

2008

Kansas Performance Tests with

Corn Hybrids

Report of Progress 1000



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

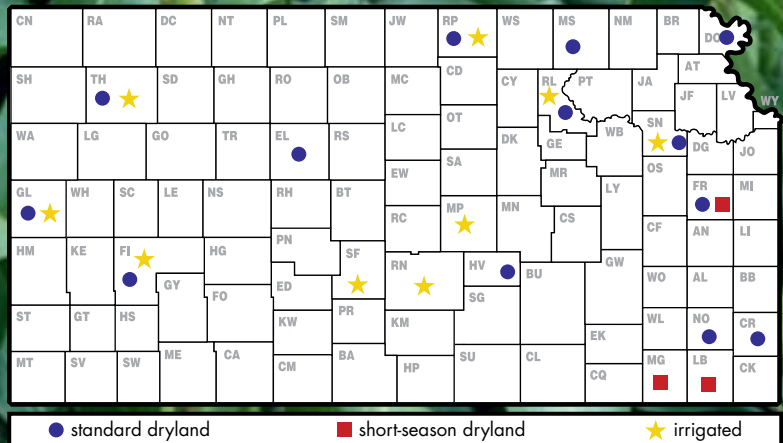


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2008 CORN CROP REVIEW

Statewide Growing Conditions

The 2008 growing season was delayed by widely spread rains and wet soil conditions until later in the spring (Figure 1). Frequent rains and cooler than normal temperatures continued through June and July. The end of July brought drier weather, causing some stress to the rapidly developing corn. Rains and cool weather returned in October, and many acres of corn were subjected to freezing temperatures before reaching maturity. Harvest was delayed into November for some areas of Kansas. Condition of the 2008 corn crop was, for the most part, rated as good or fair throughout the growing season (Figure 2).

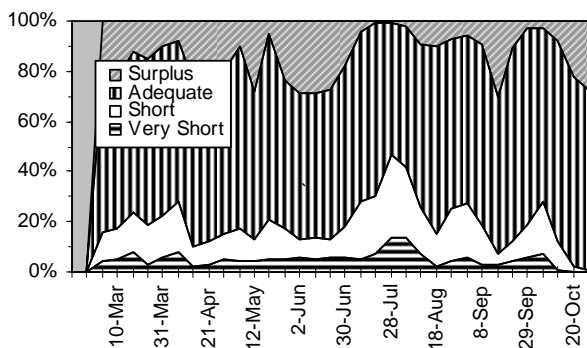


Figure 1. Statewide status of topsoil moisture

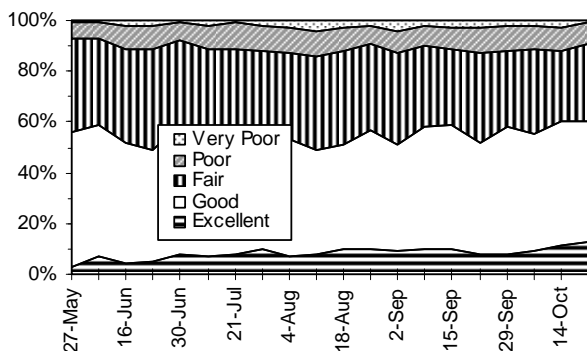


Figure 2. Condition of 2008 Kansas corn crop

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

Harvest Statistics

The October 10 Crops Report predicted a 493.2 million-bushel crop, down 5% from last year. In 2008, 3.6 million acres were harvested for grain, down 3% from 2007. The predicted average yield of 137 bushels per acre is 3 bushels less than the previous year. (Kansas Agricultural Statistics Service, Topeka)

Diseases

Several diseases had economic effects on the 2008 Kansas corn crop. Most notable was gray leaf spot (GLS). This disease was prevalent over a wide area of the state; the most significant levels were reported from the Kansas River valley and south central Kansas. In some fields planted to susceptible hybrids, GLS lesions could be found on leaves above the ear at silking.

Southern rust was also of economic significance in 2008. This disease, which blows in from the South each year, arrived at least 2 weeks earlier than normal. Fungicide applications were needed in late fields planted to susceptible hybrids.

Common rust was also present at levels far above normal. Research on this disease, however, indicates that fungicide control is rarely beneficial because of its relatively small effect on yield.

Above average levels of stalk rot were being reported from around the state as harvest began. Both *Fusarium* stalk rot and charcoal rot have been identified.

Other diseases reported in 2008 included *Physoderma* brown spot, wheat streak mosaic virus, anthracnose, head smut, common smut, *Diplodia* ear rot and Goss's bacterial wilt. Though perhaps important in individual fields, none of these diseases occurred on a widespread basis. (Doug Jardine, Kansas State University Department of Plant Pathology)

Insects

Problems from early season corn pests were scattered throughout the state. Some reports of wireworm damage and white grub-reduced stands were noted in the eastern half of the state.

Spider mite populations started to become apparent in early July in western Kansas, but cooler weather settled in and populations seemed to decline.

Many reports of fall armyworm problems were received from late planted corn, but overall, corn insect pests were about average, or even a little less, throughout the state. For the most part, corn producers seem to be doing a good job of managing perennial corn insect pests. (Jeff Whitworth, Kansas State University Department of Entomology)

2008 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. Many companies submit seed treated with systemic insecticides (Cruiser, Maxim, Poncho) that can affect yield in some situations. A column listing insecticide seed treatments for each hybrid in Table 16 is included to help interpret yield results.

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 preceding data summaries for each test. Tables 2 through 15 contain results from the individual performance tests. Hybrids are listed together by company name.

Figures 3 through 9 graphically summarize yield and maturity information over the past few years for each region. Relative maturity is measured in terms of both number of days from planting to silking and grain moisture at harvest and can be critical when considering a corn hybrid for a specific cropping system. The number beside each bar shows the number of tests in which a given hybrid was compared with the check hybrids. In general, the greater the number of comparisons, the greater confidence one can place in the stated performance of that hybrid. Symbols beside each bar indicate whether a hybrid was significantly greater (+) or less (-) than the average of the check hybrids.

A summary of growing season weather data is given for individual test discussions. Precipitation graphs include cumulative lines for 2008 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 is also included.

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

Most corn tests were planted at a rate 10 to 20% in excess of the desired population and thinned only to remove doubles. Planting to stand enables evaluation of product performance for the entire growing season.

Grain yields are reported as bushels per acre of shelled grain (56 lb/bu) adjusted to a moisture content of 15.5%. Yields also are presented as percentage of test average to speed recognition of highest-yielding hybrids. Hybrids yielding more than 100% of the test average year after year merit consideration. Adaptation to individual farms for appropriate maturity, stalk strength, and other factors also must be considered.

The percentage of lodged stalks is reported when appropriate. Severely lodged stalks or dropped ears that could not be picked up by normal harvest procedures were not included in yield. Because harvest often is delayed until latest-maturing entries are ripe, early and mid-season hybrids can lose ears simply because they must wait well past their optimum harvest date. In most years at most locations, dropped ears constitute a very small portion of lodging and do not significantly affect yields.

Small differences in yield should not be overemphasized. Relative ranking and large differences are better indicators of performance. Least significant differences (LSD) are shown at the bottom of each table. Unless two hybrids differ by at least the LSD shown, little confidence can be placed in one being superior to the other. Yield values in the top LSD group in each test are displayed in bold. The coefficient of variability (CV) can be used in combination with the LSD to estimate the degree of confidence one can have in published data from replicated tests.

Table 1. Companies entering hybrids in the 2008 Kansas Corn Performance Tests

AgriGold Hybrids St. Francisville, IL 618-943-5776 agrigold.com	Kruger Seed Co. Dike, IA 319-989-2414 krugerseed.com	NuTech Seed, LLC Forest City, IA 641-581-3350 info@yieldleader.com	Renze Hybrids Inc. Carroll, IA 800-634-2676 renzehybrids.com
AgVenture of Eastern KS, LLC Iola, KS 620-228-3148	Lewis Hybrids, Inc. Ursa, IL 217-964-2131 lewishybrids.com	Ottilie RO Seed Marshalltown, IA 800-798-6884 ottiliero@hughes.net	Stine Seed Co. Adel, IA 317-758-0800
DeKalb (Monsanto Seed) St. Louis, MO 314-694-1000 monsanto.com	LG Seeds Elmwood, IL 800-752-6847 lgseeds.com	Pfister Hybrid Corn Co. El Paso, IL 888-647-3478 pfisterhybrid.com	Sylvester Ranch Inc. Ottawa, KS 785-242-3598 info@sylvesterseed.com
Dyna-Gro Goodard, KS 800-950-2231 uap.com	MFA Incorporated Columbia, MO 573-876-5482 mfa-inc.com	Phillips Seed Farms, Inc Hope, KS 785-949-2204 info@phillipsseed.com	Taylor Seed Farms, Inc. White Cloud, KS 785-595-3236 taylorseedfarms.com
Fielder's Choice (Grow Direct) Monticello, IN 800-321-3177 fielderschoicedirect.com	Midland Genetics Group Ottawa, KS 785-242-3598 info@midlandgenetics.com	Pioneer Hi-Bred Intl., Inc. Lincoln, NE 402-467-5458 pioneer.com	Triumph Seed Co., Inc. Ralls, TX 800-530-4789 triumphseed.com
Fontanelle Hybrids Fremont, NE 402-721-8567 fontanelle.com	Mycogen Seeds Indianapolis, IN 1-800-MYCOGEN mycogen.com	Premium Seed, Inc. Berwick, IL 309-462-2396 premiumseed.com	
G2 Genetics by NuTech Forest City, IA 641-581-3350 info@yieldleader.com	NC+/Midwest (Channel Bio Corp.) Lincoln, NE 800-279-4217	Producers Hybrids Battle Creek, NE 888-675-3190 producershybrids.com	

NORTHEAST KANSAS DRYLAND CORN TESTS

Al Fuhrman Farm, Severance; Fuhrman Farms, Inc.

Ulysses silt loam; Soybeans in 2007

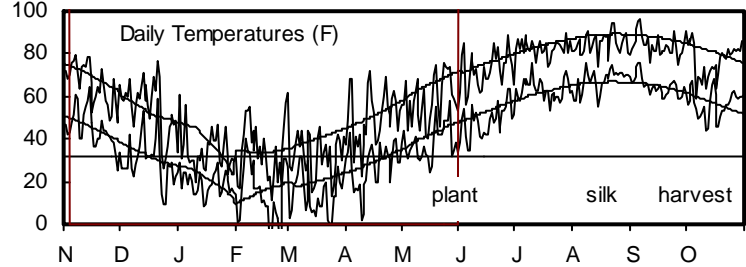
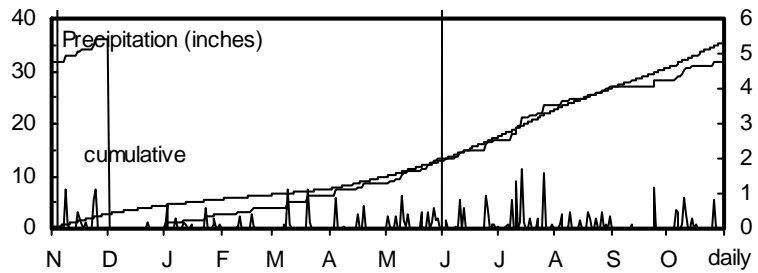
110 - 0 - 0 lb/a N, P, K

Planted on 5/1/2008; Harvested on 10/3/2008

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

Frequent rains and milder summer temperatures led to good yields.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	8.5	7.1	31	34	231	34
April	4.8	3.1	49	54	164	231
May	3.5	4.5	61	64	393	447
June	6.8	5.0	73	73	686	688
July	3.3	4.2	76	78	782	813
August	1.3	4.0	74	76	735	781
Oct.	8.0	7.6	61	63	771	551
Totals:	36.2	35.4	51	53	3,760	3,545



Randy Jacobson Farm, Waterville; Randy Jacobson, farmer/cooperator

Kipson silty clay loam; Soybeans in 2007

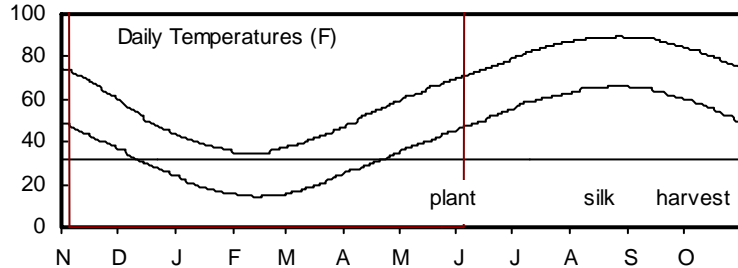
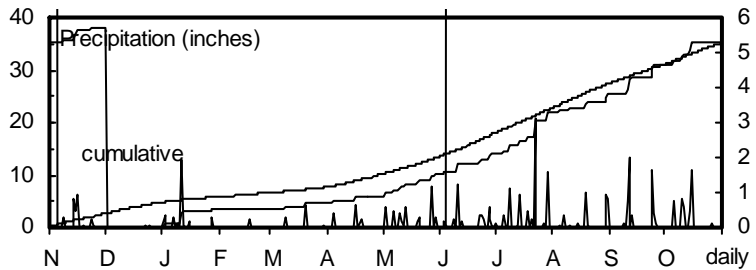
110 - 0 - 0 lb/a N, P, K

Planted on 5/5/2008; Harvested on 10/4/2008

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

Extremely heavy rains after planting affected emergence and stands.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	6.1	7.6	33	33	58	58
April	4.3	3.2	53	53	223	223
May	3.7	4.6	62	62	400	400
June	8.1	4.6	72	72	656	656
July	3.4	4.7	77	77	792	792
August	5.4	3.8	75	75	763	763
Oct.	7.2	6.5	61	61	518	518
Totals:	38.1	35.0	53	53	3,409	3,409



NORTHEAST KANSAS DRYLAND CORN TEST continued.

Agronomy North Farm, Manhattan; Jane Lingenfelter, agronomist

Reading silt loam; Soybeans in 2007

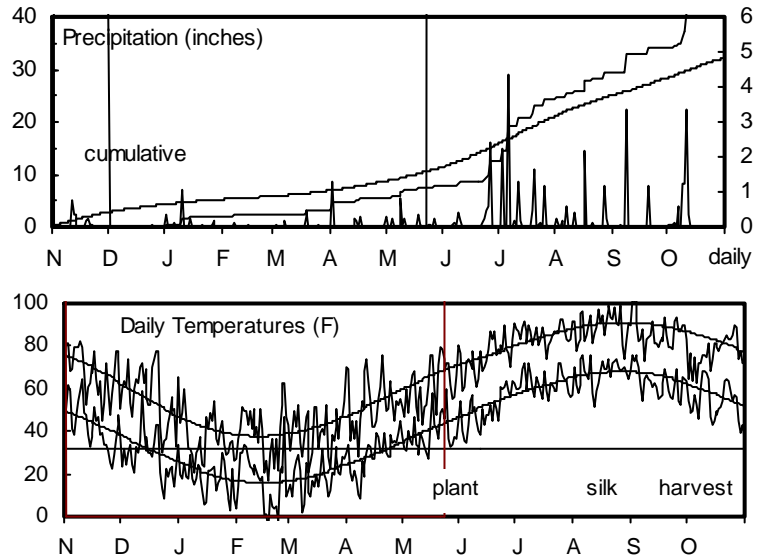
90 - 0 - 0 lb/a N, P, K

Planted on 4/23/2008; Harvested on 10/1/2008

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

Good growing conditions for most of the growing season; some stress during pollination.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	5.6	6.0	34	35	284	57
April	2.1	2.6	51	53	200	237
May	4.8	4.5	63	64	454	441
June	12.0	5.1	74	73	699	685
July	5.1	4.0	78	79	806	823
August	4.6	3.5	74	78	707	801
Oct.	9.0	6.4	60	63	806	587
Totals:	43.2	32.1	53	54	3,956	3,628



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

Crete silt loam; Soybeans in 2007

180 - 30 - 10 lb/a N, P, K

Planted on 5/8/2008; Harvested on 10/20/2008

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

Very wet spring delayed planting into early May. Some moisture stress in the 2nd half of July.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	9.6	4.8	33	32	278	25
April	7.5	2.3	51	52	226	217
May	5.0	3.7	64	63	467	421
June	3.4	4.6	74	73	693	679
July	4.5	3.4	79	78	816	807
August	0.0	3.4	75	77	726	780
Oct.	0.0	5.3	61	62	794	538
Totals:	30.0	27.4	52	52	4,000	3,468

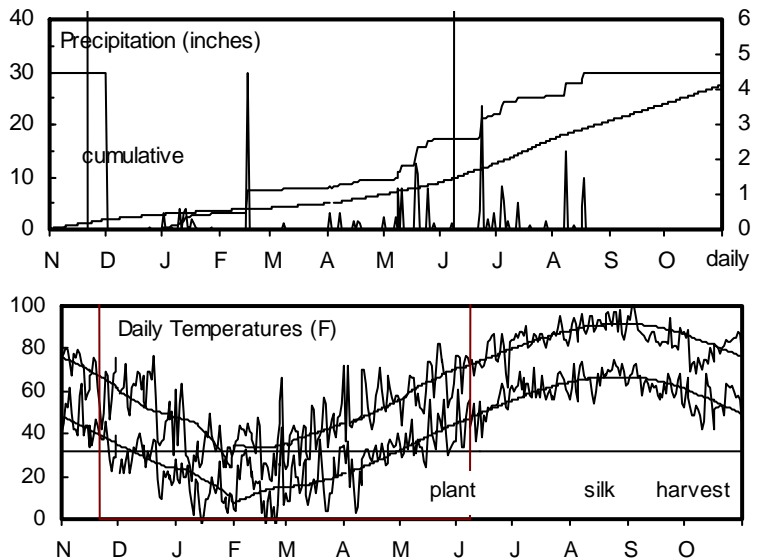


TABLE 2 continued. NORTHEAST KANSAS DRYLAND CORN PERFORMANCE TESTS, 2008

BRAND	NAME	MANHATTAN, Riley County					SEVERANCE, Doniphan County					WATERVILLE, Marshall County					BELLEVILLE, Republic County								
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS	1000 ppa	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS	1000 ppa
RENZE	1499VT3	185	99	58	17	76	22.0	207	104	55	19	73	20.5	153	104	58	17	18.7	--	--	--	--	--	--	--
RENZE	1526VT3	204	109	58	17	78	21.3	215	109	56	19	75	19.4	154	105	57	17	18.1	--	--	--	--	--	--	--
RENZE	5X347HXTALL	186	99	58	17	78	23.2	192	97	56	19	73	25.3	143	98	58	17	15.5	--	--	--	--	--	--	--
RENZE	5X389HXTALL	189	100	58	17	75	21.4	195	99	56	17	72	19.3	159	109	58	15	16.5	--	--	--	--	--	--	--
RENZE	5X479HXTALL	170	90	58	17	77	21.8	175	88	55	19	73	19.4	130	89	58	17	17.6	--	--	--	--	--	--	--
SYLVESTER	417B1	--	--	--	--	--	--	--	--	--	--	--	--	143	98	57	17	--	--	--	--	--	--	--	--
SYLVESTER	417HL	202	107	57	17	78	21.8	--	--	--	--	--	--	--	--	--	--	--	152	86	58	16	70	24.2	
SYLVESTER	436BT	194	103	57	18	79	22.6	--	--	--	--	--	--	149	102	57	16	0.0	177	100	59	15	71	28.0	
SYLVESTER	638RR	--	--	--	--	--	--	--	--	--	--	--	--	170	116	61	17	--	--	--	--	--	--	--	--
SYLVESTER	658HL	200	106	57	17	78	23.7	--	--	--	--	--	--	152	104	54	17	0.0	183	103	59	17	72	25.0	
SYLVESTER	697BT	201	107	56	16	78	25.2	--	--	--	--	--	--	140	96	57	18	0.0	179	101	58	16	69	26.3	
SYLVESTER	715BRW	202	108	58	17	78	24.5	--	--	--	--	--	--	--	--	--	--	--	189	107	59	17	69	25.8	
SYLVESTER	779BT	180	96	57	17	79	22.9	--	--	--	--	--	--	147	101	58	16	0.0	171	96	59	16	70	25.2	
SYLVESTER	7A28BR	204	108	58	18	77	21.9	--	--	--	--	--	--	156	107	57	17	0.0	180	102	58	16	73	24.8	
SYLVESTER	7A58BR	172	91	57	17	78	22.3	--	--	--	--	--	--	159	108	57	18	0.0	192	108	57	18	71	25.3	
TAYLOR	644	--	--	--	--	--	--	196	99	58	18	73	21.6	--	--	--	--	--	--	--	--	--	--	--	--
TAYLOR	2230	186	99	58	17	76	24.1	222	112	57	18	73	22.0	141	96	58	16	19.9	183	103	59	17	72	25.8	
TAYLOR	2260	--	--	--	--	--	--	--	--	--	--	--	--	139	95	57	17	16.7	--	--	--	--	--	--	--
TAYLOR	C-113-08	--	--	--	--	--	--	223	113	58	18	73	25.6	148	101	60	16	15.5	--	--	--	--	--	--	--
TAYLOR	C-114-08	--	--	--	--	--	--	--	--	--	--	--	--	141	96	59	16	16.8	--	--	--	--	--	--	--
TAYLOR	C-36112	--	--	--	--	--	--	179	91	57	17	75	20.1	--	--	--	--	--	--	--	--	--	--	--	--
TRIUMPH	1608VT3	--	--	--	--	--	--	--	--	--	--	--	--	137	93	58	17	16.1	155	87	58	17	69	24.2	
TRIUMPH	1706VT3	--	--	--	--	--	--	207	105	56	20	78	20.1	--	--	--	--	--	--	--	--	--	--	--	--
TRIUMPH	1802CBRR	208	105	55	23	79	22.0	--	--	--	--	--	--	--	--	--	--	--	170	96	58	18	74	24.1	
AVERAGE	(bu/a)	188	188	58	17	77	22.7	198	198	57	18	73	21.2	147	147	58	16	17.3	178	178	58	16	70	25.4	
CV (%)		8	8	2	6	1	5	7	7	1	3	2	6	7	7	1	4	5	7	7	2	1	2	6	
LSD (0.05)		21	11	2	2	1	1.7	22	11	1	1	3	2.0	14	9	1	1	1.3	21	12	2	0	2	2.3	

* Seed treatments and hybrid traits located in Table 16.

** Yields in bold are 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 3. NORTHEAST KANSAS DRYLAND MULTI-YEAR YIELD PERCENT OF TEST AVERAGES, 2006-2008

BRAND	NAME	Manhattan, Riley County					Severance, Doniphan County					Belleville, Republic County				
		2008 (%)	2007 (%)	2006 (%)	2-Yr. Avg. (%)	3-Yr. Avg. (%)	2008 (%)	2007 (%)	2006 (%)	2-Yr. Avg. (%)	3-Yr. Avg. (%)	2008 (%)	2007 (%)	2006 (%)	2-Yr. Avg. (%)	3-Yr. Avg. (%)
FONTANELLE	7851YGCB	106	100	103	104	103	--	--	--	--	--	--	--	--	--	--
KRUGER	K-8616Hx	95	93	98	94	96	93	91	97	92	94	--	--	--	--	--
MAT CHK	FULL-R8526YGCB	90	108	104	99	101	88	101	116	95	102	112	--	--	--	--
MAT CHK	SHRT-DKC50-20	104	92	78	98	91	82	87	89	85	86	106	92	--	99	--
MIDLAND	MG 436B1	--	--	--	--	--	101	103	105	102	103	--	--	--	--	--
MIDLAND	MG 7A28BR	--	--	--	--	--	108	94	95	102	99	--	--	--	--	--
MIDLAND	MG7A58BR	--	--	--	--	--	105	102	104	103	104	--	--	--	--	--
NUTECH	OC-616	--	--	--	--	--	106	104	107	105	106	--	--	--	--	--
AVERAGE (bu/a)		188	155	179	171	174	198	177	188	187	188	178	148	--	163	--
CV (%)		8	9	7	7	7	7	7	9	7	8	7	8	--	8	--
LSD (.05)		11	19	17	11	11	21	23	11	11	12	19	19	--	19	--

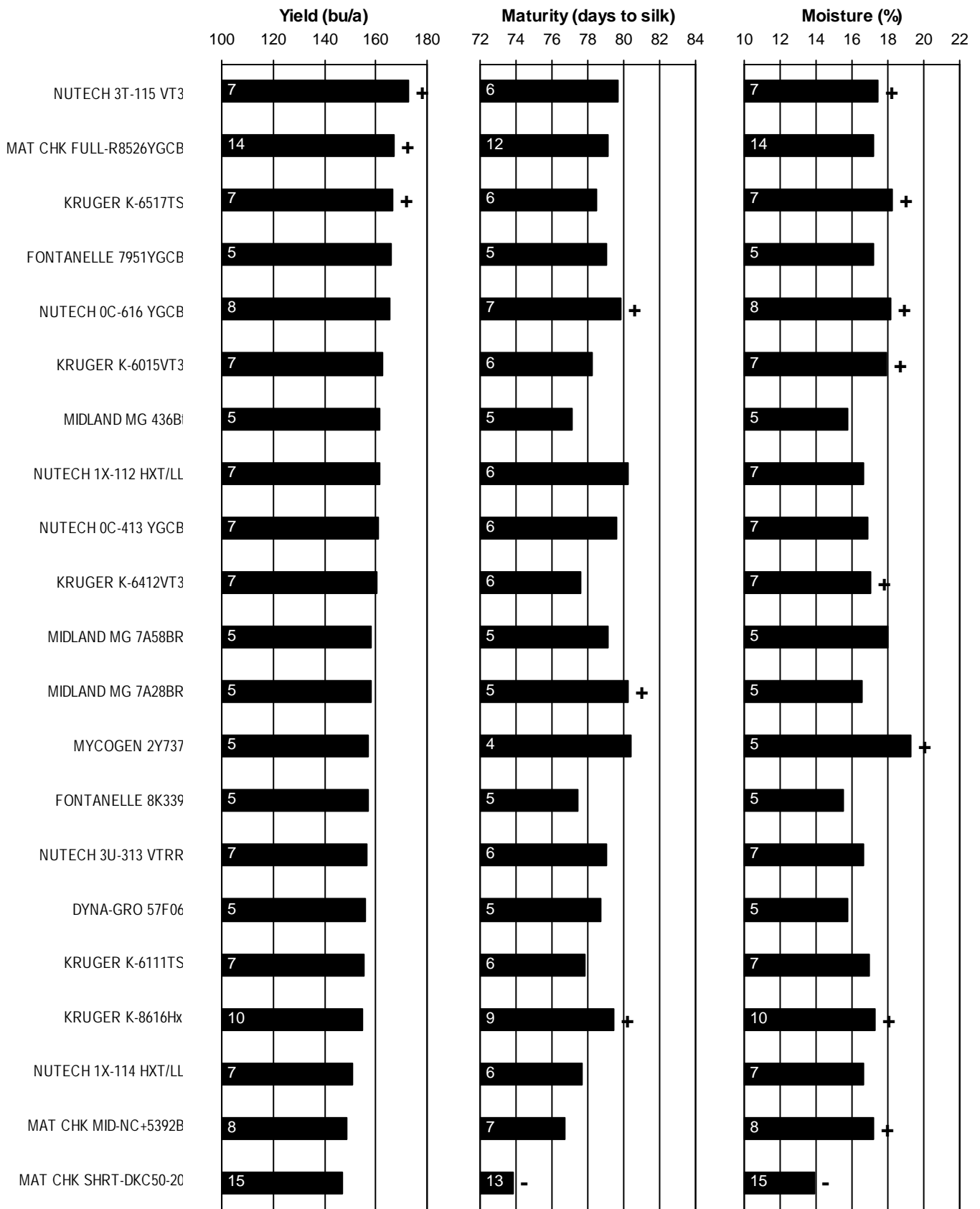


Figure 3. NORTHEAST Kansas Dryland corn hybrid standardized performance summary, 2004-2008

Values within bars indicate the number of comparisons with checks. Symbols (+, -) indicate if statistically higher or lower than mean of checks.

NORTHEAST KANSAS SPRINKLER-IRRIGATED CORN TEST

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

Eudora silt loam; Soybeans in 2007

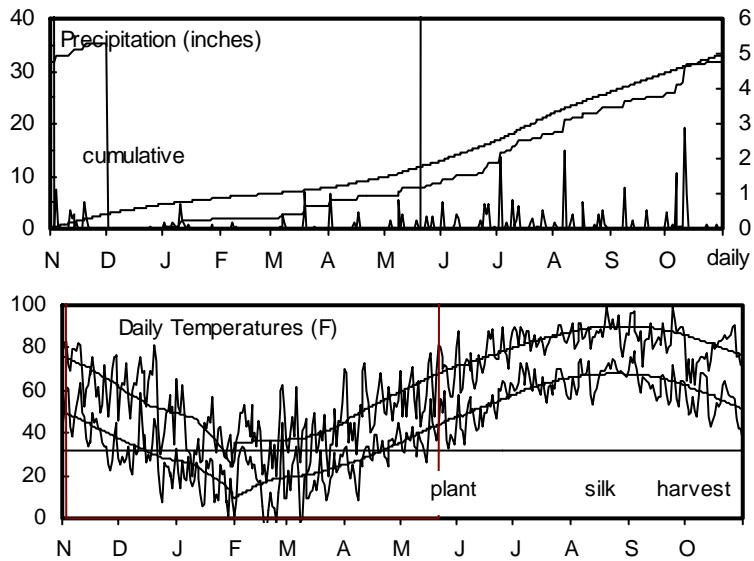
90 - 0 - 0 lb/a N, P, K

Planted on 4/21/2008; Harvested on 10/2/2008

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

Generally good growing conditions throughout the season.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	6.2	7.0	34	34	303	50
April	2.6	3.0	51	54	208	236
May	3.8	3.9	64	64	465	444
June	5.6	5.1	74	73	713	698
July	5.2	4.1	77	78	803	827
August	2.5	3.7	75	77	721	802
Oct.	9.6	6.2	60	63	809	571
Totals:	35.4	33.0	53	54	4,023	3,627



John Kramer Farm, Manhattan; John Kramer Farm

Eudora silt loam; Grain Sorghum in 2007

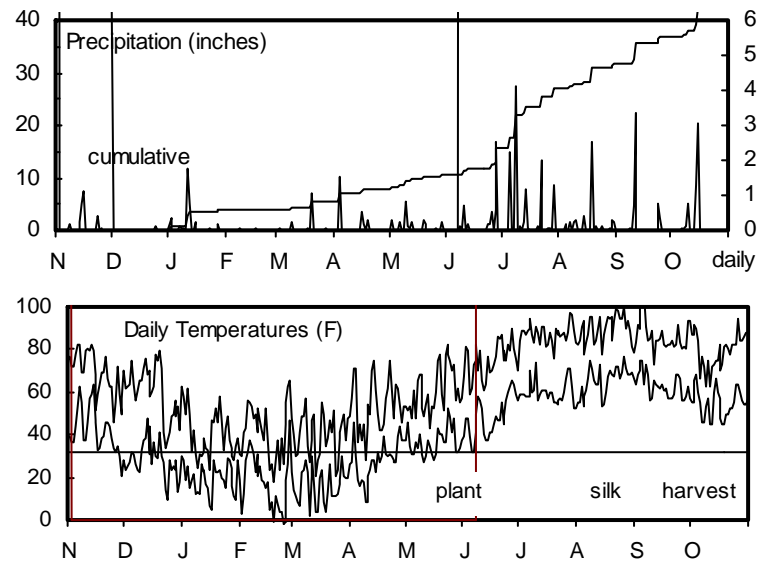
110 - 30 - 0 lb/a N, P, K

Planted on 5/8/2008; Harvested on 10/2/2008

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

Yields were affected by two hailstorms and a tornado in early summer.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	8.0		34		330	
April	2.5		49		173	
May	5.0		62		440	
June	11.4		74		674	
July	4.7		77		774	
August	5.3		75		719	
Oct.	8.2		61		834	
Totals:	45.2		53		3,944	



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

Crete silt loam; Soybeans in 2007

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

Planted on 5/1/2008; Harvested on 10/30/2008

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

Tornado on May 29 affected growth of crop for some time.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	4.4	4.9	32	35	257	
April	3.4	1.7	49	38	175	22
May	3.9	2.3	62	52	420	221
June	4.7	3.6	73	63	666	403
July	5.0	4.7	78	73	789	697
August	3.9	3.4	72	78	671	807
Oct.	8.6	6.8	60	73	777	1319
Totals:	34.0	27.4	51	52	3,755	3,468

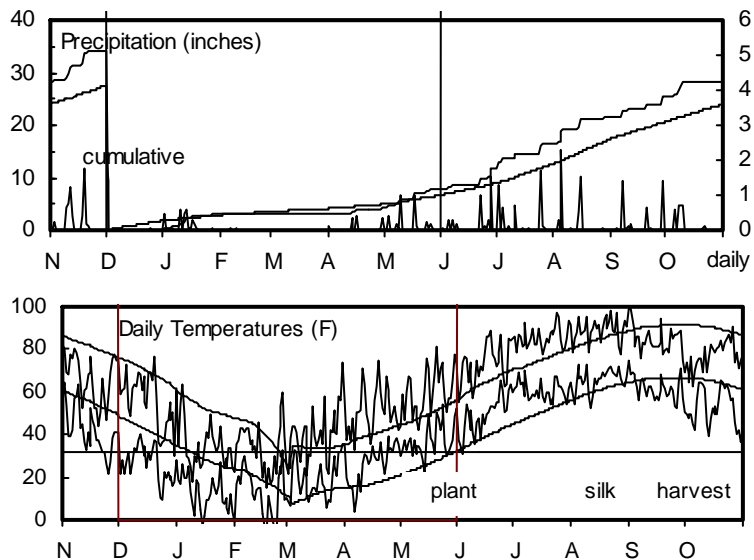


TABLE 4 continued. NORTHEAST KANSAS SPRINKLER-IRRIGATED CORN PERFORMANCE TESTS, 2008

BRAND	NAME	TOPEKA, Shawnee County					1000 ppa	OGDEN, Riley County					1000 ppa	SCANDIA, Republic County					1000 ppa
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	
TRIUMPH	1608VT3	211	105	57	16	70	25.6	--	--	--	--	--	211	98	17	58	77	30.7	
TRIUMPH	1706VT3	--	--	--	--	--	--	114	98	57	18	67	16.8	--	--	--	--	--	
	AVERAGE	201	201	58	16	69	26.1	116	116	56	18	65	16.5	215	215	17	59	77	32.6
	CV (%)	7	7	1	2	1	4	10	10	3	6	2	10	6	6	2	1	1	10
	LSD (0.05)	19	10	1	1	1	1.4	16	13	2	2	1	2.4	19	9	1	1	2	5.1

* Seed treatments and hybrid traits located in Table 16.

** Yields in bold are 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 5. NORTHEAST KANSAS SPRINKLER-IRRIGATED MULTI-YEAR YIELD PERCENT OF TEST AVERAGES, 2006-2008

BRAND	NAME	TOPEKA, Shawnee County					SCANDIA, Republic County				
		2008 (%)	2007 (%)	2006 (%)	2-Yr. Avg. (%)	3-Yr. Avg. (%)	2008 (%)	2007 (%)	2006 (%)	2-Yr. Avg. (%)	3-Yr. Avg. (%)
DEKALB	DKC63-42	94	95	--	95	--	--	--	--	--	
DYNA-GRO	57F37	102	103	--	102	--	--	--	--	--	
FONTANELLE	7951YGCB	105	113	--	109	--	104	103	--	104	
KRUGER	K-8616Hx	97	100	98	99	98	106	100	100	103	
KRUGER	K-6015VT3	--	--	--	--	--	104	112	--	108	
KRUGER	K-6111TS	--	--	--	--	--	93	98	--	96	
MAT CHK	FULL-R8526YGCB	101	97	105	99	101	109	99	108	104	
MAT CHK	SHRT-DKC50-20	75	77	78	76	77	75	75	83	75	
MIDLAND	MG 436Bt	106	100	107	103	104	--	--	--	--	
MIDLAND	MG 7A28B/RR	103	106	107	105	105	--	--	--	--	
TRIUMPH	1608VT3	98	106	--	102	--	--	--	--	--	
	AVERAGE	201	190	215	195	202	215	225	203	220	
	CV (%)	7	9	8			6	4	5		
	LSD (0.05)	10	24	14			9	16	6		

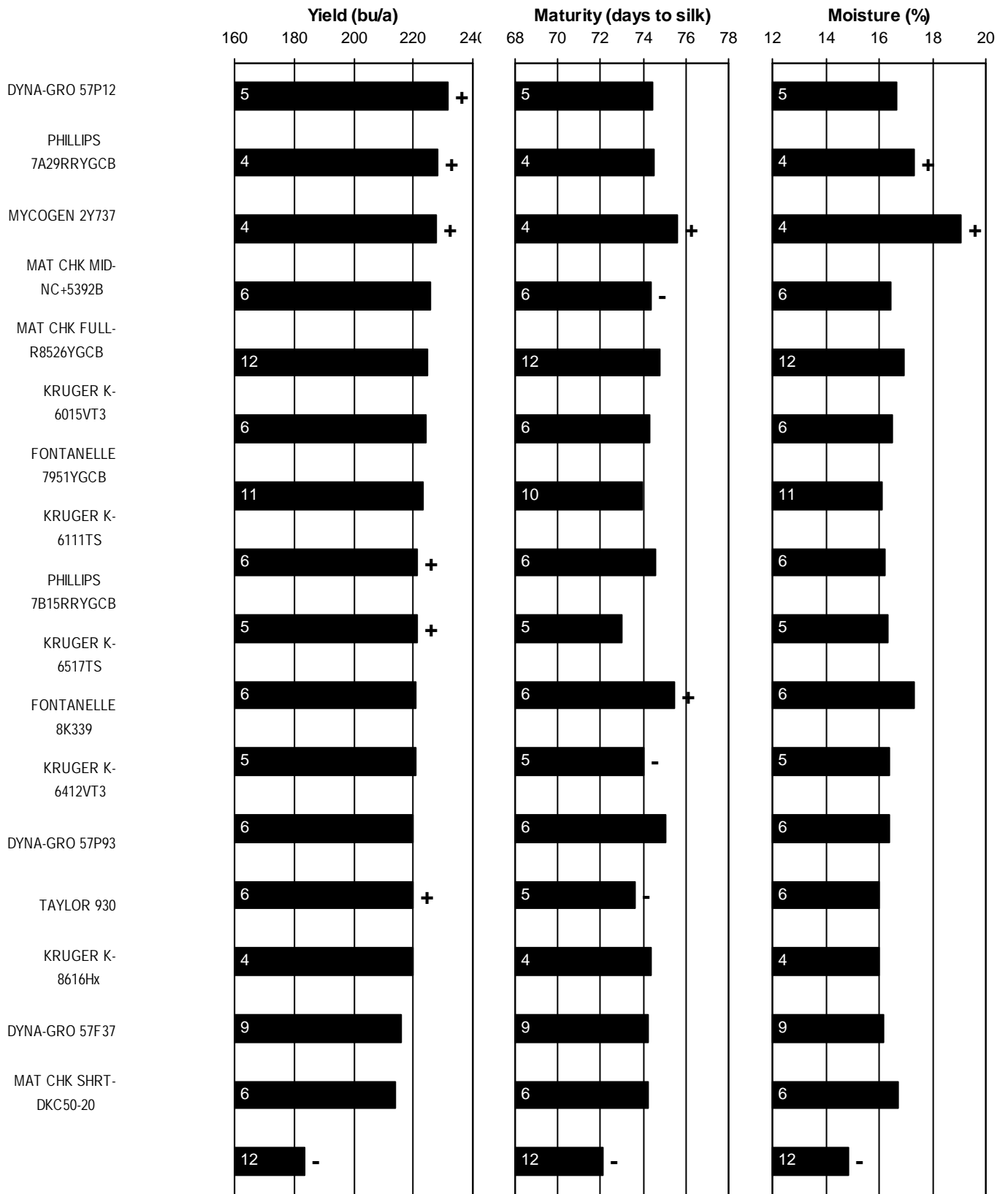


Figure 4. NORTHEAST Kansas SPRINKLER-IRRIGATED corn hybrid standardized performance summary, 2004-2008

Values within bars indicate the number of comparisons with checks. Symbols (+, -) indicate if statistically higher or lower than mean of checks.

EAST/CENTRAL KANSAS DRYLAND CORN TEST

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

Silty clay loam; Soybeans in 2007

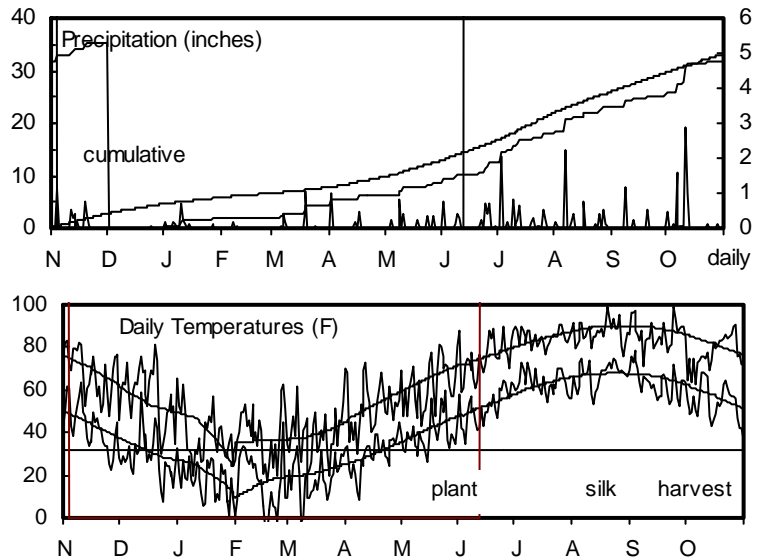
90 - 0 - 0 lb/a N, P, K

Planted on 5/13/2008; Harvested on 10/3/2008

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

Generally good growing conditions throughout the season.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	6.2	7.0	34	34	303	50
April	2.6	3.0	51	54	208	236
May	3.8	3.9	64	64	465	444
June	5.6	5.1	74	73	713	698
July	5.2	4.1	77	78	803	827
August	2.5	3.7	75	77	721	802
Oct.	9.6	6.2	60	63	809	571
Totals:	35.4	33.0	53	54	4,023	3,627



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

Woodson silt loam; Soybeans in 2007

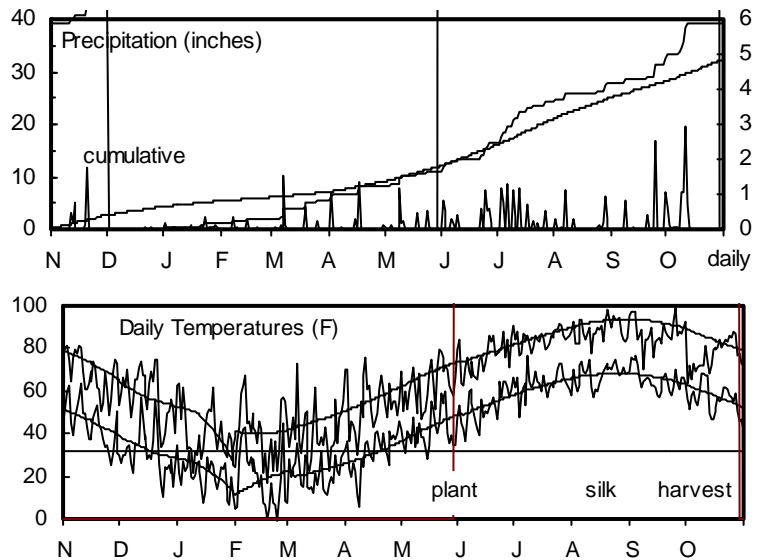
110 - 0 - 0 lb/a N, P, K

Planted on 4/29/2008; Harvested on 9/27/2008

Target stand of 21,000 plants/acre; 10.0 in. spacing

Glyphosate damage caused some hybrids to be dropped from the test.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	8.4	6.4	36	37	344	94
April	2.7	2.9	53	56	219	278
May	5.4	4.1	65	65	486	481
June	7.8	4.9	74	74	710	713
July	3.4	4.0	79	80	823	831
August	5.6	3.2	76	79	757	807
Oct.	9.5	6.7	61	65	817	616
Totals:	42.8	32.2	54	56	4,156	3,820



EAST/CENTRAL KANSAS DRYLAND CORN TEST, continued.

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

Smolan silt loam; Wheat in 2007

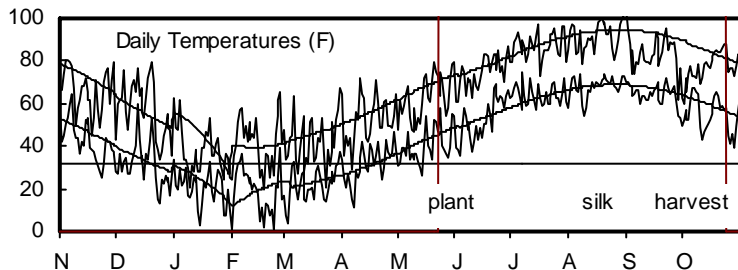
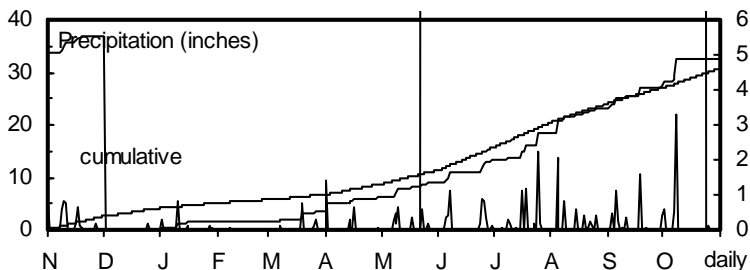
110 - 37 - 0 lb/a N, P, K

Planted on 4/22/2008; Harvested on 9/22/2008

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

Conditions for corn were unusually good, resulting in excellent yields for this location. Some glyphosate damage to the test resulted in two of the four reps being dropped from the results.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	6.1	6.2	36	37	325	91
April	2.8	2.6	52	56	222	271
May	4.4	4.4	64	65	475	477
June	5.4	4.7	76	75	723	724
July	4.7	3.7	80	81	828	840
August	4.9	3.1	73	80	677	819
Oct.	8.7	6.1	60	65	816	632
Totals:	36.9	30.6	54	56	4,067	3,854



Private farm, Erie; James Long, agronomist; Kelly Kusel, technician

Lanton silt loam; Flooded in 2007

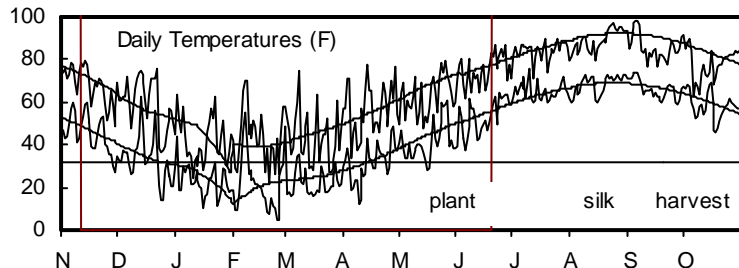
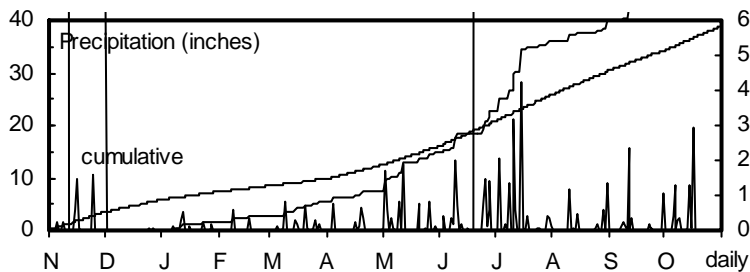
175- 75 - 0 lb/a N, P, K

Planted on 5/20/2008; Harvested on 10/10/2008

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

Good conditions throughout growing season; some flooding during the summer months.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	7.6	9.1	38	38	408	87
April	7.2	3.5	53	56	225	272
May	8.2	4.8	64	66	476	494
June	13.1	4.9	75	74	731	728
July	3.9	4.6	79	80	829	845
August	4.4	4.0	76	79	769	815
Oct.	10.9	7.8	62	65	848	599
Totals:	55.3	38.7	55	56	4,287	3,840



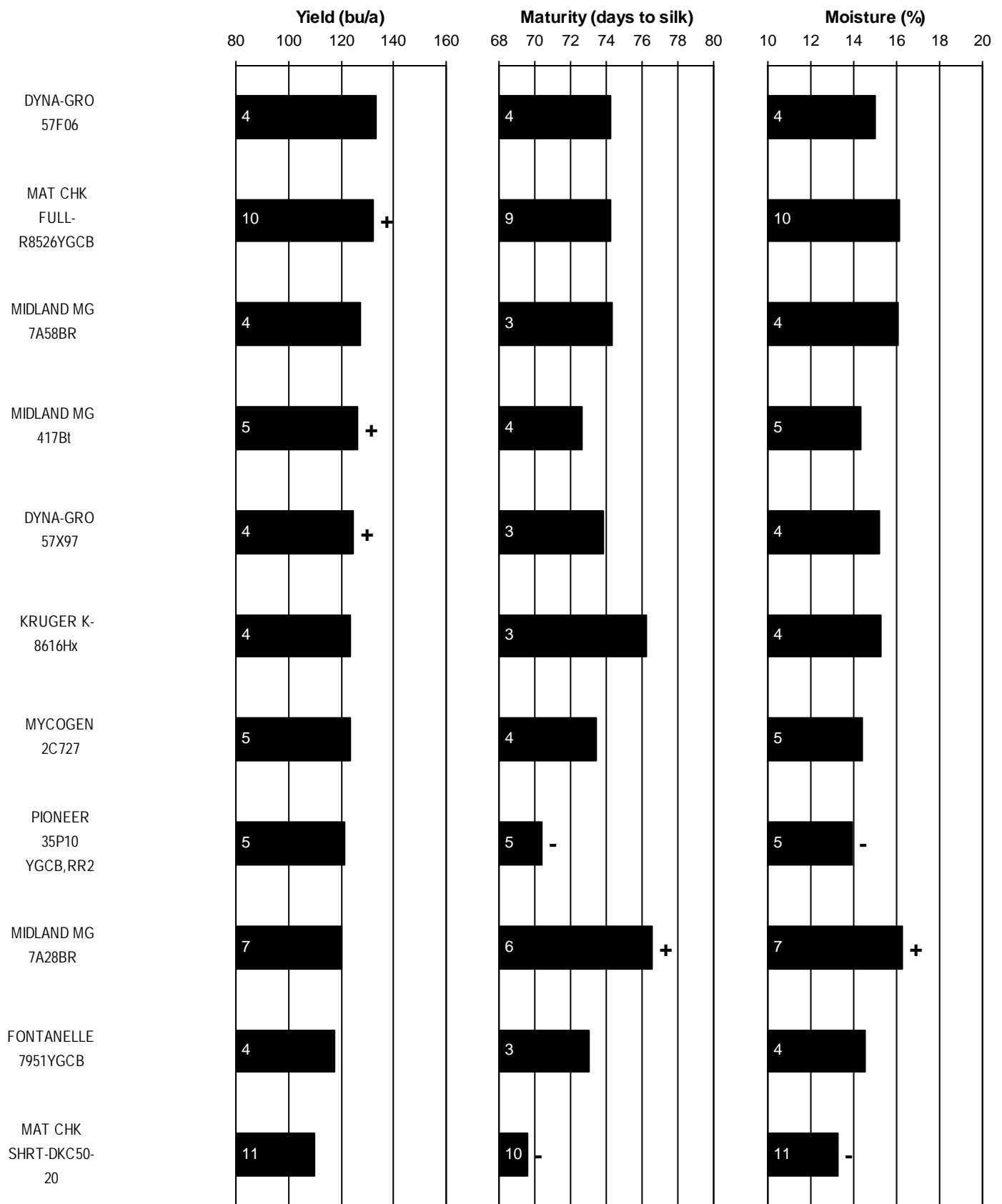


Figure 5. EAST/CENTRAL Kansas Dryland corn hybrid standardized performance summary, 2004-2008

Values within bars indicate the number of comparisons with checks. Symbols (+, -) indicate if statistically higher or lower than mean of checks.

KANSAS SHORT-SEASON DRYLAND CORN TEST

Private Farm, Coffeyville; James Long, agronomist; Kelly Kusel, technician

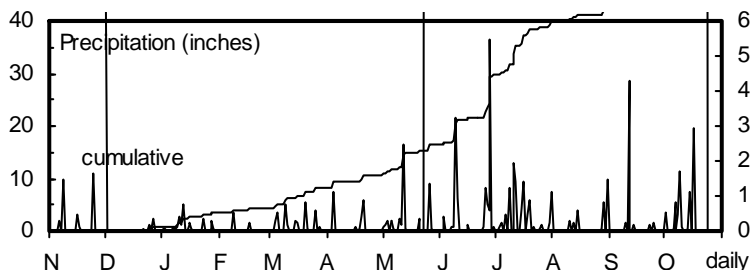
Parsons silt loam; Soybeans in 2007

75 - 0 - 0 lb/a N, P, K

Planted on 4/23/2008; Harvested on 9/22/2008

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

Uneven stands due to crusting after planting; generally good conditions for the remainder of the season.



Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	10.9					
April	5.6					
May	13.2					
June	10.4					
July	3.5					
August	5.7					
Oct.	11.3					
Totals:	60.6					

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

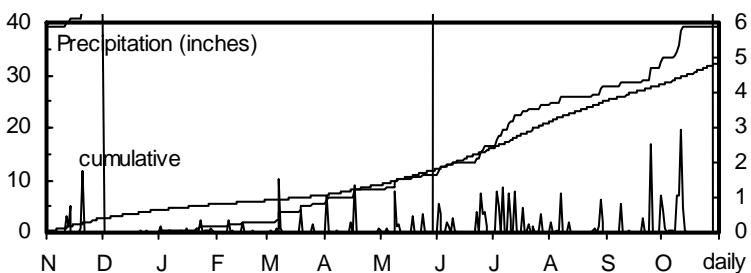
Woodson silt loam; Soybeans in 2007

110 - 0 - 0 lb/a N, P, K

Planted on 4/29/2008; Harvested on 9/26/2008

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

Glyphosate damage caused some hybrids to be dropped from the test.



Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	8.4	6.4	36	37	344	94
April	2.7	2.9	53	56	219	278
May	5.4	4.1	65	65	486	481
June	7.8	4.9	74	74	710	713
July	3.4	4.0	79	80	823	831
August	5.6	3.2	76	79	757	807
Oct.	9.5	6.7	61	65	817	616
Totals:	42.8	32.2	54	56	4,156	3,820

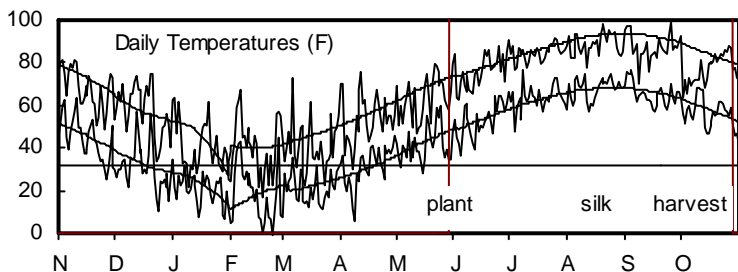


TABLE 8. KANSAS SHORT-SEASON DRYLAND CORN PERFORMANCE TESTS, 2008

BRAND	NAME	COFFEYVILLE, Montgomery County								OTTAWA, Franklin County						
		YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa	HT (in)	Ear HT (in)	YIELD (bu/a)	PAVG (%)	TW (lb/bu)	MOIST (%)	DAYS (silk)	1000 ppa	
AGVENTURE	AV 4480	126	105	55	15	76	23.1	84	29	--	--	--	--	--	--	
AGVENTURE	AV 4883	111	93	55	15	76	25.2	87	30	--	--	--	--	--	--	
DEKALB	DKC50-44	115	96	54	16	77	24.0	86	28	121	106	58	14	70	16.1	
DYNA-GRO	53V13	121	101	55	14	75	24.8	84	29	81	71	58	14	70	15.5	
DYNA-GRO	54K35	127	107	55	15	76	24.0	87	30	120	105	59	14	69	15.8	
DYNA-GRO	54V78	118	99	55	14	77	23.7	89	31	106	92	56	13	70	15.4	
DYNA-GRO	55B31	106	89	54	16	76	21.6	90	29	132	115	58	15	72	16.4	
DYNA-GRO	55B49	123	104	53	18	77	24.5	89	29	111	97	58	15	72	17.1	
DYNA-GRO	55P86	117	98	55	15	76	23.1	85	27	126	110	57	14	72	18.3	
DYNA-GRO	56B83	--	--	--	--	--	--	--	--	113	98	58	14	71	15.5	
DYNA-GRO	56K60	114	96	55	15	76	22.7	89	33	138	120	58	14	70	17.7	
DYNA-GRO	56P07	--	--	--	--	--	--	--	--	111	97	58	14	72	16.1	
DYNA-GRO	57P69	143	120	53	18	77	21.3	97	29	142	123	58	15	71	16.4	
DYNA-GRO	57V15	141	118	53	17	77	23.5	95	32	126	110	57	16	72	17.7	
DYNA-GRO	57V77	129	108	53	18	77	23.4	98	32	127	111	57	15	72	17.7	
FONTANELLE	5K626	88	74	55	14	76	23.3	88	29	103	90	59	13	69	17.7	
FONTANELLE	5T128	116	97	55	15	77	23.8	90	30	118	103	58	14	71	15.2	
KRUGER	K-1500RR	--	--	--	--	--	--	--	--	113	99	57	13	72	15.5	
KRUGER	K-6006VT3	--	--	--	--	--	--	--	--	108	95	59	16	71	16.4	
KRUGER	K-6102VT3	--	--	--	--	--	--	--	--	94	82	58	14	70	14.4	
KRUGER	K-6298VT3	--	--	--	--	--	--	--	--	86	75	58	15	70	15.4	
KRUGER	K-6400TS	--	--	--	--	--	--	--	--	106	93	58	14	69	13.8	
KRUGER	K-6401VT3	--	--	--	--	--	--	--	--	109	95	58	15	70	16.1	
KRUGER	K-6499VT3	--	--	--	--	--	--	--	--	117	102	58	14	71	14.1	
KRUGER	K-6606VT3	--	--	--	--	--	--	--	--	112	98	58	14	70	15.2	
MAT CHK	FULL-R8526YGCB	108	90	53	19	77	24.0	95	27	103	90	58	14	74	12.9	
MAT CHK	MID-NC+5392B	122	103	54	16	77	24.2	91	27	117	102	57	14	69	15.8	
MAT CHK	SHRT-DKC50-20	96	80	55	15	77	24.9	87	27	124	108	59	14	69	15.8	
MFA MORCORN	MC3597VT3	--	--	--	--	--	--	--	--	101	88	58	15	71	14.1	
MIDLAND	MG 119BR	--	--	--	--	--	--	--	--	110	96	56	14	71	15.4	
MIDLAND	MG 159HLR	--	--	--	--	--	--	--	--	127	111	58	15	71	17.3	
MIDWEST SEED	70006R	102	86	54	15	77	24.2	89	29	123	107	57	14	71	17.0	
MYCOGEN	2C598	147	124	54	16	78	25.0	96	32	117	102	57	15	71	16.5	
MYCOGEN	2C727	103	87	54	17	77	25.3	92	27	--	--	--	--	--	--	
MYCOGEN	2T783	147	123	53	18	78	24.9	96	33	128	112	57	16	72	17.3	
NC+	1981R	136	114	54	15	76	24.5	88	31	126	110	57	14	72	17.3	
NC+	4022VT3	106	89	54	16	77	24.2	90	28	--	--	--	--	--	--	
PREMIUM	P244Bt	--	--	--	--	--	--	--	--	118	103	58	17	72	14.8	
PRODUCERS	5624VT3	--	--	--	--	--	--	--	--	124	108	57	13	70	17.7	
PRODUCERS	6944VT3	--	--	--	--	--	--	--	--	96	84	57	15	71	14.4	
PRODUCERS	7134VT3	--	--	--	--	--	--	--	--	124	108	58	15	72	17.1	
RENZE	1185VT3	--	--	--	--	--	--	--	--	108	94	57	15	72	13.1	
TRIUMPH	3203CBRR	--	--	--	--	--	--	--	--	124	108	57	14	71	16.1	
TRIUMPH	6512VT3	--	--	--	--	--	--	--	--	105	92	58	15	72	17.7	
TRIUMPH	8607CbRR	--	--	--	--	--	--	--	--	107	94	58	15	71	15.1	
	AVERAGE	119	119	54	16	77	23.9	90	29	115	115	58	14	71	16.0	
	CV (%)	10	10	1	6	1	5	3	9	11	11	2	5	1	5	
	LSD (0.05)	17	14	1	1	1	1.8	4	4	18	16	1	1	1	1.2	

* Seed treatments and hybrid traits located in Table 16.

** Yields in bold are in the top LSD group.

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

TABLE 9. KANSAS SHORT-SEASON DRYLAND MULTI-YEAR YIELD PERCENT OF TEST AVERAGES, 2006-2008

BRAND	NAME	Ottawa, Franklin County				
		2008 (%)	2007 (%)	2006 (%)	2-Yr. Avg. (%)	3-Yr. Avg. (%)
DYNA-GRO	53V13	71	101	--	86	--
DYNA-GRO	55P86	110	120	95	115	108
DYNA-GRO	56P07	97	113	92	105	101
DYNA-GRO	57P69	123	109	--	116	--
MAT CHK	FULL-R8526YGCB	90	107	110	98	102
MAT CHK	MID-NC+5392B	102	106	--	104	--
MAT CHK	SHRT-DKC50-20	108	88	90	98	96
PRODUCERS	6944VT3	84	98	--	91	--
PRODUCERS	7134VT3	108	120	--	114	--
TRIUMPH	6512VT3	92	101	--	98	--
	AVERAGE (bu/a)	115	104	132	109	117
	CV (%)	11	8	9		
	LSD (0.05)	16	12	12		

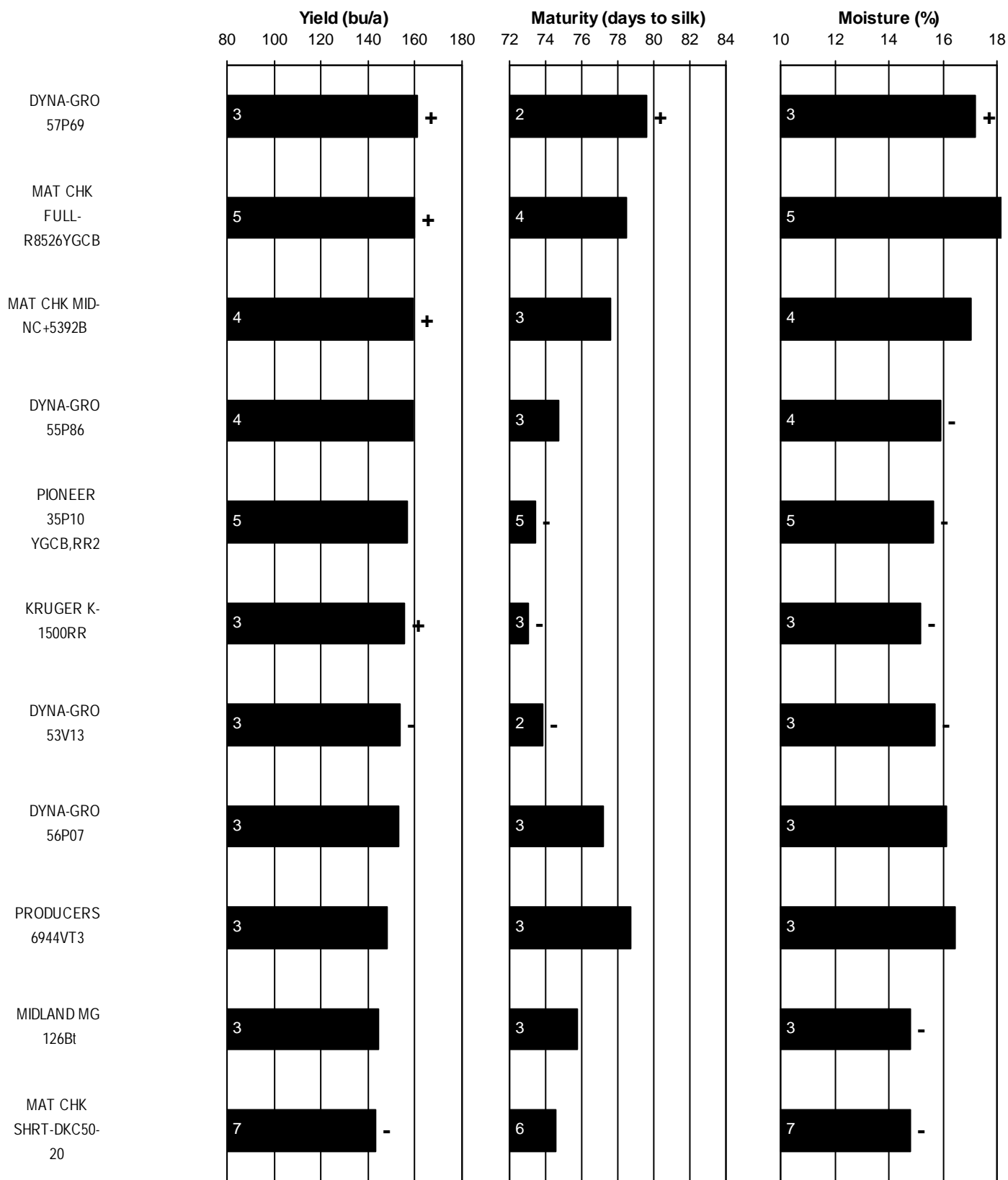


Figure 6. Kansas SHORT-SEASON Dryland corn hybrid standardized performance summary, 2004-2008

Values within bars indicate the number of comparisons with checks. Symbols (+,-) indicate if statistically higher or lower than mean of checks.

SOUTH CENTRAL KANSAS IRRIGATED CORN TEST

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

Crete silt loam; Soybeans in 2007

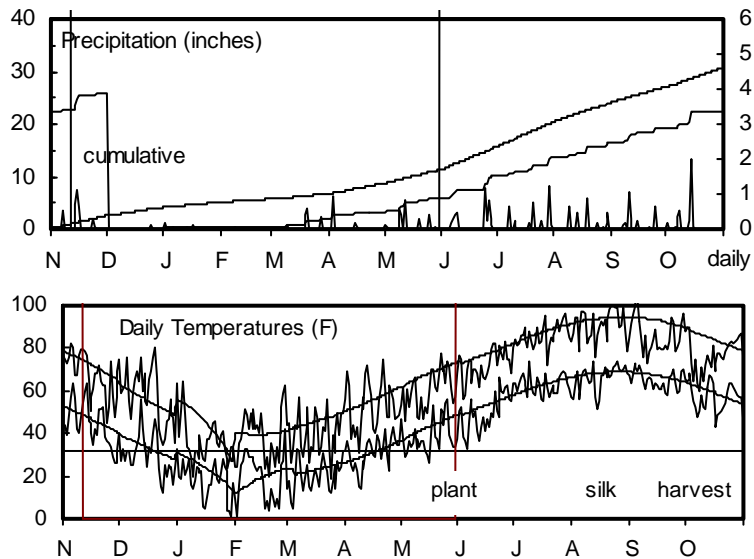
110 - 0 - 0 lb/a N, P, K

Planted on 4/30/2008; Harvested on 10/10/2008

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

Storm on 6/26 caused 25% stalk breakage with spots up to 50%; weed pressure was high.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	3.3	6.2	35	37	283	91
April	2.7	2.6	49	56	173	271
May	4.0	4.4	62	65	413	477
June	3.5	4.7	74	75	696	724
July	2.9	3.7	78	81	791	840
August	2.8	3.1	76	80	741	819
Oct.	6.5	6.1	61	65	805	632
Totals:	25.7	30.6	53	56	3,902	3,854



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

Punkin silt loam; Soybeans in 2007

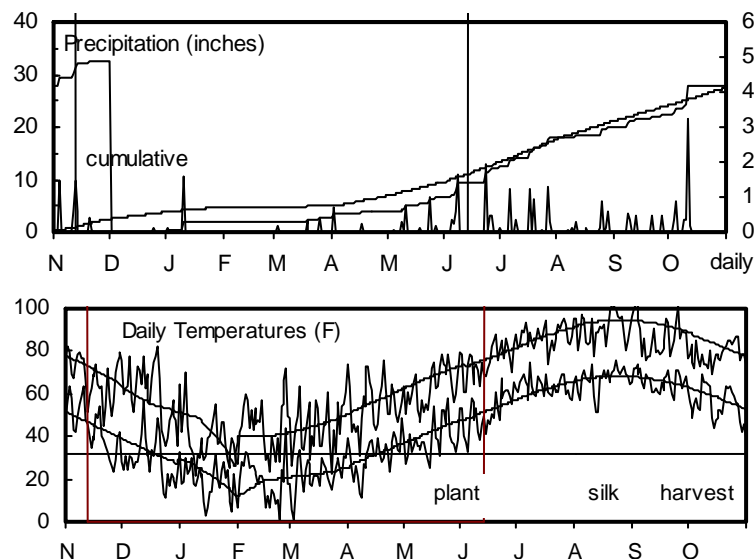
90- 0 - 0 lb/a N, P, K

Planted on 5/14/2008; Harvested on 10/11/2008

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

Hail storm on 6/5 caused some stand reduction.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	3.8	4.4	36	37	392	101
April	2.8	2.6	51	55	215	271
May	5.9	3.8	64	65	474	459
June	5.4	4.3	75	75	720	712
July	2.3	3.5	79	81	803	832
August	2.3	3.1	76	79	750	807
Oct.	10.1	5.7	61	64	834	610
Totals:	32.6	27.3	54	56	4,188	3,792



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

Carwile fine sandy loam; Soybeans in 2007

90 - 0 - 0 lb/a N, P, K

Planted on 4/30/2008; Harvested on 10/10/2008

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

Heavy rains after planting caused crusting and uneven emergence.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	1.3	5.0	36	39	389	126
April	1.9	2.0	51	56	206	302
May	4.3	3.4	62	66	432	497
June	2.6	3.7	76	76	721	725
July	0.8	2.9	80	79	820	824
August	0.6	2.5	77	78	767	764
Oct.	8.2	4.6	62	64	835	568
Totals:	19.7	24.0	54	56	4,170	3,806

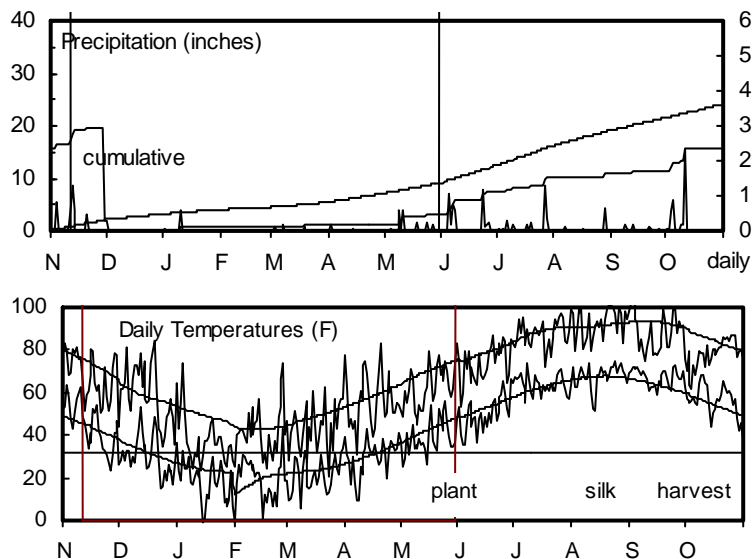


TABLE 11. SOUTH CENTRAL KANSAS IRRIGATED MULTI-YEAR YIELD PERCENT OF TEST AVERAGES, 2006-2008

BRAND	NAME	Inman, McPherson County					Hutchinson, Reno County					St. John, Stafford County				
		2008	2007 (%)	2006 (%)	2-Yr. Avg. (%)	3-Yr. Avg. (%)	2008	2007 (%)	2006 (%)	2-Yr. Avg. (%)	3-Yr. Avg. (%)	2008	2007 (%)	2006 (%)	2-Yr. Avg. (%)	3-Yr. Avg. (%)
DYNA-GRO	57F37	--	100	--	--	--	108	111	--	109	--	--	100	111	106	--
FONTANELLE	7951YGCB	101	87	103	94	97	102	99	--	101	--	100	99	102	99	100
MAT CHK	FULL-R8526YGCB	83	102	107	92	97	106	107	106	106	106	82	106	104	94	97
MAT CHK	SHRT-DKC50-20	95	80	92	88	89	130	83	--	107	--	78	106	75	92	86
MIDLAND	MG 417Bt	107	91	104	99	101	97	107	107	102	104	97	101	101	99	100
MIDLAND	MG 697Bt	114	92	99	103	102	90	106	104	98	100	107	105	86	106	99
MIDLAND	MG 7A28BR	112	111	110	111	111	98	97	100	97	98	104	93	104	99	100
PHILLIPS	7B15RRYGCB	96	--	--	--	--	98	--	--	--	--	99	91	102	95	97
TRIUMPH	1536VT3	115	102	101	108	106	103	--	--	--	--	100	--	--	--	--
AVERAGES (bu/a)		178	198	221	188	199	145	176		161		178	160	167	169	168
CV (%)		10	8	10			9	7				8	9	11		
LSD (0.05)*		13	11	14			12	10				11	13	15		

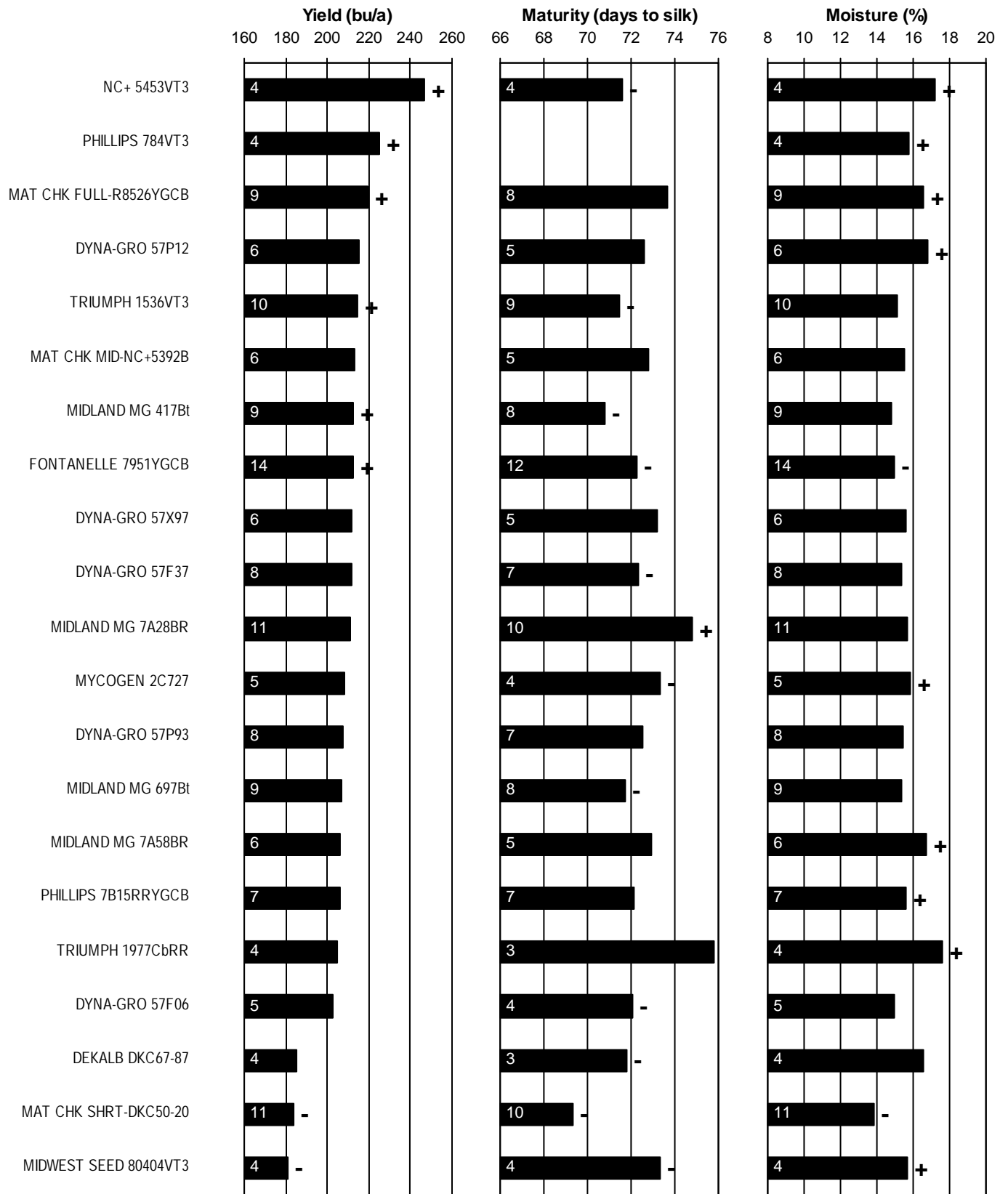


Figure 7. SOUTH CENTRAL Kansas IRRIGATED corn hybrid standardized performance summary, 2004-2008

Values within bars indicate the number of comparisons with checks. Symbols (+,-) indicate if statistically higher or lower than mean of checks.

WEST KANSAS NO-TILL DRYLAND CORN TEST

Agricultural Research Center, Hays; Ken Kofoid, agronomist

Harney clay loam; Wheat in 2007

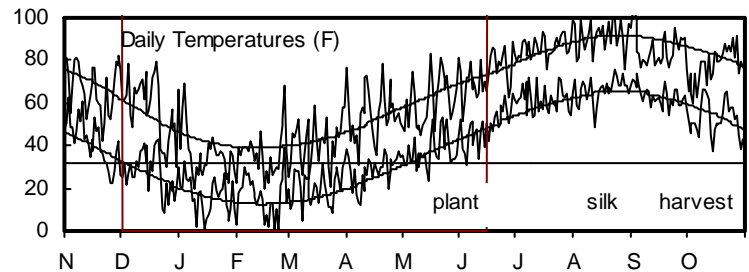
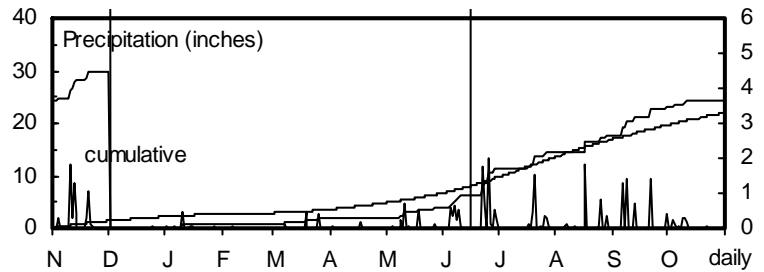
80 - 0 - 0 lb/a N, P, K

Planted on 5/16/2008; Harvested on 11/3/2008

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

Early season was wet, which delayed planting.
Summer was wet and cool; ideal conditions for corn growth and development.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	2.1	3.5	34	33	323	40
April	1.6	1.8	50	50	188	205
May	7.7	3.1	62	61	412	381
June	3.0	3.8	74	71	693	635
July	3.3	3.4	79	78	794	783
August	5.3	2.8	74	76	695	760
Oct.	6.9	3.6	60	61	773	540
Totals:	29.9	21.9	52	52	3,879	3,343



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

Keith silt loam; Wheat in 2007

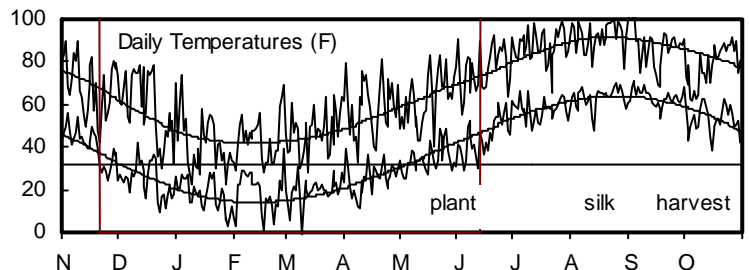
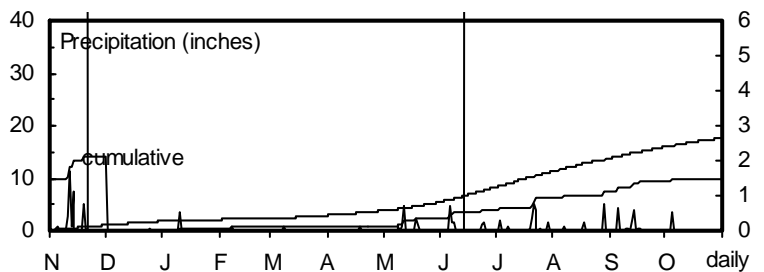
92 - 0 - 0 lb/a N, P, K

Planted on 5/14/2008; Harvested on 10/20/2008

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

Good emergence, fairly uniform across stand. Hail storm on 6/20 caused moderate defoliation. Cooler and drier than normal.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	0.9	2.8	36	34	456	56
April	1.5	1.6	49	50	210	214
May	1.6	2.9	62	61	447	388
June	2.4	3.0	73	72	620	635
July	1.1	2.5	78	78	753	768
August	1.8	2.2	75	75	713	746
Oct.	4.9	2.6	60	61	780	530
Totals:	14.2	17.6	53	52	3,978	3,337



WEST KANSAS NO-TILL DRYLAND CORN TEST, continued.

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

Ulysses silt loam; Wheat in 2007

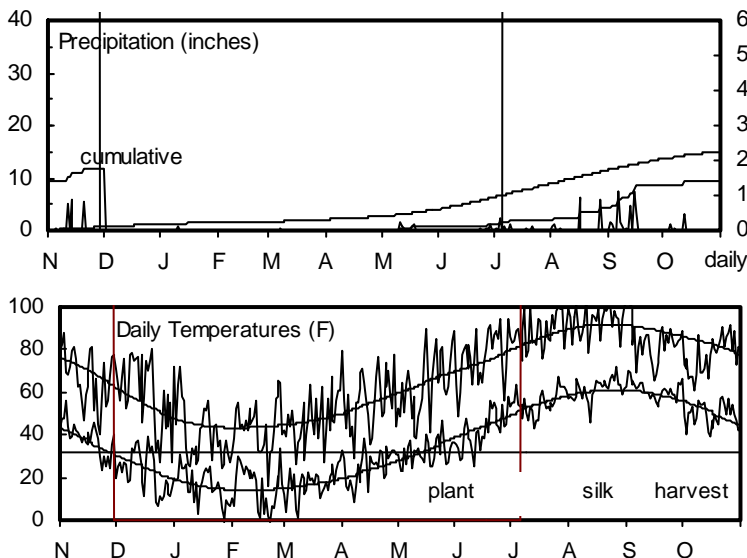
80 - 0 - 0 lb/a N, P, K

Planted on 6/5/2008; Harvested on 10/28/2008

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

Dry until mid-July and then wet through August.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	0.2	2.1	34	34	446	73
April	0.7	1.3	48	49	228	222
May	0.3	2.3	60	59	420	381
June	0.8	2.5	72	70	591	581
July	2.2	2.6	78	76	729	720
August	4.2	2.3	72	74	647	697
Oct.	3.4	2.0	58	60	718	504
Totals:	11.9	15.0	52	52	3,779	3,177



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

Keith silt loam; Wheat in 2007

180 - 45 - 0 lb/a N, P, K

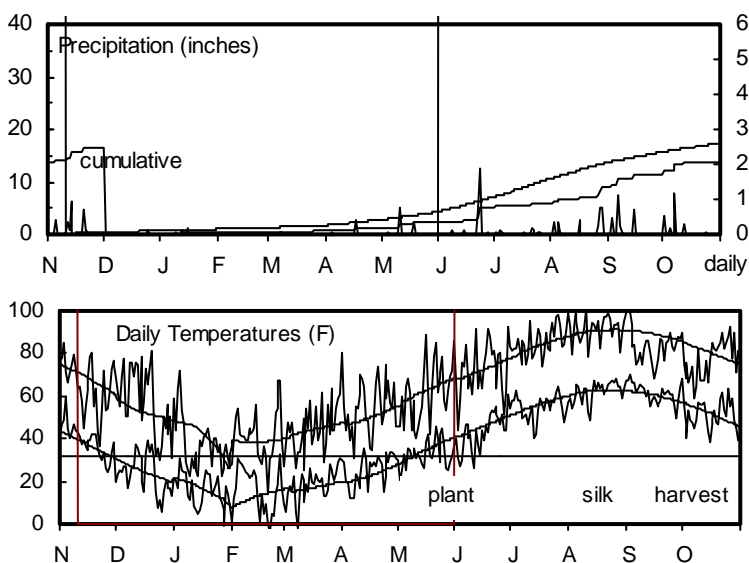
Planted on 5/1/2008; Harvested on 10/9/2008

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

Good planting conditions and stand establishment.

Hot, dry conditions during pollination. Wet and cool conditions from mid-August until harvest delayed maturity.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	1.1	2.4	33	32	370	19
April	1.3	1.4	47	49	199	187
May	2.9	2.9	58	59	369	351
June	0.7	3.4	70	70	581	591
July	2.9	3.1	77	76	737	748
August	3.1	2.1	72	74	661	714
Oct.	4.5	2.0	58	59	707	483
Totals:	16.5	17.4	51	51	3,624	3,093



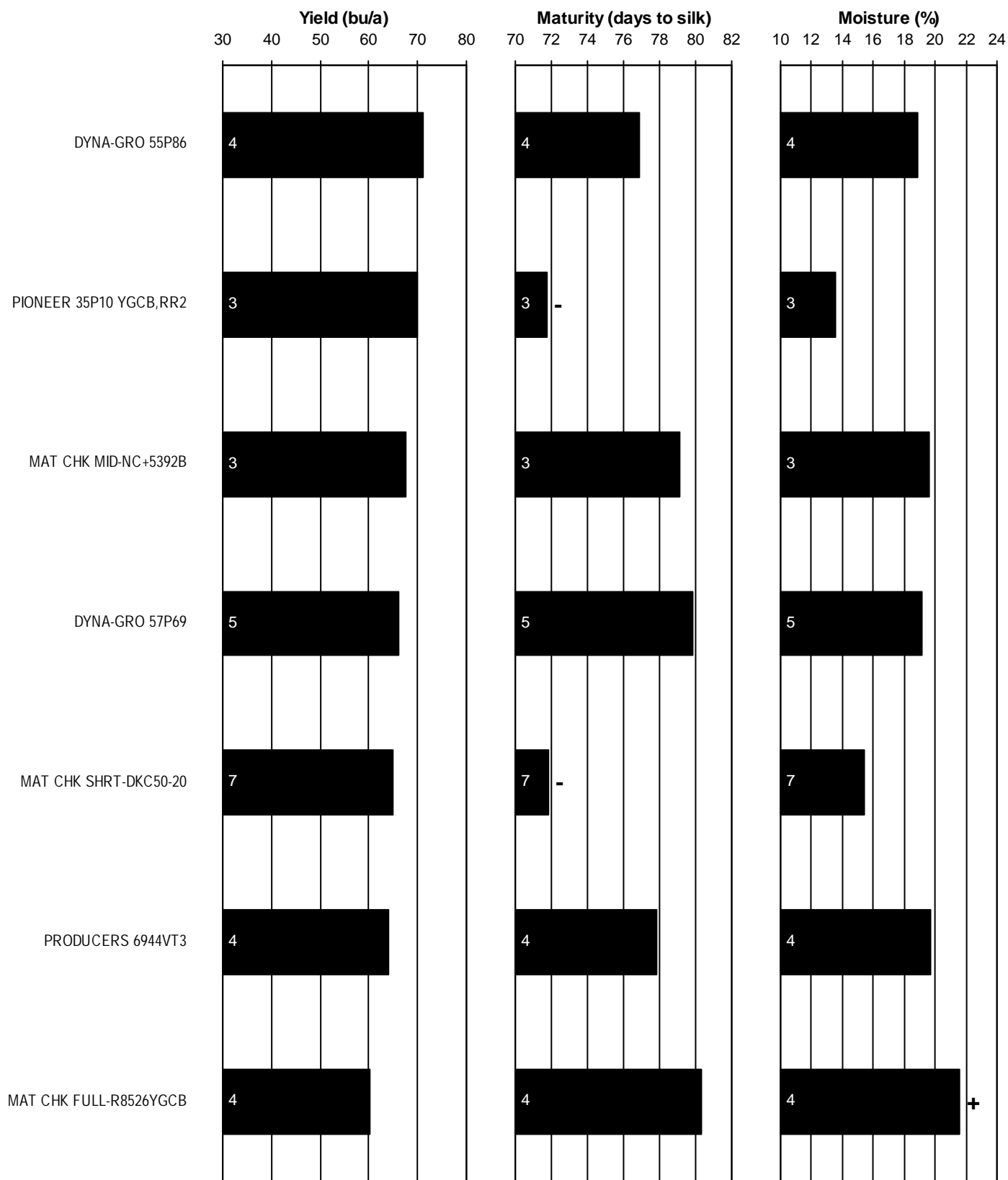


FIGURE 8. WEST Kansas NO-TILL DRYLAND corn hybrid standardized performance summary, 2004- 2008

Values within bars indicate the number of comparisons with checks. Symbols (+, -) indicate if statistically higher or lower than mean of checks.

WEST KANSAS IRRIGATED CORN TEST

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

Keith silt loam; Soybeans in 2007

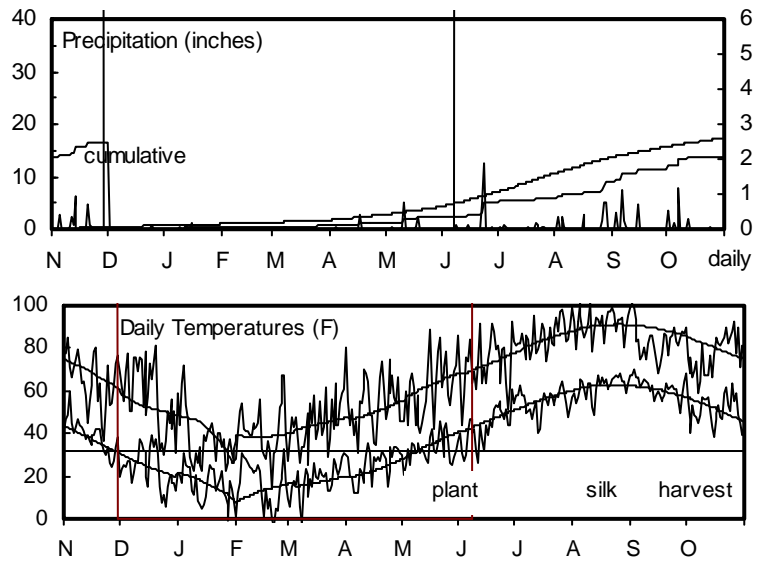
250 - 60 - 0 lb/a N, P, K

Planted on 5/8/2008; Harvested on 10/28/2008

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

Typical growing conditions until mid August when below normal temperatures and above normal rainfall occurred.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	1.1	2.4	33	32	370	19
April	1.3	1.4	47	49	199	187
May	2.9	2.9	58	59	369	351
June	0.7	3.4	70	70	581	591
July	2.9	3.1	77	76	737	748
August	3.1	2.1	72	74	661	714
Oct.	4.5	2.0	58	59	707	483
Totals:	16.5	17.4	51	51	3,624	3,093



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

Ulysses silt loam; Sunflowers in 2007

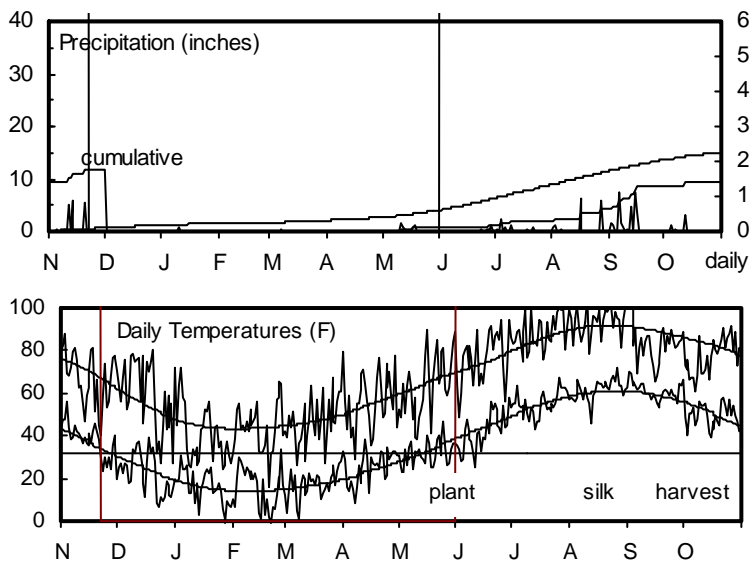
240 - 0 - 0 lb/a N, P, K

Planted on 5/1/2008; Harvested on 10/21/2008

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

Hail damage on May 29, June 3, and August 14. Irrigated after planting to aid emergence and early growth.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	0.2	2.1	34	34	446	73
April	0.7	1.3	48	49	228	222
May	0.3	2.3	60	59	420	381
June	0.8	2.5	72	70	591	581
July	2.2	2.6	78	76	729	720
August	4.2	2.3	72	74	647	697
Oct.	3.4	2.0	58	60	718	504
Totals:	11.9	15.0	52	52	3,779	3,177



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

Keith silt loam; Wheat in 2007

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

Planted on 5/14/2008; Harvested on 10/20/2008

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

Good emergence, fairly uniform across stand. Hail storm on 6/20 caused moderate defoliation. Cooler and drier than normal.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	0.9	2.8	36	34	456	56
April	1.5	1.6	49	50	210	214
May	1.6	2.9	62	61	447	388
June	2.4	3.0	73	72	620	635
July	1.1	2.5	78	78	753	768
August	1.8	2.2	75	75	713	746
Oct.	5.2	2.6	60	61	779	530
Totals:	14.5	17.6	53	52	3,977	3,337

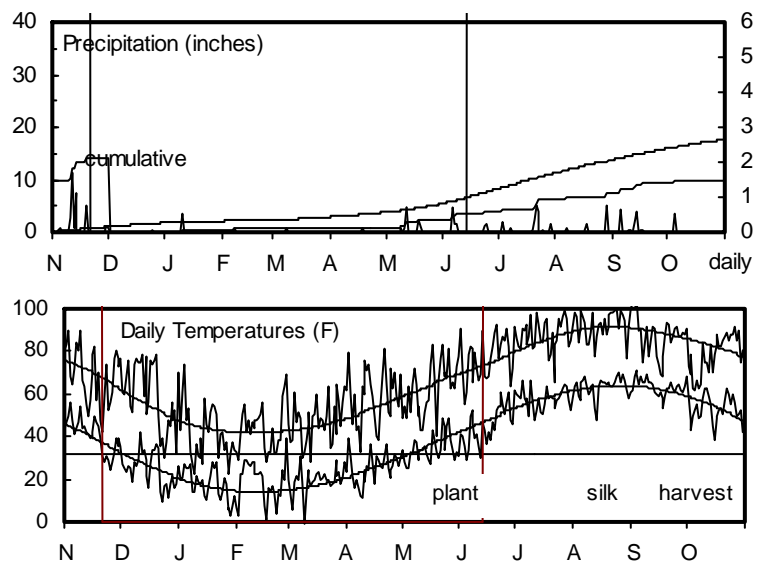


TABLE 15 . WEST KANSAS IRRIGATED MULTI-YEAR YIELD PERCENT OF TEST AVERAGES, 2006-2008

BRAND	NAME	Colby, Thomas County					Tribune, Greeley County					Garden City, Finney County				
		2008 (%)	2007 (%)	2006 (%)	2-Yr. Avg. (%)	3-Yr. Avg. (%)	2008 (%)	2007 (%)	2006 (%)	2-Yr. Avg. (%)	3-Yr. Avg. (%)	2008 (%)	2007 (%)	2006 (%)	2-Yr. Avg. (%)	3-Yr. Avg. (%)
DYNA-GRO	57B94	--	--	--	--	--	--	--	--	--	104	106	102	105	104	
DYNA-GRO	57F37	105	102	102	103	103	--	98	110	--	104	--	99	106	--	103
DYNA-GRO	57P12	--	--	--	--	--	--	--	--	--	100	101	109	101	104	
DYNA-GRO	57P93	--	--	--	--	--	--	--	--	--	109	105	120	107	111	
DYNA-GRO	57X97	--	99	109	--	104	--	--	--	--	107	107	116	107	110	
FONTANELLE	7951YGCB	103	107	105	105	105	115	105	102	110	107	106	103	101	105	104
LG SEEDS	LG2619BT	--	104	117	--	111	110	108	113	109	110	105	108	122	106	111
MAT CHK	FULL-R8526YGCB	103	103	101	103	102	107	92	101	99	100	96	79	111	88	96
MAT CHK	SHRT-DKC50-20	97	82	84	89	88	86	87	83	87	85	91	87	68	89	82
MIDLAND	MG 417Bt	--	--	--	--	--	--	--	--	--	--	100	103	106	102	103
MIDLAND	MG 697Bt	--	--	--	--	--	--	--	--	--	--	108	101	93	105	101
MIDLAND	MG 7A28Bt/RR	--	--	--	--	--	--	--	--	--	--	96	100	104	98	100
MYCOGEN	2C727	100	94	104	97	99	99	104	105	101	102	--	--	--	--	--
TRIUMPH	1536CBRR	96	115	105	105	105	--	93	112	--	103	--	--	--	--	--
	AVERAGE (bu/a)	261	224	231	242	239	153	237	245	195	212	159	208	152	184	173
	CV (%)	8	9	9			12	8	7			10	6	12		
	LSD (.05)	11	12	12			17	11	10			14	8	16		

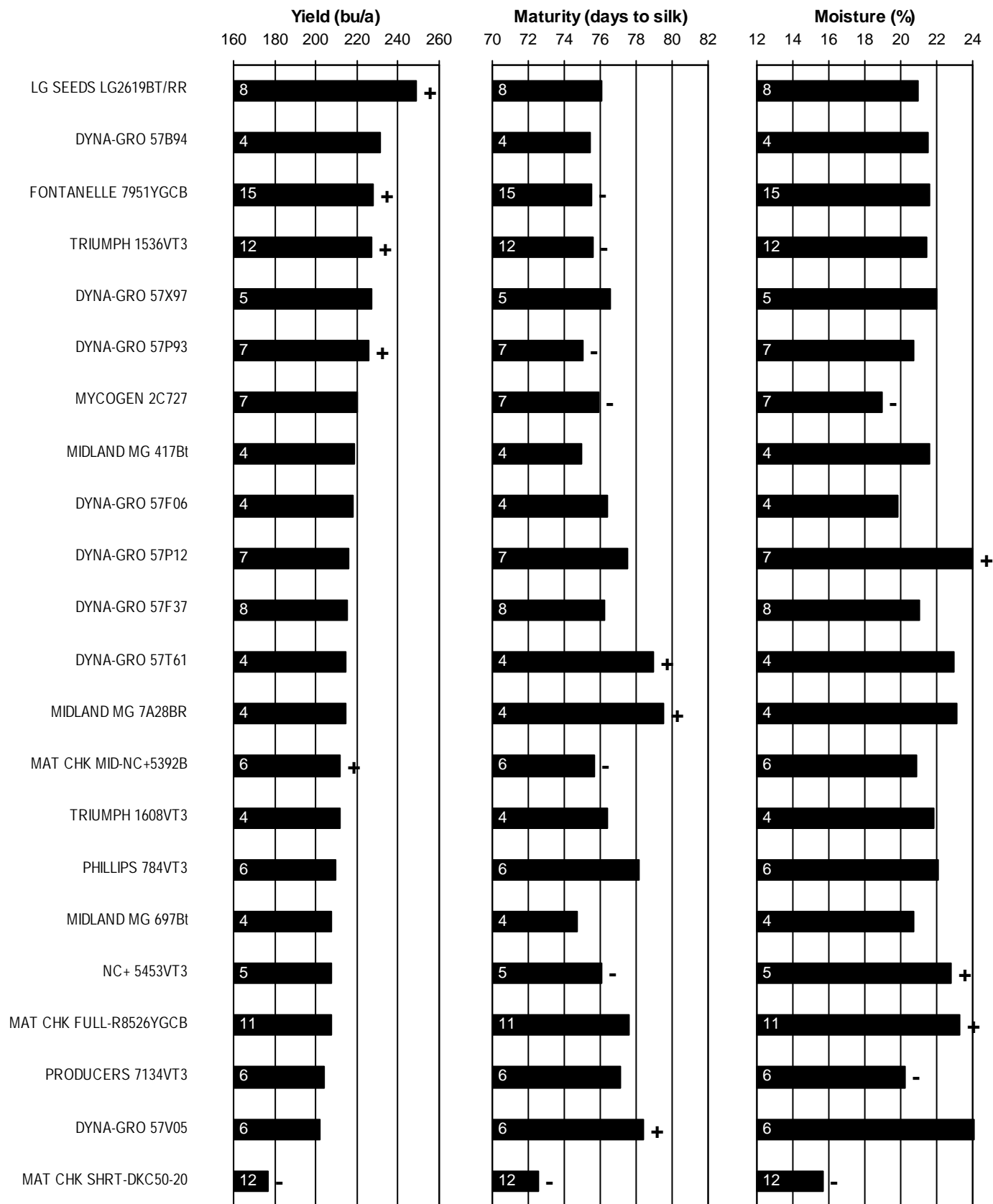


Figure 9. WEST Kansas IRRIGATED corn hybrid standardized performance summary, 2004-2008

Values within bars indicate the number of comparisons with checks. Symbols (+,-) indicate if statistically higher or lower than mean of checks.

Table 16. Entries in the 2008 Kansas Corn Performance Tests*

SD TRT* GDD DBL RES P F							SD TRT GDD DBL RES P F						
AGRIGOLD							DYNA-GRO						
A6399VT3	P250	2690	108	RR	--	Y	57P56	P250, A	2850	114	RR,YGCB	Y	Y
A6479VT3	P250	2700	112	RR	--	N	57V07	P250, A	2850	114	VT3	Y	Y
A6489VT3	P250	2700	112	RR	--	N	CXO8514	P250, A	2850	114	YGCB	Y	Y
A6533VT3	P250	2780	113	RR	--	Y	57P12	P250, A	2860	114	RR,YGCB	Y	Y
A6594VT3	P250	2800	115	RR	--	Y	57V05	P250, A	2860	114	RR,YGVT	Y	Y
A6632VT3	P250	2800	115	RR	--	Y	57V21	P250, A	2870	115	VT3	Y	Y
A6633VT3	P250	2800	115	RR	--	Y	58P60	P250, A	2925	116	RR,YGCB	Y	Y
AGVENTURE							FIELDER'S CHOICE						
AV 4480	--	--	--	--	--	--	58P27	P250, A	2985	117	RR,YGCB	Y	Y
AV 4883	--	--	--	--	--	--	NG6686	P250	2650	--	CB,RW,RR	N	Y
DEKALB							FONTANELLE						
DKC45-79	P250	2410	95	VT3	--	--	NG6733	P250	2700	--	CB, RW,RR	N	Y
DKC46-60	P250	2370	96	VT3	--	--	NG6781	P250	2750	--	CB,RW,RR	N	Y
DKC50-19	P250	2530	100	VT3	--	--	NG6783	P250	2780	--	CB, RW,RR	N	Y
DKC50-44	P250	2530	100	VT3	--	--	NG6793	P250	2780	--	CB,RW,RR	N	Y
DKC52-59	P250	2540	102	VT3	--	--	5K626	P250	--	--	YGPL	--	--
DKC54-20	P250	2590	104	RR2,YGCB	--	--	5T128	P250	--	--	VT3	--	--
DKC55-24	P250	2561	105	VT3	--	--	7N771	P250	--	--	YGCB, RR2	--	--
DKC58-16	P250	2735	108	VT3	--	--	7T231	P250	--	--	VT3	--	--
DKC60-18	P250	2750	110	RR2,YGPL	--	--	8B467	P250	--	--	YGCB	--	--
DKC61-69	P250	2760	111	VT3	--	--	8K339	P250	--	--	--	--	--
DKC62-99	P250	2755	112	RR2,YGCB	--	--	8T141	P250	--	--	YGPL	--	--
DKC62-29	P250	2780	112	VT3	--	--	8T169	P250	--	--	VT3	--	--
DKC63-42	P250	2800	113	VT3	--	--	7951YGCB	P250	--	115	CB	N	Y
DKC64-79	P250	2820	114	VT3	--	--	G2 GEN. by NUTECH						
DKC67-23	P250	2830	117	RR2,YGCB	--	--	OA-715	--	--	--	--	--	--
DKC67-87	P250	2845	117	RR2,YGCB	--	--	OA-615	P250, Dyna	1310	--	--	--	Y
DYNA-GRO							KRUGER						
53V13	P250, A	2335	94	RR2,YGCB	Y	Y	1H-715 HX/LL	P250, Dyna	1315	--	HX1/LL	--	Y
54K35	P250, A	2360	96	RR	N	Y	5H-212 RR/HX	P250, Dyna	1320	--	RR2/HX1/LL	--	Y
54V78	P250, A	2400	97	VT3	Y	Y	1H-911 HX/LL	P250, Dyna	1325	--	HX1/LL	--	Y
55P86	P250, A	2545	103	RRCB	Y	Y	1X-911 HXT/LL	P250, Dyna	1325	--	HXT/LL	--	Y
56P07	P250, A	2560	104	RRCB	Y	Y	1H-716 HX/LL	P250, Dyna	1335	--	HX1/LL	--	Y
55B31	P250, A	2580	104R	YGPL CB/RWY	Y	Y	1X-716 HXT/LL	P250, Dyna	1335	--	HXT/LL	--	Y
56B83	P250, A	2625	106R	YGPL CB/RWY	Y	Y	5H-314 RR/HX	P250, Dyna	1345	--	RR2/HX1/LL	--	Y
CXO8808	P250, A	2630	106	RR	Y	Y	5H-501 RR/HX	P250, Dyna	2465	--	RR2/HX1/LL	--	Y
55B49	P250, A	2640	106R	YGPL CB/RWY	Y	Y	5H-702 RR/HX	P250, Dyna	2545	--	RR2/HX1/LL	--	Y
CXO8216	P250, A	2700	108R	YGPL CB/RWY	Y	Y	1H-005 HX/LL	P250, Dyna	2590	--	HX1/LL	--	Y
CXO7110	P250, A	2750	109	VT3	Y	Y	1H-005A HX/LL	P250, Dyna	2590	--	HX1/LL	--	Y
57P69	P250, A	2775	110	RR,CB	Y	Y	5H-506 RR/HX	P250, Dyna	2595	--	RR2/HX1/LL	--	Y
57V98	P250, A	2745	111	VT3	Y	N	5H-508 RR/HX	P250, Dyna	2650	--	RR2/HX1/LL	--	Y
57V77	P250, A	2800	111	VT3	Y	Y	AGRIGOLD						
57F06	P250, A	2805	112	CB	Y	Y	K-6298VT3	CE	--	98	RR,BT,CRW	Y	Y
57F37	P250, A	2810	112	CB	Y	Y	K-6499VT3	CE	--	99	RR,BT,CRW	Y	Y
57V44	P250, A	2810	112	RR,YGVT	Y	Y	K-1500RR	CE	2470	100	RR	Y	Y
57R91	P250, A	2825	112	RR/LL/HXX CB R	Y	Y	K-6400TS	CE	2500	100	RR,YG+	Y	Y
57V30	P250, A	2825	112	VT3	Y	Y	K-6401VT3	CE	--	101	RR,BT,CRW	Y	Y
57T61	P250, A	2820	113	RR,HX1	Y	Y	K-6102VT3	CE	--	102	RR,BT,CRW	Y	Y
57X97	P250, A	2825	113	CB	Y	Y	K-6606VT3	CE	--	106	RR,BT,CRW	Y	Y
57K71	P250, A	2830	113	RR	Y	Y	K-6006VT3	CE	2550	106	RR,YG+	Y	Y
57V62	P250, A	2835	113	VT3	Y	Y	K-6008VT3	CE	--	108	RR,BT,CRW	Y	Y
57B94	P250, A	2840	113	RR,YGPL	Y	Y	K-6210TS	CE	--	110	RR,BT,CRW	Y	Y
57P93	P250, A	2840	113	RR,YGCB	Y	Y	K-7010YG+	CE	--	110	RR,BT,CRW	Y	Y
57K41	P250, A	2850	114	RR	Y	Y	K-6011TS	CE	--	111	RR,BT,CRW	Y	Y
							K-6411VT3	CE	--	111	RR,BT,CRW	Y	Y

Table 16 continued. Entries in the 2008 Kansas Corn Performance Tests

SD TRT* GDD DBL RES P F							SD TRT GDD DBL RES P F						
KRUGER							MYCOGEN						
K-6111TS	CE	2620	111	RR,YG+	Y	Y	2T826	CE250	2790	115	RR,LL	--	Y
K-6212TS	CE	--	112	RR,BT,CRW	Y	Y	NC+						
K-8112HX	CE	--	112	RR,HXX	Y	Y	1981R	C250	--	--	--	--	--
K-6412VT3	CE	2630	112	RR,YG+	Y	Y	4022VT3	C250	--	--	--	--	--
K-6013VT3	CE	--	113	RR,BT,CRW	Y	Y	4023RB	C250	--	--	--	--	--
K-6213VT3	CE	--	113	RR,BT,CRW	Y	Y	4252VT3	C250	--	--	--	--	--
K-6114VT3	CE	--	114	RR,BT,CRW	Y	Y	5393VT3	C250	--	--	--	--	--
K-9414RR/HXT	CE	--	114	RR,HXX	Y	Y	76995S	C250	--	--	--	--	--
K-2115RR/YGCB	CE	--	115	RR,BT	Y	Y	5453VT3	C250	2830	114	RR,CB,RW	N	Y
K-6015VT3	CE	2650	115	RR,YG+	Y	Y	NUTECH						
K-6517TS	CE	2780	115	RR,YG+	N	Y	0C-404 YGCB	P250	--	--	YGCB	--	--
K-5116YGCB	CE	--	116	BT	Y	Y	1B-516 CB/LL	C250	--	--	CB/LL	--	Y
K-8616Hx	CE	2775	116	LL,HX	Y	Y	3A-414 RR	P250	--	--	RR2	--	Y
LEWIS							3A-799 RR						
910CB/RR	P250	--	110	CB,RR	N	N	3C-317 RR/YGCB	P250	--	--	RR2/YGCB	--	Y
912CB	P250	--	112	CB	N	N	3C-414 RR/YGCB	C250	--	--	RR2/YGCB	--	Y
815VT3	P250	--	115	VT3	N	Y	3P-316 RR/YGPL	P250	--	--	RR2/YGPL	--	Y
7198VT3	P250	2820	116	CBRWRR	--	Y	3P-708 RR/YGPL	P250	--	--	RR2/YGPL	--	Y
LG SEEDS							3T-109 VT3						
LG2590VT3	P250	2590	111	VT3	N	Y	3T-110 VT3	P250	--	--	VT3	--	Y
LG2620VT3	P250	2620	112	VT3	N	Y	3T-311 VT3	P250	--	--	VT3	--	Y
LG2619BT/RR	P250	2680	113	CB,RR	N	Y	3T-315 VT3	P250	--	--	VT3	--	Y
LG2619VT3	P250	2680	113	VT3	N	Y	3T-511 VT3	P250	--	--	VT3	--	Y
LG2627VT3	P250	2685	114	VT3	N	Y	3T-514 VT3	P250	--	--	VT3	--	Y
LG2641VT3	P250	2685	114	VT3	N	Y	3T-710 VT3	P250	--	--	VT3	--	Y
LG2642VT3	P250	2700	115	VT3	N	N	3T-799 VT3	C250	--	--	VT3	--	Y
MFA MORCORN							3T-809 VT3						
MC3597VT3	C	2490	105	VT3	Y	N	3T-912 VT3	P250	--	--	VT3	--	--
MC4207VT3	C	2760	112	VT3	Y	Y	3W-403 RR/YGRW	P250	--	--	RR2/YGRW	--	--
MC4507VT3	C	2760	115	VT3	Y	Y	5X-512 RR/HXT	P250	--	--	RR2/HXT/LL	--	Y
MIDLAND							1H-201 HX/LL						
MG 119BR	--	--	--	--	--	--	1X-112 HXT/LL	C250	2640	--	LL,HXTRA	N	S
MG 159HLR	--	--	--	--	--	--	3T-310 VT3	C250	2640	--	VT3	N	S
MG 658HL	--	--	--	--	--	--	0C-413 YGCB	P250	2690	--	YGCB	N	S
MG 779BT	--	--	--	--	--	--	3U-313 VTRR	C250	2690	--	RR2,YGRW	N	S
MG 126Bt	--	2510	100	CB	Y	Y	1X-114 HXT/LL	C250	2720	--	LL,HXTRA	N	S
MG 417Bt	--	2760	110	CB	Y	Y	3T-115 VT3	P250	2720	--	VT3	N	Y
MG 436Bt	--	2780	111	CB	Y	Y	0C-616 YGCB	C250	2735	--	YGCB	N	Y
MG 638RR	--	2820	113	RW,RR	Y	Y	3T-616 VT3	C250	2790	--	VT3	--	Y
MG 697Bt	--	2820	113	CB	Y	Y	OTTILIE						
MG 7A28BR	--	2840	115	CB,RR	Y	Y	EXP 11308-1BT	P250	2720	--	BT	N	N
MG 7A58BR	--	2870	117	CB,RR	Y	Y	5441VT3	CE	2800	--	VT3	Y	Y
MIDWEST SEED							4971VT3						
70006R	C250	--	--	--	--	--	5411VT3	P250	2850	--	VT3	N	N
76485VT3	C250	--	--	--	--	--	5477 RR/YGCB	MXL	--	117	RR,CB	--	Y
79123VT3	C250	--	--	--	--	--	PFISTER						
80404VT3	C250	2830	114	RR,CB,RW	N	Y	2445HXT	P250	2470	124	CB,RW,LL	N	Y
MYCOGEN							2424Hx1-RR						
2C598	CE250	2595	107	RR,LL	--	Y	2570VT3	P250	2640	127	CB,RW,RR	N	Y
2C727	CE250	2640	112	HX I,LL	--	Y	2675RW-Bt	P250	2720	129	CB, RW	N	Y
2Y737	CE250	2725	113	Hxtra,LL	N	Y	2756VT3	P250	2730	130	CB,RW,RR	N	Y
2T783	CE250	2740	114	RR,LL	--	Y	3366VT3	P250	2900	135	CB,RW,RR	N	Y
2T804	CE250	2745	114	RR,LL	--	Y							

Table 16 continued. Entries in the 2008 Kansas Corn Performance Tests

SD TRT*		GDD	DBL	RES	P	F	SD TRT	GDD	DBL	RES	P	F	
PHILLIPS						SYLVESTER							
784VT3	P250	2800	111	RR,Bt	Y	Y	715BRW	--	--	--	--	--	
7B15RRYGCB	P250	2800	111	RR,CB	Y	Y	779BT	--	--	--	--	--	
795YGCB	P250	2820	111	VT3	Y	Y	7A28BR	--	--	--	--	--	
793VT3	P250	2800	112	VT3	Y	Y	7A58BR	--	--	--	--	--	
7A29RRYGCB	P250	2850	113	RR,CB	Y	Y	TAYLOR						
PIONEER													
35P10 YGCB,RR2	P250	2530	104	CB,RR	N	Y	930	P250	--	110	--	Y	Y
35K03 HX1,LL,RR2	P250	2530	106	LL,RR	N	Y	2230	P250	--	112	RR CB	--	--
35F40 HX1,LL,RR2	P250	2550	106	CB,RR	Y	Y	644	P250	--	112	--	N	N
34R67 HX1,LL,RR	P250	2580	109	LL,RR	N	Y	C-36112	P250	--	112	VT3	--	--
PREMIUM													
P244Bt	--	2450	--	YG	N	Y	C-113-08	P250	--	113	VT3	--	--
P246Bt	--	2500	--	YG	N	Y	2260	P250	--	114	--	N	N
P249Bt	--	2500	--	YG	N	Y	C-114-08	P250	--	114	VT3	--	--
P254	--	2500	--	--	N	Y	690	P250	--	118	RR	--	--
P236Bt	--	2550	--	YG	N	Y	TRIUMPH						
P252Bt	--	2550	--	YG	N	Y	3203CBRR	P250	2290	103	CB/RR	N	Y
PRODUCERS													
5624VT3	P250	--	--	RR,CB,RW	--	Y	6512VT3	P250	2350	106	VT3	N	Y
5684VT3	P250	--	--	RR,CB,RW	--	Y	8607CbRR	P250	2410	108	CB/RR	N	Y
5734VT3	P250	--	--	RR,CB,RW	--	Y	1109VT3	P250	2470	111	VT3	N	Y
7254VT3	P250	--	--	RR,CB,RW	--	Y	1536VT3	P250	2550	115	CB,RR	N	Y
7325VT3	P250	--	--	RR,CB,RW	--	Y	1608VT3	P250	2570	116	VT3	N	Y
7374VT3	P250	--	--	RR,CB,RW	--	Y	1706HXRR	P250	2630	117	VT3	N	Y
7394VT3	P250	--	--	RR,CB,RW	--	Y	1802CBRR	P250	2630	118	CB/RR	N	Y
7414VT3	P250	--	--	RR,CB,RW	--	Y	1977CbRR	P250	2650	119	CB/RR	N	Y
7514VT3	P250	--	--	RR,CB,RW	--	Y	MATURITY CHECK						
7624VT3	P250	--	--	RR,CB,RW	--	Y	MID-NC+5392B	--	--	--	--	--	--
6944VT3	P250	2550	--	RR,Bt,RW	--	Y	SHRT-DKC50-20	--	2528	100	RR,CB	--	Y
7134VT3	P250	2575	--	RR,Bt,RW	--	Y	FULL-R8526YGCB	--	2800	118	CB	N	Y
RENZE													
1185VT3	P250	2450	101	RR,CB,RW	Y	Y							
8199YGCB	P250	2520	103	CB	Y	Y							
5X268HXT/LL	--	2620	106	LL,CB,RW	Y	Y							
4296LL	--	2680	107	LL	Y	Y							
5X347HXT/LL	P250	2770	111	LL,CB,RW	Y	Y							
5X389HXT/LL	--	2775	112	LL,CB,RW	Y	Y							
1399VT3	P250	2780	113	RR,CB, RW	Y	Y							
5X479HXT/LL	--	2785	113	LL,CB,RW	Y	Y							
7409RR2	P250	2785	113	RR	Y	N							
1499VT3	P250	2850	116	RR,CB,RW	Y	Y							
1526VT3	P250	2870	117	RR,CB,RW	Y	Y							
STINE													
9724RRYGCB	P250	2550	112	RR,CB	N	Y							
9725VT3	P250	2620	114	RR/RW/CB	N	Y							
9806RRYGCR	P250	2620	116	RR,CB	N	Y							
SYLVESTER													
417Bt	--	--	--	--	--	--							
417HL	--	--	--	--	--	--							
436BT	--	--	--	--	--	--							
638RR	--	--	--	--	--	--							
658HL	--	--	--	--	--	--							
697BT	--	--	--	--	--	--							

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

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