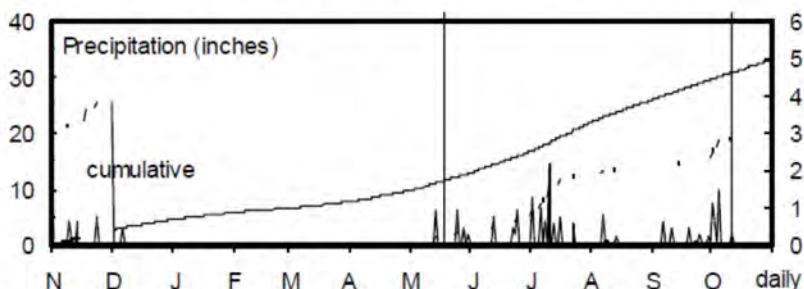




TABLE 3. NORTHEAST KANSAS IRRIGATED CORN PERFORMANCE TEST, 2014

BRAND	NAME	MANHATTAN, Riley County					SCANDIA, Republic 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 (%)	DAYS (silk)	1000 ppa
AGRIGOLD	A649STXRIB	149	89	58	20	76	29	<b>205</b>	104	60	15	30	<b>286</b>	107	54	19	70	28
AGRIGOLD	A651VT3PRIB	178	106	54	19	76	28	<b>221</b>	112	57	15	35	276	104	52	18	73	29
AGRIGOLD	A653VT3PRIB	150	89	55	19	78	29	--	--	--	--	--	275	103	54	18	71	29
AGRIGOLD	A655VT3PRIB	--	--	--	--	--	--	<b>210</b>	107	59	15	30	--	--	--	--	--	--
B-H GENETICS	BH 8550SS	--	--	--	--	--	--	195	99	62	15	28	--	--	--	--	--	--
B-H GENETICS	BH 8650VTTP	--	--	--	--	--	--	<b>222</b>	113	61	15	28	--	--	--	--	--	--
B-H GENETICS	BH 8700SS	--	--	--	--	--	--	185	94	60	15	31	--	--	--	--	--	--
B-H GENETICS	BH 8732VTTP	--	--	--	--	--	--	199	101	58	17	20	--	--	--	--	--	--
B-H GENETICS	BH 8845VTTP	--	--	--	--	--	--	<b>205</b>	104	61	15	31	--	--	--	--	--	--
DEKALB	DKC53-78 SSRIB	143	85	59	16	68	29	171	87	57	13	30	229	86	57	16	69	28
DEKALB	DKC61-89 RIB	<b>193</b>	115	57	19	70	28	193	98	60	15	26	256	96	55	17	71	29
DEKALB	DKC64-69 GENVT3P	<b>196</b>	116	57	19	72	27	185	94	60	15	32	<b>301</b>	113	55	18	72	27
GOLDEN ACRES	G1518	174	103	58	18	69	27	198	100	58	15	33	253	95	55	17	71	27
GOLDEN ACRES	G4598	172	102	58	19	73	30	<b>215</b>	109	61	15	36	255	96	56	18	71	29
GOLDEN ACRES	G6611	180	107	55	21	73	32	<b>228</b>	116	60	15	32	<b>289</b>	108	52	20	71	28
GOLDEN HARVEST	G07B39-3111A	--	--	--	--	--	--	<b>216</b>	109	58	14	32	256	96	54	18	71	29
GOLDEN HARVEST	G11U58-3111	--	--	--	--	--	--	<b>221</b>	112	56	15	32	257	96	53	18	72	28
GOLDEN HARVEST	G12J11-3011A	--	--	--	--	--	--	--	--	--	--	--	266	100	55	18	72	28
GOLDEN HARVEST	G13N18-3111	--	--	--	--	--	--	179	91	57	15	32	--	--	--	--	--	--
GOLDEN HARVEST	G14H66-5122A	--	--	--	--	--	--	195	99	59	16	28	--	--	--	--	--	--
GOLDEN HARVEST	G16K01-3111	--	--	--	--	--	--	190	96	58	16	27	<b>288</b>	108	51	19	73	28
INTEGRITY	IN-71PM50	119	71	58	20	72	28	173	88	60	15	31	219	82	54	18	70	27
INTEGRITY	IN-71T77	182	108	58	19	76	31	--	--	--	--	--	259	97	56	18	73	28
LG SEEDS	LG2602VT3PRIB	--	--	--	--	--	--	--	--	--	--	--	276	104	53	18	73	28
LG SEEDS	LG2620VT3PRIB	--	--	--	--	--	--	198	100	59	16	29	--	--	--	--	--	--
LG SEEDS	LG2636VT3PRIB	179	106	56	19	75	30	--	--	--	--	--	--	--	--	--	--	--
LG SEEDS	LG5618STXRIB	<b>201</b>	119	59	19	76	29	189	96	60	15	26	279	105	54	19	71	28
LG SEEDS	LG5638VT2Pro	--	--	--	--	--	--	<b>202</b>	103	61	16	25	--	--	--	--	--	--
LG SEEDS	LG5717VT2Pro	145	86	55	22	74	29	--	--	--	--	--	273	102	53	20	73	27
MAT CHECK	LATE	152	90	59	20	76	27	<b>214</b>	109	61	16	24	280	105	55	19	74	26
MAT CHECK	MED	154	92	59	17	72	23	<b>206</b>	104	60	15	27	233	87	57	17	71	27
MIDLAND	534PRW	173	103	58	18	73	29	185	94	61	15	30	256	96	56	18	71	28
MIDLAND	624PRW	169	100	58	20	70	30	<b>211</b>	107	60	15	32	271	102	54	19	72	29
MIDLAND	653PRW	<b>194</b>	115	57	20	74	26	<b>205</b>	104	60	15	26	273	102	53	19	71	29
MIDLAND	714PRW	<b>185</b>	110	56	21	74	30	<b>206</b>	105	59	17	25	279	105	53	19	72	27
MIDLAND	735PRW	<b>210</b>	125	55	21	72	33	<b>227</b>	115	59	15	36	<b>307</b>	115	52	20	71	28
MYCOGEN	2C788	--	--	--	--	--	--	<b>214</b>	108	59	15	25	--	--	--	--	--	--
MYCOGEN	2C799	--	--	--	--	--	--	<b>217</b>	110	59	15	25	--	--	--	--	--	--
MYCOGEN	2Y767	--	--	--	--	--	--	<b>206</b>	104	58	15	27	--	--	--	--	--	--
NUTECH/G2 GENETICS	3F-515	167	99	56	21	77	23	199	101	60	16	26	281	105	53	19	73	24
NUTECH/G2 GENETICS	5D-109	165	98	59	17	70	27	198	101	62	15	31	239	90	57	17	71	27
NUTECH/G2 GENETICS	5F-709	178	106	57	17	72	26	186	94	59	15	25	248	93	55	17	70	26
NUTECH/G2 GENETICS	5F-811	157	93	59	19	74	23	<b>201</b>	102	61	15	30	238	89	56	17	71	28
NUTECH/G2 GENETICS	5H-216	158	94	59	19	76	27	<b>205</b>	104	60	15	32	<b>288</b>	108	55	18	73	25
NUTECH/G2 GENETICS	5Z-0906	147	87	58	16	78	28	200	102	60	15	25	262	98	56	17	72	27
NUTECH/G2 GENETICS	5Z-111	151	90	57	18	72	25	187	95	59	15	25	257	97	55	17	72	27
NUTECH/G2 GENETICS	5Z-1209	173	103	58	17	75	30	<b>203</b>	103	60	14	31	238	89	56	20	73	26
NUTECH/G2 GENETICS	5Z-510	141	84	59	17	72	25	<b>216</b>	110	61	14	28	273	102	56	18	72	27
NUTECH/G2 GENETICS	5Z-713	144	85	57	17	78	32	<b>209</b>	106	60	15	35	<b>297</b>	111	54	18	73	27
PHILLIPS	PSF112 VT3Pro	146	87	58	19	70	22	198	100	61	14	27	245	92	57	17	70	27
PHILLIPS	PSF121 VT3Pro	180	107	59	18	70	26	178	90	61	15	26	--	--	--	--	--	--
PHILLIPS	PSF141 SS	180	107	59	20	71	26	200	101	61	16	17	<b>289</b>	109	55	19	70	28
PHILLIPS	PSF143 VT2Pro	162	96	57	20	72	26	182	92	61	15	23	245	92	54	19	72	27
PHILLIPS	PSF163 VT2Pro	--	--	--	--	--	--	--	--	--	--	--	272	102	54	19	73	29
PRODUCERS	7198STXRIB	--	--	--	--	--	--	--	--	--	--	--	266	100	55	18	71	26
PRODUCERS	7213VT2RIB	--	--	--	--	--	--	--	--	--	--	--	267	100	55	18	71	28
PRODUCERS	7224VT3PRIB	--	--	--	--	--	--	--	--	--	--	--	<b>289</b>	108	53	18	72	29
PRODUCERS	7268STXRIB	--	--	--	--	--	--	--	--	--	--	--	<b>291</b>	109	54	19	70	28
PRODUCERS	7574VT3PRIB	--	--	--	--	--	--	--	--	--	--	--	262	98	54	18	72	27
PRODUCERS	7633VT2RIBD1	--	--	--	--	--	--	--	--	--	--	--	264	99	53	19	70	25
UNITY	4814 VT2P-RIB	<b>190</b>	113	58	18	74	31	--	--	--	--	--	248	93	53	19	70	24
UNITY	5512 SS-RIB	151	90	59	19	73	31	--	--	--	--	--	275	103	54	19	71	27
UNITY	5514 SS-RIB	181	108	55	20	74	29	--	--	--	--	--	<b>284</b>	107	53	19	71	28
UNITY	5608 SS-RIB	<b>198</b>	118	58	18	74	32	--	--	--	--	--	246	92	55	17	73	28
AVERAGE		168	100	57	19	73	28	197	100	58	15	29	266	100	54	18	71	27
CV (%)		10	10	1	4	2	2	9	9	0	0	0	6	6	1	5	1	3
LSD (0.05)		26	15	1	1	2	1	27	14	0	0	0	24	9	1	1	1	1

\*Seed treatment and hybrid traits located in Table 10.

\*\*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.

# EASTERN KANSAS DRYLAND CORN TESTS

East Central Kansas Experiment Field, Ottawa; Eric Adee, agronomist; Jim Kimball, technician

Woodson silt loam; soybean in 2013

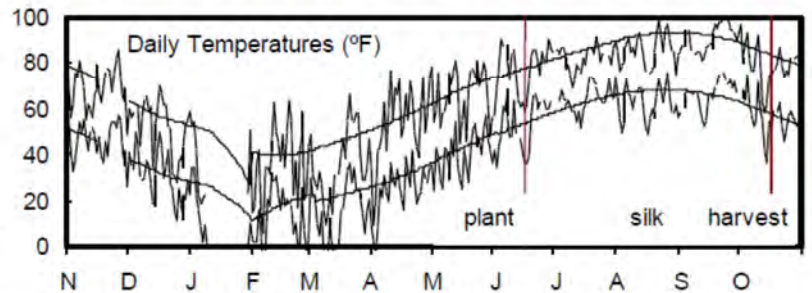
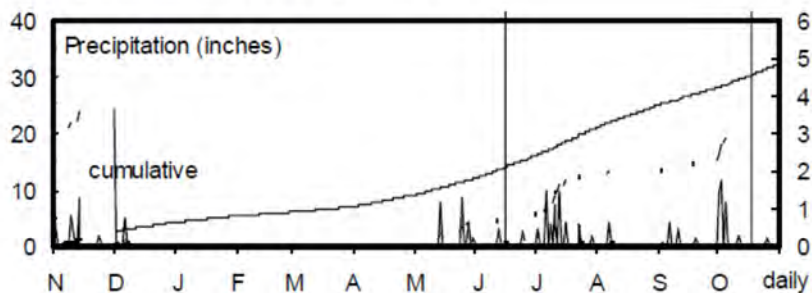
120 - 40 - 13 lb/a N, P, K

Planted on 5/17/2014; Harvested on 9/15/2014

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

Corn narrowly avoided freeze damage on May 16, with temperatures in the mid 30s.

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	4.7	7.7	32	39	352	319
April	3.3	2.7	54	56	255	260
May	1.2	3.9	66	65	511	449
June	6.6	4.6	73	74	643	667
July	0.8	3.7	74	80	659	778
August	1.4	3.0	79	79	755	756
Sep.-Oct.	6.1	5.1	63	68	845	591
Totals:	24.1	30.8	52	56	4,019	3,820



Private farm, Erie; Kelly Kusel, research technician

Lanton silt loam; soybean in 2013

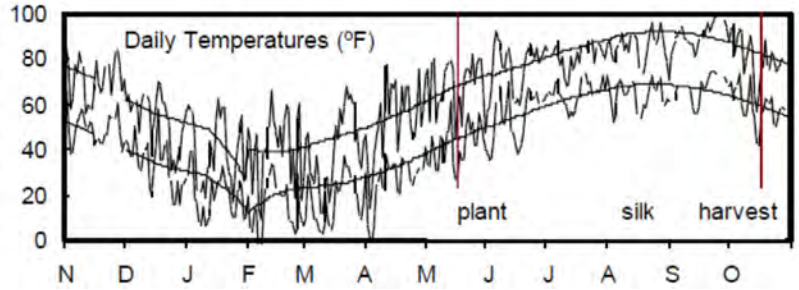
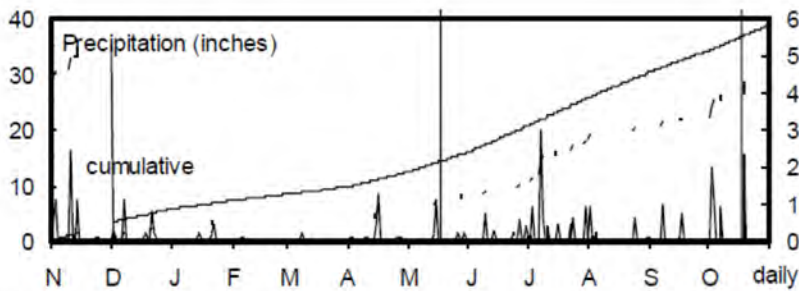
200 - 0 - 0 lb/a N, P, K

Planted on 4/17/2014; Harvested on 9/15/2014

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

Timely rains and mostly mild temperatures in the summer. Common rust observed at tassel.

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	9.6	10.6	37	40	355	315
April	1.8	3.3	56	56	289	254
May	2.3	4.6	67	66	518	461
June	7.6	4.6	74	74	653	681
July	1.1	4.3	75	80	680	791
August	2.0	3.7	80	79	774	763
Sep.-Oct.	10.6	5.9	65	68	919	575
Totals:	35.0	36.9	54	56	4,189	3,840



Private farm northwest of Topeka; Eric Adee, agronomist; Charles Clark and William Riley, technicians

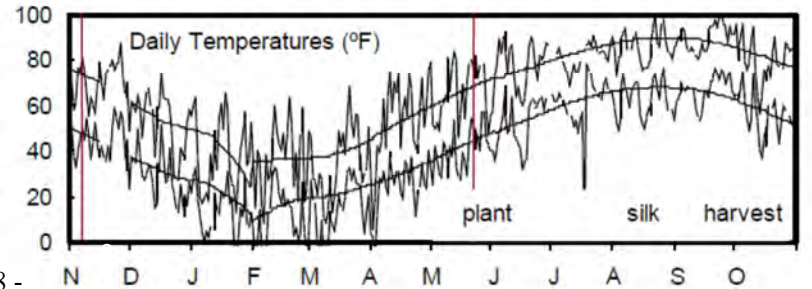
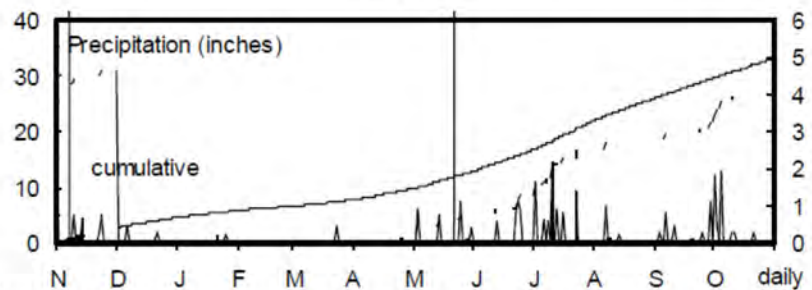
Silty clay loam; soybean in 2013

120 - 52 - 0 lb/a N, P, K

Planted on 4/22/2014; Harvested on 10/6/2014

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

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	5.8	8.4	34	37	346	268
April	3.2	2.8	54	54	260	221
May	3.4	3.7	66	64	502	414
June	6.7	4.8	72	73	590	652
July	1.4	3.8	74	78	663	774
August	3.2	3.5	79	77	757	751
Sep.-Oct.	7.1	4.6	63	66	857	547
Totals:	30.8	31.6	52	54	3,975	3,627



**TABLE 4. EASTERN KANSAS DRYLAND CORN PERFORMANCE TEST, 2014**

BRAND	NAME	OTTAWA, Franklin County						ERIE, Neosho County						KIRO, Shawnee 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
AGRIGOLD	A6408VT3PRIB	--	--	--	--	--	--	239	104	14	58	67	26	204	105	63	15	76	21
AGRIGOLD	A6458VT3PRIB	<b>184</b>	102	53	15	75	23	--	--	--	--	--	--	--	--	--	--	--	--
AGRIGOLD	A6499STXRIB	<b>189</b>	105	56	16	75	24	242	105	17	60	67	26	<b>213</b>	109	65	15	75	22
AGRIGOLD	A6517VT3PRIB	<b>186</b>	103	54	16	75	23	--	--	--	--	--	--	--	--	--	--	--	--
AGRIGOLD	A6533VT3PRIB	--	--	--	--	--	--	242	105	15	58	67	26	--	--	--	--	--	--
AGRIGOLD	A6559STXRIB	--	--	--	--	--	--	--	--	--	--	--	--	186	96	65	15	75	21
AGVENTURE	AV RL6786HB	--	--	--	--	--	--	210	91	15	57	66	27	--	--	--	--	--	--
AGVENTURE	AV RL6991HB	--	--	--	--	--	--	214	93	15	58	66	26	--	--	--	--	--	--
AGVENTURE	RL7362HB	--	--	--	--	--	--	209	91	14	58	67	26	--	--	--	--	--	--
CHANNEL	211-98 VT2PRIB	--	--	--	--	--	--	231	100	16	60	67	26	--	--	--	--	--	--
DEKALB	DKC53-78 SSRIB	182	101	55	15	71	23	207	90	14	59	65	25	174	89	64	14	76	23
DEKALB	DKC61-89 RIB	181	100	55	16	74	23	248	107	15	60	66	26	198	102	64	15	76	23
DEKALB	DKC64-69 GENVT3P	166	92	55	16	75	23	253	110	16	60	67	25	<b>209</b>	107	64	15	76	23
GOLDEN ACRES	G4598	175	97	57	15	73	23	250	108	15	61	66	25	173	89	65	15	76	23
GOLDEN ACRES	G4655A	<b>187</b>	103	54	16	74	24	233	101	16	58	67	25	<b>219</b>	112	63	15	76	23
GOLDEN ACRES	G4678DG	<b>203</b>	113	55	17	75	24	253	110	17	59	67	26	<b>222</b>	114	64	16	75	24
GOLDEN ACRES	G5621	179	99	56	16	74	24	<b>259</b>	112	16	60	66	25	192	99	65	15	76	22
GOLDEN HARVEST	G07B39-3111A	--	--	--	--	--	--	--	--	--	--	--	--	188	97	63	14	74	23
GOLDEN HARVEST	G11U58-3111	--	--	--	--	--	--	--	--	--	--	--	--	211	108	62	14	76	23
GOLDEN HARVEST	G12J11-3011A	--	--	--	--	--	--	--	--	--	--	--	--	195	100	64	15	76	22
GOLDEN HARVEST	G16K01-3111	--	--	--	--	--	--	--	--	--	--	--	--	<b>234</b>	120	62	15	76	23
MAT CHECK	EARLY	<b>186</b>	103	56	15	73	22	212	92	14	60	66	26	--	--	--	--	--	--
MAT CHECK	LATE	174	97	57	16	77	23	<b>266</b>	115	16	62	70	26	202	104	66	15	76	22
MAT CHECK	MED	180	100	56	15	73	23	220	95	15	60	67	26	172	88	65	15	76	22
MIDLAND	115PRW	174	97	55	15	72	23	--	--	--	--	--	--	--	--	--	--	--	--
MIDLAND	344PRW	186	103	55	15	74	23	--	--	--	--	--	--	178	92	64	14	76	23
MIDLAND	425SS	177	98	55	15	74	24	--	--	--	--	--	--	178	91	64	14	75	22
MIDLAND	534PRW	--	--	--	--	--	--	<b>263</b>	114	14	60	66	26	200	103	65	15	76	23
MIDLAND	573PRW	166	92	57	16	74	21	247	107	17	61	66	23	<b>215</b>	111	65	16	75	22
MIDLAND	594PR DG	183	101	54	17	75	22	251	108	18	58	68	25	205	105	63	15	74	21
MIDLAND	624PRW	--	--	--	--	--	--	236	102	17	60	68	26	--	--	--	--	--	--
MIDLAND	653PRW	182	101	55	17	74	23	242	105	17	60	67	25	181	93	64	16	75	21
MIDLAND	714PRW	--	--	--	--	--	--	<b>255</b>	110	17	59	68	24	<b>215</b>	111	63	15	76	23
MIDLAND	735PRW	--	--	--	--	--	--	244	106	17	60	67	25	201	103	64	14	76	23
MYCOGEN	2C788	180	100	54	17	77	24	222	96	16	59	68	27	--	--	--	--	--	--
MYCOGEN	2D599	166	92	54	15	74	23	213	92	14	59	66	26	--	--	--	--	--	--
MYCOGEN	2V709	178	99	55	16	75	24	237	103	16	59	68	26	--	--	--	--	--	--
MYCOGEN	2V717	<b>197</b>	109	54	16	75	23	234	101	15	58	68	26	--	--	--	--	--	--
NUTECH/G2 GENETICS	5D-109	--	--	--	--	--	--	237	103	15	62	67	25	--	--	--	--	--	--
NUTECH/G2 GENETICS	5F-008	--	--	--	--	--	--	227	98	15	60	66	24	--	--	--	--	--	--
NUTECH/G2 GENETICS	5F-200	--	--	--	--	--	--	211	91	14	59	66	25	--	--	--	--	--	--
NUTECH/G2 GENETICS	5F-709	--	--	--	--	--	--	231	100	15	59	66	25	--	--	--	--	--	--
NUTECH/G2 GENETICS	5F-805	--	--	--	--	--	--	219	95	14	59	66	25	--	--	--	--	--	--
NUTECH/G2 GENETICS	5H-903	--	--	--	--	--	--	211	91	14	57	66	26	--	--	--	--	--	--
NUTECH/G2 GENETICS	5H-905	--	--	--	--	--	--	222	96	14	57	66	25	--	--	--	--	--	--
NUTECH/G2 GENETICS	5X-698	--	--	--	--	--	--	184	80	13	58	65	26	--	--	--	--	--	--
NUTECH/G2 GENETICS	5Z-002	--	--	--	--	--	--	215	93	14	59	65	25	--	--	--	--	--	--
NUTECH/G2 GENETICS	5Z-0106	--	--	--	--	--	--	215	93	15	57	66	25	--	--	--	--	--	--
NUTECH/G2 GENETICS	5Z-707	--	--	--	--	--	--	201	87	14	58	67	23	--	--	--	--	--	--
PHILLIPS	PSF003 VT2Pro	174	96	55	15	72	23	--	--	--	--	--	--	--	--	--	--	--	--
PHILLIPS	PSF053 VT2Pro	181	100	56	15	72	22	--	--	--	--	--	--	--	--	--	--	--	--
PHILLIPS	PSF082 VT3Pro	181	100	55	15	74	23	--	--	--	--	--	--	202	104	63	14	76	21
PHILLIPS	PSF112 VT3Pro	171	95	56	16	73	22	--	--	--	--	--	--	184	95	64	15	76	22
PHILLIPS	PSF121 VT3Pro	--	--	--	--	--	--	--	--	--	--	--	--	166	85	64	14	76	21
PHILLIPS	PSF141 SS	--	--	--	--	--	--	--	--	--	--	--	--	176	91	65	15	75	20
PHILLIPS	PSF143 VT2Pro	--	--	--	--	--	--	--	--	--	--	--	--	186	95	65	15	74	22
UNITY	4814 VT2P-RIB	--	--	--	--	--	--	--	--	--	--	--	--	188	96	62	16	76	19
UNITY	5512 SS-RIB	--	--	--	--	--	--	--	--	--	--	--	--	202	104	65	15	76	22
UNITY	5514 SS-RIB	--	--	--	--	--	--	--	--	--	--	--	--	201	103	65	15	75	22
UNITY	5608 SS-RIB	--	--	--	--	--	--	--	--	--	--	--	--	176	90	65	14	76	22
	AVERAGE	180	100	55	16	74	23	231	100	15	59	67	25	195	100	64	15	76	22
	CV (%)	8	8	1	4	1	5	4	4	3	1	1	5	9	9	1	3	1	3
	LSD (0.05)	19	11	1	1	1	2	12	5	1	1	1	2	26	13	1	1	1	1

\*Seed treatment and hybrid traits located in Table 10.

\*\*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.



## NORTH CENTRAL KANSAS DRYLAND CORN TEST

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

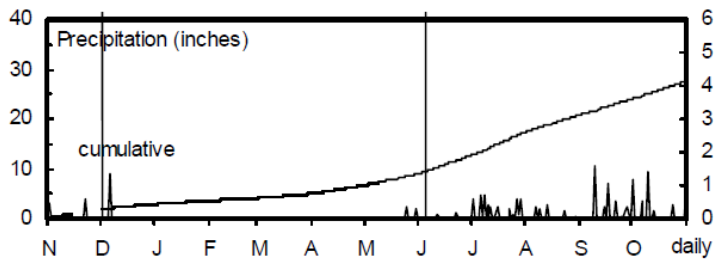
Crete silt loam; soybean in 2013

140 - 0 - 0 lb/a N, P, K

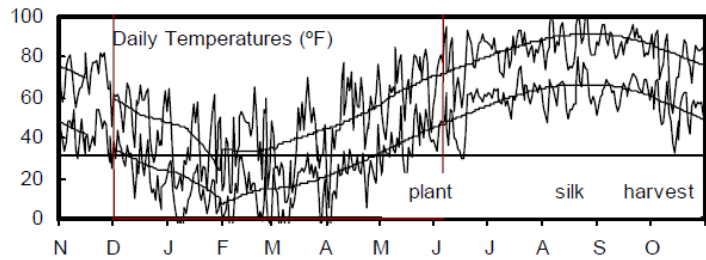
Planted on 5/6/2014; Harvested on 11/10/14

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

Grain drydown was slowed by frequent rains during harvest. Cool weather in the spring affected emergence and plant populations.



Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	3.1	6.0	32	34	310	235
April	0.7	2.1	53	52	258	204
May	0.4	3.5	65	63	473	393
June	4.6	4.3	73	73	622	635
July	1.4	3.2	75	78	665	755
August	4.4	3.1	76	77	713	731
Sep.-Oct.	4.8	4.2	61	65	801	515
Totals:	19.5	26.5	51	52	3,843	3,468



Clayton Short Farm, Assaria; Clayton Short, cooperater; Jane Lingenfelter, agronomist

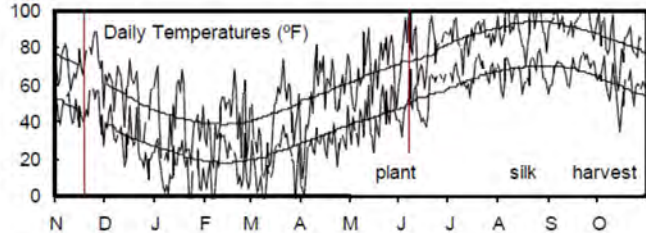
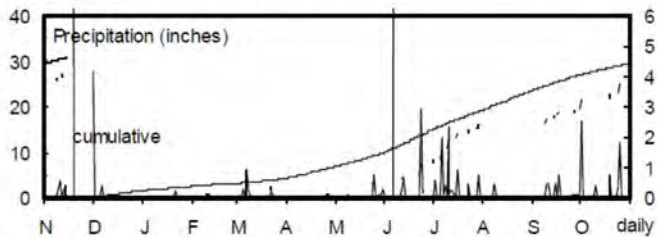
Smolan silt loam; wheat in 2013

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

Planted on 5/7/2014; Harvested on 10/18/2014

Target stand of 18,000 plants/acre; 9.1 in. spacing  
Reduced plant populations and better-than-average rainfall in the summer months boosted corn crop.

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	5.6	8.3	36	39	373	327
April	1.3	2.8	56	55	302	236
May	4.0	4.8	68	65	530	432
June	7.7	3.9	76	75	693	690
July	0.7	4.1	79	81	747	805
August	2.4	3.3	82	80	802	790
Sep.-Oct.	5.6	3.7	65	68	955	595
Totals:	27.3	30.9	55	56	4,401	3,875



**TABLE 5. CENTRAL KANSAS DRYLAND CORN PERFORMANCE TEST, 2014**

BRAND	NAME	BELLEVILLE, Republic County					ASSARIA, Saline County				
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	1000 ppa
AGRIGOLD	A6408VT3PRIB	--	--	--	--	--	76	68	59	14	25
AGRIGOLD	A6499STXRIB	<b>193</b>	115	60	14	23	<b>125</b>	111	60	15	23
AGRIGOLD	A6517VT3PRIB	<b>186</b>	115	60	14	23	--	--	--	--	--
AGRIGOLD	A6553VT3PRIB	172	103	58	14	20	--	--	--	--	--
AGRIGOLD	A6619VT2RIBD1	--	--	--	--	--	109	97	59	14	23
B-H GENETICS	BH 8550SS	147	88	61	14	20	--	--	--	--	--
B-H GENETICS	BH 8688DG2P	165	99	59	15	22	--	--	--	--	--
B-H GENETICS	BH 8700SS	173	103	60	15	22	--	--	--	--	--
B-H GENETICS	XP 7810VT2P	167	100	59	13	22	--	--	--	--	--
DEKALB	DKC53-78 SSRIB	155	92	58	13	23	121	108	58	13	22
DEKALB	DKC61-89 RIB	167	100	60	14	22	<b>126</b>	112	60	14	25
DEKALB	DKC64-69 GENVT3P	<b>178</b>	106	60	15	21	117	104	59	14	22
GOLDEN ACRES	G4598	161	96	61	14	25	--	--	--	--	--
GOLDEN ACRES	G4655A	--	--	--	--	--	109	97	57	14	24
GOLDEN ACRES	G4678DG	--	--	--	--	--	<b>123</b>	110	59	14	25
GOLDEN ACRES	G5621	<b>187</b>	112	59	15	22	--	--	--	--	--
GOLDEN HARVEST	G07B39-3111A	156	93	58	14	22	--	--	--	--	--
GOLDEN HARVEST	G11U58-3111	167	100	58	14	23	--	--	--	--	--
GOLDEN HARVEST	G13N18-3111	<b>176</b>	105	56	15	21	--	--	--	--	--
GOLDEN HARVEST	G14H66-5122A	149	89	59	15	20	--	--	--	--	--
GOLDEN HARVEST	G16K01-3111	148	88	58	16	21	--	--	--	--	--
MAT CHECK	MED	161	96	60	14	20	111	98	60	14	21
MAT CHECK	LATE	127	76	62	14	21	87	77	61	15	22
MIDLAND	425SS	159	95	59	14	24	--	--	--	--	--
MIDLAND	534PRW	176	105	60	14	21	--	--	--	--	--
MIDLAND	573PRW	172	102	60	14	21	--	--	--	--	--
MIDLAND	594PR DG	<b>182</b>	108	58	16	20	--	--	--	--	--
MIDLAND	653PRW	172	103	60	14	21	--	--	--	--	--
MIDLAND	714PRW	160	96	59	15	20	--	--	--	--	--
MIDLAND	735PRW	<b>187</b>	112	59	15	25	--	--	--	--	--
MYCOGEN	2C788	168	100	59	14	25	100	89	58	14	25
MYCOGEN	2C799	--	--	--	--	--	122	108	58	13	24
MYCOGEN	2G685	162	97	60	14	24	--	--	--	--	--
MYCOGEN	2V709	<b>187</b>	112	60	14	24	--	--	--	--	--
MYCOGEN	2V717	<b>175</b>	104	59	13	23	<b>136</b>	121	58	13	25
NUTECH/G2 GENETICS	5D-109	--	--	--	--	--	96	85	61	14	24
NUTECH/G2 GENETICS	5F-008	--	--	--	--	--	109	97	59	14	23
NUTECH/G2 GENETICS	5F-200	--	--	--	--	--	105	93	57	13	20
NUTECH/G2 GENETICS	5F-709	--	--	--	--	--	106	94	59	14	22
NUTECH/G2 GENETICS	5F-805	--	--	--	--	--	111	98	59	14	23
NUTECH/G2 GENETICS	5H-903	--	--	--	--	--	114	101	57	13	23
NUTECH/G2 GENETICS	5H-905	--	--	--	--	--	99	88	57	13	17
NUTECH/G2 GENETICS	5X-698	--	--	--	--	--	103	91	58	13	23
NUTECH/G2 GENETICS	5Z-002	--	--	--	--	--	97	86	58	14	26
NUTECH/G2 GENETICS	5Z-0106	--	--	--	--	--	101	90	57	13	22
NUTECH/G2 GENETICS	5Z-707	--	--	--	--	--	121	107	58	14	19
PHILLIPS	795 VT2Pro	--	--	--	--	--	<b>129</b>	115	59	14	22
PHILLIPS	PSF003 VT2Pro	--	--	--	--	--	115	102	57	13	25
PHILLIPS	PSF053 VT2Pro	166	99	59	13	20	117	104	59	14	21
PHILLIPS	PSF082 VT3Pro	171	102	59	13	20	119	106	58	14	21
PHILLIPS	PSF112 VT3Pro	158	94	60	14	19	118	105	59	14	21
PHILLIPS	PSF121 VT3Pro	<b>186</b>	111	59	14	21	107	95	61	15	26
PHILLIPS	PSF133DGV2Pro	<b>174</b>	103	59	15	20	120	107	59	14	21
PHILLIPS	PSF141 SS	<b>176</b>	105	61	14	19	<b>135</b>	120	61	15	24
PHILLIPS	PSF143 VT2Pro	<b>189</b>	113	59	16	22	112	99	60	15	21
PRODUCERS	6108STXRIB	<b>137</b>	82	59	13	26	--	--	--	--	--
PRODUCERS	6424VT3PRIB	172	103	58	13	25	--	--	--	--	--
PRODUCERS	6624VT3PRIB	<b>155</b>	92	57	13	23	--	--	--	--	--
PRODUCERS	7014VT3PRIB	<b>152</b>	90	57	14	23	--	--	--	--	--
	AVERAGE	168	100	59	14	22	112	100	59	14	23
	CV (%)	8	8	0	0	4	9	9	1	4	5
	LSD (0.05)	20	12	0	0	1	14	12	1	1	2

Seed treatment and hybrid traits located in Table 10.

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.

## SOUTHEAST KANSAS SHORT-SEASON DRYLAND CORN TEST

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

Parsons silt loam; soybean in 2013

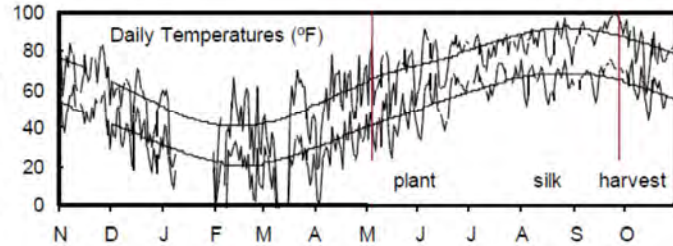
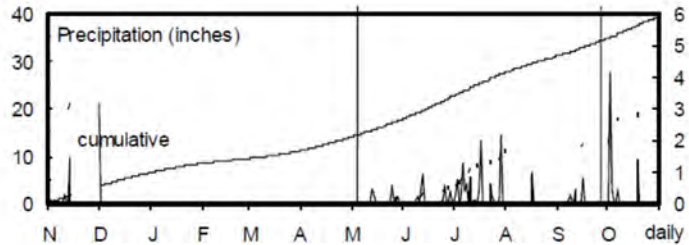
150 - 20 - 15 lb/a N, P, K

Planted on 4/4/2014; Harvested on 8/26/2014

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

Dry spring, but plants looked strong. Timely summer rain and mostly mild temps. Hot temps mid and late August resulted in early drydown.

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	4.5	11.9	36	42	361	348
April	1.5	3.4	56	57	291	265
May	2.8	4.6	68	65	542	448
June	9.4	4.5	74	74	664	665
July	1.1	3.3	75	80	685	780
August	1.8	3.6	80	79	779	765
Sep.-Oct.	4.4	6.2	65	68	931	608
Totals:	25.6	37.5	54	57	4,253	3,878



East Central Kansas Experiment Field, Ottawa; Eric Adee, agronomist; Jim Kimball, technician

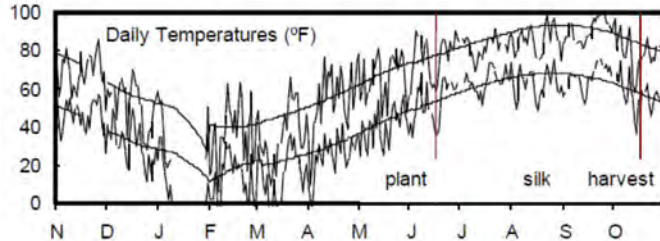
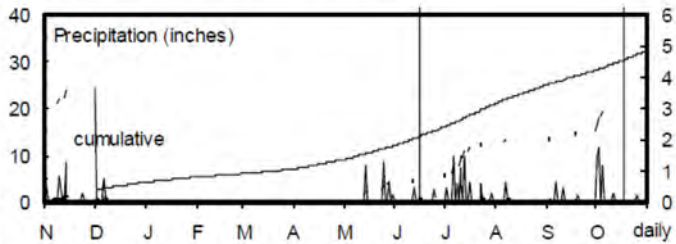
Woodson silt loam; soybean in 2013

120 - 40 - 13 lb/a N, P, K

Planted on 5/17/2014; Harvested on 9/15/2014

Target stand of 23,000 plants/acre; 9.1 in. spacing  
Corn narrowly avoided freeze damage on May 16, with temperatures in the mid 30s.

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	4.7	7.7	32	39	352	319
April	3.3	2.7	54	56	255	260
May	1.2	3.9	66	65	511	449
June	6.6	4.6	73	74	643	667
July	0.8	3.7	74	80	659	778
August	1.4	3.0	79	79	755	756
Sep.-Oct.	6.1	5.1	63	68	845	591
Totals:	24.1	30.8	52	56	4,019	3,820





**TABLE 6. KANSAS SHORT-SEASON DRYLAND CORN PERFORMANCE TEST, 2014**

BRAND	NAME	PARSONS, Labette County						OTTAWA, Franklin 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
AGRIGOLD	A6257STXRIB	179	99	56	14	77	22	--	--	--	--	--	--
AGRIGOLD	A6267STXRIB	186	103	58	14	78	22	<b>175</b>	102	55	15	73	25
AGRIGOLD	A6358VT3PRIB	179	99	55	13	80	22	<b>179</b>	104	54	15	76	23
AGRIGOLD	A6408VT3PRIB	190	105	56	13	79	22	164	96	54	15	75	23
AGVENTURE	AV RL6786HB	192	106	55	15	78	22	--	--	--	--	--	--
AGVENTURE	AV RL6991HB	173	96	55	18	78	20	--	--	--	--	--	--
AGVENTURE	RL7362HB	172	95	57	15	78	23	--	--	--	--	--	--
CHANNEL	211-98 VT2PRIB	189	105	57	16	78	21	--	--	--	--	--	--
DEKALB	DKC53-78 SSRIB	174	97	57	15	76	23	<b>171</b>	100	56	15	70	24
DEKALB	DKC61-89 RIB	<b>213</b>	118	57	15	78	23	<b>175</b>	101	56	15	75	24
DEKALB	DKC64-69 GENVT3P	196	109	57	18	80	21	<b>181</b>	105	56	16	76	23
MAT CHECK	EARLY	182	101	57	14	78	22	<b>168</b>	98	56	15	74	22
MAT CHECK	MED	189	105	57	17	79	22	<b>184</b>	107	57	16	74	22
MAT CHECK	LATE	186	103	59	18	82	22	<b>174</b>	101	57	16	78	23
MIDLAND	115PRW	173	96	57	12	76	22	<b>174</b>	101	55	15	70	22
MYCOGEN	2D599	179	99	55	16	79	21	<b>167</b>	97	54	15	74	23
MYCOGEN	2H568	173	96	56	15	77	22	<b>175</b>	102	54	15	73	24
MYCOGEN	2K595	172	95	57	15	78	22	156	91	54	15	73	23
MYCOGEN	2T498	171	95	56	12	78	22	<b>166</b>	97	56	15	73	24
NUTECH/G2 GENETICS	5D-109	197	109	59	15	79	22	--	--	--	--	--	--
NUTECH/G2 GENETICS	5F-008	186	103	58	14	78	21	--	--	--	--	--	--
NUTECH/G2 GENETICS	5F-200	160	89	57	13	76	21	--	--	--	--	--	--
NUTECH/G2 GENETICS	5F-709	188	104	55	17	79	22	--	--	--	--	--	--
NUTECH/G2 GENETICS	5F-805	172	96	56	15	78	21	--	--	--	--	--	--
NUTECH/G2 GENETICS	5H-903	177	98	55	16	78	22	--	--	--	--	--	--
NUTECH/G2 GENETICS	5H-905	178	99	55	15	78	21	--	--	--	--	--	--
NUTECH/G2 GENETICS	5X-698	150	83	56	12	77	23	--	--	--	--	--	--
NUTECH/G2 GENETICS	5Z-002	177	98	57	13	77	22	--	--	--	--	--	--
NUTECH/G2 GENETICS	5Z-0106	171	95	55	16	77	21	--	--	--	--	--	--
NUTECH/G2 GENETICS	5Z-707	172	95	56	14	77	21	--	--	--	--	--	--
PRODUCERS	6108STXRIB	183	102	57	14	77	21	--	--	--	--	--	--
PRODUCERS	6424VT3PRIB	191	106	55	14	79	22	--	--	--	--	--	--
PRODUCERS	6624VT3PRIB	184	102	54	13	79	22	--	--	--	--	--	--
PRODUCERS	7014VT3PRIB	174	97	54	16	79	21	--	--	--	--	--	--
	AVERAGE	180	100	56	15	78	22	172	100	55	15	74	23
	CV (%)	5	5	1	7	1	6	8	8	2	2	1	3
	LSD (0.05)	12	7	1	1	1	2	19	11	1	0	1	1

\*Seed treatment and hybrid traits located in Table 10.

\*\*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 TESTS

Norman Schmidt Farm, Inman; Norman Schmidt, cooperater; Jane Lingenfelser, agronomist

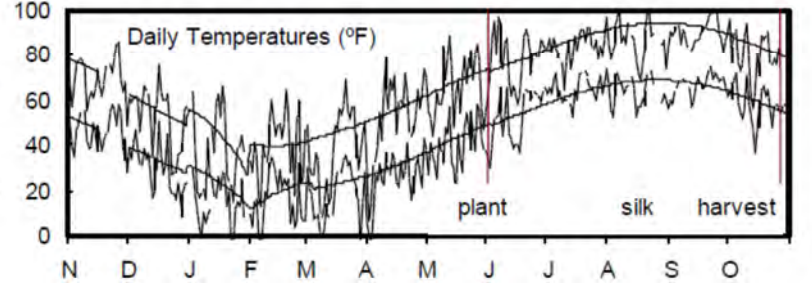
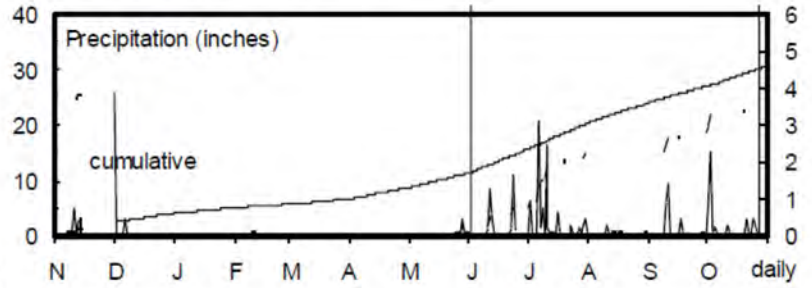
Crete silt loam; soybean in 2013

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

Planted on 5/2/2014; Harvested on 9/25/2014

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

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	5.0	7.5	35	39	335	317
April	0.8	2.4	54	56	261	253
May	3.7	4.1	66	65	503	445
June	8.6	4.4	74	75	654	677
July	0.6	3.4	75	81	584	787
August	3.1	2.9	79	80	756	767
Sep.-Oct.	3.9	4.7	64	68	884	607
Totals:	25.7	29.3	53	56	3,977	3,854



Redd Research Quarter, Hutchinson; Gary Cramer, agronomist; Wendell Lilyhorn and Keith Thompson, technicians

Punkin silt loam; soybean in 2013

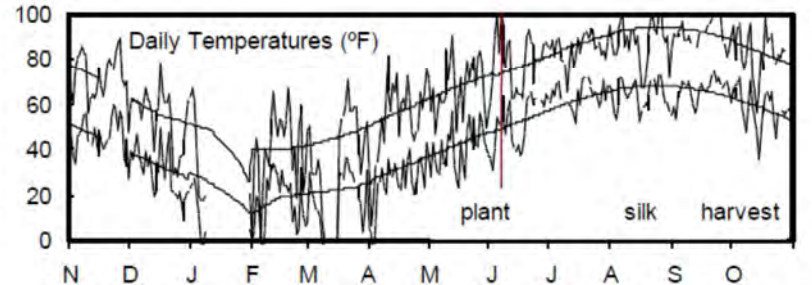
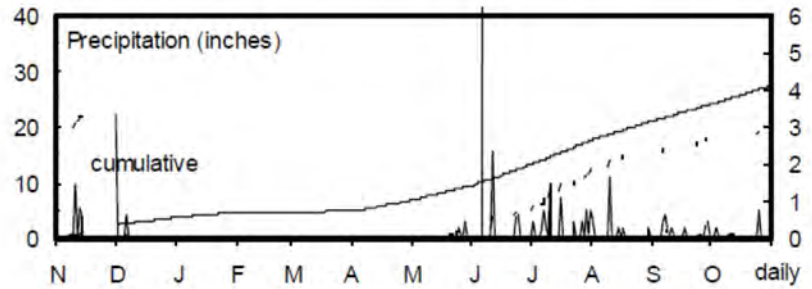
100 - 0 - 0 lb/a N, P, K

Planted on 5/7/2014; Harvested on 9/30/2014

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

Timely rains during the summer months. Irrigation totaled 10.8 inches.

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	2.3	5.6	33	39	348	324
April	0.8	2.4	55	55	277	254
May	3.8	3.6	67	65	508	427
June	5.6	4.0	75	75	660	666
July	2.5	3.2	76	81	687	779
August	2.8	2.9	79	79	757	756
Sep.-Oct.	4.4	4.3	65	67	955	586
Totals:	22.3	26.1	53	56	4,192	3,792



Justin Vosburgh Farms, Macksville; Justin Vosburgh, cooperater; Jane Lingenfelser, agronomist

Carwile fine sandy loam; soybean in 2013

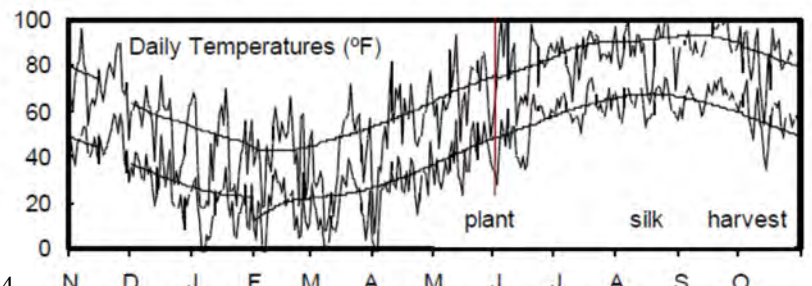
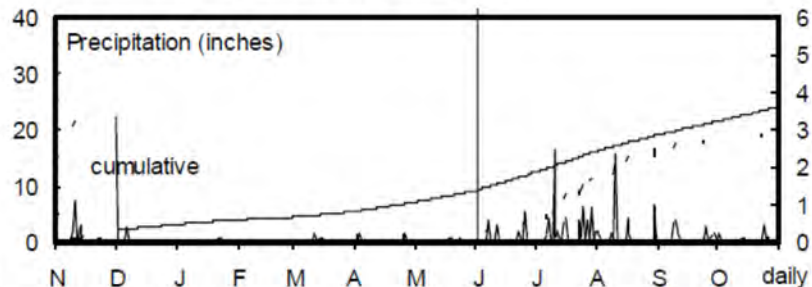
180 - 0 - 0 lb/a N, P, K

Planted on 5/2/2014; Harvested on 9/30/2014

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

Crusting after planting slightly reduced stands.

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	2.0	6.0	36	41	337	350
April	0.4	1.8	55	56	286	282
May	2.3	3.2	66	66	492	464
June	7.6	3.4	74	76	637	678
July	4.5	2.7	76	79	676	772
August	2.0	2.3	79	78	757	715
Sep.-Oct.	3.8	3.4	65	66	934	545
Totals:	22.4	22.9	54	57	4,118	3,806



**TABLE 7. SOUTH CENTRAL KANSAS IRRIGATED CORN PERFORMANCE TEST, 2014**

BRAND	NAME	INMAN, McPherson County					HUTCHINSON, Reno County					MACKSVILLE, Stafford County					
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	1000 ppa
AGRIGOLD	A6499STXRIB	211	100	61	16	26	--	--	--	--	--	--	--	--	--	--	--
AGRIGOLD	A6517VT3PRIB	<b>248</b>	117	58	15	30	162	104	58	15	65	30	232	102	57	13	29
AGRIGOLD	A6553VT3PRIB	--	--	--	--	--	--	--	--	--	--	--	225	98	58	14	29
AGRIGOLD	A6559STXRIB	--	--	--	--	--	--	--	--	--	--	--	228	100	62	15	32
AGRIGOLD	A6573VT3PRIB	197	93	58	15	30	163	105	58	15	66	29	--	--	--	--	--
AGRIGOLD	A6619VT2RIBD1	--	--	--	--	--	163	105	58	17	65	28	--	--	--	--	--
ARMOR	0700	203	96	59	14	29	140	90	59	14	64	31	201	88	59	14	30
ARMOR	1314	184	87	59	16	30	138	89	59	13	65	29	213	93	61	15	31
ARMOR	1414	206	98	58	16	27	<b>169</b>	108	57	17	65	27	<b>240</b>	105	59	15	25
ARMOR	1555	215	102	61	16	33	159	102	58	17	65	29	<b>239</b>	105	62	15	30
ARMOR	1616	204	97	59	17	29	155	99	57	16	64	28	<b>241</b>	105	60	16	28
ARMOR	AXC2108	209	99	59	15	30	148	95	59	13	67	27	211	92	59	14	25
ARMOR	AXC3114	190	90	59	15	31	165	106	59	15	66	28	<b>248</b>	109	61	15	28
ARMOR	AXC4110	208	99	60	14	29	145	93	58	13	64	26	227	100	60	14	30
ARMOR	AXT3111	<b>226</b>	107	59	16	32	155	99	58	15	66	28	219	96	60	15	28
ARMOR	AXT4109	195	92	60	14	35	148	95	60	16	66	30	218	95	61	15	29
DEKALB	DKC53-78 SSRIB	207	98	59	13	31	150	96	59	12	63	29	171	75	59	14	32
DEKALB	DKC61-89 RIB	210	99	60	15	31	151	97	59	14	65	29	231	101	60	15	30
DEKALB	DKC64-69 GENVT3P	206	97	60	17	28	<b>173</b>	111	59	15	64	27	193	85	65	15	29
GOLDEN ACRES	G4598	--	--	--	--	--	159	102	60	14	64	30	<b>243</b>	106	61	15	30
GOLDEN ACRES	G5621	--	--	--	--	--	163	104	59	15	64	29	228	100	62	16	27
GOLDEN ACRES	G6611	--	--	--	--	--	164	105	58	17	64	30	<b>252</b>	110	61	16	34
GOLDEN ACRES	G7601	--	--	--	--	--	165	106	56	16	66	29	<b>243</b>	106	60	15	32
LG SEEDS	LG2602VT3PRIB	--	--	--	--	--	<b>186</b>	119	58	15	66	31	--	--	--	--	--
LG SEEDS	LG2636VT3PRIB	--	--	--	--	--	--	--	--	--	--	--	232	102	59	14	32
LG SEEDS	LG5607VT2RIB	--	--	--	--	--	147	95	59	14	64	29	<b>259</b>	113	61	15	33
LG SEEDS	LG5612STX	211	100	59	16	30	--	--	--	--	--	--	--	--	--	--	--
LG SEEDS	LG5618STXRIB	215	102	61	17	33	159	102	59	15	65	32	<b>247</b>	108	62	16	30
LG SEEDS	LG5638VT2Pro	183	86	60	15	29	<b>181</b>	116	59	15	65	31	<b>251</b>	110	61	15	32
LG SEEDS	LG5717VT2Pro	189	90	60	17	32	153	98	60	16	66	30	232	101	61	15	31
MAT CHECK	LATE	195	93	61	17	21	136	87	59	16	67	30	<b>236</b>	103	62	16	29
MAT CHECK	MED	206	97	60	16	27	158	101	60	14	65	29	215	94	61	15	27
MIDLAND	344PRW	205	97	59	15	28	140	90	59	14	64	27	191	83	60	15	27
MIDLAND	573PRW	180	85	61	17	29	148	95	60	16	65	29	226	99	63	16	27
MIDLAND	594PR DG	223	105	58	16	31	162	104	57	17	65	28	230	101	59	15	25
MIDLAND	622PR	<b>228</b>	108	59	16	31	<b>169</b>	108	61	14	65	28	227	99	61	15	28
MIDLAND	624PRW	<b>231</b>	110	60	17	33	147	94	59	17	66	28	<b>238</b>	104	61	15	29
MIDLAND	670PR	196	93	59	16	27	<b>169</b>	109	58	15	65	28	215	94	60	16	30
MIDLAND	779PR	202	96	59	17	31	<b>185</b>	119	59	16	65	31	220	96	60	14	32
MYCOGEN	2C788	<b>226</b>	107	58	15	34	<b>170</b>	109	57	16	67	30	212	93	59	15	30
MYCOGEN	2C799	205	97	59	16	30	<b>179</b>	115	60	15	65	30	<b>236</b>	103	59	15	33
MYCOGEN	2V709	220	104	59	15	31	<b>168</b>	108	60	14	65	31	<b>239</b>	104	60	15	31
MYCOGEN	2Y767	<b>246</b>	116	58	16	32	154	99	58	16	65	31	220	96	58	15	30
NUTECH/G2 GENETICS	3F-515	<b>231</b>	109	60	17	28	162	104	59	16	66	27	--	--	--	--	--
NUTECH/G2 GENETICS	5D-109	205	97	62	16	28	145	93	61	14	66	30	--	--	--	--	--
NUTECH/G2 GENETICS	5F-709	187	89	59	15	26	<b>168</b>	108	58	13	65	26	--	--	--	--	--
NUTECH/G2 GENETICS	5F-811	220	104	61	17	29	160	103	59	14	65	28	--	--	--	--	--
NUTECH/G2 GENETICS	5H-216	<b>230</b>	109	61	18	27	115	74	59	17	67	28	--	--	--	--	--
NUTECH/G2 GENETICS	5Z-0906	<b>234</b>	111	61	15	33	123	79	59	13	65	29	--	--	--	--	--
NUTECH/G2 GENETICS	5Z-111	200	94	60	15	28	151	97	59	14	67	27	--	--	--	--	--
NUTECH/G2 GENETICS	5Z-1209	190	90	60	16	33	166	107	60	14	64	28	--	--	--	--	--
NUTECH/G2 GENETICS	5Z-510	<b>239</b>	113	61	16	32	117	75	60	14	65	28	--	--	--	--	--
NUTECH/G2 GENETICS	5Z-713	<b>255</b>	121	59	16	36	131	84	59	14	66	30	--	--	--	--	--
PHILLIPS	795 VT2Pro	--	--	--	--	--	145	93	59	14	65	28	--	--	--	--	--
PHILLIPS	PSF112 VT3Pro	--	--	--	--	--	166	107	59	14	64	27	--	--	--	--	--
PHILLIPS	PSF121 VT3Pro	--	--	--	--	--	151	97	60	14	65	30	--	--	--	--	--



**TABLE 7 continued. SOUTH CENTRAL KANSAS IRRIGATED CORN PERFORMANCE TEST, 2014**

BRAND	NAME	INMAN, McPherson County					HUTCHINSON, Reno County					MACKSVILLE, Stafford County					
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	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	PSF133DGVT2Pro	--	--	--	--	--	164	105	57	16	66	25	--	--	--	--	--
PHILLIPS	PSF141 SS	217	103	61	19	29	148	95	60	16	65	26	<b>247</b>	108	62	16	27
PHILLIPS	PSF143 VT2Pro	216	102	61	15	32	153	98	59	16	64	26	230	101	62	16	28
PHILLIPS	PSF163 VT2Pro	215	102	59	17	32	156	100	58	15	65	28	222	97	60	15	27
PHILLIPS	PSF172VT3Pro	--	--	--	--	--	158	101	58	17	66	27	--	--	--	--	--
PRODUCERS	7198STXRIB	--	--	--	--	--	--	--	--	--	--	--	223	98	60	14	28
PRODUCERS	7213VT2RIB	--	--	--	--	--	--	--	--	--	--	--	<b>258</b>	113	60	15	33
PRODUCERS	7224VT3PRIB	--	--	--	--	--	--	--	--	--	--	--	224	98	57	14	29
PRODUCERS	7268STXRIB	--	--	--	--	--	--	--	--	--	--	--	<b>237</b>	104	61	16	33
PRODUCERS	7574VT3PRIB	--	--	--	--	--	--	--	--	--	--	--	221	97	59	14	28
PRODUCERS	7633VT2RIBD1	--	--	--	--	--	--	--	--	--	--	--	<b>245</b>	107	60	15	28
	AVERAGE	211	100	60	16	30	156	100	59	15	65	29	228	100	60	15	29
	CV (%)	9	9	1	4	7	9	9	1	5	2	7	7	7	2	3	4
	LSD (0.05)	30	14	1	1	4	20	13	1	1	2	3	23	10	2	1	2

\*Seed treatment and hybrid traits located in Table 10.

\*\*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 DRYLAND CORN TEST

Agricultural Research Center, Hays; Wayne Aschwege, research technician

Harney clay loam; fallow in 2013

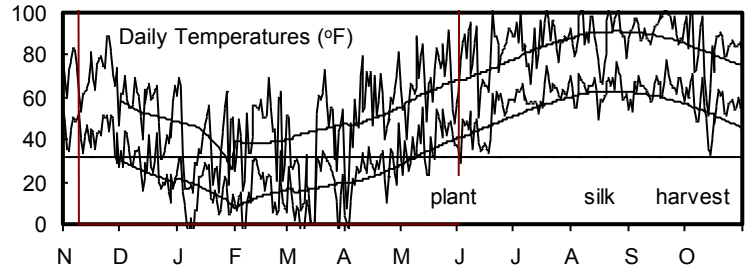
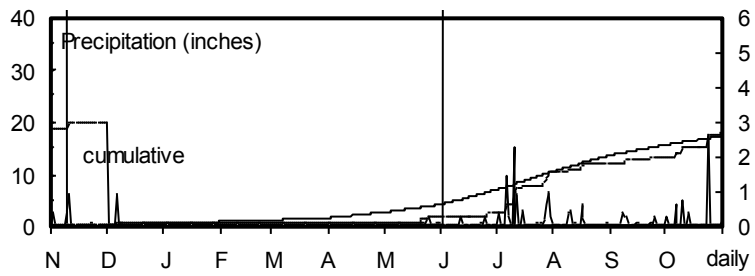
80 - 0 - 0 lb/a N, P, K

Planted on 5/2/2014; Harvested on 10/8/2014

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

Dry at planting; test required a rain before it fully emerged.

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	1.5	3.3	35	34	345	206
April	0.7	1.3	54	49	275	175
May	0.6	2.7	65	59	464	327
June	7.6	3.2	74	70	624	553
July	1.7	2.9	77	76	685	701
August	1.3	1.9	79	74	735	669
Sep.-Oct.	6.3	1.6	63	65	873	462
<b>Totals:</b>	<b>19.7</b>	<b>17.0</b>	<b>53</b>	<b>50</b>	<b>4,000</b>	<b>3,093</b>



**TABLE 8. WESTERN KANSAS DRYLAND CORN PERFORMANCE TEST, 2014**

BRAND	NAME	HAYS, Ellis County						
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	HT (in)	1000 ppa
DEKALB	DKC53-78 SSRIB	<b>97</b>	118	62	10	82	84	15
DEKALB	DKC61-89 RIB	<b>98</b>	118	62	11	83	83	17
DEKALB	DKC64-69 GENVT3P	71	86	60	13	83	85	14
GOLDEN ACRES	G4655A	<b>99</b>	119	56	16	86	91	16
GOLDEN ACRES	G4678DG	62	75	59	14	84	86	16
MAT CHECK	MED	89	107	61	12	84	79	17
MAT CHECK	LATE	79	96	60	14	86	85	18
MIDLAND	115PRW	71	85	62	10	80	80	15
MIDLAND	425SS	<b>98</b>	119	59	12	86	89	15
MIDLAND	594PR DG	<b>108</b>	131	58	15	84	84	16
PHILLIPS	PSF003 VT2Pro	<b>107</b>	129	59	9	81	83	19
PHILLIPS	PSF053 VT2Pro	74	89	60	12	82	78	16
PHILLIPS	PSF082 VT3Pro	<b>100</b>	121	60	10	83	79	15
PHILLIPS	PSF112 VT3Pro	80	97	61	11	81	82	14
PHILLIPS	PSF133DGVT2Pro	58	70	58	14	84	82	15
PHILLIPS	PSF141 SS	72	87	62	14	84	82	14
UNITY	4814 VT2P-RIB	72	87	61	12	84	88	15
UNITY	5512 SS-RIB	68	82	60	13	84	72	15
UNITY	5514 SS-RIB	84	102	58	13	84	79	15
UNITY	5608 SS-RIB	76	92	60	12	86	91	16
	AVERAGE	83	100	60	12	84	83	16
	CV (%)	9	9	2	11	2	6	18
	LSD (0.05)	12	15	2	2	3	8	5

**Garden City, Finney County abandoned; hailstorm caused variability.**

**Colby, Thomas County abandoned; extreme variability.**

\* Seed treatment and hybrid traits located in Table 10.

\*\* 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 TESTS

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

Keith silt loam; sunflower in 2013

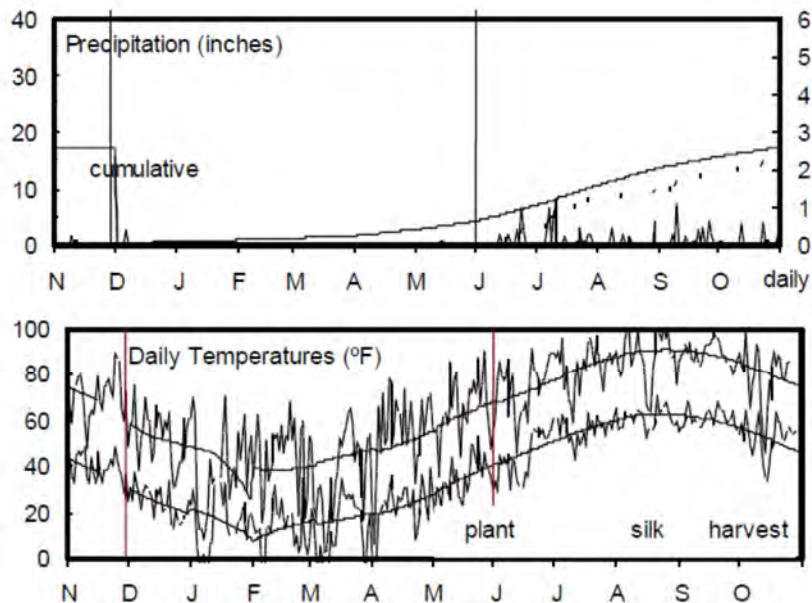
230 - 45 - 0 lb/a N, P, K

Planted on 5/1/2014; Harvested on 10/28/2014

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

Good planting conditions and normal summer growing conditions. Irrigation totaled 13.44 inches.

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	0.6	3.3	34	34	327	206
April	0.2	1.3	51	49	245	175
May	2.5	2.7	60	59	399	327
June	4.9	3.2	70	70	524	553
July	1.8	2.9	75	76	639	701
August	3.4	1.9	76	74	674	669
Sep.-Oct.	2.1	1.7	61	62	796	462
Totals:	15.5	17.2	51	51	3,603	3,093



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

Ulysses silt loam; sunflower in 2013

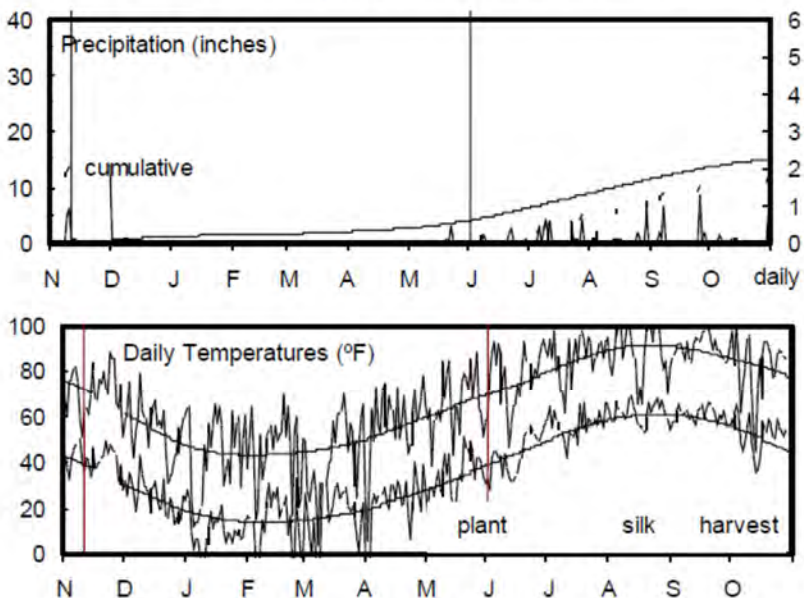
240 - 40 - 0 lb/a N, P, K

Planted on 5/2/2014; Harvested on 10/10/2014

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

Good conditions after the 1st of June. Irrigation totaled 24.4 inches.

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	0.4	2.8	36	36	349	261
April	0.6	1.2	52	49	256	207
May	0.9	2.2	62	59	418	356
June	3.3	2.4	71	70	550	544
July	2.6	2.4	76	76	650	674
August	2.9	2.1	76	74	676	653
Sep.-Oct.	3.2	1.6	62	63	823	483
Totals:	13.8	14.7	52	52	3,722	3,177



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

Keith silt loam; wheat in 2013

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

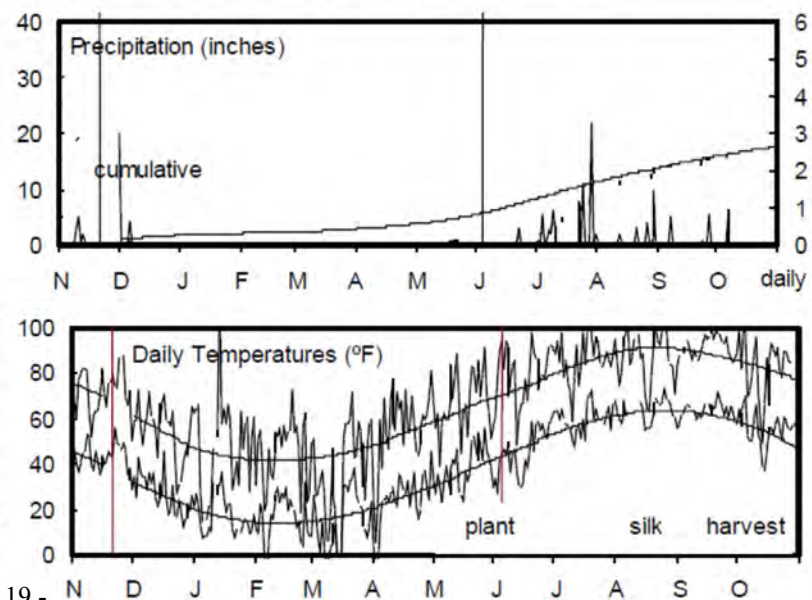
Planted on 5/5/2014; Harvested on 10/20/2014

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

Wetter and cooler temperatures than normal.

Irrigation totaled 14 inches.

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	1.1	3.6	37	36	361	255
April	0.3	1.5	54	50	274	200
May	0.6	2.7	64	61	462	362
June	9.0	2.8	73	72	597	594
July	3.0	2.3	76	78	670	719
August	1.8	2.1	78	76	725	699
Sep.-Oct.	4.0	2.1	64	64	882	508
Totals:	19.7	17.1	54	53	3,973	3,337





**TABLE 9. WESTERN KANSAS IRRIGATED CORN PERFORMANCE TEST, 2014**

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
AGRIGOLD	A6499STXRIB	--	--	--	--	--	--	--	--	--	--	--	202	99	55	16	79	37	
AGRIGOLD	A6517VT3PRIB	--	--	--	--	--	--	--	--	--	--	--	204	100	57	15	81	36	
AGRIGOLD	A6574STX	--	--	--	--	--	--	--	--	--	--	--	212	104	59	17	79	35	
B-H GENETICS	BH 8550SS	261	93	60	16	79	28	--	--	--	--	--	--	--	--	--	--	--	
B-H GENETICS	BH 8688DG2P	<b>315</b>	112	56	20	80	27	--	--	--	--	--	--	--	--	--	--	--	
B-H GENETICS	BH 8700SS	<b>297</b>	106	56	22	81	31	--	--	--	--	--	--	--	--	--	--	--	
B-H GENETICS	XP 7810VT2P	283	101	57	14	75	32	--	--	--	--	--	--	--	--	--	--	--	
DEKALB	DKC53-78 SSRIB	287	102	57	14	75	29	202	85	54	18	80	30	181	88	59	15	76	38
DEKALB	DKC61-89 RIB	<b>298</b>	106	58	16	76	32	<b>260</b>	109	51	28	84	29	205	100	59	16	78	35
DEKALB	DKC64-69 GENVT3P	295	105	58	18	80	29	<b>272</b>	114	51	28	85	31	207	101	58	18	81	37
GOLDEN ACRES	G1518	258	92	58	15	76	30	233	98	51	26	83	29	179	87	59	15	80	34
GOLDEN ACRES	G4598	<b>304</b>	108	59	16	79	32	235	99	51	28	83	29	201	98	59	15	80	37
GOLDEN ACRES	G5621	<b>322</b>	115	56	21	80	33	<b>260</b>	109	50	29	84	29	<b>225</b>	110	59	16	77	36
GOLDEN ACRES	G7601	--	--	--	--	--	--	--	--	--	--	--	--	<b>232</b>	113	57	20	82	36
INTEGRITY	IN-71T77	267	95	59	18	83	32	180	75	51	28	89	29	194	95	59	18	85	38
INTEGRITY	IN-73B33	271	97	59	21	83	31	174	73	50	33	89	30	210	103	59	18	85	36
LG SEEDS	LG2602VT3PRIB	264	94	55	17	81	28	<b>255</b>	107	50	30	87	30	183	89	56	14	81	36
LG SEEDS	LG2636VT3PRIB	271	96	55	18	80	31	232	97	50	32	86	29	<b>218</b>	106	59	17	80	36
LG SEEDS	LG2642VT3PRIB	288	103	56	20	78	32	--	--	--	--	--	--	185	90	56	21	82	37
LG SEEDS	LG5603STX	--	--	--	--	--	--	236	99	51	26	85	30	--	--	--	--	--	--
LG SEEDS	LG5612STX	--	--	--	--	--	--	221	93	51	27	85	28	--	--	--	--	--	--
LG SEEDS	LG5618STXRIB	290	103	58	20	80	31	<b>259</b>	108	51	29	86	31	191	93	58	16	78	36
LG SEEDS	LG5630VT3PRIB	230	82	55	17	79	22	--	--	--	--	--	--	199	97	56	17	82	32
LG SEEDS	LG5701VT3PRIB	--	--	--	--	--	--	--	--	--	--	--	--	198	96	58	17	82	36
MAT CHECK	MED	258	92	60	16	77	31	<b>254</b>	106	51	26	83	30	197	96	58	17	78	36
MAT CHECK	LATE	268	95	60	20	83	30	247	103	50	30	87	29	<b>233</b>	114	59	18	83	35
MIDLAND	344PRW	--	--	--	--	--	--	--	--	--	--	--	--	189	92	58	15	79	35
MIDLAND	534PRW	281	100	59	16	77	30	--	--	--	--	--	--	--	--	--	--	--	
MIDLAND	573PRW	272	97	59	17	75	29	--	--	--	--	--	--	194	95	60	17	78	34
MIDLAND	594PR DG	266	95	56	20	79	26	--	--	--	--	--	--	<b>225</b>	110	58	18	81	33
MIDLAND	622PR	--	--	--	--	--	--	--	--	--	--	--	--	200	97	59	16	82	35
MIDLAND	624PRW	--	--	--	--	--	--	--	--	--	--	--	--	211	103	58	16	80	37
MIDLAND	670PR	--	--	--	--	--	--	--	--	--	--	--	--	198	96	59	17	79	34
MIDLAND	779PR	--	--	--	--	--	--	--	--	--	--	--	--	193	94	58	16	81	37
MYCOGEN	2C788	--	--	--	--	--	--	252	106	50	32	86	29	<b>237</b>	116	56	17	82	39
MYCOGEN	2C799	--	--	--	--	--	--	<b>253</b>	106	51	27	85	30	<b>237</b>	116	57	16	82	37
MYCOGEN	2V709	--	--	--	--	--	--	<b>260</b>	109	51	29	84	29	<b>215</b>	105	57	17	80	38
MYCOGEN	2Y767	--	--	--	--	--	--	237	99	50	33	85	29	204	99	56	16	78	37
PHILLIPS	PSF143 VT2Pro	<b>329</b>	117	56	22	80	32	248	104	50	31	85	29	--	--	--	--	--	
PHILLIPS	PSF163 VT2Pro	281	100	58	17	82	30	231	97	51	29	86	28	--	--	--	--	--	
PRODUCERS	7198STXRIB	280	100	59	15	79	30	235	99	51	26	84	28	--	--	--	--	--	
PRODUCERS	7213VT2RIB	279	99	58	17	78	31	252	106	50	31	84	31	--	--	--	--	--	
PRODUCERS	7224VT3PRIB	285	102	55	17	79	30	236	99	50	29	87	29	--	--	--	--	--	
PRODUCERS	7268STXRIB	276	98	58	19	80	30	250	105	51	29	85	30	--	--	--	--	--	
PRODUCERS	7574VT3PRIB	272	97	57	17	79	28	234	98	50	32	86	30	--	--	--	--	--	
PRODUCERS	7633VT2RIBD1	<b>297</b>	106	56	20	80	29	239	100	50	33	85	27	--	--	--	--	--	
UNITY	4814 VT2P-RIB	261	93	59	16	80	31	--	--	--	--	--	--	--	--	--	--	--	
UNITY	5512 SS-RIB	278	99	58	19	80	30	--	--	--	--	--	--	--	--	--	--	--	
UNITY	5514 SS-RIB	<b>303</b>	108	56	21	81	32	--	--	--	--	--	--	--	--	--	--	--	
UNITY	5608 SS-RIB	260	93	59	16	81	31	--	--	--	--	--	--	--	--	--	--	--	
	AVERAGE	281	100	58	18	79	30	239	100	51	29	85	29	205	100	58	17	80	36
	CV (%)	8	8	1	5	1	10	6	6	0	4	1	5	8	8	3	10	3	4
	LSD (0.05)	32	12	1	1	2	4	19	8	0	2	1	2	24	12	2	2	3	2

\*Seed treatment and hybrid traits located in Table 10.

\*\*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 10. Entries in the Kansas Corn Performance Tests\***

SD TRT* GDD DBL RES P F							SD TRT GDD DBL RES P F						
<b>AGRIGOLD</b>							<b>GOLDEN ACRES</b>						
A6553VT3PRIB	--	2765	--	RR/CB/RW	--	Y	G4678DG	P250	2600	114	VT3P	--	--
A6257STXRIB	P500	2500	100	RR, LL	--	--	G5621	P500	2660	115	VT3P	N	Y
A6267STXRIB	AC/V	2430	102	RR,CB,RW	--	Y	G6611	P500	2670	116	VT3P	N	Y
A6358VT3PRIB	AC/V	2586	105	RR,CB,RW	--	Y	G7601	AC1250	2700	117	VT3P	N	Y
A6408VT3PRIB	AC/V	2671	107	RR,CB,RW	--	Y	<b>GOLDEN HARVEST</b>						
A6458VT3PRIB	--	2660	110	RR/CB/RW	--	Y	G12J11-3011A	--	--	--	--	--	--
A6499STXRIB	P500	2800	112	RR, LL	--	--	G07B39-3111A	C/A500	2570	107	3111A	Y	Y
A6517VT3PRIB	P500, Vot	2765	113	RR	--	Y	G11U58-3111	--	2580	110	LL,RR,CB,RW	Y	Y
A6533VT3PRIB	--	2780	113	RR/CB/RW	--	Y	SK6092-3010A	C/A500	2610	112	3010A	Y	SF
A6559STXRIB	P500	2820	113	RR, LL	--	--	G13N18-3111	C/A500	2630	113	3111	Y	Y
A6573VT3PRIB	P500, Vot	2793	114	RR	--	Y	G14H66-5122A	C	2660	114	GT	Y	SF
A6574STX	P500	2830	114	RR, LL	--	--	G16K01-3111	--	2650	116	LL,RR,CB,RW	Y	Y
A6619VT2RIBD1	P500	2830	114	RR	--	--	<b>INTEGRITY</b>						
<b>AGVENTURE</b>							IN-73B33						
AV RL6786HB	--	--	--	--	--	--	IN-71PM50						
AV RL6991HB	--	--	--	--	--	--	IN-71T77						
RL7362HB	--	--	--	--	--	--	<b>LG SEEDS</b>						
<b>ARMOR</b>							LG5499STXRIB						
0700	ACC/P	--	--	PRO2	--	--	P/V	2490	100	STXRIB	--	Y	
1314	ACC/P	--	--	PRO2	--	--	LG5522VT3PRIB	P500/Vot	2525	103	VT3	--	Y
1414	ACC/P	--	--	PRO2	--	--	LG5524VT3PRIB	P500/VOT	2520	105	VT3PRIB	Y	Y
1555	ACC/P	--	--	PRO2	--	--	LG2552VT3PRIB	P500/Vot	2625	110	VT2PRO	--	Y
1616	ACC/P	--	--	PRO3	--	--	LG5603STX	P500/VOT	2670	111	STX	Y	Y
AXC2108	ACC/P	--	--	--	--	--	LG2620VT3PRIB	P500/Vot	2620	112	VT3	N	Y
AXC3114	ACC/P	--	--	--	--	--	LG2602VT3PRIB	P500/Vot	2700	112	VT3PRO	--	Y
AXC4110	ACC/P	--	--	SS	--	--	LG5618STXRIB	P/V	2720	112	STXRIB	--	Y
AXT3111	ACC/P	--	--	--	--	--	LG5607VT2RIB	P/V	2795	112	VT3PRIB	--	Y
AXT4109	ACC/P	--	--	--	--	--	LG5622STX	P500/VOT	2655	113	STX	N	N
<b>B-H GENETICS</b>							LG5612STX						
XP 7810VT2P	A500	--	108	VTTT	--	--	LG5630VT3PRIB	P500/Vot	2715	114	VT3PRO	--	Y
BH 8550SS	A1250	--	114	SS	--	--	LG2636VT3PRIB	P500/Vot	2750	114	VT3PRO	--	Y
BH 8650VTTT	P/V500	--	115	VTTT	--	--	LG5638VT2Pro	P500/VOT	2830	114	VT2Pro	Y	Y
BH 8688DG2P	A250	--	115	DG2P	--	--	LG2642VT3PRIB	P500/Vot	2700	115	VT3	N	N
BH 8700SS	C500	--	115	SS	--	--	LG5701VT3PRIB	P500/VOT	2770	116	VT3PRIB	Y	Y
BH 8732VTTT	A500	--	116	VTTT	--	--	LG5717VT2Pro	P500/VOT	2930	117	VT2Pro	Y	Y
BH 8845VTTT	A500	--	117	VTTT	--	--	<b>MIDLAND</b>						
<b>CHANNEL</b>							115PRW						
211-98 VT2PRIB	--	--	--	--	--	--	CE	2470	96	RR	Y	Y	
<b>DEKALB</b>							344PRW						
DKC53-78 SSRIB	--	--	--	--	--	--	C250	--	108	VT3Pro	Y	Y	
DKC61-89 RIB	--	--	--	--	--	--	425SS	CE	2750	110	RR	Y	Y
DKC64-69 GENVT3PA500 P/V	2850	114	GENVT3P	Y	Y	534PRW	C250	--	112	VT3Pro	Y	Y	
<b>GOLDEN ACRES</b>							573PRW						
G4598	P250	2550	113	VT3P	N	Y	622PR	C250	--	113	VT3PR	Y	Y
G1518	P250	2600	114	VT2P	N	Y	653PRW	C250	--	113	VT3Pro	Y	Y
G4655A	P1250	2600	114	VT3P	--	--	594PR DG	CE	2840	113	RR	Y	Y
							624PRW						
							670PR						
							714PRW						
							C250						
							C250						
							C250						

**Table 10 continued. Entries in the Kansas Corn Performance Tests**

MIDLAND							PHILLIPS						
SD TRT*	GDD	DBL	RES	P	F	SD TRT	GDD	DBL	RES	P	F		
779PR	--	--	115	VT3PR	Y	Y	PSF172VT3Pro	ACC	2970	117	RR, CB, RW	--	--
735PRW	CE	2860	115	RR	Y	Y	<b>PRODUCERS</b>						
<b>MYCOGEN</b>							6108STXRIB	Vot	2470	101	VT3PRIB	Y	N
2T498	C250	2525	100	SSX RA	N	Y	6424VT3PRIB	Vot	2512	104	VT3PRO	Y	Y
2H568	C250	2495	104	SSX RA	N	S	6624VT3PRIB	Vot	2520	106	VT3PRO	Y	Y
2K595	C250	2620	105	SSX RA	N	S	7014VT3PRIB	Vot	--	110	VT3	Y	Y
2D599	C250	2605	106	SSX RA	N	Y	7198STXRIB	V	2660	111	STXRIB	Y	Y
2G685	C250	2695	109	GT 3000RR	N	Y	7268STXRIB	V	2600	112	STXRIB	Y	Y
2V709	C250	2725	110	SSX RA	N	S	7224VT3PRIB	Vot	2610	112	VT3	Y	Y
2V717	C250	2740	111	SSX RA	N	Y	7213VT2RIB	V	2750	112	VT2RIB	Y	Y
2Y767	C250	2745	114	SSX RA	N	Y	7574VT3PRIB	Vot	2700	115	VT3	Y	Y
2C788	C250	2770	114	SSX RA	N	S	7633VT2RIBD1	V	2610	116	VT2RIB	Y	Y
2C799	C250	2770	114	SSX RA	N	Y	<b>UNITY</b>						
2J794	C250	2755	115	H1RR	N	Y	4814 VT2P-RIB	A250	--	--	RR	N	N
<b>NUTECH/G2 GENETICS</b>							5512 SS-RIB	P500/V	--	--	RR, LL	N	N
3F-515	Maxim Q	--	--	HX1/RR2/LL	N	N	5514 SS-RIB	P500/V	--	--	RR, LL	N	N
5H-905	Maxim Q	--	--	HX1/RR2/LL	N	N	5608 SS-RIB	P500/V	--	--	RR, LL	N	N
5X-698	MQ	2440	--	CB,RW	N	N							
5F-200	P/V	2460	--	C	N	N							
5Z-0106	P/V	2500	--	CB, RR	N	N							
5Z-002	P/V	2510	--	CB, RR	N	Y							
5F-805	P/V	2560	--	CB, RR	N	N							
5F-008	P/V	2570	--	CB, RW, RR	N	N							
5Z-707	P/V	2570	--	CB	N	Y							
5D-109	P/V	2620	--	CB	N	N							
5F-709	P/V	2640	--	CB	N	N							
5Z-0906	P/V	2650	--	CB, RR	N	Y							
5Z-510	P/V	2650	--	CB, RR	N	Y							
5Z-111	P/V	2670	--	CB, RR	N	Y							
5F-811	MQ	2680	--	CB	N	Y							
5Z-1209	P/V	2700	--	CB, RR	N	Y							
5Z-113	P/V	2730	--	CB	N	Y							
5Z-713	P/V	2730	--	CB, RR	N	Y							
3F-814	P/V	2750	--	CB, RR	N	Y							
5H-216	P/V	2780	--	CB	N	Y							
5H-903	--	--	103	HX1/RR	N	N							
<b>PHILLIPS</b>													
PSF003 VT2Pro	Acc	--	100	CB	--	--							
PSF053 VT2Pro	Acc	--	105	CB	--	--							
PSF082 VT3Pro	Acc	2766	108	VT3P	--	Y							
PSF112 VT3Pro	Acc	2737	111	VT3P	--	Y							
795 VT2Pro	--	2820	111	VT3	Y	Y							
PSF121 VT3Pro	Acc	2754	112	VT3P	--	Y							
PSF133DGV2Pro	ACC	2867	113	RR, CB	--	--							
PSF141 SS	Acc	2825	114	VT3P	--	Y							
PSF143 VT2Pro	Acc	2850	114	CB	--	--							
PSF163 VT2Pro	Acc	2875	116	CB	--	--							

\*SD TRT = Seed treatment (C=Cruiser, CE=Cruiser Extreme, P=Poncho, Vot=Votivo. 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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**[www.agronomy.k-state.edu/services/crop-performance-tests/index.html](http://www.agronomy.k-state.edu/services/crop-performance-tests/index.html)**

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## Contributors

### **Main Station, Manhattan**

Jane Lingenfelter, Assistant Agronomist (Senior Author)  
Doug Jardine, Extension Plant Pathologist  
Jeff Whitworth, Extension Entomologist  
Mary Knapp, KSU Weather Data Librarian  
Edward O. Quigley, Agricultural Technician

### **Experiment Fields**

Eric Adee, Topeka  
Gary Cramer Hutchinson  
James Kimball, Ottawa  
Michael Larson, Scandia  
Wendell Lilyhorn, Hutchinson  
Keith Thompson, Hutchinson

### **Research Centers**

Wayne Aschwege, Hays  
DeWayne Bond, Tribune  
Patrick Evans, Colby  
Kelly Kusel, Parsons  
Alan Schlegel, Tribune  
Monty Spangler, Garden City

### **Cooperators**

Gene Eidman, Strong City  
Fuhrman Farms, Severance  
Lance Rezac, Onaga  
Norman Schmidt, Inman  
Clayton Short, Assaria  
Justin Vosburgh, Macksville

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