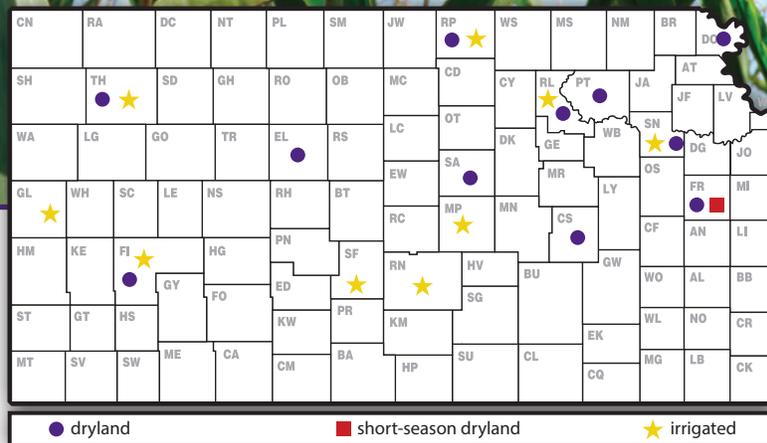
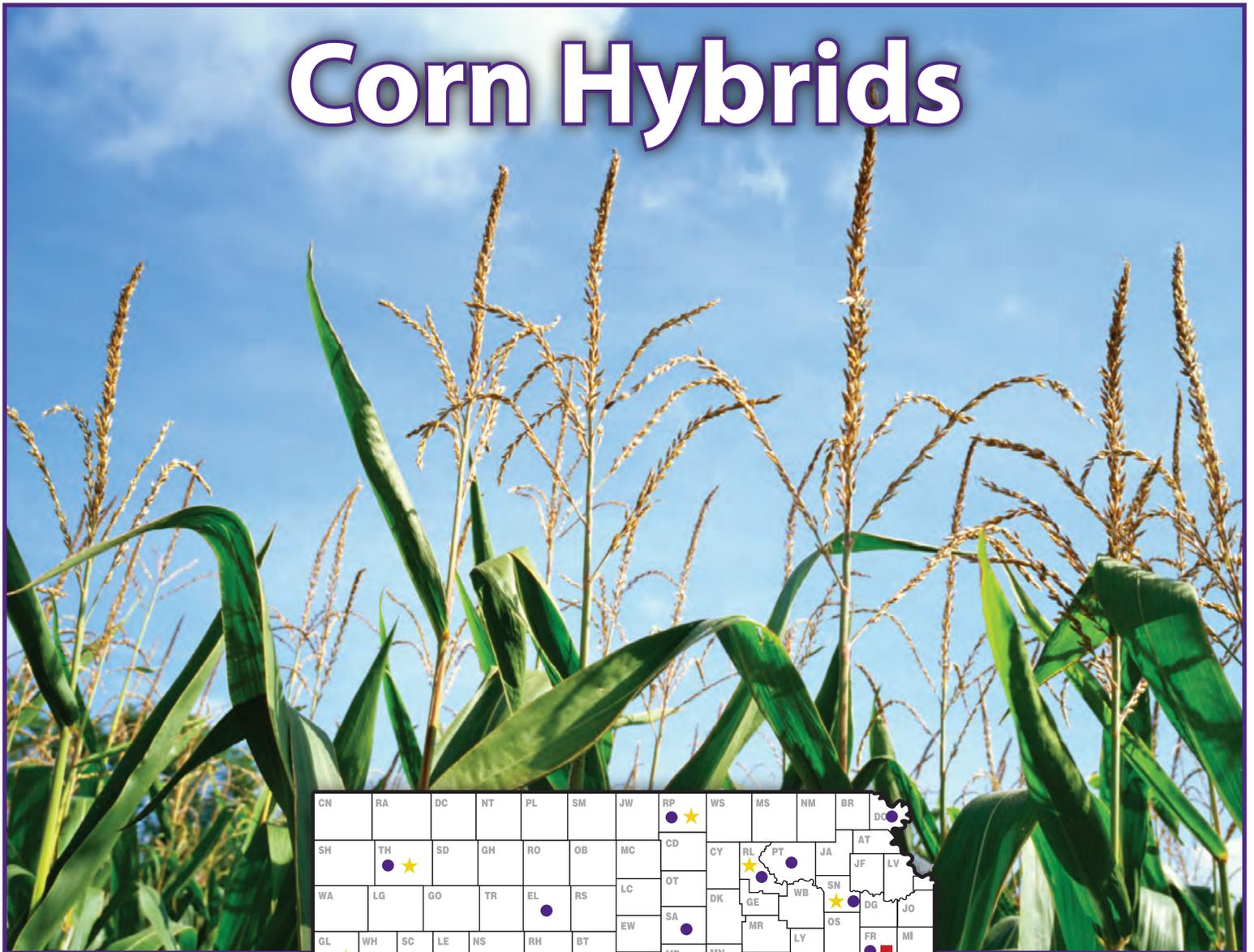


# 2016 Kansas Performance Tests with

# Corn Hybrids



## Report of Progress 1129



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## 2016 CORN CROP REVIEW

### Statewide Growing Conditions and Weather

The 2016 corn season had an overall favorable weather pattern. Wetness in the spring delayed planting in many locations. In addition, many fields presented early-season problems of lack of uniformity that impacted early growth and progress of the crop. Uneven corn stands can cause yield losses.

During the growing season, flooding was an issue in many locations, with Sedgwick and Brown counties being particularly hard hit. Saturated soils inhibit root growth, leaf area expansion, and produce yellow leaves. This saturation, early season, can confine the root system to the top inches of the soil, presenting several issues early and during late season stages (plants susceptible to drought and standability issues). Hail was also a problem across the state. There were 526 reports of large hail through October 15. Of those events, 223 were reported in May. Hail has a larger impact when occurring around flowering time or during the grain filling, when the plant depends on the leaves, potentially affecting grain number and seed weight.

As related to the precipitation conditions, all divisions averaged above normal for the period of April 1 through October 15. The greatest departure was in the south central region, where the divisional average was 32.17 inches or 138% of normal. Unfortunately, the rains weren't evenly distributed across the region or across the season. At the St. John station, rainfall was below normal until mid-August. A wet end to August was followed by more normal conditions in September and October. Wet conditions during the reproductive stages favored diseases in corn such as Diplodia ear and stalk rot. In addition to the disease incidence, late-season rainy conditions delayed harvest in many areas across the state, challenging the harvest progress.

Temperatures weren't as much of a factor (Table 1.) The warmest readings were seen in mid-July, with the highest read of 110°F reported on July 24 at Webster Dam. The latest freeze events recorded weren't particularly late with Quinter dropping to 24°F on April 15. The first autumn freezes were also close to average, with Sharon Springs dropping to 28°F on the 8th of October, and Concordia reaching 29°F on the 13th.

Luckily, the below-freezing temperatures did not affect corn since it did not match with the most sensitive stages during the grain filling. Most of the crop was fully mature when those temperatures occurred. Corn can be affected when temperatures are below or at 32°F. The colder below 32°F, the less exposure time it takes to damage the corn. However, corn is not affected once the black layer (physiologically mature) is formed.

Despite the abovementioned challenges, in September the U.S. Department of Agriculture forecasted a corn yield of 151 bushels per acre for the state of Kansas for the 2016 growing season, overpassing the 148 bushels per acre from the 2015 growing season (Ignacio A Ciampitti, Kansas State University Cropping Systems Specialist, and Mary Knapp, Kansas State University Climatologist).

**Table 1. 2016 temperatures by crop production district**

Division	Extreme Tmax (°F)	Date	Avg Tmax (°F)	Avg Tmin (°F)	Avg Tmean (°F)	Extreme Tmin (°F)	Date
Northwest	106	23-Jul	81.1	52.6	66.8	22	2-Apr
North Central	110	24-Jul	81.6	56.5	69.1	22	3-Apr
Northeast	106	23-Jun	80.7	58.3	69.5	22	2-Apr
West Central	107	24-Jul	82.0	53.4	67.7	21	2-Apr
Central	109	22-Jul	82.6	57.7	70.1	19	2-Apr
East Central	106	25-Jul	81.0	59.8	70.4	23	12-Apr
Southwest	107	24-Jul	83.8	55.4	69.7	18	2-Apr
South Central	106	22-Jul	83.5	59.3	71.4	23	2-Apr
Southeast	104	23-Jul	82.4	60.9	71.7	23	2-Apr

## Diseases

Significant rainfall amounts across most of the state alleviated drought conditions in 2016, but at the same time, they provided ideal conditions for many foliar diseases. Gray leaf spot, while not present at the record levels seen in 2015, was still higher than the long-term average. Unfortunately, because of low commodity prices, many producers chose not to apply a fungicide and this was a significant mistake where more susceptible hybrids were being grown. Yield losses could easily be more than 15%. For the second consecutive year, southern corn rust made its first appearance in mid-June rather than the historical time period of late-July to early-August. The disease quickly spread across the entire state and certainly resulted in yield losses of 10% or more where corn was planted later and fungicides were not applied.

Goss's bacterial blight was present at near-normal levels, with most of the reports coming from the western half of the state. A new bacterial disease, commonly referred to as corn bacterial leaf streak, was identified for the first time in Kansas. This disease has been present in Nebraska since at least 2014, and may have been in Kansas last year, but 2016 was the first year that the causal bacterium, *Xanthomonas vasicola* pv *vasculorum* (Xvv) was positively identified as the cause. By year end, Xvv was officially diagnosed in 16 Kansas counties, most of which are in the western third of the state. The disease is most common and severe in fields that are in a continuous corn, no-till production system with overhead irrigation. At this time, it is not clear if this disease is associated with any yield loss.

Rainy weather at silking time also resulted in a record epidemic of Diplodia ear rot. This disease can cause entire ears to become moldy, shrinking and discoloring kernels. The disease can also penetrate the cob, causing "cob rot," which ultimately leads to large amounts of foreign material in the grain from infected fields and results in significant dockages at the point of sale.

Aspergillus ear rot, the cause of aflatoxin problems was present on a localized basis. The most severe problem area was in southern Harper and Barber Counties and in Oklahoma. While a few samples tested over 1,000 ppm, most samples were well below the 20 ppm safe level established by the Food and Drug Administration.

Lastly, Fusarium, anthracnose, and Diplodia stalk rots were present in varying degrees across a large part of the state. Stalk rots lead to premature death of infected plants with the result being reduced yields from smaller ears and the additional threat of losses from lodging.

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

## Insects

Reports of black cutworm infestations were a little more common this year, mainly from southeast Kansas, than in the past 3-4 years. This was probably due to the weather and the time of planting. Black cutworm moths migrate into Kansas in early spring and lay eggs in the lower, wetter areas of fields. One of their common names is "overflow" worm because of this. Some areas in a few fields were replanted after the worms completed their development and the problem was taken care of.

A few reports were received from north central Kansas about rootworm damage. It seems this has also been the pattern for the last 3-4 years. Rootworm resistant corn is either being overcome by the rootworms, or the grower mixed up the location of the Bt-resistant variety with a rootworm-susceptible variety.

Japanese beetles seem to be increasing their infestation area throughout north central Kansas. They now seem to be common within an area bordered by the Nebraska and Missouri borders and Interstate 70 and KS Highway 75.

There was also considerable concern relative to "ragworms" in whorl-stage corn. Plants were infested with mostly fall armyworms but also some corn earworms, which caused the ragged look. Leaf feeding occurs within the whorl and the leaves display the tattered appearance after they grow out. That is one of the reasons spraying is not recommended: it is usually too late, the insecticide doesn't penetrate into the whorl, and the leaf feeding doesn't really affect yield. (Holly Schwarting and Jeff Whitworth, Kansas State University Department of Entomology)

## 2016 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 11 to help interpret yield results.

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

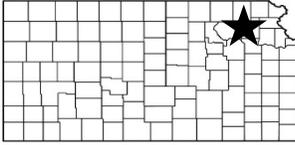
Explanatory information is given in summaries preceding data for each test. Tables 3 through 10 contain results from the individual performance tests. Hybrids are listed together by company name. A summary of growing season precipitation data is given for individual test discussions. General trends in precipitation relative to normal are readily observed in the graphs.

Grain yields are reported as bushels per acre of shelled grain (56 lb/bu) adjusted to 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.

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 2016 Kansas Corn Performance Tests**

<b>AgriGold Hybrids</b> St. Francisville, IL 800-262-7333 agrigold.com	<b>Golden Harvest Brand Seed</b> Minnetonka, MN 800-455-0956 syngentaseeds.com	<b>Midland Genetics (Kauffman)</b> Haven, KS 800-634-2836 kauffmanseed.com	<b>NuTech Seed LLC</b> Ames, IA 800-942-6748 nutechseed.com
<b>Advanta US, Inc (Phoenix)</b> Amarillo, TX 806-350-7552 advantaseeds.com	<b>LG Seeds</b> Elmwood, IL 309-742-3302 lgseeds.com	<b>Midland Genetics (Sylvester)</b> Ottawa, KS 800-819-7333 midlandgenetics.com	<b>Phillips Seed Farms, Inc.</b> Hope, KS 785-949-2204 phillipsseed.com
<b>B-H Genetics</b> Ganado, TX 361-771-2755 bhgenetics.com	<b>MFA Incorporated (MorCorn)</b> Columbia, MO 573-876-5397 mfa-inc.com	<b>Monsanto (Dekalb)</b> St. Louis, MO 314-694-1000 monsanto.com	<b>Producers Hybrids</b> Battle Creek, NE 888-675-3190 producershybrids.com
<b>Golden Acres Genetics</b> Waco, TX 254-761-9838 gaseed.com			



# NORTHEAST KANSAS DRYLAND CORN TESTS

## Manhattan, Riley County

Agronomy North Farm

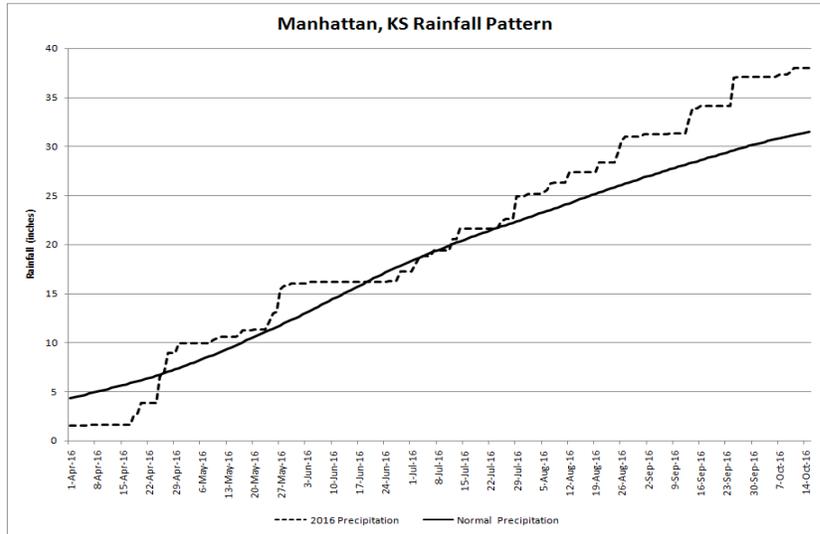
Planted: 5/6/2016

Harvested: 9/21/2016

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

Reading silt loam

Previous crop: wheat



## Severance (Troy), Doniphan County

Fuhrman Farms, Inc.

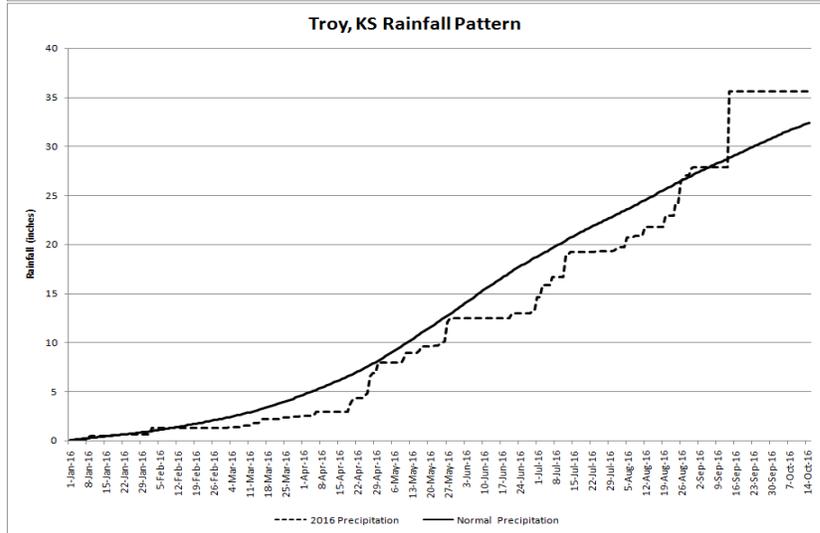
Planted: 5/5/2016

Harvested: 10/14/2016

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

Ulysses silt loam

Previous crop: soybean



## Onaga, Pottawatomie County

Rezac Land and Livestock, Inc.

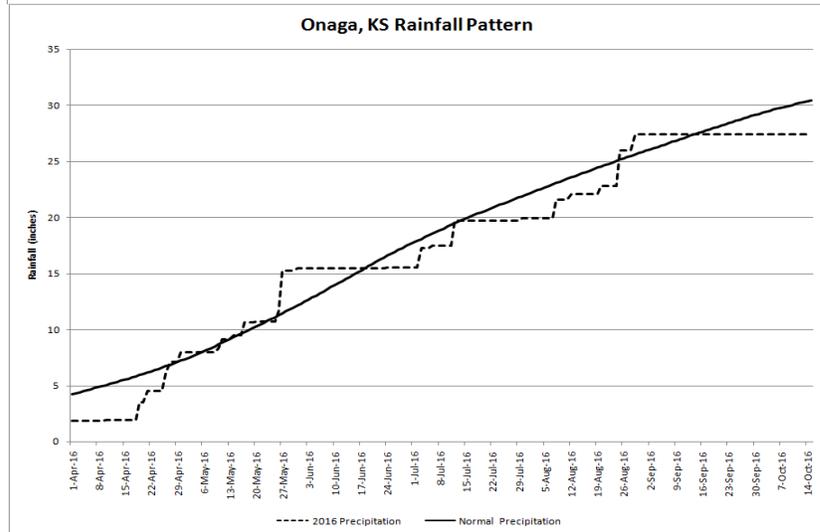
Planted: 5/5/2016

Harvested: 10/17/2016

185-0-0 lb/a N, P, K

Kipson silty clay loam

Previous crop: soybean



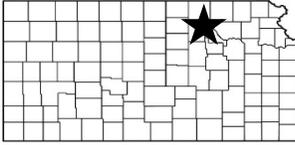
**TABLE 3. NORTHEAST KANSAS DRYLAND CORN PERFORMANCE TEST, 2016**

BRAND	NAME	MANHATTAN, Riley County					SEVERANCE, Doniphan County					Onaga, Pottawatomie 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
DEKALB	DKC51-20RIB	163	87	56	15	25	118	73	58	15	24	129	78	59	14	25
DEKALB	DKC60-69RIB	176	94	56	18	24	166	103	60	16	24	158	96	61	15	24
DEKALB	DKC66-59RIB	192	103	57	18	22	<b>180</b>	111	60	17	24	176	107	61	16	24
LG SEEDS	LG5618STXRIB	190	102	57	20	23	--	--	--	--	--	166	101	62	16	24
LG SEEDS	LG5650STX	187	100	58	20	25	--	--	--	--	--	--	--	--	--	--
LG SEEDS	LG5700STX	187	101	53	18	20	--	--	--	--	--	--	--	--	--	--
MATURITY CHECK	EARLY	179	96	56	16	29	147	91	59	16	23	158	96	60	14	24
MATURITY CHECK	LATE	199	107	56	20	24	157	97	61	18	22	165	100	62	17	24
MATURITY CHECK	MED	192	103	58	19	26	163	101	61	17	25	170	103	62	17	25
MIDLAND	347PR	184	99	55	16	20	--	--	--	--	--	171	104	60	15	24
MIDLAND	534PR	--	--	--	--	--	165	102	61	16	24	--	--	--	--	--
MIDLAND	594PR DG	<b>213</b>	114	54	19	26	<b>174</b>	108	58	16	24	<b>177</b>	107	60	15	24
MIDLAND	653PR	156	84	57	18	21	146	90	61	16	22	166	101	62	15	24
MIDLAND	656PR	176	94	56	19	24	<b>184</b>	114	60	17	23	<b>182</b>	110	62	17	23
MIDLAND	714PRW	190	102	55	20	23	<b>177</b>	109	60	17	23	162	98	61	16	20
MIDLAND	735PR	--	--	--	--	--	<b>180</b>	111	59	17	23	--	--	--	--	--
MIDLAND	775PR DG	176	95	56	19	21	152	94	59	16	22	174	105	61	15	24
NUTECH	5F-113	194	104	58	19	25	155	96	62	16	24	<b>178</b>	108	63	16	25
NUTECH	5F-515	195	105	56	20	24	163	101	60	17	24	<b>182</b>	110	62	16	26
NUTECH	5F-709	201	108	55	18	30	161	100	59	16	26	161	98	60	15	25
NUTECH	5F-811	175	94	56	19	27	153	95	59	17	24	154	94	62	16	25
NUTECH	X5Z-1001	194	104	55	18	24	169	105	59	17	23	170	103	61	15	23
NUTECH	X5Z-1509	205	110	55	20	26	<b>185</b>	115	60	17	23	<b>191</b>	116	61	17	24
PHILLIPS	PSF 003 VT2 Pro	158	85	57	14	26	127	79	59	16	25	122	74	60	14	24
PHILLIPS	PSF 082 VT2 Pro	189	102	56	17	24	151	93	59	15	25	154	94	60	15	26
PHILLIPS	PSF 133 DG VT2 Pro	199	107	54	19	24	<b>184</b>	114	58	17	23	173	105	59	15	22
PHILLIPS	PSF 143 VT2 Pro	183	98	58	19	26	158	98	62	17	24	159	97	63	16	24
PHOENIX	5352A4	191	103	57	19	25	166	103	60	16	24	173	105	61	15	24
PHOENIX	6342A4	<b>222</b>	119	52	20	28	159	99	56	16	23	164	100	58	15	24
PHOENIX	6542A4	<b>207</b>	111	53	21	23	<b>169</b>	105	58	17	22	164	100	60	16	22
PHOENIX	6948A3	185	99	54	20	24	158	98	59	18	24	153	93	61	17	23
PRODUCERS	6258STXRIB	--	--	--	--	--	138	85	59	15	24	--	--	--	--	--
PRODUCERS	6483VT2PRIB	152	81	58	16	22	--	--	--	--	--	--	--	--	--	--
PRODUCERS	7068 STXRIB	154	83	54	16	26	--	--	--	--	--	--	--	--	--	--
PRODUCERS	7268 STXRIB	193	103	56	20	23	<b>169</b>	105	61	17	24	--	--	--	--	--
PRODUCERS	7358 STXRIB	--	--	--	--	--	148	92	59	16	23	--	--	--	--	--
PRODUCERS	7428STXRIB	187	100	56	18	24	168	104	59	15	24	--	--	--	--	--
PRODUCERS	7493VT2PRIB	--	--	--	--	--	<b>177</b>	110	60	18	24	--	--	--	--	--
	AVERAGE	186	100	56	18	24	161	100	59	16	23	165	100	61	16	24
	CV (%)	6	6	1	2	--	7	7	1	4	--	6	6	1	3	--
	LSD (0.05)	16	9	1	1	--	16	10	1	1	--	14	9	1	1	--

\*Seed treatment and hybrid traits located in Table 11.

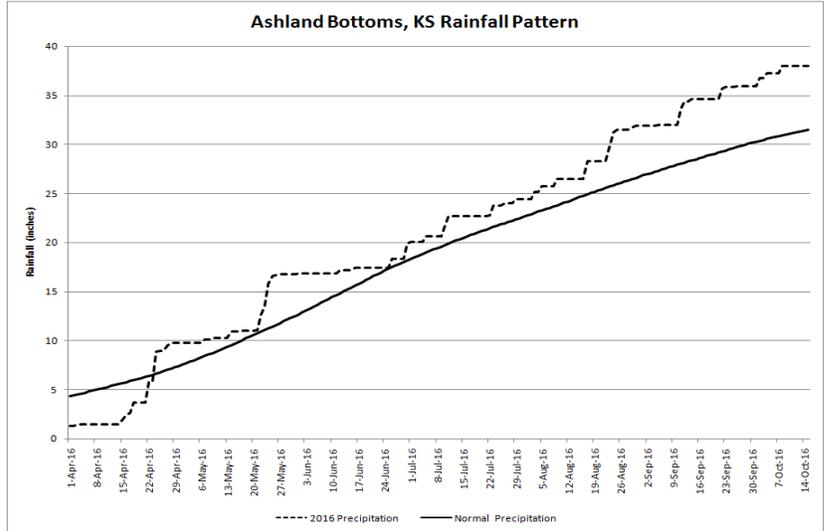
\*\*Yields in bold are not statistically different than the highest-yielding hybrid.

\*\*\*Yields must differ by more than the LSD value to be considered statistically different.

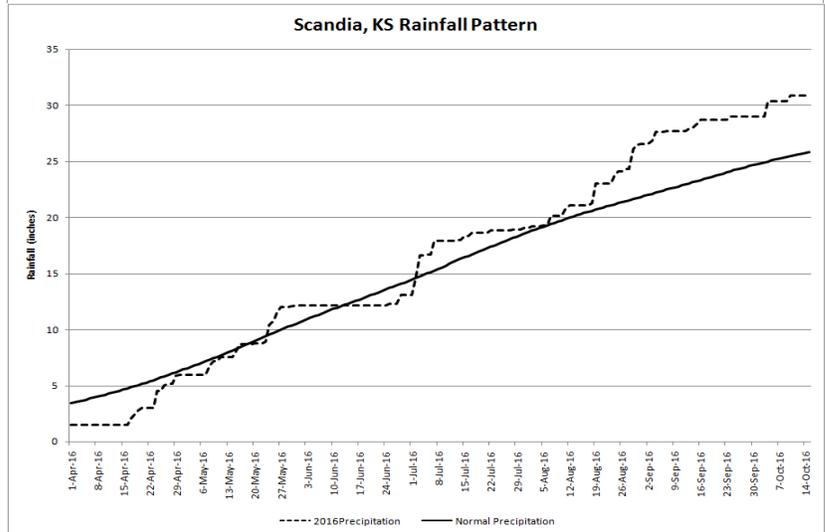


# NORTHEAST KANSAS IRRIGATED CORN TESTS

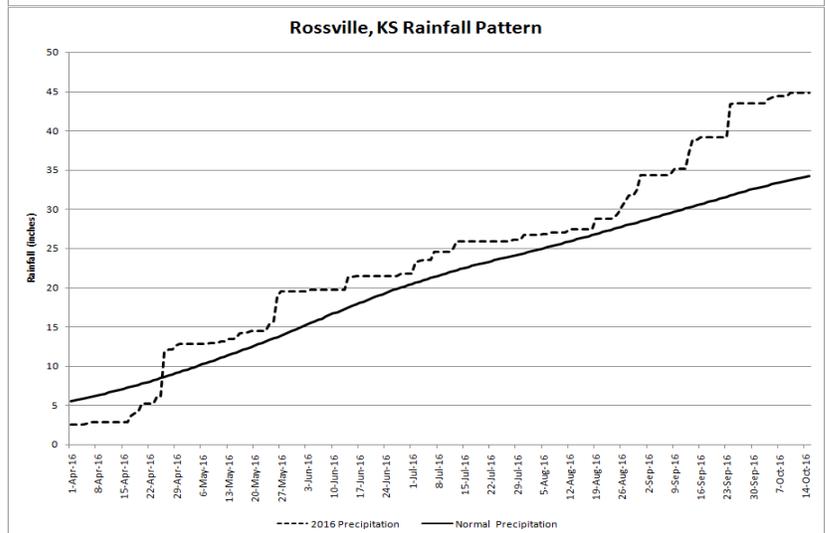
**Manhattan, Riley County**  
 Ashland Bottoms Research Center  
 Planted: 5/6/2016  
 Harvested: 9/23/2016  
 180-40-0 lb/a N, P, K  
 Sandy loam  
 Previous crop: soybean



**Scandia, Republic County**  
 North Central Experiment Field  
 Planted: 6/2/2016  
 Harvested: 11/2/2016  
 200-0-0 lb/a N, P, K  
 Crete silt loam  
 Previous crop: soybean



**Topeka (Rossville), Shawnee County**  
 Kansas River Valley Experiment Field  
 Planted: 4/11/2016  
 Harvested: 9/12/2016  
 194-52-40-10 lb/a N, P, K, S  
 Eudora silt loam  
 Previous crop: soybean



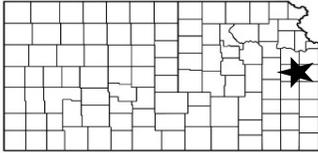
**TABLE 4. NORTHEAST KANSAS SPRINKLER-IRRIGATED CORN PERFORMANCE TEST, 2016**

BRAND	NAME	MANHATTAN, Riley County				SCANDIA, Republic County				TOPEKA, Shawnee County						
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa
AGRIGOLD	A6499STXRIB	--	--	--	--	--	<b>205</b>	107	61	14	--	--	--	--	--	
AGRIGOLD	A6517VT3PRIB	--	--	--	--	--	172	90	56	13	--	--	--	--	--	
AGRIGOLD	A6572VT2PRO	--	--	--	--	--	<b>225</b>	117	64	13	--	--	--	--	--	
AGRIGOLD	A6619VT2RIBD1	--	--	--	--	--	167	87	55	13	--	--	--	--	--	
AGRIGOLD	A6652VT2PRO	--	--	--	--	--	<b>198</b>	103	60	13	--	--	--	--	--	
DEKALB	DKC51-2ORIB	176	88	57	14	24	180	94	57	13	198	88	58	14	73	27
DEKALB	DKC60-69RIB	193	97	58	17	24	<b>199</b>	104	60	13	197	87	59	16	72	28
DEKALB	DKC66-59RIB	200	100	58	17	23	186	97	58	13	231	103	59	18	76	28
GOLDEN HARVEST	G10530-3111	--	--	--	--	--	<b>195</b>	102	59	13	--	--	--	--	--	
GOLDEN HARVEST	G11F16-3111A	--	--	--	--	--	<b>206</b>	107	61	13	--	--	--	--	--	
GOLDEN HARVEST	G12J11	--	--	--	--	--	--	--	--	--	214	95	58	17	77	27
GOLDEN HARVEST	G12W66-3000	--	--	--	--	--	<b>216</b>	113	62	13	--	--	--	--	--	
GOLDEN HARVEST	G13N18-3111	--	--	--	--	--	178	93	57	14	--	--	--	--	--	
GOLDEN HARVEST	G14V04-3010	--	--	--	--	--	<b>191</b>	100	59	13	--	--	--	--	--	
GOLDEN HARVEST	G18D87-3111	--	--	--	--	--	<b>192</b>	100	60	16	--	--	--	--	--	
LG SEEDS	LG5618STXRIB	<b>205</b>	103	58	18	25	--	--	--	--	--	--	--	--	--	
LG SEEDS	LG5650STX	<b>207</b>	103	59	18	28	--	--	--	--	--	--	--	--	--	
LG SEEDS	LG5663VT2PRIB	202	101	57	18	20	--	--	--	--	--	--	--	--	--	
LG SEEDS	LG5700STX	203	102	55	17	24	--	--	--	--	--	--	--	--	--	
MATURITY CHECK	EARLY	<b>207</b>	104	58	16	28	<b>193</b>	100	59	13	207	92	59	16	76	28
MATURITY CHECK	LATE	203	101	58	19	26	<b>200</b>	104	60	13	228	101	58	17	78	28
MATURITY CHECK	MED	<b>208</b>	104	59	18	28	<b>196</b>	102	60	14	213	95	59	18	78	30
MIDLAND	534PR	196	98	59	17	24	<b>209</b>	109	61	13	--	--	--	--	--	
MIDLAND	573PR	--	--	--	--	--	--	--	--	--	<b>235</b>	104	61	18	74	28
MIDLAND	594PR DG	<b>224</b>	112	56	18	25	188	98	58	13	<b>240</b>	107	56	18	76	29
MIDLAND	656PR	202	101	57	19	26	<b>198</b>	103	60	14	233	104	58	18	74	24
MIDLAND	714PRW	--	--	--	--	--	176	92	56	13	<b>234</b>	104	56	18	77	26
MIDLAND	735PR	<b>216</b>	108	55	20	24	189	99	59	13	232	103	57	18	77	28
MIDLAND	757PR	--	--	--	--	--	--	--	--	--	<b>239</b>	106	58	19	76	28
MIDLAND	775PR DG	--	--	--	--	--	190	99	58	12	--	--	--	--	--	
NUTECH	5F-015	200	100	58	18	26	184	96	58	13	<b>243</b>	108	59	17	76	29
NUTECH	5F-308	198	99	58	16	25	<b>192</b>	100	58	12	215	96	59	16	77	30
NUTECH	5F-510	187	93	59	16	26	<b>192</b>	100	59	13	<b>237</b>	105	60	16	76	29
NUTECH	5F-515	189	95	58	18	24	170	88	55	13	<b>234</b>	104	59	17	77	29
NUTECH	5F-709	192	96	57	16	25	<b>191</b>	99	58	13	203	90	59	17	77	29
NUTECH	5F-713	193	97	57	17	26	<b>208</b>	108	61	13	<b>259</b>	115	58	17	78	25
NUTECH	X5Z-1001	201	101	57	17	26	186	97	58	13	<b>238</b>	105	59	17	77	29
NUTECH	X5Z-1509	202	101	56	18	24	<b>200</b>	104	60	14	<b>255</b>	113	58	19	77	28
PHILLIPS	PSF 003 VT2 Pro	173	86	58	14	25	146	76	53	13	165	73	57	14	73	28
PHILLIPS	PSF 082 VT2 Pro	<b>207</b>	103	58	15	25	<b>196</b>	102	59	13	216	96	57	15	76	27
PHILLIPS	PSF 133 DG VT2 Pro	<b>211</b>	106	56	18	21	<b>191</b>	100	59	13	231	102	56	18	75	26
PHILLIPS	PSF 143 VT2 Pro	199	100	59	18	24	186	97	58	13	230	102	61	17	74	28
PHOENIX	5352A4	192	96	57	17	23	189	98	58	13	209	93	55	16	73	28
PHOENIX	6342A4	<b>206</b>	103	54	18	26	<b>198</b>	103	60	13	226	100	54	16	78	29
PHOENIX	6542A4	<b>207</b>	104	55	19	25	<b>194</b>	101	59	12	213	95	54	17	77	28
PHOENIX	6948A3	196	98	56	19	23	<b>208</b>	108	61	13	204	91	54	17	77	28
PRODUCERS	7268 STXRIB	--	--	--	--	--	--	--	--	--	<b>242</b>	108	58	18	76	29
PRODUCERS	7358 STXRIB	--	--	--	--	--	--	--	--	--	225	100	58	17	77	28
PRODUCERS	7428STXRIB	--	--	--	--	--	--	--	--	--	<b>250</b>	111	58	17	78	23
PRODUCERS	7493VT2PRIB	--	--	--	--	--	--	--	--	--	<b>236</b>	105	57	18	73	29
PRODUCERS	7668STXRIB	--	--	--	--	--	--	--	--	--	<b>236</b>	105	58	17	77	28
	AVERAGE	200	100	57	17	25	192	100	59	13	226	100	58	17	76	28
	CV (%)	7	7	1	3	--	11	11	--	5	8	8	2	3	--	--
	LSD (0.05)	20	10	1	1	--	34	18	--	1	25	11	2	1	--	--

\*Seed treatment and hybrid traits located in Table 11.

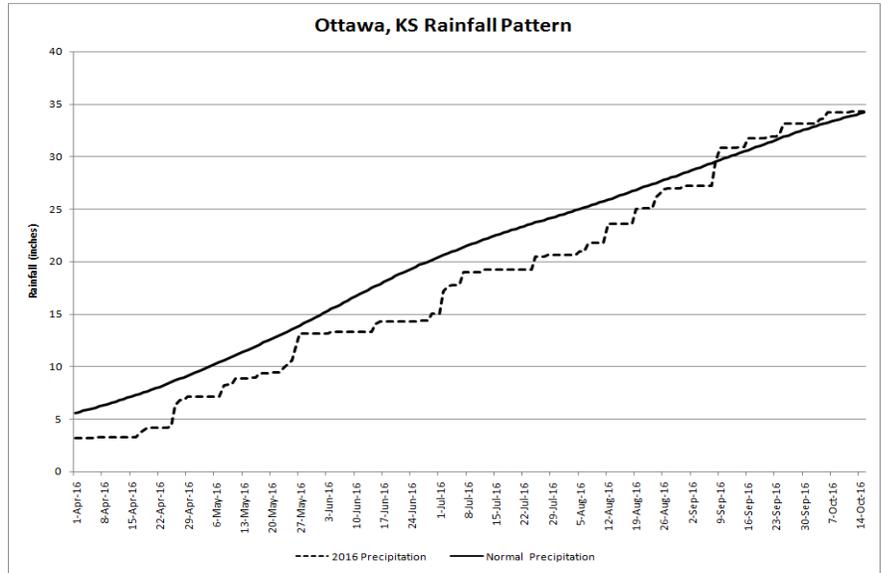
\*\*Yields in bold are not statistically different than the highest-yielding hybrid.

\*\*\*Yields must differ by more than the LSD value to be considered statistically different.

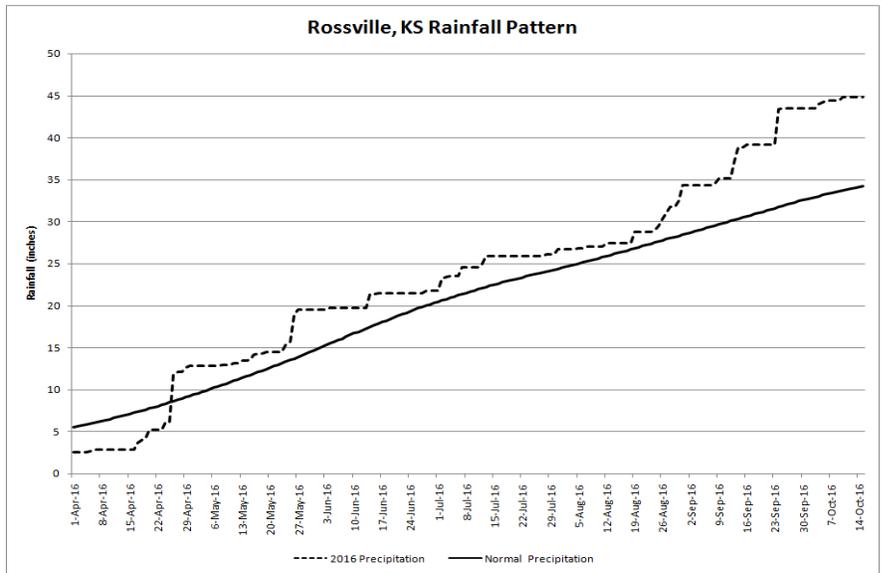


# EASTERN KANSAS DRYLAND CORN TESTS

**Ottawa, Franklin County**  
 East Central Experiment Field  
 Planted: 4/12/2016  
 Harvested: 9/22/2016  
 140-40-15 lb/a N, P, K  
 Woodson silt loam  
 Previous crop: soybean



**Topeka (Rossville), Shawnee County**  
 Private farmer's field  
 Planted: 4/11/2016  
 Harvested: 9/23/2016  
 194-52-40-0 lb/a N, P, K, S  
 Silty clay loam  
 Previous crop: soybean



**Erie, Neosho County**  
 Private farmer's field  
 Abandoned due to flooding  
 throughout growing season.

**TABLE 5. EASTERN KANSAS DRYLAND CORN PERFORMANCE TEST, 2016**

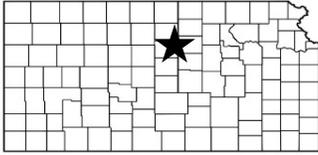
BRAND	NAME	OTTAWA, Franklin County						ROSSVILLE, Shawnee County					
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa
AGRIGOLD	A6267STXRIB	121	68	57	14	82	15	--	--	--	--	--	--
AGRIGOLD	A6413STXRIB	137	77	59	14	83	20	--	--	--	--	--	--
AGRIGOLD	A6499STXRIB	<b>189</b>	107	60	16	84	19	--	--	--	--	--	--
AGRIGOLD	A6619VT2RIBD1	174	98	55	15	85	22	--	--	--	--	--	--
DEKALB	DKC51-20RIB	155	87	58	13	81	22	144	80	55	14	74	25
DEKALB	DKC60-69RIB	173	97	59	15	83	22	173	96	58	15	76	24
DEKALB	DKC66-59RIB	<b>187</b>	105	60	15	84	23	<b>190</b>	106	60	16	76	23
GOLDEN HARVEST	G12J11	--	--	--	--	--	--	171	95	57	15	78	25
MATURITY CHECK	EARLY	170	96	59	14	83	24	173	96	58	15	77	24
MATURITY CHECK	LATE	<b>189</b>	107	61	16	87	23	<b>189</b>	105	60	16	79	25
MATURITY CHECK	MED	<b>181</b>	102	59	16	86	24	<b>187</b>	104	59	16	78	25
MIDLAND	347PR	<b>187</b>	105	57	14	84	23	<b>194</b>	108	56	15	76	24
MIDLAND	573PR	--	--	--	--	--	--	<b>195</b>	108	60	15	76	23
MIDLAND	594PR DG	172	97	55	15	86	23	<b>198</b>	110	54	16	77	23
MIDLAND	653PR	<b>194</b>	109	61	15	83	23	--	--	--	--	--	--
MIDLAND	656PR	<b>192</b>	108	57	16	84	22	<b>198</b>	110	58	16	76	23
MIDLAND	757PR	--	--	--	--	--	--	<b>189</b>	105	58	16	78	24
NUTECH	5F-113	178	100	60	16	85	23	172	95	59	15	78	23
NUTECH	5F-709	<b>188</b>	106	60	15	84	24	172	96	60	15	77	25
NUTECH	X5Z-1001	<b>194</b>	109	59	15	85	23	<b>182</b>	101	58	16	78	23
NUTECH	X5Z-1509	<b>198</b>	111	59	16	87	24	<b>198</b>	110	59	16	79	24
PHILLIPS	PSF 003 VT2 Pro	146	82	59	13	81	22	141	79	58	14	72	27
PHILLIPS	PSF 082 VT2 Pro	<b>182</b>	103	57	14	85	22	<b>180</b>	100	58	14	75	26
PHILLIPS	PSF 133 DG VT2 Pro	172	97	56	15	85	21	<b>188</b>	104	54	15	76	22
PHILLIPS	PSF 143 VT2 Pro	173	97	61	15	83	21	<b>185</b>	103	59	15	77	22
PHOENIX	5352A4	<b>193</b>	109	59	15	82	24	172	96	54	14	74	23
PHOENIX	6342A4	<b>200</b>	112	55	15	84	24	171	95	54	15	78	25
PHOENIX	6542A4	<b>192</b>	108	56	15	85	23	<b>187</b>	104	55	14	77	24
PHOENIX	6948A3	180	101	55	16	85	24	167	93	54	15	77	23
	AVERAGE	177	100	58	15	84	22	180	100	57	15	77	24
	CV (%)	8	8	2	3	1	6	8	8	2	3	0	0
	LSD (0.05)	19	11	2	1	1	2	21	12	2	1	0	0

Erie, Neosho County test abandoned due to flooding throughout growing season.

\*Seed treatment and hybrid traits located in Table 11.

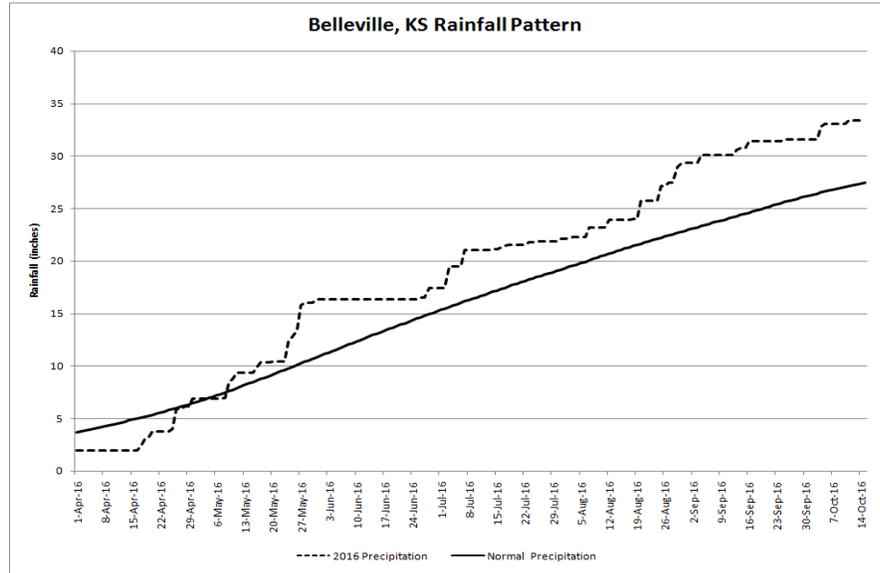
\*\*Yields in bold are not statistically different than the highest-yielding hybrid.

\*\*\*Yields must differ by more than the LSD value to be considered statistically different.

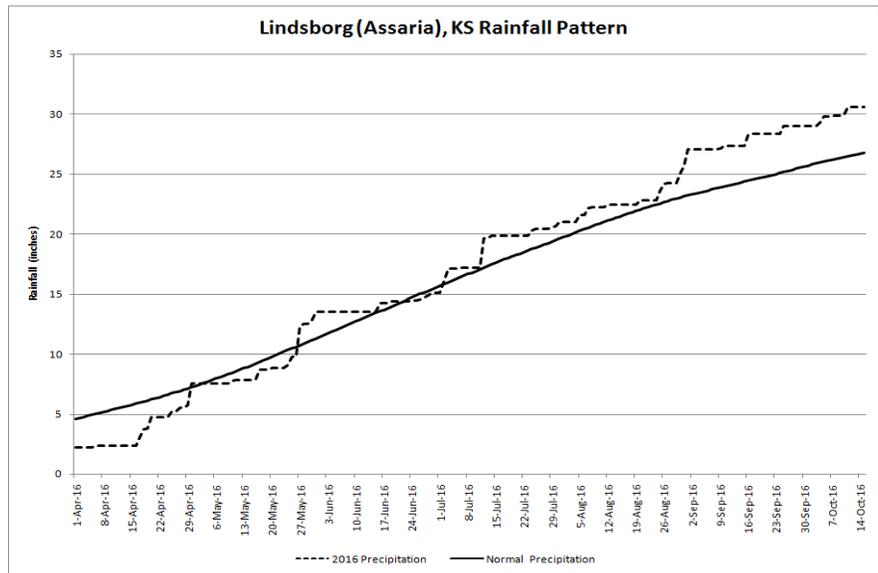


## CENTRAL KANSAS DRYLAND CORN TESTS

**Belleville, Republic County**  
 North Central Experiment Field  
 Planted: 6/8/2016  
 Harvested: 11/15/2016  
 150-0-0 lb/a N, P, K  
 Crete silt loam  
 Previous crop: soybean



**Assaria, Saline County**  
 Clayton Short Farm  
 Planted: 5/17/2016  
 Harvested: 9/15/2016  
 180-0-0 lb/a N, P, K  
 Smolan silt loam  
 Previous crop: soybean



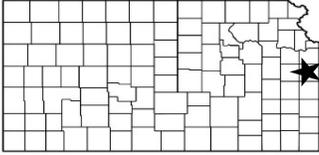
**TABLE 6. CENTRAL KANSAS DRYLAND CORN PERFORMANCE TEST, 2016**

BRAND	NAME	BELLEVILLE, Republic County				ASSARIA, Saline County				1000 ppa
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	
AGRIGOLD	A6267STXRIB	153	94	58	13	--	--	--	--	--
AGRIGOLD	A6413STXRIB	162	100	59	13	--	--	--	--	--
AGRIGOLD	A6499STXRIB	<b>177</b>	109	59	13	--	--	--	--	--
AGRIGOLD	A6619VT2RIBD1	157	97	56	13	--	--	--	--	--
DEKALB	DKC51-20RIB	151	93	57	12	111	101	53	20	18
DEKALB	DKC60-69RIB	165	102	59	12	121	110	54	21	18
DEKALB	DKC66-59RIB	149	92	58	12	<b>123</b>	112	54	21	18
GOLDEN HARVEST	G07B39-3111A	<b>178</b>	110	58	13	--	--	--	--	--
GOLDEN HARVEST	G07F23-3111	166	102	56	13	--	--	--	--	--
GOLDEN HARVEST	G10S30-3111	<b>173</b>	106	55	12	--	--	--	--	--
GOLDEN HARVEST	G11F16-3111A	<b>177</b>	109	56	13	--	--	--	--	--
GOLDEN HARVEST	G13N18-3111	<b>174</b>	107	55	13	--	--	--	--	--
GOLDEN HARVEST	G14V04-3010	<b>180</b>	111	57	14	--	--	--	--	--
LG SEEDS	LG5618STXRIB	<b>170</b>	105	60	13	--	--	--	--	--
LG SEEDS	LG5643STX	159	98	57	13	--	--	--	--	--
LG SEEDS	LG5650STX	<b>181</b>	111	60	13	--	--	--	--	--
MATURITY CHECK	EARLY	167	103	57	13	105	96	53	16	17
MATURITY CHECK	LATE	146	90	58	13	97	89	54	19	18
MATURITY CHECK	MED	164	101	60	13	109	99	56	17	18
MIDLAND	344PR	--	--	--	--	110	100	53	21	18
MIDLAND	347PR	153	94	56	13	117	107	54	17	17
MIDLAND	436VG	<b>179</b>	110	55	12	--	--	--	--	--
MIDLAND	573PR	--	--	--	--	106	97	56	20	18
MIDLAND	594PR DG	151	93	55	12	111	101	53	21	18
MIDLAND	624PR	--	--	--	--	113	103	54	24	18
MIDLAND	653PR	165	102	59	12	--	--	--	--	--
MIDLAND	656PR	159	98	60	14	--	--	--	--	--
MIDLAND	757PR	--	--	--	--	121	110	54	25	17
MIDLAND	775PR DG	<b>170</b>	105	59	13	101	92	54	22	17
MORCORN	MC3544	146	90	59	12	108	98	54	20	18
MORCORN	MC3966	127	78	57	12	<b>139</b>	127	56	21	18
MORCORN	MC4178	<b>171</b>	105	59	12	95	87	56	17	17
MORCORN	MCXP1504	144	89	59	13	99	90	56	17	17
MORCORN	MCXP1604	<b>174</b>	107	60	14	103	94	57	18	17
MORCORN	MCXP1606	<b>170</b>	105	59	13	105	96	55	18	17
MORCORN	MCXP1607	143	88	57	12	108	98	53	21	17
NUTECH	5F-113	159	98	60	13	92	84	56	18	17
NUTECH	5F-515	136	84	59	13	113	103	54	19	18
NUTECH	5F-709	144	89	57	13	110	101	54	20	18
NUTECH	X5Z-1509	<b>171</b>	105	58	13	108	98	53	19	17
PHILLIPS	PSF 003 VT2 Pro	149	92	58	12	<b>125</b>	114	55	15	17
PHILLIPS	PSF 082 VT2 Pro	<b>176</b>	108	58	13	96	87	53	22	17
PHILLIPS	PSF 133 DG VT2 Pro	145	89	56	12	110	101	54	19	18
PHILLIPS	PSF 143 VT2 Pro	<b>176</b>	108	60	12	89	81	54	19	15
PHOENIX	5352A4	<b>189</b>	116	59	13	<b>126</b>	115	53	23	18
PHOENIX	6342A4	167	103	55	12	122	111	52	22	18
PHOENIX	6542A4	<b>183</b>	112	58	12	117	106	54	21	18
PHOENIX	6948A3	152	94	58	14	98	89	52	22	17
	Average	162	100	58	13	110	100	54	20	17
	CV (%)	7	7	1	5	10	10	3	18	6
	LSD (0.05)	19	12	1	1	16	15	2	5	2

\*Seed treatment and hybrid traits located in Table 11.

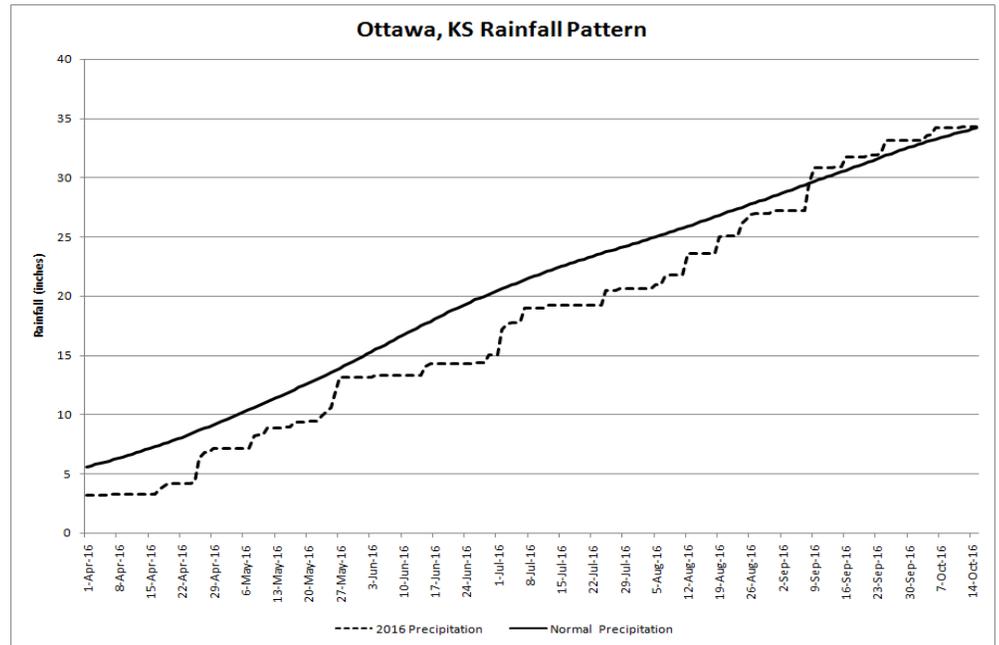
\*\*Yields in bold are not statistically different than the highest-yielding hybrid.

\*\*\*Yields must differ by more than the LSD value to be considered statistically different.



## SHORT SEASON DRYLAND CORN TESTS

**Ottawa, Franklin County**  
 East Central Experiment Field  
 Planted: 4/12/2016  
 Harvested: 9/22/2016  
 140-40-15 lb/a N, P, K  
 Woodson silt loam  
 Previous crop: soybean



**Parsons, Labette County**  
 K-State Southeast Research Center  
 Abandoned due to adverse weather  
 conditons.

**TABLE 7. KANSAS SHORT-SEASON DRYLAND CORN PERFORMANCE TEST, 2016**

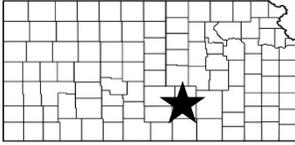
BRAND	NAME	OTTAWA, Franklin County					
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa
DEKALB	DKC51-20RIB	154	100	57	13	81	22
DEKALB	DKC60-69RIB	169	111	58	15	83	23
MATURITY CHECK	EARLY	164	107	58	14	83	23
MATURITY CHECK	MED	<b>185</b>	121	59	16	85	24
MIDLAND	126PR	146	96	59	13	81	19
MIDLAND	134PR	144	94	58	13	81	21
MIDLAND	534PR	166	108	59	14	84	22
MORCORN	MC2583	140	92	58	14	80	20
MORCORN	MC3022	145	95	59	13	81	21
MORCORN	MC3295	114	75	58	13	82	17
MORCORN	MC3544	<b>170</b>	111	58	14	82	23
MORCORN	MCXP1501	130	85	58	13	82	18
MORCORN	MCXP1601	135	88	56	13	81	19
MORCORN	MCXP1604	168	110	59	14	82	23
NUTECH	5F-200	144	94	59	13	79	21
NUTECH	5F-701	143	94	59	14	83	22
NUTECH	5H-905	160	105	58	14	81	21
NUTECH	5Z-503	156	102	61	13	83	21
NUTECH	5Z-601	160	105	59	13	83	23
PHILLIPS	PSF 003 VT2 Pro	145	95	58	13	82	22
PHILLIPS	PSF 082 VT2 Pro	<b>171</b>	112	57	14	85	21
	AVERAGE	153	100	58	14	82	21
	CV (%)	7	7	1	2	1	7
	LSD (0.05)	15	10	1	0	1	2

**Parsons, Labette County test abandoned due to severe weather during growing season.**

\*Seed treatment and hybrid traits located in Table 11.

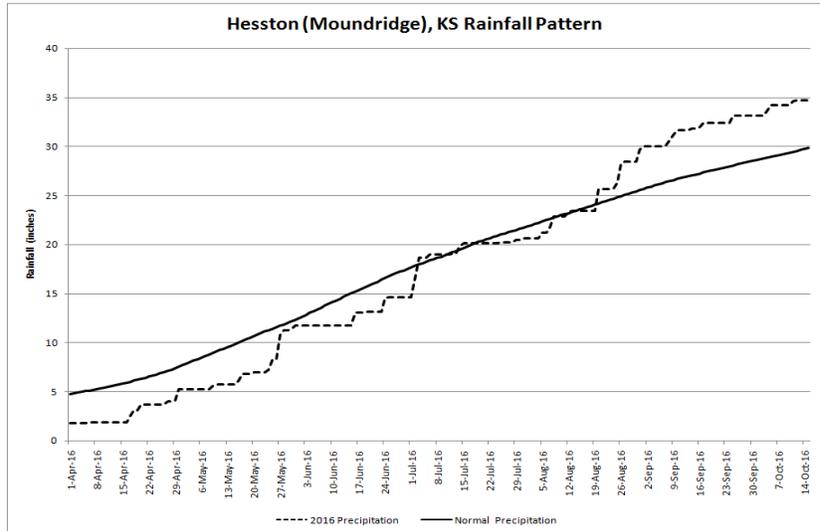
\*\*Yields in bold are not statistically different than the highest-yielding hybrid.

\*\*\*Yields must differ by more than the LSD value to be considered statistically different.

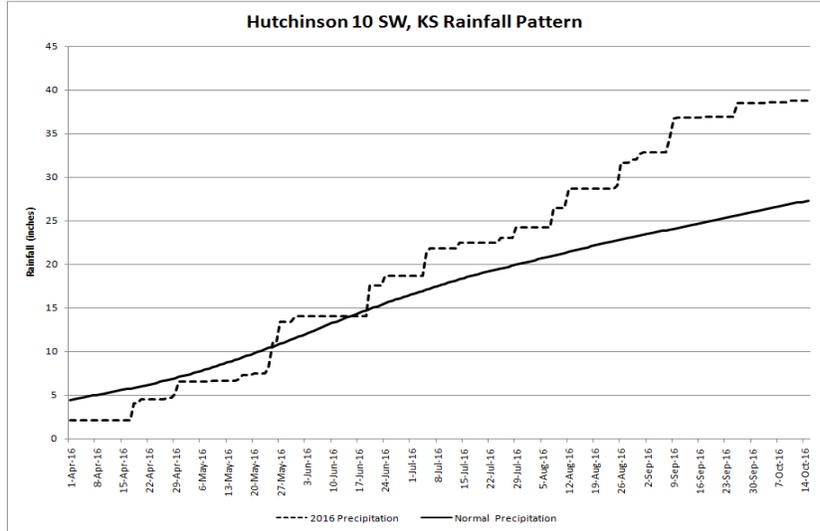


# SOUTH CENTRAL KANSAS IRRIGATED CORN TESTS

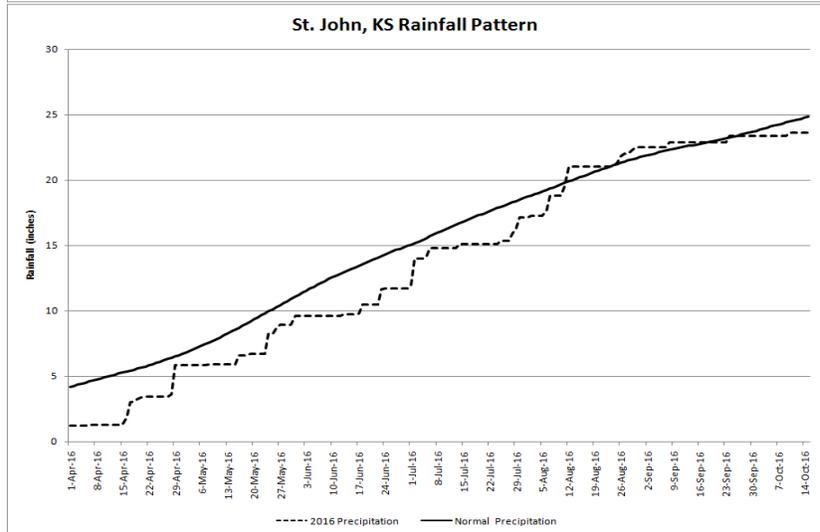
**Moundridge, McPherson County**  
 Mark Vogt Farm  
 Planted: 4/27/2016  
 Harvested: 9/22/2016  
 200-0-0 lb/a N, P, K  
 Crete silt loam  
 Previous crop: wheat



**Hutchinson, Reno County**  
 Southwest Seed Research Farm  
 Planted: 4/28/2016  
 Harvested: 9/19/2016  
 200-0-0 lb/a N, P, K  
 Punkin silt loam  
 Previous crop: soybean



**Macksville, Stafford County**  
 Justin Vosburgh Farm  
 Planted: 4/27/2016  
 Harvested: 9/23/2016  
 230-40-0 lb/a N, P, K  
 Carwile fine sandy loam  
 Previous crop: soybean



**TABLE 8. SOUTH CENTRAL KANSAS IRRIGATED CORN PERFORMANCE TEST, 2016**

BRAND	NAME	MOUNDRIDGE, 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 (%)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	1000 ppa
AGRIGOLD	A6499STXRIB	138	86	59	19	27	--	--	--	--	--	--	--	--	--	--
AGRIGOLD	A6517VT3PRIB	174	108	58	18	28	--	--	--	--	--	--	--	--	--	--
AGRIGOLD	A6572VT2PRO	162	100	61	19	26	--	--	--	--	--	--	--	--	--	--
AGRIGOLD	A6652VT2PRO	<b>191</b>	119	58	17	27	--	--	--	--	--	--	--	--	--	--
DEKALB	DKC51-20RIB	148	92	57	15	25	<b>199</b>	104	58	16	29	148	81	59	11	25
DEKALB	DKC60-69RIB	173	107	59	16	22	<b>186</b>	98	60	16	23	177	97	61	14	27
DEKALB	DKC66-59RIB	157	98	60	17	24	<b>197</b>	103	59	18	25	181	99	61	16	27
GOLDEN ACRES	G2778VT2RIB	117	73	61	16	24	<b>197</b>	104	59	19	25	187	102	63	14	28
GOLDEN ACRES	G5788STXRIB	<b>185</b>	115	61	19	26	<b>202</b>	106	59	19	28	197	107	63	15	29
GOLDEN ACRES	G6611	<b>199</b>	124	58	20	26	<b>209</b>	110	58	18	34	203	110	61	16	28
GOLDEN ACRES	G7601	166	103	58	19	26	181	95	59	16	27	213	116	61	15	27
GOLDEN ACRES	G7688	145	90	60	19	28	<b>186</b>	98	59	17	27	179	98	62	17	27
LG SEEDS	LG5607VT2RIB	--	--	--	--	--	--	--	--	--	--	176	96	61	13	29
LG SEEDS	LG5618STXRIB	161	100	60	19	26	<b>198</b>	104	59	17	26	178	97	62	15	28
LG SEEDS	LG5643STX	<b>186</b>	116	58	18	21	<b>189</b>	99	59	16	28	206	112	61	16	29
LG SEEDS	LG5650STX	173	108	61	20	27	179	94	59	17	27	190	103	63	16	28
LG SEEDS	LG5663VT2PRIB	--	--	--	--	--	--	--	--	--	--	185	101	62	16	28
LG SEEDS	LG5700STX	165	102	57	17	25	<b>194</b>	102	58	18	25	158	86	60	15	27
MATURITY CHECK	EARLY	160	100	58	15	27	<b>191</b>	100	59	18	24	177	97	61	13	29
MATURITY CHECK	LATE	163	101	60	19	22	<b>190</b>	100	58	18	28	173	94	62	15	28
MATURITY CHECK	MED	160	99	59	19	25	<b>192</b>	101	57	16	28	187	102	63	16	28
MIDLAND	344PR	159	99	59	16	27	<b>199</b>	105	58	18	25	189	103	61	14	27
MIDLAND	347PR	171	106	58	16	27	<b>194</b>	102	59	18	25	185	101	60	13	27
MIDLAND	573PR	--	--	--	--	--	<b>194</b>	102	58	17	25	180	98	64	16	27
MIDLAND	594PR DG	164	102	58	18	25	<b>189</b>	99	59	16	27	205	112	60	15	28
MIDLAND	624PR	165	102	67	18	28	<b>197</b>	104	59	17	27	160	87	62	15	29
MIDLAND	757PR	<b>189</b>	118	60	20	27	<b>191</b>	100	59	17	26	206	112	62	16	29
MIDLAND	775PR DG	166	103	59	17	26	180	94	59	19	26	185	101	62	15	28
MORCORN	MC3544	157	98	59	16	26	<b>201</b>	106	58	17	28	178	97	60	13	28
MORCORN	MC3966	161	100	59	15	25	<b>187</b>	98	57	16	27	168	92	60	13	26
MORCORN	MC4178	163	102	60	18	24	<b>186</b>	98	59	15	27	181	99	60	15	28
MORCORN	MC4319	125	77	59	18	24	<b>184</b>	97	60	18	25	169	92	61	16	28
MORCORN	MCXP1504	158	98	59	16	22	<b>203</b>	107	59	18	25	167	91	61	14	28
MORCORN	MCXP1604	151	94	61	16	25	171	90	59	18	27	186	101	62	14	28
MORCORN	MCXP1606	170	106	59	17	27	<b>190</b>	100	59	17	27	180	98	61	14	28
MORCORN	MCXP1607	158	98	58	16	20	<b>184</b>	97	59	17	25	174	95	59	13	27
NUTECH	5F-015	171	107	60	19	25	<b>189</b>	99	59	18	24	207	113	63	16	29
NUTECH	5F-308	156	97	59	16	26	181	95	59	17	29	197	108	62	15	29
NUTECH	5F-510	172	107	60	17	25	<b>198</b>	104	58	17	27	147	80	62	15	26
NUTECH	5F-515	178	111	59	18	26	<b>195</b>	103	59	17	28	212	116	62	16	28
NUTECH	5F-709	155	96	58	17	25	<b>200</b>	105	58	17	26	166	91	61	14	28
NUTECH	5F-713	160	100	58	17	24	178	93	58	17	29	201	109	61	14	29
NUTECH	X5Z-1509	<b>187</b>	116	57	18	26	<b>193</b>	102	59	18	27	<b>232</b>	126	62	15	28
PHILLIPS	PSF 003 VT2 Pro	140	87	59	14	24	<b>193</b>	101	59	16	29	155	85	60	12	27
PHILLIPS	PSF 082 VT2 Pro	168	104	59	15	25	<b>189</b>	100	59	17	27	177	97	60	12	28
PHILLIPS	PSF 133 DG VT2 Pro	150	93	57	18	26	<b>195</b>	102	59	18	25	193	105	60	14	28
PHILLIPS	PSF 143 VT2 Pro	121	75	60	18	22	<b>184</b>	97	59	17	25	163	89	64	15	27
PHOENIX	5352A4	163	101	59	18	25	<b>195</b>	102	59	18	28	206	112	60	15	27
PHOENIX	6342A4	179	111	56	17	26	176	92	59	15	27	169	92	59	14	27
PHOENIX	6542A4	164	102	58	17	25	<b>182</b>	95	59	18	24	193	105	61	15	28
PHOENIX	6948A3	161	100	58	19	28	<b>193</b>	101	59	18	28	182	99	61	14	28
PRODUCERS	6738STXRIB	--	--	--	--	--	<b>183</b>	96	59	18	28	198	108	61	13	28
PRODUCERS	7268 STXRIB	--	--	--	--	--	<b>202</b>	106	59	17	29	160	87	62	16	25
PRODUCERS	7428STXRIB	--	--	--	--	--	<b>186</b>	98	60	17	29	--	--	--	--	--
PRODUCERS	7493VT2PRIB	--	--	--	--	--	177	93	59	18	27	179	98	61	15	28

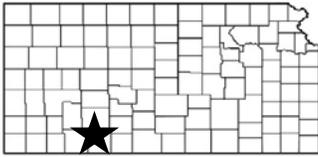
**TABLE 8 continued. SOUTH CENTRAL KANSAS IRRIGATED CORN PERFORMANCE TEST, 2016**

BRAND	NAME	MOUNDRIDGE, 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 (%)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	1000 ppa
	AVERAGE	161	100	59	17	25	190	100	59	17	27	183	100	61	15	28
	CV (%)	7	7	4	5	0	10	10	2	9	0	6	6	1	5	0
	LSD (0.05)	16	10	3	1	0	27	14	2	2	1	18	10	1	1	0

\*Seed treatment and hybrid traits located in Table 11.

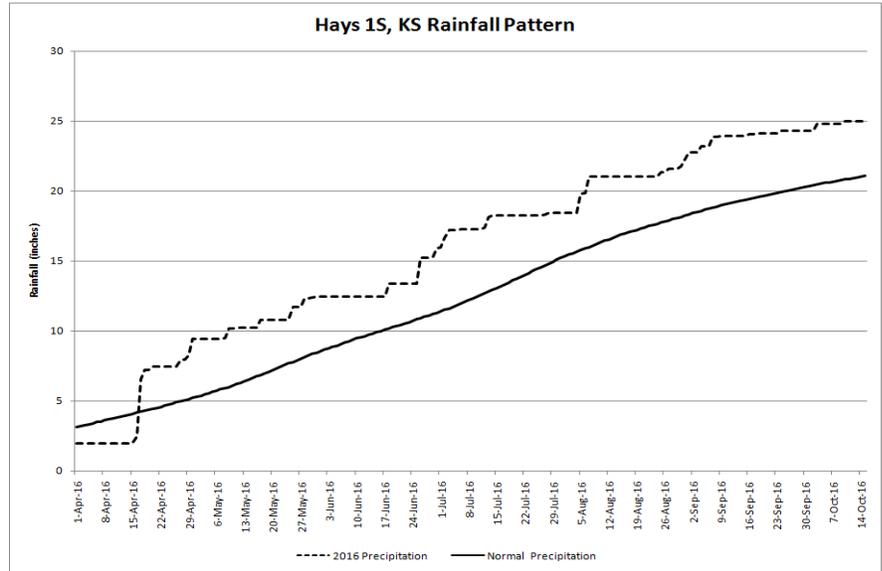
\*\*Yields in bold are not statistically different than the highest-yielding hybrid.

\*\*\*Yields must differ by more than the LSD value to be considered statistically different.

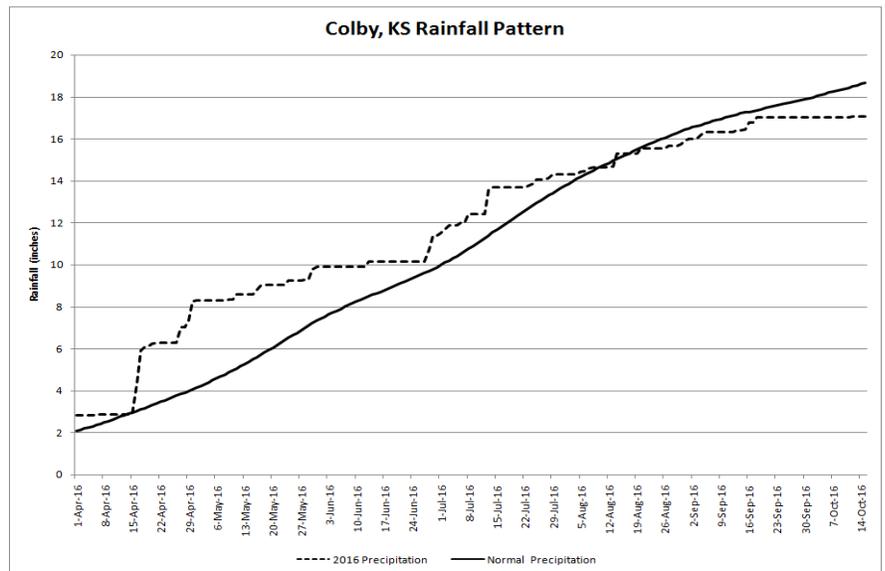


## WESTERN KANSAS DRYLAND CORN TESTS

**Hays, Ellis County**  
 Western Kansas Research Center  
 Planted: 5/13/2016  
 Harvested: 10/12/2016  
 100-0-0 lb/a N, P, K  
 Harney clay loam  
 Previous crop: wheat



**Colby, Thomas County**  
 K-State Northwest Research Center  
 Planted: 5/5/2016  
 Harvested: 9/27/2016  
 60-0-0 lb/a N, P, K  
 Keith silt loam  
 Previous crop: fallow



**Garden City, Finney County**  
 K-State Southwest Research Center  
 Abandoned due to irregular stands at planting.

**TABLE 9. WESTERN KANSAS DRYLAND CORN PERFORMANCE TEST, 2016**

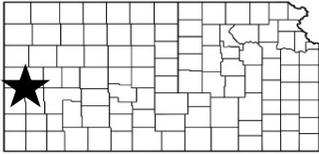
BRAND	NAME	HAYS, Ellis County						COLBY, Thomas County					
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	HEIGHT (in)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	HEIGHT (in)	1000 ppa
DEKALB	DKC51-20RIB	69	91	59	14	70	24	85	90	54	9	76	17
DEKALB	DKC60-69RIB	64	85	60	15	67	23	95	100	54	12	77	14
DEKALB	DKC66-59RIB	77	101	60	16	63	24	101	106	55	20	88	17
GOLDEN ACRES	C4173A	67	89	62	15	79	25	97	102	55	19	94	15
GOLDEN ACRES	G4678DG	88	117	58	17	75	25	93	98	54	20	88	17
MATURITY CHECK	EARLY	<b>103</b>	136	59	14	73	29	97	102	55	11	83	15
MATURITY CHECK	LATE	63	84	62	16	70	28	<b>114</b>	120	57	19	88	16
MATURITY CHECK	MED	67	88	62	16	69	28	99	104	57	17	88	16
PHILLIPS	PSF 003 VT2 Pro	51	68	59	15	63	24	--	--	--	--	--	--
PHILLIPS	PSF 082 VT2 Pro	73	96	60	15	66	28	80	84	55	12	74	17
PHILLIPS	PSF 133 DG VT2 Pro	86	113	60	16	82	27	96	102	54	19	88	17
PHILLIPS	PSF 143 VT2 Pro	62	82	61	16	50	25	<b>105</b>	111	55	16	82	14
PHOENIX	5352A4	77	102	62	14	81	27	66	69	56	16	92	18
PHOENIX	6342A4	84	111	59	17	80	29	<b>105</b>	111	52	19	87	15
PHOENIX	6542A4	<b>95</b>	126	59	18	79	29	<b>108</b>	114	54	17	93	17
PHOENIX	6948A3	84	111	58	18	81	30	<b>104</b>	109	54	21	83	11
PRODUCERS	6023VT2DGRIB	--	--	--	--	--	--	80	84	55	9	83	17
PRODUCERS	6108 STXRIB	--	--	--	--	--	--	95	100	56	11	79	17
PRODUCERS	6258STXRIB	--	--	--	--	--	--	85	90	55	9	78	16
PRODUCERS	6483VT2PRIB	--	--	--	--	--	--	99	104	56	12	81	17
	AVERAGE	76	100	60	16	72	27	95	100	55	15	84	16
	CV (%)	10	10	2	8	9	--	8	8	1	12	7	--
	LSD (0.05)	11	15	1	2	1	5	10	11	1	3	9	4

Garden City, Finney County test abandoned due to poor stands at planting.

\*Seed treatment and hybrid traits located in Table 11.

\*\*Yields in bold are not statistically different than the highest-yielding hybrid.

\*\*\*Yields must differ by more than the LSD value to be considered statistically different.



## WESTERN KANSAS IRRIGATED CORN TESTS

### Colby, Thomas County

K-State Northwest Research Center

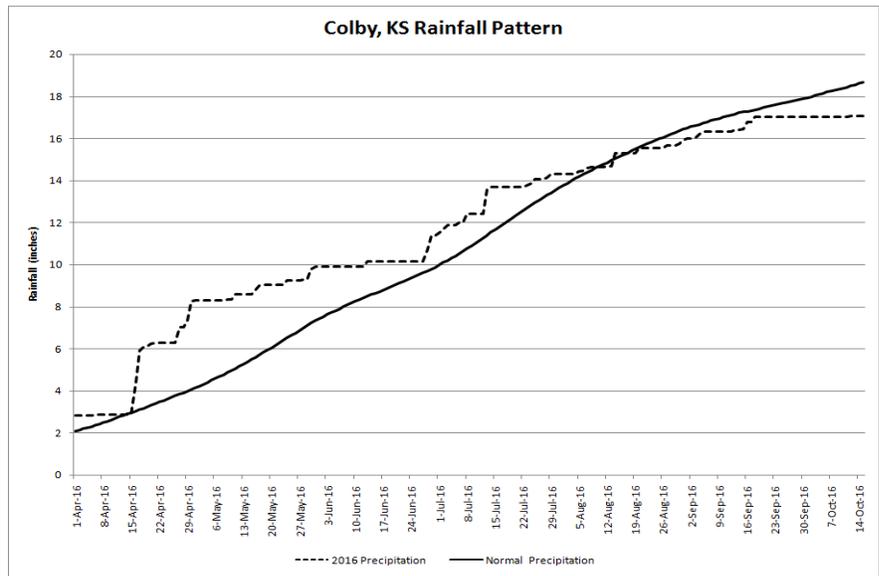
Planted: 5/5/2016

Harvested: 10/31/2016

230-50-0 lb/a N, P, K

Keith silt loam

Previous crop: fallow



### Tribune, Greeley County

K-State Southwest Research Center

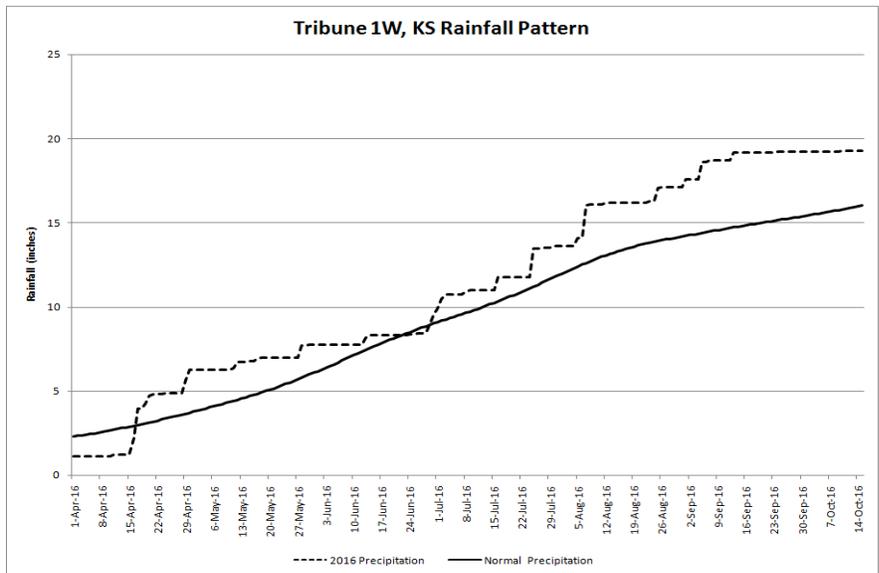
Planted: 4/27/2016

Harvested: 9/26/2016

250-350-0 lb/a N, P, K

Ulysess silt loam

Previous crop: fallow



### Garden City, Finney County

K-State Southwest Research Center

Abandoned due to irregular stands at planting.

**TABLE 10. WESTERN KANSAS IRRIGATED CORN PERFORMANCE TEST, 2016**

BRAND	NAME	COLBY, Thomas County							TRIBUNE, Greeley County						
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	HT (in)	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	HT (in)	1000 ppa
B-H GENETICS	BH 7646VT2P	<b>222</b>	105	56	15	71	100	29	--	--	--	--	--	--	--
B-H GENETICS	BH 8399VT2P	--	--	--	--	--	--	--	<b>227</b>	109	52	32	86	95	32
B-H GENETICS	BH 8590VT2P	214	101	57	18	71	105	28	202	97	54	28	84	90	30
B-H GENETICS	BH 8675VT2P	--	--	--	--	--	--	--	197	94	52	29	84	91	32
B-H GENETICS	BH 8688DG2P	<b>242</b>	114	55	16	72	101	26	<b>220</b>	105	52	31	84	93	31
DEKALB	DKC51-20RIB	154	73	55	14	70	99	30	202	97	55	19	81	87	38
DEKALB	DKC60-69RIB	190	89	56	15	69	99	27	<b>216</b>	103	53	25	83	87	38
DEKALB	DKC66-59RIB	<b>229</b>	108	56	18	72	104	30	<b>218</b>	104	53	34	85	93	35
GOLDEN ACRES	G2778VT2RIB	192	90	57	16	72	101	28	199	95	53	28	84	89	33
GOLDEN ACRES	G5788VT2PRO	189	89	56	15	72	99	25	<b>222</b>	106	53	33	86	90	40
GOLDEN ACRES	G6611	<b>218</b>	103	55	16	72	102	30	206	99	52	26	84	87	36
GOLDEN ACRES	G7601	<b>215</b>	101	56	16	73	110	28	<b>220</b>	105	51	35	86	96	39
GOLDEN ACRES	G7688	<b>240</b>	113	58	18	72	104	27	<b>220</b>	105	53	30	85	88	33
LG SEEDS	LG2602VT3PRIB	<b>231</b>	109	54	14	73	109	30	<b>217</b>	104	51	29	86	91	40
LG SEEDS	LG5548STXRIB	167	79	55	14	70	98	25	--	--	--	--	--	--	--
LG SEEDS	LG5618STXRIB	191	90	57	16	72	97	30	<b>214</b>	103	54	28	86	84	40
LG SEEDS	LG5643STX	<b>233</b>	110	55	15	74	103	28	201	96	52	29	85	93	33
LG SEEDS	LG5650STX	211	100	57	16	72	99	29	205	98	53	35	85	90	40
LG SEEDS	LG5700STX	--	--	--	--	--	--	--	198	95	51	35	86	85	40
MATURITY CHECK	EARLY	204	96	54	14	70	100	29	200	96	53	24	85	91	40
MATURITY CHECK	LATE	<b>236</b>	111	59	18	74	110	30	<b>218</b>	105	53	30	87	95	40
MATURITY CHECK	MED	<b>217</b>	102	58	17	72	106	29	199	95	53	30	87	94	40
NUTECH	5F-015	197	93	57	15	72	104	27	<b>217</b>	104	54	29	85	95	39
NUTECH	5F-308	<b>223</b>	105	56	15	73	106	31	199	95	54	25	85	89	36
NUTECH	5F-510	213	101	57	14	73	106	30	<b>223</b>	107	55	26	85	90	38
NUTECH	5F-713	<b>233</b>	110	56	15	73	112	29	<b>225</b>	108	52	31	86	98	40
PHILLIPS	PSF 082 VT2 Pro	<b>219</b>	103	55	13	71	100	27	205	98	52	25	83	92	31
PHILLIPS	PSF 133 DG VT2 Pro	<b>233</b>	110	55	15	73	101	25	200	96	52	30	84	92	28
PHILLIPS	PSF 143 VT2 Pro	<b>220</b>	106	53	32	85	86	39	200	95	57	18	72	96	28
PHOENIX	5352A4	<b>220</b>	104	56	15	72	111	28	<b>223</b>	107	51	26	84	96	33
PHOENIX	6342A4	<b>238</b>	112	55	15	74	108	30	<b>219</b>	105	48	29	87	93	31
PHOENIX	6542A4	<b>224</b>	106	55	17	74	109	28	<b>226</b>	108	50	28	86	97	31
PHOENIX	6948A3	<b>231</b>	109	57	18	74	106	30	202	97	53	26	86	98	38
PRODUCERS	6738STXRIB	148	70	55	14	69	97	30	--	--	--	--	--	--	--
PRODUCERS	7068 STXRIB	--	--	--	--	--	--	--	181	87	53	26	85	91	28
PRODUCERS	7268 STXRIB	198	94	57	16	72	95	28	205	98	53	29	85	86	31
PRODUCERS	7358 STXRIB	<b>215</b>	101	56	14	72	97	30	172	82	53	26	84	86	31
PRODUCERS	7493VT2PRIB	214	101	57	18	72	102	31	--	--	--	--	--	--	--
PRODUCERS	7668STXRIB	<b>217</b>	102	57	16	71	101	28	192	92	53	34	85	88	30
	Average	212	100	56	16	72	102	29	209	100	53	29	85	91	35
	CV (%)	9	9	1	6	1	4	12	5	5	1	6	1	4	3
	LSD (0.05)	27	13	1	1	1	6	5	16	7	1	3	1	5	2

**Garden City, Finney County test abandoned due to poor stands at planting.**

\* Seed treatment and hybrid traits located in Table 11.

\*\*Yields in bold are not statistically different than the highest-yielding hybrid.

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

**Table 11. Entries in the 2016 Kansas Corn Performance Tests\***

	SD	TRT*	GDD	DBL	RES	P	F		SD	TRT	GDD	DBL	RES	P	F
<b>AGRIGOLD</b>								<b>MATURITY CHECK</b>							
A6267STXRIB	ACC/VOT	102	2430	RR,CB,RW	--	Y	EARLY	PPST 250	--	--	--	--	--	--	--
A6413STXRIB	ACC/P500	107	2602	RRSTX	N	Y	LATE	PPST 250	--	--	--	--	--	--	--
A6499STXRIB	Acc/Vot	112	2800	RR, LL	Y	Y	MED	PPST 250	--	--	--	--	--	--	--
A6517VT3PRIB	ACC/VOT	113	2765	RR	Y	Y									
A6572VT2PRO	ACC/P500	114	2722	RRSTX	N	Y	<b>MIDLAND</b>								
A6619VT2RIBD1	ACC/VOT	114	2830	RR	Y	Y	134PR	C250	101	2510		VT3Pro	Y	Y	
A6652VT2PRO	ACC/P500	116	2692	RR-VT2P	N	Y	126PR	C250	103	2515		RR	Y	Y	
							344PR	C250	108	--		VT3Pro	Y	Y	
							347PR	C250	108	2740		RR, 2Pro	Y	Y	
<b>B-H GENETICS</b>							436VG	C250	110	2710		RR,LL	Y	Y	
BH 8399VT2P	P/V500	--	--	VT2P	--	--	534PR	C250	112	--		VT3Pro	Y	Y	
BH 8465SS	P/V500	--	--	SS	--	--	573PR	C250	112	2810		VT3Pro	Y	Y	
BH 8590VT2P	P/V500	--	--	VT2P	--	--	656PR	C250	113	2595		RR	Y	Y	
BH 8675VT2P	P/V500	--	--	VT2P	--	--	653PR	C250	113	2760		VT3Pro	Y	Y	
BH 8783VIP3111	P/V500	--	--	VIP3111	--	--	594PR DG	C250	113	2840		RR	Y	Y	
BH 7646VT2P	P/V500	106	--	GENVT2P	--	--	624PR	C250	114	--		VT3Pro	Y	Y	
BH 8688DG2P	P/V500	115	--	DG2P	--	--	775PR DG	C250	114	2770		RR	Y	Y	
							714PRW	C250	115	2825		VT3Pro	Y	Y	
<b>DEKALB</b>							757PR	C250	115	2825		RR,2Pro	Y	Y	
DKC51-20RIB	ACC/VOT	101	--	--	--	--	735PR	C250	115	2860		RR	Y	Y	
DKC60-69RIB	ACC/VOT	110	--	--	--	--									
DKC66-59RIB	ACC/VOT	116	--	--	--	--									
							<b>MORCORN</b>								
<b>GOLDEN ACRES</b>							MC2583	ACC250	--	--		CBRR	N	--	
C4173A	C500	109	2450	RR,CB,RW	N	N	MC3295	ACC250	--	--		DGCBRR	N	--	
G2778VT2RIB	C500	112	2500	RR/CB	N	Y	MC4178	ACC250	--	--		CBRR	N	--	
G4678DG	ACC/V500	114	2600	VT3P	N	Y	MC4319	ACC250	--	--		CBRR	N	--	
G5788VT2PRO	C500	115	2610	RR/CB	N	Y	MCXP-1501	ACC250	--	--		RR	--	--	
G6611	ACC/VOT	116	2670	VT3P	N	Y	MCXP1504	ACC250	--	--		CBRRLLRW	N	--	
G7601	ACC/VOT	117	2700	VT3P	N	Y	MCXP1601	ACC250	--	--		CBRR	N	--	
G7688	ACC/VOT	117	2700	RR,CB,RW	N	Y	MCXP1604	ACC250	--	--		CBRRRW	N	--	
							MCXP1606	ACC250	--	--		CBLLRR	N	--	
<b>GOLDEN HARVEST</b>							MCXP1607	ACC250	--	--		CBRR	N	--	
G12J11	AVICTA	--	--	--	--	--	MC3022	ACC250	100	--		RR	--	--	
G07B39-3111A	AVICTA	107	2570	3111A	Y	Y	MC3544	ACC250	105	--		RR	--	--	
G07F23-3111	AVICTA	107	2570	3111	Y	Y	MC3966	ACC250	109	--		RR	--	--	
G10S30-3111	AVICTA	110	2570	3111	Y	Y									
G11F16-3111A	AVICTA	111	2590	3111A	Y	Y	<b>NUTECH</b>								
G12W66-3000	AVICTA	112	2620	3000	Y	Y	5F-015	P500/VOT	--	--		--	--	--	
G13N18-3111	AVICTA	113	2630	3111	Y	Y	5F-113	P500/VOT	--	--		--	--	--	
G14V04-3010	AVICTA	116	2690	3111	Y	Y	5F-308	P500/VOT	--	--		--	--	--	
G18D87-3111	AVICTA	118	2690	3111	Y	Y	5F-510	P500/VOT	--	--		--	--	--	
							5F-515	P500/VOT	--	--		--	--	--	
<b>LG SEEDS</b>							5F-701	P500/VOT	--	--		--	--	--	
LG5548STXRIB	P500/VOT	109	2575	STXRIB	Y	Y	5F-713	P500/VOT	--	--		--	--	--	
LG2602VT3PRIB	P500/VOT	112	2700	VT3PRO	--	Y	5H-905	P500/VOT	--	--		HX1/RR2/LL	N	N	
LG5618STXRIB	P500/VOT	112	2720	STXRIB	--	Y	5Z-503	P500/VOT	--	--		--	--	--	
LG5607VT2RIB	P500/VOT	112	2795	VT3PRIB	--	Y	5Z-601	P500/VOT	--	--		--	--	--	
LG5643STX	P500/VOT	114	2690	STX	Y	Y	X5Z-1001	P500/VOT	--	--		--	--	--	
LG5650STX	P500/VOT	115	2750	STX	Y	Y	X5Z-1509	P500/VOT	--	--		--	--	--	
LG5663VT2PRIB	P500/VOT	115	2750	VT2PRIB	N	Y	5F-200	P500/VOT	--	2460		C	N	N	
LG5700STX	P500/VOT	116	2680	STX	Y	Y									

**Table 11 continued. Entries in the 2016 Kansas Corn Performance Tests**

	SD TRT*	GDD	DBL	RES	P	F
<b>NUTECH</b>						
5F-709	P500/VOT	--	2640	CB	N	N
5F-811	P500/VOT	--	2680	CB	N	Y
<b>PHILLIPS</b>						
PSF 003 VT2 Pro	ACC	100	2510	CB VT2PRO	--	--
PSF 082 VT2 Pro	ACC	108	2766	VT3P	--	Y
PSF 133 DG VT2 Pro	ACC	113	2867	RR, CB	--	--
PSF 143 VT2 Pro	ACC	114	2850	CB	--	--
<b>PHOENIX</b>						
5352A4	AVICTA	--	--	3111	N	Y
6342A4	AVICTA	--	--	3111	N	Y
6542A4	AVICTA	--	--	3111	N	Y
6948A3	AVICTA	114	2630	3000GT	N	Y
<b>PRODUCERS</b>						
6023VT2DGRIB	P/VOT500	100	2455	RR,CB	Y	Y
6108 STXRIB	P/VOT500	101	2470	VT3PRIB	Y	N
6258STXRIB	P/VOT500	102	2525	RR,LL,CB,RW	N	Y
6483VT2PRIB	P/VOT500	104	2545	RR,CB	N	Y
6738STXRIB	P/VOT500	107	2610	RR,LL,CB	N	Y
7068 STXRIB	P/VOT500	110	2690	RR,LL,CB	N	Y
7268 STXRIB	VOT	112	2600	STXRIB	Y	Y
7358 STXRIB	P/VOT500	113	2730	RR,LL,CB	N	Y
7428STXRIB	P/VOT500	114	2780	RR,LL,CB	N	Y
7493VT2PRIB	P/VOT500	114	2785	RR,CB	N	Y
7668STXRIB	P/VOT500	116	2825	RR,LL,CB	N	Y

\* SD TRT = Seed treatment (C=Cruiser, ACC=Accelaron, 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, VT2, YG, YG1, YG+, YGCB, BtRW, RW, YGRW, 3000GT, 3111]; LL = Liberty Link; RR = Roundup Ready; ; P = prolific; F = flex ear. Values provided by entrants.

To access crop performance testing information electronically, visit our website. The information contained in this publication, plus more, is available for viewing or downloading at:

**[www.agronomy.k-state.edu/services/crop-performance-tests/index.html](http://www.agronomy.k-state.edu/services/crop-performance-tests/index.html)**

Excerpts from the  
University Research Policy Agreement with Cooperating Seed Companies

Permission is hereby given to Kansas State University (KSU) to test varieties and/or hybrids designated on the attached entry forms in the manner indicated in the test announcements. I certify that seed submitted for testing is a true sample of the seed being offered for sale.

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