

2008

Kansas Performance Tests with **Grain Sorghum Hybrids**

Report of Progress 1004



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

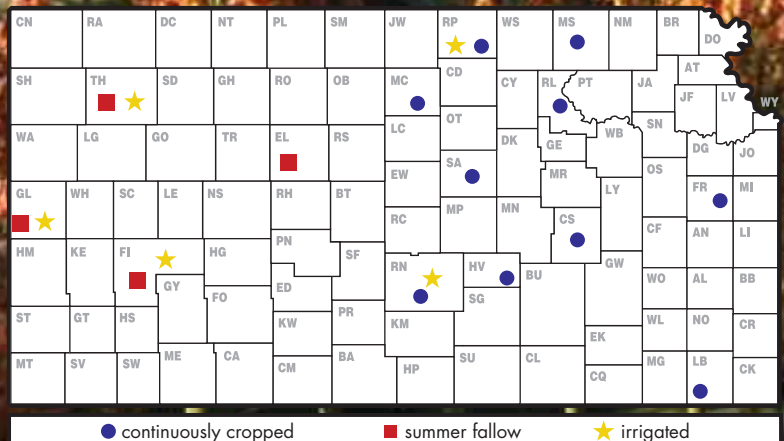


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2008 GRAIN SORGHUM CROP REVIEW

Statewide Growing Conditions

The grain sorghum crop progressed slowly for much of Kansas in 2008. Planting and emergence of grain sorghum was in May and June, and some fields were not planted until mid-July. Unseasonably cool weather during the summer months delayed development of the crop, and plant maturation trailed behind last year and the 5-year average throughout the growing season. Increased rainfall in September and October postponed harvest for much of the state. By November 17, only 73% of the crop had been harvested.

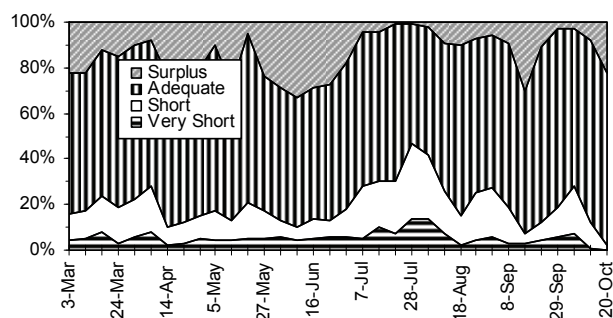


Figure 1. Statewide status of topsoil moisture

The slow progression helped to sustain the quality of the 2008 grain sorghum crop throughout most of the growing season. At its lowest point in August, 57% of the crop was still rated as good or excellent.

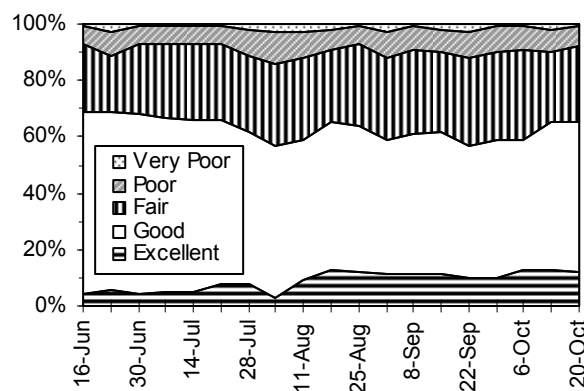


Figure 2. Condition of 2008 Kansas sorghum crop

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

Diseases

The 2008 Kansas grain sorghum crop was mostly healthy. Frequent rains in some parts of eastern Kansas caused a few problems.

Leaf health was mostly good. However, moderate levels of sooty stripe developed where susceptible hybrids were planted into old sorghum debris. Some late season rust was present around the state but does not appear to have caused any economic loss.

The most significant diseases were head blight and grain mold. Both of these diseases become a problem when frequent rainfalls occur from pollination through harvest. Fusarium head blight can cause reduced seed size and a weakened neck that can cause heads to lodge. Several molds can occur; the most common ones are *Cladosporium*, *Curvularia*, and *Alternaria*. These molds will usually be black to gray in color. They are often worse on heads where kernels were previously damaged by bird or head worm feeding.

Because late planting resulted in pollination occurring later in the summer when lower nighttime temperatures can cause pollen sterility, it was expected that ergot might become a problem. However, no reports of the disease had been received by mid-October.

Other diseases reported in 2008 included Fusarium stalk rot, sorghum downy mildew, crazy top downy mildew, bacterial stripe, northern corn leaf blight, gray leaf spot, and maize dwarf mosaic virus (MDMV). Although the incidence of MDMV was still low, it was much more common than in any recent years. It is not clear why the disease was more common in 2008. (Doug Jardine, Kansas State University Department of Plant Pathology)

Insects

Sorghum endured multiple waves of insect pests throughout the state this year. Scattered reports of chinch bugs causing seedling problems were received from throughout south central and north central Kansas. Infestations seemed more numerous than in the previous four years, and even late season chinch bug infestations caused some concern as seeds were being fed upon. Whorl stage plants were then attacked by massive infestations of fall armyworms and cattail caterpillars. This also caused much concern as the leaf / whorl feeding was readily apparent but had little effect on yield. Sorghum headworms (primarily corn earworms) started attacking the heads at flowering, and many acres were treated to avoid yield reductions. Sorghum midge infestations in southeast and south central Kansas continued to be more evident this year than average and have become more numerous in the last three years which is probably related to planting date. Late-planted sorghum is more susceptible than "normal" planted sorghum. (Jeff Whitworth, Kansas State University Department of Entomology)

Harvest Statistics

The Kansas Agricultural Statistics Service predicted a 209.0 million-bushel crop in the October 10 Crops Report, down 1% from last year (Figure 3). The number of acres harvested was up 100,000 acres from last year, at 2.75 million. The average yield estimate of 76 bushels per acre was 4 bushels below last year's yield. (Kansas Agricultural Statistics Service, Topeka)

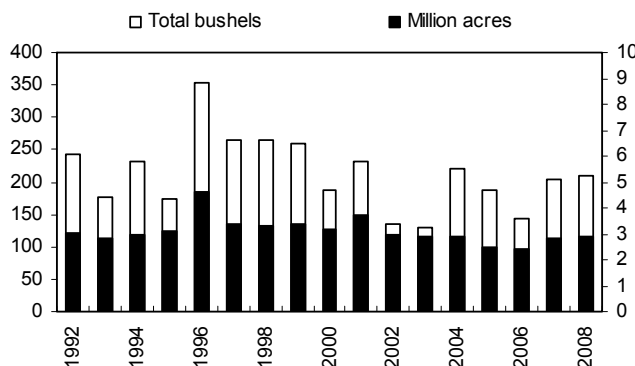


Figure 3. Historical Kansas grain sorghum production

2008 PERFORMANCE TESTS

Objectives and Procedures

Grain Sorghum 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 grain sorghum hybrids marketed in the state. Entry fees from private seed companies help finance the tests. Seed companies receive test announcements and entry forms in late January each year; deadlines for receipt of completed entry forms and seed are in mid-March. 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 at all test locations.

A summary of growing-season weather data is given in individual test discussions. These data are from the nearest weather-reporting station and often are supplemented with information from the test site. Precipitation graphs include cumulative lines for 2008 and the 30-year normal in addition to daily rainfall amounts since last fall. Temperature graphs include daily maximum and minimum temperatures compared with normal. General trends in precipitation and temperature relative to normal are readily observed in the graphs. A table with monthly totals and averages for the growing season also is included.

The growth unit or growing degree day concept was developed to measure the amount of heat available for growth and maturation. To calculate the daily growing degree day accumulation, add the maximum temperature and the minimum temperature for each day, divide by 2, and

subtract a base temperature of 35°F. Any temperature below 35°F was considered to be 35°F.

Explanatory information precedes data summaries for each test. Tables 2 through 25 contain results from the individual performance tests. Hybrids are listed in order of increasing days to half bloom and increasing grain moisture for the current year, so hybrids of similar maturity appear together.

Figures 4 through 8 graphically summarize yield and maturity information over the past 3 years for each region. In these figures, hybrid performance is standardized by using the average of two check hybrids present in every test. 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 if performance of a hybrid was significantly greater (+) or lower (-) than the average performance of the check hybrids. As with individual test results, small differences should not be overemphasized. Relative ranking and large differences are better indicators of performance.

Most tests were planted at a rate 25 to 30% greater than the desired population and thinned only to remove doubles. Planting to stand enables evaluation of product performance for the entire growing season.

Three or four plots (replications) of each hybrid were grown in a randomized complete block design at each location. Each harvested plot consisted of two rows trimmed to a specific length ranging from 20 to 30 feet at the different locations. Tests were harvested with specialized plot combines equipped with automatic weighing and sampling devices.

Grain yields are reported as bushels per acre of shelled grain (56 lb/bu) adjusted to a moisture content of 12.5%. Yields also are presented as a 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 must also be considered.

The percentage of lodged stalks is reported when appropriate. Both broken stalks and stalks leaning more than 45 degrees from vertical were considered lodged, although most were harvestable with modern machinery. Severely lodged stalks or dropped heads 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 could lodge simply because they must wait well past their optimum harvest date.

Relative maturity is measured in terms of both number of days from planting to half bloom and grain moisture at harvest. Maturity can be critical when considering a sorghum hybrid for a specific cropping system.

Small differences in yield or other characteristics should not be overemphasized. Least significant differences (LSD) are shown at the bottom of each table. Unless two entries differ by at least the LSD shown, little confidence can be placed in one being superior to the other.

The coefficient of variability (CV) can be used to estimate the degree of confidence one can have in published data from replicated tests. In this testing program, a CV of less than 10% generally indicates reliable, uniform data, whereas a CV of 10 to 15% is not uncommon and usually indicates that data are acceptable for the rough performance comparisons desired from these tests. Tests with a CV greater than 15% still may be useful, especially in situations with low yields.

Table 1. Entrants in the 2008 Kansas Grain Sorghum Performance Tests

Advanced Genetics DeLange Seed Girard, KS 620-724-6223 delangeseed.com	Fontanelle Hybrids Fremont, NE 402-721-1410 fontanelle.com	Mycogen Seeds Indianapolis, IN 1-800-MYCOGEN mycogen.com	Sorghum Partners, Inc. New Deal, TX 806-746-5566 sorghum-partners.com
Asgrow/DeKalb Monsanto Seed St. Louis, MO 314-694-1000 monsanto.com	Garst /Golden Harvest Syngenta Seeds, Inc Golden Valley, MN 763-593-7333	Ohlde Seed Farms Palmer, KS 785-692-4555	Triumph Seed Co., Inc. Ralls, TX 888-521-7333 triumphseed.com
Drussel Seed, Inc. Garden City, KS 620-275-2359	Golden World Crosbyton Seed Crosbyton, TX 800-675-2308 Crosbytonseed.com	Pioneer Brand Pioneer Hi-Bred, Intl., Inc. Lincoln, NE 402-467-5458 pioneer.com	
Dyna-Gro UAP-Pueblo Goddard, KS 800-950-2231 uap.com	Midland Kauffman Seeds Haven, KS 620-465-2245		

NORTHEAST KANSAS NO-TILL GRAIN SORGHUM TEST

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

Kipson silty clay loam; Soybeans in 2007

130 - 0 - 0 lb/a N, P, K

Planted on 5/5/2008; Harvested on 9/17/2008

Target stand of 55,000 plants/acre; 3.8 in. spacing

Extremely heavy rains after planting affected emergence and stands. Bird damage was significant for some plots.

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

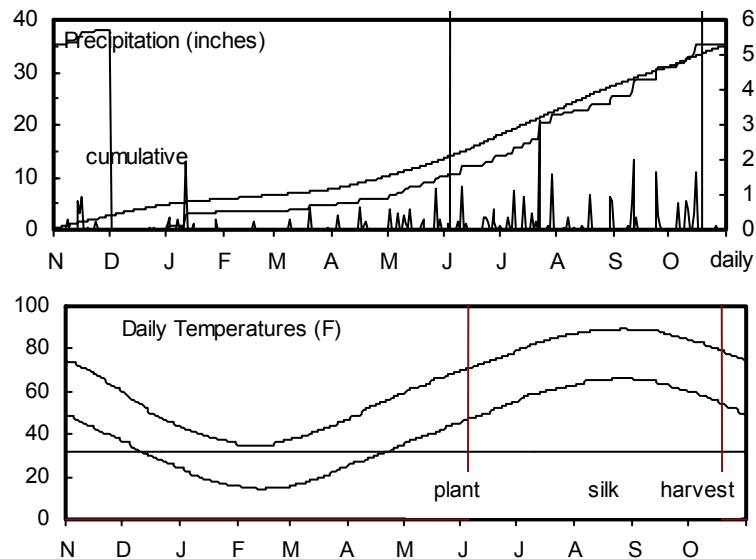


Table 2. Marshall County No-Till Dryland Grain Sorghum Performance Test, 2006-2008

BRAND	NAME	ACRE YIELD, BUSHELS					YIELD AS % OF TEST			2007- 2008		2008						
		2008	2007	2006	2-Yr.		2008	2007	2006	Days to Blm	Grain Moist. %	Days to Blm	Grain Moist. %	Test Wt. lb/bu	Plnt Ht. in.	Ldg %	Pop. 1000 ppa	Hds per Plnt
					AVG.	AVG.												
							AVERAGE											
DEKALB	DKS54-00	121	--	--	--	--	112	--	--	--	--	--	14	56	49	--	--	1.1
DEKALB	DKS37-07	108	--	--	--	--	100	--	--	--	--	--	14	57	49	--	--	1.1
DEKALB	DKS36-16	112	--	--	--	--	104	--	--	--	--	--	14	55	38	--	--	1.0
DEKALB	DKS53-67	120	--	--	--	--	111	--	--	--	--	--	16	57	50	--	--	1.0
DEKALB	DKS 44-20	93	--	--	--	--	86	--	--	--	--	--	16	57	48	--	--	1.1
DYNA-GRO	772B	117	--	--	--	--	108	--	--	--	--	--	15	57	45	--	--	1.0
DYNA-GRO	764B	96	--	--	--	--	89	--	--	--	--	--	13	54	46	--	--	1.1
GARST	5750	101	--	--	--	--	93	--	--	--	--	--	13	57	50	--	--	1.1
GARST	5464	119	--	--	--	--	110	--	--	--	--	--	15	57	41	--	--	0.9
GARST	5676	87	--	--	--	--	81	--	--	--	--	--	14	55	43	--	--	1.1
MATURITY CHECK	OK11xTX2741	92	--	--	--	--	85	--	--	--	--	--	12	54	44	--	--	1.0
MATURITY CHECK	PIO-86G08	116	--	--	--	--	107	--	--	--	--	--	12	55	47	--	--	1.2
MATURITY CHECK	TX2752xTX430	97	--	--	--	--	90	--	--	--	--	--	14	55	47	--	--	1.0
PIONEER	84G62	122	--	--	--	--	113	--	--	--	--	--	15	57	44	--	--	1.0
PIONEER	85Y40	120	--	--	--	--	111	--	--	--	--	--	15	57	44	--	--	1.1
PIONEER	85G03	116	--	--	--	--	107	--	--	--	--	--	15	57	42	--	--	1.0
SORG. PARTNERS	NK6638	100	--	--	--	--	92	--	--	--	--	--	14	56	43	--	--	1.0
	AVERAGES	108	--	--	--	--	108	--	--	--	--	--	14	56	45	--	--	1.1
	CV (%)	10	--	--	--	--	10	--	--	--	--	--	5	1	6	--	--	5.1
	LSD (0.05)*	15	--	--	--	--	14	--	--	--	--	--	1	1	0	--	--	0.1

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

NORTHEAST KANSAS DRYLAND GRAIN SORGHUM TEST

Agronomy North Farm, Manhattan; Jane Lingenfelter, agronomist

Reading silt loam; Soybeans in 2007

130 - 30 - 0 lb/a N, P, K

Planted on 5/16/2008; Harvested on 9/25/2008

Target stand of 55,000 plants/acre; 3.8 in. spacing

Very favorable conditions throughout growing season.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	7.2	6.0	35	35		
April	2.3	2.7	50	53	487	575
May	4.8	4.5	63	64	877	918
June	12.0	5.1	74	73	1171	1158
July	5.1	3.9	78	79	1347	1369
August	4.6	3.5	75	78	1217	1317
Sept.	5.4	3.8	67	70	908	1035
Oct.	4.4	2.8	61	57	668	698
Totals:	45.8	32.4	53	54	6,675	7,070

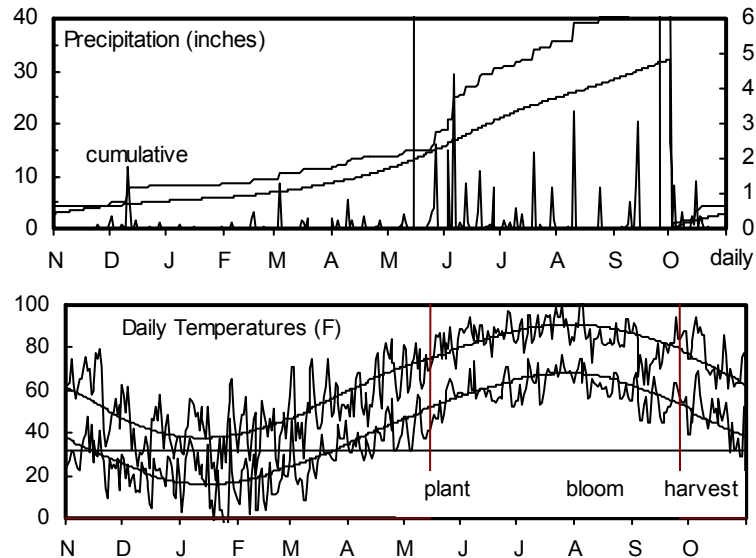


Table 3. Riley County Dryland Grain Sorghum Performance Test, 2006-2008

BRAND	NAME	YIELD AS %									2007-2008		2008							Pop. 1000 ppa	Hds per Plnt
		ACRE YIELD, BUSHELS					OF TEST			Days to Blm	Grain to Moist. %	Days to Blm	Grain to Moist. %	Test Wt. lb/bu	Plnt Ht. in.	Ldg %					
		2008	2007	2006	2-Yr.	3-Yr.	AVERAGE	2008	2007								2006				
					AVG.	AVG.															
MATURITY CHECK	PIO-86G08	112	112	101	112	108	89	91	97	66	12	66	12	53	51	--	55.2	0.9			
PIONEER	85G03	134	--	--	--	--	106	--	--	--	--	67	16	55	54	--	45.4	1.2			
PIONEER	85Y40	135	109	101	122	115	108	88	97	69	15	68	16	55	55	--	50.3	1.0			
DEKALB	DKS36-16	99	123	100	111	108	79	100	96	69	15	69	17	54	50	--	52.8	0.9			
DYNA-GRO	764B	114	129	93	122	112	91	105	89	67	13	69	14	53	44	--	41.9	1.1			
DYNA-GRO	766B	123	--	--	--	--	98	--	--	--	--	70	14	55	50	--	49.6	1.0			
DYNA-GRO	GX07664	115	--	--	--	--	92	--	--	--	--	70	18	54	48	--	50.0	1.1			
MATURITY CHECK	OK11xTX2741	103	123	92	113	106	82	100	87	70	13	70	13	54	46	--	42.6	1.0			
DEKALB	DKS37-07	120	112	103	116	112	96	91	99	68	14	70	16	55	53	--	56.1	0.9			
SORG. PARTNERS	NK6638	129	108	--	119	--	103	88	--	70	14	70	16	56	55	--	57.8	1.0			
DEKALB	DKS44-20	142	--	--	--	--	113	--	--	--	--	71	17	56	54	--	40.3	1.3			
PIONEER	84G62	126	111	119	119	119	101	90	113	71	15	72	17	56	51	--	46.1	1.0			
DYNA-GRO	772B	137	--	113	--	--	109	--	108	--	--	73	19	55	57	--	54.9	1.0			
DYNA-GRO	751B	138	129	104	134	124	110	105	99	71	14	73	15	57	56	--	52.5	0.9			
FONTANELLE	GE-4532	137	128	--	132	--	109	104	--	71	16	73	19	55	55	--	64.5	0.8			
DEKALB	DKS53-67	138	114	--	126	--	110	92	--	72	16	73	20	57	59	--	53.2	0.9			
MATURITY CHECK	TX2752xTX430	136	129	107	133	124	108	105	102	71	15	73	17	55	55	--	45.5	0.9			
DEKALB	DKS54-00	148	143	111	146	134	118	117	106	72	15	73	17	56	61	--	59.4	0.9			
FONTANELLE	GE-5615	114	125	103	120	114	91	102	98	73	17	74	20	53	55	--	57.4	0.9			
DYNA-GRO	778B	111	--	--	--	--	89	--	--	--	--	75	24	55	66	--	54.5	0.8			
	AVERAGES	126	123	105	124	118	126	123	105	70	15	71	17	55	54	--	51.5	1.0			
	CV (%)	6	7	5	--	--	6	7	5	--	--	2	9	2	3	--	7.4	7.5			
	LSD (0.05)*	11	12	8	--	--	8	10	7	--	--	2	2	1	0	--	3.7	0.1			

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

NORTHEAST KANSAS DRYLAND GRAIN SORGHUM TEST

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

Crete silt loam; Soybeans in 2007

150 - 30 - 5 lb/a N, P, K

Planted on 6/10/2008; Harvested on 11/4/2008

Target stand of 50,000 plants/acre; 4.2 in. spacing

Planting was delayed by very wet conditions.
Cooler than normal temperatures slowed plant maturation.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar.	9.6	4.9	33	32	0	0
April	7.5	2.3	51	52	516	547
May	5.0	3.7	64	63	894	896
June	3.4	4.6	74	73	1163	1157
July	4.5	3.4	79	78	1370	1370
August	0.0	3.4	75	77	1231	1304
Sept.	0.0	3.5	66	68	941	976
Oct.	0.0	1.8	55	55	612	636
Totals:	30.0	27.5	52	52	6,727	6,886

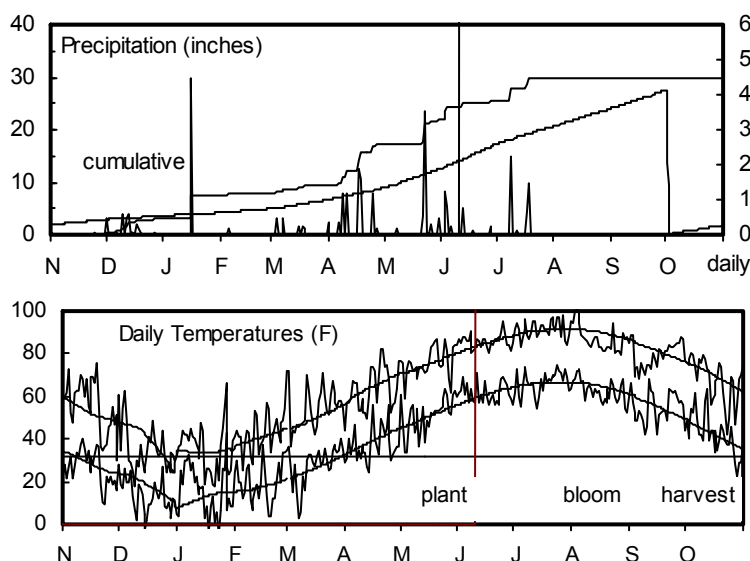


Table 4. Republic County Dryland Grain Sorghum Performance Test, 2006-2008

BRAND	NAME	YIELD AS %										2007-2008		2008					
		ACRE YIELD, BUSHELS					OF TEST			Days to Blm	Grain Moist. %	Days to Blm	Grain Moist. %	Test Wt. lb/bu	Plnt Ht. in.	Pop. Ldg %	Hds 1000 ppa	per Plnt	
		2008	2007	2006	2-Yr. AVG.	3-Yr. AVG.	AVERAGE												
							2008	2007	2006										
GARST	5676	130	--	--	--	--	84	--	--	--	--	59	15	60	46	0	46.7	1.0	
GOLDEN WORLD	GW2045	124	--	--	--	--	80	--	--	--	--	59	15	60	47	0	48.3	1.1	
PIONEER	86G32	150	--	--	--	--	97	--	--	--	--	59	15	60	47	0	48.9	1.0	
MATURITY CHECK	PIO-86G08	134	127	130	131	130	87	101	99	58	15	59	15	60	46	1	46.7	1.0	
OHLDE	O-525	135	118	131	127	128	88	94	100	58	15	59	15	60	50	0	48.3	1.0	
DEKALB	DKS36-16	147	114	126	131	129	95	90	97	58	15	60	15	60	47	1	47.2	1.0	
DEKALB	DKS37-07	155	129	124	142	136	101	102	95	59	16	60	16	60	48	1	44.4	1.0	
TRIUMPH	TR 458	145	120	--	133	--	94	95	--	60	16	60	16	60	50	0	46.7	1.1	
DEKALB	DKS44-20	178	--	--	--	--	115	--	--	--	--	61	16	60	50	2	47.0	1.0	
OHLDE	O-530	123	--	--	--	--	80	--	--	--	--	61	16	60	46	0	47.9	1.0	
MATURITY CHECK	OK11xTX2741	133	112	102	123	116	86	89	78	59	16	61	16	60	45	0	44.5	1.0	
PIONEER	85G03	154	--	--	--	--	100	--	--	--	--	62	16	60	51	1	46.9	1.0	
FONTANELLE	GE-4532	175	121	--	148	--	113	96	--	60	16	62	16	60	49	0	47.2	1.0	
OHLDE	O-567	162	128	132	145	141	105	102	101	61	15	62	16	60	49	1	45.9	1.0	
DYNA-GRO	772B	176	--	133	--	--	114	--	102	--	--	63	16	60	52	0	47.7	1.0	
GOLDEN HARVEST	H-307	123	--	--	--	--	80	--	--	--	--	63	16	60	48	2	46.8	1.0	
GOLDEN HARVEST	H-390W	128	--	--	--	--	83	--	--	--	--	63	16	60	44	0	46.2	1.0	
DYNA-GRO	764B	124	107	119	116	117	80	85	91	60	16	63	17	60	49	0	48.1	1.0	
GOLDEN WORLD	GWX1445	148	129	--	138	--	96	102	--	62	15	63	16	60	45	1	47.3	1.0	
GOLDEN WORLD	GWX3045	137	125	--	131	--	89	99	--	60	15	63	16	60	46	1	48.4	1.0	
OHLDE	O-575	166	129	133	147	142	108	102	101	62	16	63	16	60	50	2	47.4	1.0	
DEKALB	DKS53-67	188	145	--	166	--	122	115	--	62	16	64	17	60	51	2	49.0	1.0	
DYNA-GRO	751B	166	132	124	149	141	108	105	95	62	16	64	16	59	51	0	48.9	1.0	
DYNA-GRO	766B	156	132	--	144	--	101	105	--	61	15	64	16	60	48	0	46.8	1.0	
DYNA-GRO	GX07664	142	131	--	137	--	92	104	--	62	15	64	16	60	45	0	49.3	1.0	

Table 4 continued. Republic County Dryland Grain Sorghum Performance Test, 2006-2008

BRAND	NAME	YIELD AS %																
		ACRE YIELD, BUSHEL					OF TEST			2007-2008				2008				
		2-Yr.		3-Yr.		AVERAGE	Days to Blm	Grain % Moist.	Days to Blm	Grain % Moist.	Test Wt. lb/bu	Plnt in.	Pop. 1000 ppa	Hds per Plnt				
		2008	2007	2006	AVG.										AVG.	2008	2007	2006
GOLDEN WORLD	GW 1467	168	124	--	146	--	109	99	--	62	16	64	16	60	50	1	48.1	1.0
PIONEER	84G62	191	147	162	169	167	123	117	124	62	16	64	17	60	49	1	46.7	1.0
PIONEER	85Y40	164	143	153	154	153	106	114	117	61	16	64	16	60	49	0	45.2	1.0
GOLDEN HARVEST	H-508W	152	--	--	--	--	98	--	--	--	--	65	17	59	48	0	46.5	1.0
DEKALB	DKS54-00	187	150	135	169	158	121	119	103	62	16	65	16	60	53	0	45.9	1.0
DYNA-GRO	778B	181	133	--	157	--	117	106	--	63	16	65	17	60	57	0	45.9	1.0
FONTANELLE	GE-5615	181	141	140	161	154	117	112	107	62	16	65	17	60	51	0	47.6	1.0
GARST	5464	173	146	--	160	--	112	116	--	62	16	65	17	60	50	0	44.5	1.0
MATURITY CHECK	TX2752xTX430	172	131	126	151	143	111	104	96	62	16	65	17	60	51	0	48.2	1.0
OHLDE	O-587	170	128	--	149	--	110	102	--	62	16	65	17	60	49	0	46.6	1.0
SORG. PARTNERS	NK6638	141	115	--	128	--	92	92	--	62	16	65	17	60	49	0	47.5	1.0
GARST	5750	122	--	119	--	--	79	--	91	--	--	66	16	60	48	2	45.9	1.0
TRIUMPH	TR 481	166	137	130	151	144	107	109	99	63	16	66	17	60	52	1	45.9	1.0
	AVERAGES	154	126	131	140	137	154	126	131	61	15	63	16	60	49	1	47.0	1.0
	CV (%)	6	5	4	--	--	6	5	4	--	--	1	2	1	4	276	4.9	2.2
	LSD (0.05)*	15	11	9	--	--	10	9	7	--	--	1	1	1	3	2	3.9	0.0

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

NORTH CENTRAL DRYLAND GRAIN SORGHUM TEST

Farmer's field, Beloit; Barney Gordon, agronomist; Michael Larson and Doug Stensaas, technicians

Harney silt loam; Grain sorghum in 2007

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

Planted on 6/10/2008; Harvested on 11/17/2008

Target stand of 50,000 plants/acre; 4.2 in. spacing

Planting was delayed in the spring by wet conditions; wet weather delayed harvest as well, but stalks stood well.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	4.3		33			
April	2.5		48		424	
May	4.0		62		835	
June	2.2		75		1197	
July	5.1		79		1369	
August	0.0		75		1242	
Sept.	0.1		67		971	
Oct.	0.0		55		635	
Totals:	18.2		52		6,673	

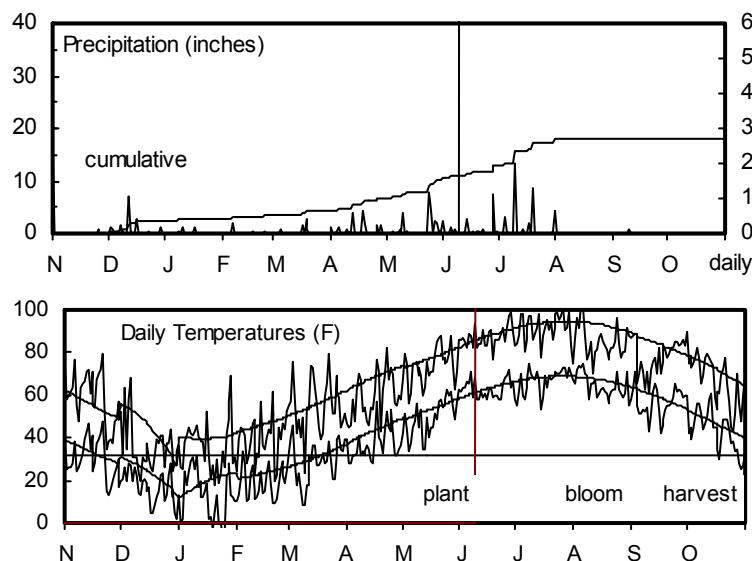


Table 5. Mitchell County Dryland Grain Sorghum Performance Test, 2006-2008

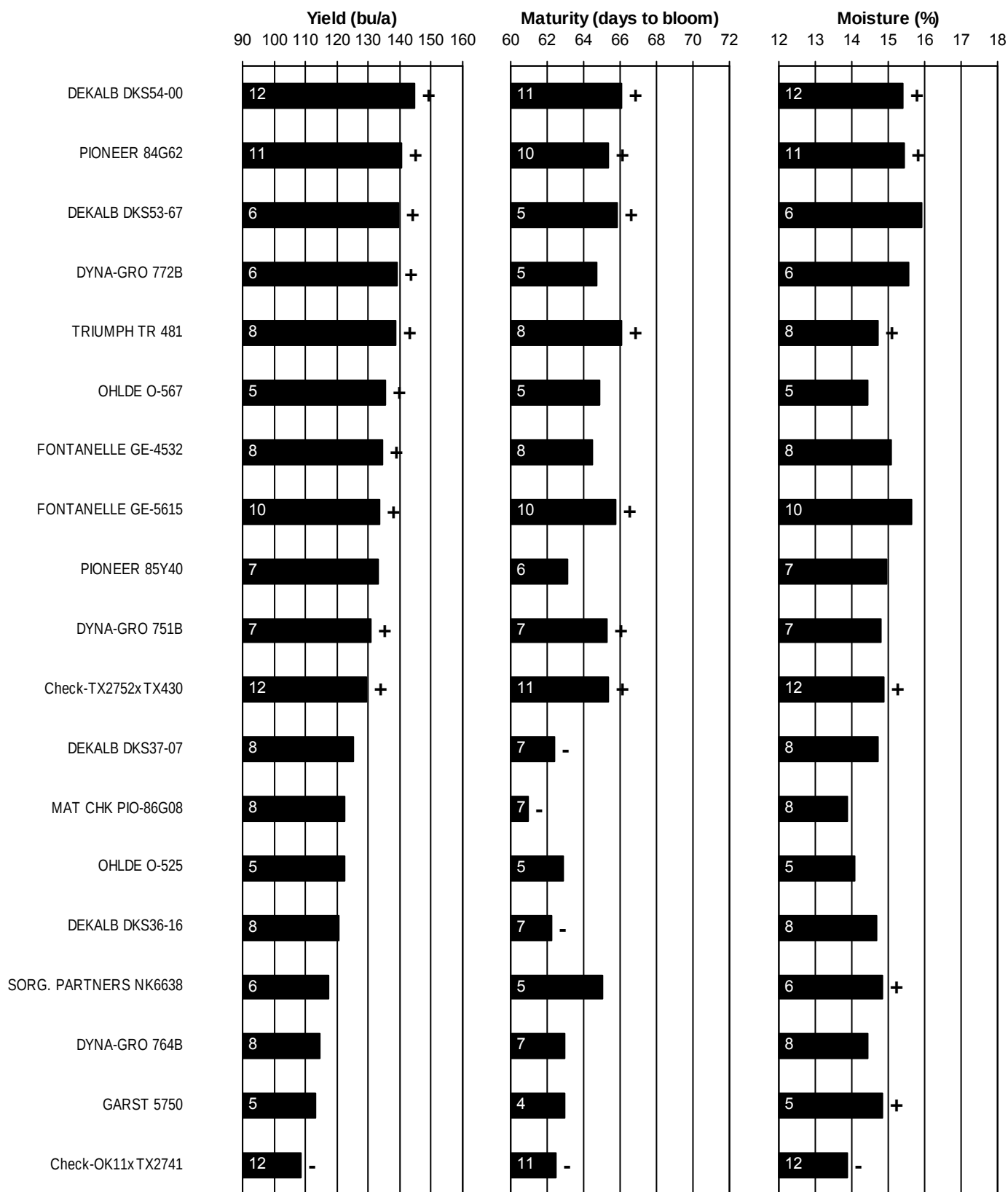
BRAND	NAME	YIELD AS % 2007-2008										2008					
		ACRE YIELD, BUSHELS					OF TEST					2008					
				2-Yr.		3-Yr.	AVERAGE					Days Grain		Days Grain		Test Plnt	
		2008	2007	2006	AVG.	AVG.	2008	2007	2006	Days to Blm	% Moist.	Days to Blm	% Moist.	Wt. lb/bu	Ht. in.	Ldg %	Pop. 1000 ppa
MATURITY CHECK	OK11xTX2741	112	--	--	--	--	77	--	--	--	--	58	16	60	46	0	46.8
MATURITY CHECK	PIO-86G08	147	--	--	--	--	101	--	--	--	--	58	16	60	50	0	50.3
DEKALB	DKS36-16	143	--	--	--	--	98	--	--	--	--	59	16	60	47	0	54.0
OHLDE	O-530	134	--	--	--	--	91	--	--	--	--	59	16	60	44	0	51.3
PIONEER	86G32	142	--	--	--	--	97	--	--	--	--	59	16	60	48	0	53.3
DEKALB	DKS37-07	152	--	--	--	--	104	--	--	--	--	60	16	61	49	0	50.2
DEKALB	DKS44-20	153	--	--	--	--	105	--	--	--	--	61	16	61	49	0	46.2
DYNA-GRO	766B	151	--	--	--	--	103	--	--	--	--	61	16	60	50	2	52.5
DYNA-GRO	GX07664	137	--	--	--	--	93	--	--	--	--	61	16	60	46	0	53.0
MYCOGEN	M3838	136	--	--	--	--	93	--	--	--	--	61	16	60	43	0	51.7
OHLDE	O-525	141	--	--	--	--	97	--	--	--	--	61	16	60	48	0	51.9
OHLDE	O-567	157	--	--	--	--	107	--	--	--	--	61	16	60	48	0	54.9
PIONEER	85G03	163	--	--	--	--	111	--	--	--	--	61	16	60	51	0	54.0
PIONEER	85G46	158	--	--	--	--	108	--	--	--	--	61	16	60	50	1	44.7
DYNA-GRO	751B	146	--	--	--	--	100	--	--	--	--	62	16	60	50	0	48.7
DYNA-GRO	764B	136	--	--	--	--	93	--	--	--	--	62	16	60	48	1	48.1
DYNA-GRO	772B	150	--	--	--	--	103	--	--	--	--	62	16	60	49	0	50.1
MYCOGEN	1G600	150	--	--	--	--	102	--	--	--	--	62	16	60	48	0	50.6
OHLDE	O-575	152	--	--	--	--	104	--	--	--	--	62	16	61	49	0	54.2
OHLDE	O-587	161	--	--	--	--	110	--	--	--	--	62	13	60	49	0	45.4
TRIUMPH	TR 463	140	--	--	--	--	96	--	--	--	--	62	16	60	50	2	47.6
DEKALB	DKS53-67	160	--	--	--	--	109	--	--	--	--	63	16	61	49	0	52.4
DEKALB	DKS54-00	162	--	--	--	--	111	--	--	--	--	63	16	61	53	0	51.0
DYNA-GRO	778B	140	--	--	--	--	96	--	--	--	--	63	16	60	56	0	52.2
FONTANELLE	GE-4532	162	--	--	--	--	110	--	--	--	--	63	16	60	50	2	50.4
FONTANELLE	GE-5615	155	--	--	--	--	106	--	--	--	--	63	16	60	51	2	50.2
MATURITY CHECK	TX2752xTX430	138	--	--	--	--	94	--	--	--	--	63	16	60	51	3	45.9
MYCOGEN	697	133	--	--	--	--	91	--	--	--	--	63	16	60	48	0	54.0
MYCOGEN	737	135	--	--	--	--	92	--	--	--	--	63	16	60	47	0	50.5
TRIUMPH	TR 481	159	--	--	--	--	108	--	--	--	--	63	16	60	53	0	45.3
SORG. PARTNERS	NK6638	135	--	--	--	--	93	--	--	--	--	64	16	60	48	0	48.2
	AVERAGES	146	--	--	--	--	146	--	--	--	--	62	16	60	49	0	50.3
	CV (%)	6	--	--	--	--	6	--	--	--	--	1	7	0	3	335	--
	LSD (0.05)*	14	--	--	--	--	9	--	--	--	--	1	2	0	3	2	7.4

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

Table 6. NORTHEAST Kansas Grain Sorghum Hybrid Yield Summary (% of test avg.), 2008

BRAND/NAME	MSD*	RLD	RPD	MTD	AVG.	BRAND/NAME	MSD	RLD	RPD	MTD	AVG.
DEKALB						MYCOGEN					
DKS36-16	104	79	95	98	94	1G600	--	--	--	102	--
DKS37-07	100	96	101	104	100	697	--	--	--	91	--
DKS44-20	86	113	115	105	105	737	--	--	--	92	--
DKS53-67	111	110	122	109	113	M3838	--	--	--	93	--
DKS54-00	112	118	121	111	115	OHLDE					
DYNA-GRO						O-525	--	--	88	97	--
751B	--	110	108	100	--	O-530	--	--	80	91	--
764B	89	91	80	93	88	O-567	--	--	105	107	--
766B	--	98	101	103	--	O-575	--	--	108	104	--
772B	108	109	114	103	109	O-587	--	--	110	110	--
778B	--	89	117	96	--	PIONEER					
GX07664	--	92	92	93	--	84G62	113	101	123	--	--
FONTANELLE						85G03	107	106	100	111	106
GE-4532	--	109	113	110	--	85G46	--	--	--	108	--
GE-5615	--	91	117	106	--	85Y40	111	108	106	--	--
GARST						86G32	--	--	97	97	--
5464	110	--	112	--	--	SORG. PARTNERS					
5676	81	--	84	--	--	NK6638	92	103	92	93	95
5750	93	--	79	--	--	TRIUMPH					
GOLDEN HARVEST						TR 458	--	--	94	--	--
H-307	--	--	80	--	--	TR 463	--	--	--	96	--
H-390W	--	--	83	--	--	TR 481	--	--	107	108	--
H-508W	--	--	98	--	--	MATURITY CHECK					
GOLDEN WORLD						OK11xTX2741	85	82	86	77	83
GW 1467	--	--	109	--	--	PIO-86G08	107	89	87	101	96
GW2045	--	--	80	--	--	TX2752xTX430	90	108	111	94	101
GWX1445	--	--	96	--	--	AVERAGES (bu/a)	108	126	154	146	134
GWX3045	--	--	89	--	--	CV (%)	10	6	6	6	--
						LSD (0.05)	14	8	10	9	--

* MSD = Marshall Co., Waterville RLD = Riley Co., Manhattan RPD = Republic Co., Belleville MTD= Mitchell Co., Beloit



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

Figure 4. NORTHEAST Kansas grain sorghum hybrid standardized performance summary, 2006-2008

SOUTHEAST KANSAS DRYLAND GRAIN SORGHUM TEST

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

Woodson silt loam; Soybeans in 2007

130 - 0 - 0 lb/a N, P, K

Planted on 5/19/2008; Harvested on 9/23/2008

Target stand of 55,000 plants/acre; 3.8 in. spacing

Generally good growing conditions throughout the season; some emergence and stand issues.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	8.4	6.4	36	37		
April	2.7	2.9	53	56	535	634
May	5.4	4.1	65	65	925	953
June	7.8	4.9	74	74	1172	1186
July	3.4	4.0	79	80	1350	1401
August	5.6	3.2	76	79	1267	1362
Oct.	9.5	6.7	61	65	1603	1816
Totals:	42.8	32.2	54	56	6,851	7,352

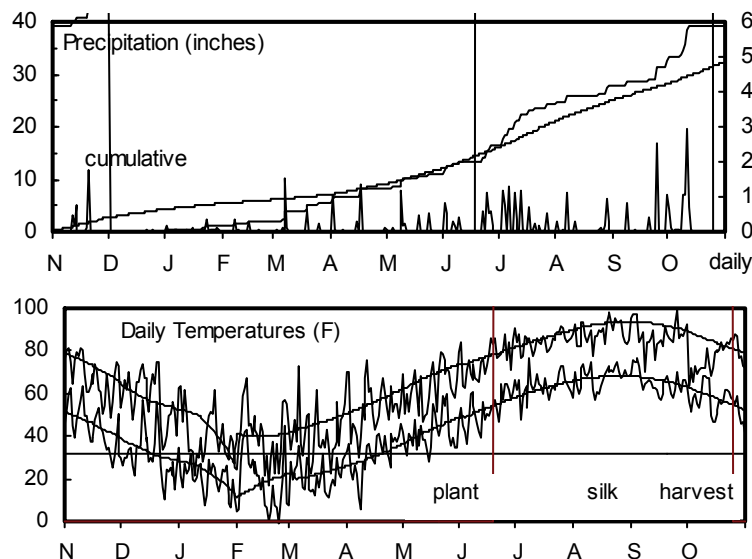


Table 7. Franklin County Dryland Grain Sorghum Performance Test, 2006-2008

		ACRE YIELD, BUSHELS					YIELD AS %			2007-2008		2008						
BRAND	NAME	2008	2007	2006	2-Yr.		OF TEST			Days to Blm	Grain Moist. %	Days to Blm	Grain Moist. %	Test Wt. lb/bu	Plnt Ht. in.	Ldg %	Pop. 1000 ppa	Hds per Plnt
					AVG.	3-Yr. AVG.	2008	2007	2006									
ADVANCED GEN.	A 121	81	89	129	85	100	93	94	111	--	14	--	23	54	55	--	33.5	1.5
DEKALB	DKS54-00	87	102	124	95	104	100	108	107	--	16	--	20	54	56	--	55.5	0.9
DEKALB	DKS37-07	84	98	114	91	99	96	104	98	--	14	--	16	54	53	--	45.7	1.4
DEKALB	DKS36-16	70	88	115	79	91	80	92	99	--	14	--	21	53	55	--	43.6	1.3
DEKALB	DKS53-67	94	100	--	97	--	107	105	--	--	--	--	22	53	51	--	51.8	1.1
DEKALB	DKS 44-20	82	--	--	--	--	94	--	--	--	--	--	19	56	54	--	38.2	1.4
DEKALB	DKS 54-03	93	--	--	--	--	107	--	--	--	--	--	23	54	55	--	37.8	1.2
DYNA-GRO	751B	81	93	118	87	97	93	98	101	--	15	--	21	55	51	--	46.9	1.1
DYNA-GRO	772B	91	--	--	--	--	104	--	--	--	--	--	19	55	59	--	42.4	1.4
DYNA-GRO	766B	85	98	124	91	102	97	104	106	--	15	--	21	55	53	--	47.6	1.1
DYNA-GRO	GX07664	80	--	--	--	--	91	--	--	--	--	--	23	54	56	--	43.4	1.3
DYNA-GRO	GX06170	77	--	--	--	--	88	--	--	--	--	--	29	53	50	--	39.5	1.5
FONTANELLE	GE-5615	98	--	--	--	--	112	--	--	--	--	--	22	54	55	--	20.1	0.9
FONTANELLE	GE-4532	91	--	--	--	--	105	--	--	--	--	--	22	55	54	--	42.7	1.4
MATURITY CHECK	TX2752xTX430	79	99	116	89	98	91	104	100	--	15	--	27	53	55	--	29.0	1.3
MATURITY CHECK	OK11xTX2741	78	83	106	81	89	89	88	91	--	14	--	19	55	53	--	46.7	0.9
MATURITY CHECK	PIO-86G08	85	91	118	88	98	98	96	101	--	15	--	14	53	59	--	37.4	1.6
PIONEER	84G62	101	114	121	107	112	115	121	104	--	15	--	21	56	51	--	39.8	1.3
PIONEER	85Y40	110	110	--	110	--	126	116	--	--	--	--	21	56	47	--	53.8	1.1
PIONEER	85G03	90	--	--	--	--	103	--	--	--	--	--	22	54	48	--	53.8	1.2
SORG. PARTNERS	NK6638	96	--	--	--	--	110	--	--	--	--	--	21	55	49	--	41.7	1.4
	AVERAGES	87	95	116	91	99	87	95	116	--	--	--	21	54	53	--	42.4	1.3
	CV (%)	9	9	9	--	--	9	9	9	--	--	--	12	2	4	--	12.0	11.3
	LSD (0.05)*	11	12	15	--	--	12	13	13	--	--	--	3	1	0	--	7.2	0.2

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

SOUTHEAST KANSAS DRYLAND GRAIN SORGHUM TEST

ImMasche Research Center, Strong City; Jane Lingenfelter, agronomist; Gene Eidman, cooperator

Osage silty clay; Soybean in 2007

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

Planted on 5/23/2008; Harvested on 9/26/2008

Target stand of 55,000 plants/acre; 3.8 in. spacing

Heavy rains and flooding affected stands.

Extensive bird damage in some areas.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar.	9.2	6.0	35	35		
April	4.3	2.7	52	54	513	563
May	6.4	4.5	64	65	910	909
June	5.6	5.1	75	74	1185	1147
July	1.8	3.9	78	79	1329	1358
August	0.0	3.5	76	77	1257	1315
Sept.	0.0	3.8	67	70	964	1027
Oct.	0.0	2.8	56	58	656	693
Totals:	27.3	32.4	53	54	6,812	7,010

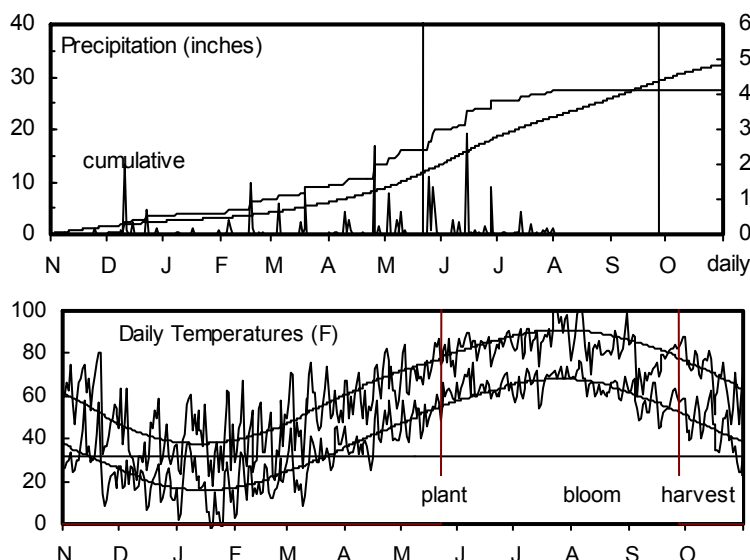


Table 8. Chase County Dryland Grain Sorghum Performance Test, 2006-2008

BRAND	NAME	YIELD AS %										2007-2008		2008					
		ACRE YIELD, BUSHELS					OF TEST			Days Grain		Days Grain		Test Plnt		Pop.		Hds	
		2008		2007		2006		2-Yr. AVG.		3-Yr. AVG.		AVERAGE		to Moist.		to Moist.		Ldg	
		2008	2007	2006	2008	2007	2006	2008	2007	2006	2008	2007	2006	Blm	%	Blm	%	lb/bu	in.
MATURITY CHECK	PIO-86G08	50	58	36	54	48		97	86	87	64	17		64	17	51	47	36	33.2
DEKALB	DKS37-07	54	65	42	60	54		104	97	102	64	19		66	21	52	50	38	39.6
DEKALB	DKS36-16	47	67	47	57	54		90	101	113	65	20		68	24	52	43	36	32.2
PIONEER	85Y40	75	56	39	66	57		144	84	94	66	19		68	21	54	49	26	36.1
DYNA-GRO	764B	37	85	35	61	52		71	127	84	65	19		68	20	52	45	63	30.6
PIONEER	85G03	54	--	--	--	--		104	--	--	--	--		69	27	52	47	33	31.0
DEKALB	DKS53-67	57	85	--	71	--		109	127	--	65	18		69	24	54	48	38	33.9
DEKALB	DKS44-20	63	--	--	--	--		121	--	--	--	--		70	25	53	44	30	33.6
ADVANCED GEN.	A 137	52	--	45	--	--		100	--	107	--	--		72	27	53	43	26	26.1
DEKALB	DKS54-00	72	70	38	71	60		139	105	92	68	21		72	26	52	50	43	32.3
PIONEER	84G62	54	65	--	59	--		103	97	--	68	22		72	26	53	44	43	30.7
ADVANCED GEN.	A 121	67	46	50	57	54		130	69	120	68	21		72	23	54	43	26	39.4
SORG. PARTNERS	NK6638	39	48	--	43	--		75	71	--	68	22		72	23	53	40	50	36.1
MATURITY CHECK	OK11xTX2741	29	60	46	44	45		55	90	111	68	20		72	18	54	41	31	14.8
DEKALB	DKS54-03	55	--	--	--	--		106	--	--	--	--		73	26	52	48	41	36.5
MATURITY CHECK	TX2752xTX430	27	64	45	45	45		52	96	108	68	24		74	32	49	38	38	9.6
	AVERAGES	52	67	42	59	53		52	67	42	66	21		70	24	52	45	37	31.0
	CV (%)	9	7	15	--	--		9	7	15	--	--		2	10	2	2	29	18.2
	LSD (0.05)*	7	7	9	--	--		13	11	22	--	--		2	3	1	0	15	5.4

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

SOUTHEAST KANSAS DRYLAND GRAIN SORGHUM TEST

Southeast Agricultural Research Center, Parsons; James Long, agronomist; Kelly Kusel, technician

Parsons silt loam; Wheat in 2007

118 - 81 - 145 lb/a N, P, K

Planted on 5/23/2008; Harvested on 9/25/2008

Target stand of 45,000 plants/acre; 4.6 in. spacing

Heavy rain immediately after planting; favorable conditions with above-average rain throughout growing season.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	18.3	10.3	41	39		
April	3.5	3.7	54	57	586	668
May	6.3	5.0	69	65	1062	952
June	18.3	4.8	75	74	1203	1178
July	3.7	3.6	79	80	1364	1385
August	3.9	3.8	84	79	1528	1345
Sept.	4.9	4.5	74	71	1156	1075
Oct.	1.6	3.6	58	60	714	772
Totals:	60.4	39.3	58	57	7,614	7,373

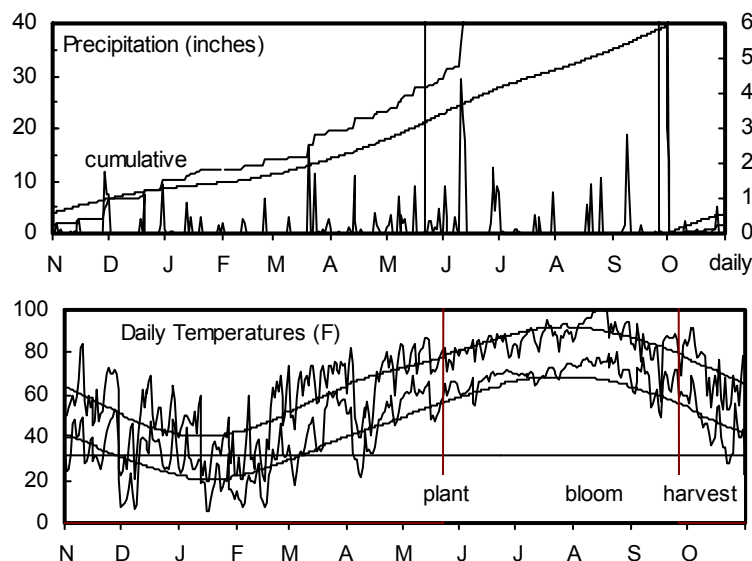


Table 9. Labette County Dryland Grain Sorghum Performance Test, 2006-2008

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS %			2007- 2008		2008						
		2008	2007	2006	2-Yr. AVG.	3-Yr. AVG.	OF TEST			Days to Blm	Grain Moist. %	Days to Blm	Grain Moist. %	Test Wt. lb/bu	Plnt Ht. in.	Ldg %	Pop. 1000 ppa	Hds per Plnt
							AVERAGE											
							2008	2007	2006									
ADVANCED GEN.	A 121	101	89	50	95	80	85	97	78	--	16	--	17	55	47	--	40.6	1.3
ADVANCED GEN.	A 137	108	--	49	--	--	92	--	76	--	--	--	18	54	52	--	33.0	1.5
DEKALB	DKS44-20	129	--	--	--	--	109	--	--	--	--	--	17	55	51	--	40.8	1.2
DEKALB	DKS54-03	129	--	--	--	--	109	--	--	--	--	--	18	54	54	--	42.1	1.1
DEKALB	DKS36-16	87	94	72	91	84	74	102	111	--	17	--	16	55	47	--	40.0	1.3
DEKALB	DKS37-07	117	84	66	100	89	99	91	103	--	16	--	16	56	50	--	42.0	1.3
DEKALB	DKS53-67	139	124	--	131	--	118	134	--	--	18	--	18	54	53	--	37.0	1.4
DEKALB	DKS54-00	136	87	64	112	96	115	95	99	--	18	--	18	54	54	--	40.1	1.3
GARST	5464	139	121	--	130	--	117	131	--	--	18	--	18	54	51	--	43.6	1.2
GARST	5676	91	--	--	--	--	77	--	--	--	--	--	16	55	49	--	38.2	1.2
GARST	5750	111	81	86	96	93	93	88	134	--	15	--	15	56	51	--	41.9	1.4
GOLDEN HARVEST	H-390W	92	--	--	--	--	78	--	--	--	--	--	15	56	45	--	42.0	1.2
GOLDEN HARVEST	H-508W	125	--	--	--	--	105	--	--	--	--	--	15	56	49	--	41.2	1.3
MATURITY CHECK	OK11xTX2741	83	59	58	71	67	70	64	90	--	16	--	16	56	45	--	29.9	1.3
MATURITY CHECK	PIO-86G08	136	94	52	115	94	115	103	80	--	16	--	15	56	51	--	39.6	1.4
MATURITY CHECK	TX2752xTX430	104	84	46	94	78	88	91	72	--	18	--	19	53	51	--	29.7	1.5
PIONEER	84G62	140	120	--	130	--	119	130	--	--	17	--	17	55	50	--	36.2	1.4
PIONEER	85G03	119	--	--	--	--	100	--	--	--	--	--	17	55	53	--	40.2	1.6
PIONEER	85Y40	147	128	58	137	111	124	139	90	--	16	--	16	55	53	--	40.2	1.4
SORG. PARTNERS	NK6638	132	--	--	--	--	112	--	--	--	--	--	17	55	51	--	42.8	1.2
	AVERAGES	118	92	64	105	92	118	92	64	--	17	--	17	55	50	--	39.1	1.3
	CV (%)	7	9	9	--	--	7	9	9	--	--	--	4	1	3	--	12.5	12.1
	LSD (0.05)*	13	17	8	--	--	11	18	12	--	--	--	1	1	2	--	6.9	0.2

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

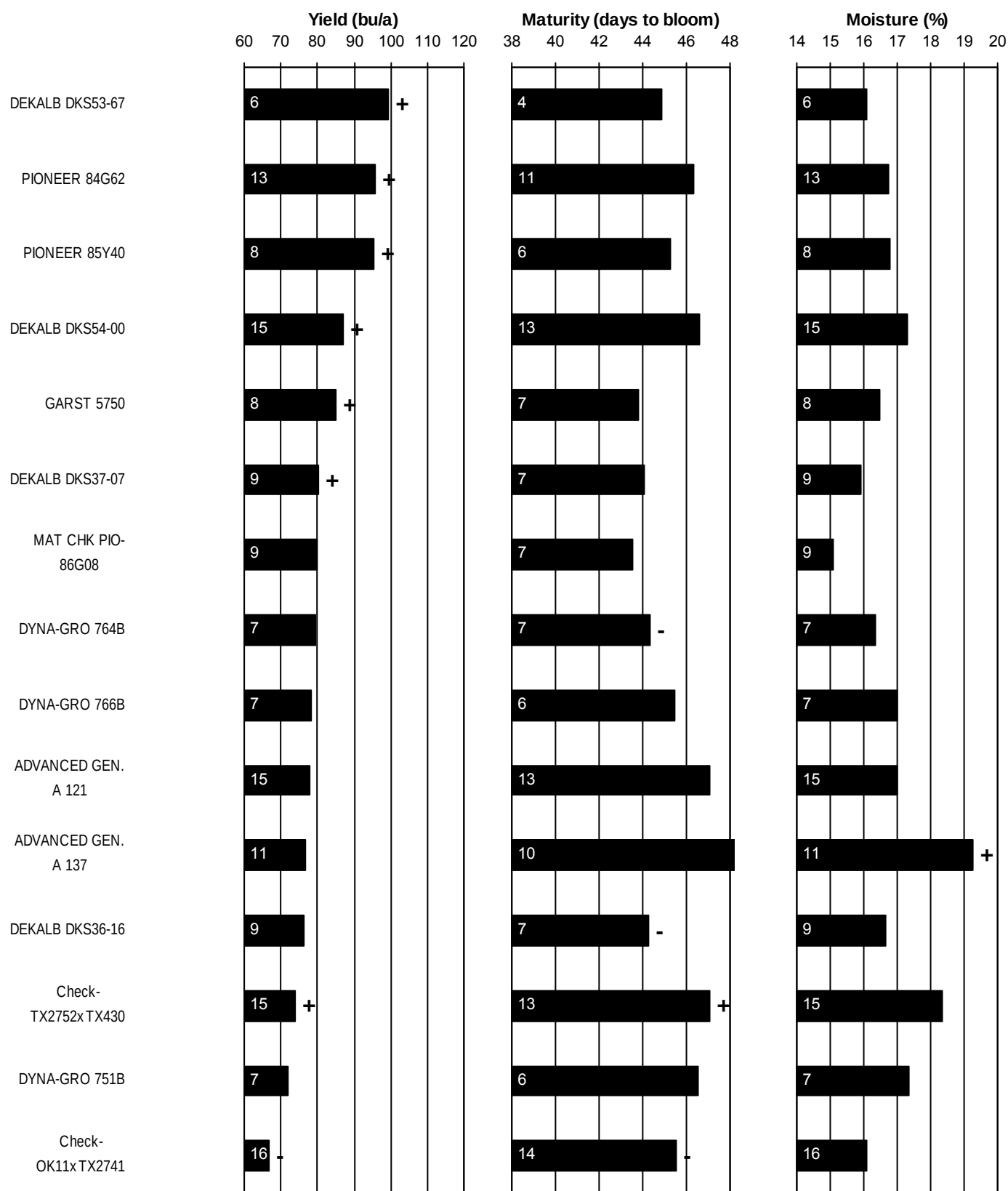
Table 10. SOUTHEAST Kansas Grain Sorghum Hybrid Yield Summary (% of test avg.), 2008

BRAND/NAME	FRD *	CHD	LBD	AVG.	BRAND/NAME	FRD	CHD	LBD	AVG.
ADVANCED GEN.					GOLDEN HARVEST				
A 121	93	130	85	103	H-390W	--	--	78	--
A 137	--	100	92	--	H-508W	--	--	105	--
DEKALB					PIONEER				
DKS36-16	80	90	74	81	84G62	115	103	119	112
DKS37-07	96	104	99	100	85G03	103	104	100	102
DKS44-20	94	121	109	108	85Y40	126	144	124	131
DKS53-67	107	109	118	111	SORG. PARTNERS				
DKS54-00	100	139	115	118	NK6638	110	75	112	99
DKS54-03	107	106	109	107	MATURITY CHECK				
DYNA-GRO					OK11xTX2741	89	55	70	72
751B	93	--	--	--	PIO-86G08	98	97	115	103
764B	--	71	--	--	TX2752xTX430	91	52	88	77
766B	97	--	--	--	AVERAGES (bu/a)	87	52	118	86
772B	104	--	--	--	CV (%)	9	9	7	--
778B	88	--	--	--	LSD (0.05)	12	13	11	--
GX07664	91	--	--	--					
FONTANELLE									
GE-4532	105	--	--	--					
GE-5615	112	--	--	--					
GARST									
5464	--	--	117	--					
5676	--	--	77	--					
5750	--	--	93	--					

* FRD = Franklin Co., Ottawa

CHD = Chase Co., Strong City

LBD = Labette Co., Parsons



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

Figure 5. SOUTHEAST Kansas grain sorghum hybrid standardized performance summary, 2006-2008

CENTRAL KANSAS DRYLAND GRAIN SORGHUM TEST

Clayton Short farm, Assaria; Jane Lingenfelser, agronomist

Hord silt loam; Soybeans in 2007

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

Planted on 6/2/2008; Harvested on 9/29/2008

Target stand of 50,000 plants/acre; 4.2 in. spacing

Conditions were good throughout most of growing season.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	5.9	6.9	35	37		
April	3.5	3.0	50	55	470	593
May	4.2	5.1	63	65	880	923
June	3.9	4.2	76	75	1229	1211
July	2.6	4.3	80	81	1398	1431
August	3.8	3.5	77	80	1307	1394
Sept.	5.0	2.5	68	71	992	1072
Oct.	3.4	2.6	58	58	722	727
Totals:	32.5	32.1	54	56	6,997	7,351

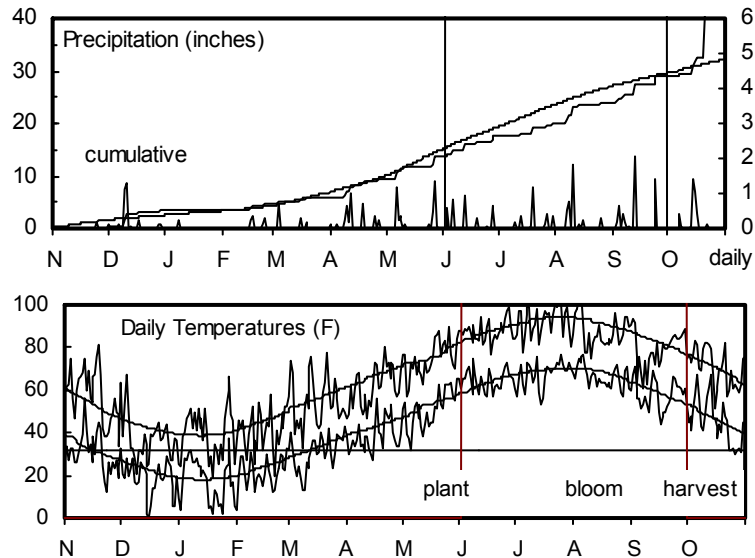


Table 11. Saline County Dryland Grain Sorghum Performance Test, 2006-2008

BRAND	NAME	YIELD AS % 2007-2008										2008					
		ACRE YIELD, BUSHELS					OF TEST					2008					
		2008		2007		2006		2-Yr. AVG.		3-Yr. AVG.		Days to Blm		Grain to Moist.		Test Plnt	
		2008	2007	2006	2007	2006	2007	2006	2007	2006	2007	2006	2007	2006	2007	2006	2007
MATURITY CHECK	PIO-86G08	143	105	84	124	111	106	101	118	56	15	56	16	57	45	--	41.9
DEKALB	DKS37-07	133	98	66	116	99	98	95	93	58	17	58	18	58	50	--	49.6
DEKALB	DKS44-20	153	--	--	--	--	114	--	--	--	--	59	21	59	54	--	35.5
FONTANELLE	GE-4532	149	110	--	130	--	111	106	--	60	18	59	22	57	49	--	41.5
OHLDE	O-525	136	106	65	121	102	101	102	91	59	15	59	16	58	45	--	37.4
DEKALB	DKS36-16	119	94	69	107	94	88	90	96	60	19	59	23	58	48	--	37.3
PIONEER	85G03	151	--	--	--	--	112	--	--	--	--	60	20	58	50	--	43.9
TRIUMPH	TR 452	130	--	--	--	--	96	--	--	--	--	60	21	57	50	--	45.4
ASGROW	PULSAR	126	100	74	113	100	94	96	103	59	16	60	18	59	42	--	42.6
FONTANELLE	GE-5615	141	111	--	126	--	105	107	--	61	19	60	22	57	47	--	37.1
DYNA-GRO	772B	152	--	80	--	--	113	--	111	--	--	61	22	57	44	--	35.2
PIONEER	85Y40	156	128	75	142	120	115	124	105	61	20	61	22	58	46	--	41.2
ADVANCED GEN.	A 110	125	--	--	--	--	92	--	--	--	--	62	18	58	53	--	42.6
DYNA-GRO	766B	142	--	--	--	--	105	--	--	--	--	62	18	58	49	--	34.8
DEKALB	DKS53-67	153	121	--	137	--	113	117	--	64	21	62	26	57	47	--	50.0
MATURITY CHECK	OK11xTX2741	115	86	61	101	87	85	83	86	60	18	62	17	58	49	--	43.2
DYNA-GRO	764B	138	101	76	120	105	103	97	106	61	17	63	19	58	47	--	43.9
DYNA-GRO	GX07664	127	--	--	--	--	94	--	--	--	--	64	23	56	46	--	44.1
OHLDE	O-567	135	--	68	--	--	100	--	95	--	--	64	21	56	47	--	43.2
DYNA-GRO	751B	138	111	66	124	105	102	107	93	63	19	64	22	57	48	--	54.8
OHLDE	O-530	114	82	72	98	89	84	79	101	61	19	64	22	57	48	--	26.4
OHLDE	O-587	129	--	--	--	--	96	--	--	--	--	65	24	56	50	--	31.9
TRIUMPH	TR 460	120	--	--	--	--	89	--	--	--	--	65	24	58	48	--	44.8
OHLDE	O-575	130	93	--	112	--	96	90	--	65	21	65	26	56	47	--	43.9
PIONEER	84G62	160	122	74	141	119	118	118	104	64	21	65	26	57	41	--	38.0
TRIUMPH	TR 458	115	100	--	108	--	85	97	--	64	21	65	24	55	47	--	39.0
SORG. PARTNERS	NK6638	124	107	--	115	--	92	103	--	65	17	66	19	58	55	--	46.1
DEKALB	DKS54-00	147	109	76	128	111	109	105	106	67	21	67	27	56	44	--	48.4
MATURITY CHECK	TX2752xTX430	122	102	62	112	95	90	98	86	67	23	67	28	55	48	--	32.3
DYNA-GRO	778B	127	--	--	--	--	94	--	--	--	--	69	31	55	48	--	32.3
	AVERAGES	135	104	71	119	103	135	104	71	62	19	62	22	57	48	--	40.9
	CV (%)	5	7	11	--	--	5	7	11	--	--	1	10	1	4	--	15.5
	LSD (0.05)*	9	11	11	--	--	7	10	16	--	--	1	3	1	3	--	6.3

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

CENTRAL KANSAS NO-TILL DRYLAND GRAIN SORGHUM TEST

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

Smolan silty clay loam; Soybeans in 2007

90 - 37 - 0 lb/a N, P, K

Planted on 6/3/2008; Harvested on 10/2/2008

Target stand of 37,000 plants/acre; 5.7 in. spacing

Summer conditions were unusually favorable for row-crop production. As a result, grain sorghum yields were excellent.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	6.1	6.2	36	37		
April	2.8	2.6	52	56	528	631
May	4.4	4.4	64	65	897	952
June	5.4	4.7	76	75	1220	1216
July	4.7	3.7	80	81	1397	1431
August	4.9	3.1	73	80	1166	1381
Sept.	4.5	3.6	67	71	952	1079
Oct.	4.2	2.5	54	59	610	765
Totals:	36.9	30.6	54	56	6,770	7,455

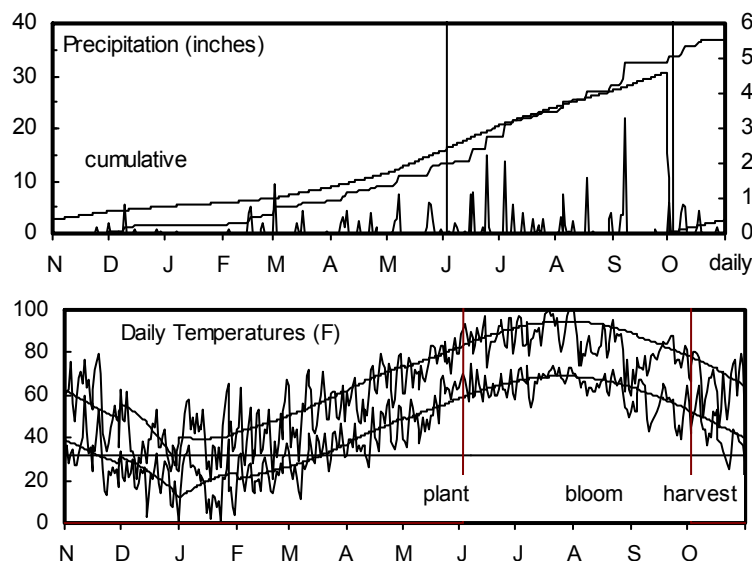


Table 12. Harvey County No-till Dryland Grain Sorghum Performance Test, 2006-2008

BRAND	NAME	YIELD AS % 2007-2008										2008						
		ACRE YIELD, BUSHELS					OF TEST					Days Grain		Days Grain		Test Plnt		Pop.
		2008		2007		2006	2-Yr. AVG.		3-Yr. AVG.		2006	Blm	%	Blm	%	Wt. lb/bu	Ht. in.	Ldg %
		2008	2007	2008	2007		2008	2007	2008	2007								
MATURITY CHECK	PIO-86G08	122	109	101	116	111	104	97	92		56	13	56	13	55	53	0	36.6
ASGROW	PULSAR	110	116	96	113	107	94	103	87		57	14	57	14	57	48	1	38.0
DEKALB	DKS37-07	118	112	102	115	111	101	100	92		58	14	58	14	57	54	2	40.6
ADVANCED GEN.	A 115C	104	115	105	110	108	89	102	95		58	13	59	13	56	47	2	37.8
DEKALB	DKS36-16	105	108	99	107	104	90	96	89		58	14	59	15	56	49	0	37.8
DYNA-GRO	764B	117	108	113	112	112	100	96	102		57	14	59	14	56	49	1	34.8
DEKALB	DKS44-20	125	--	--	--	--	107	--	--		--	--	60	15	58	52	1	36.8
DYNA-GRO	766B	119	--	--	--	--	102	--	--		--	--	60	14	56	51	0	38.0
DYNA-GRO	772B	127	--	128	--	--	109	--	116		--	--	60	15	57	53	0	39.0
OHLDE	O-525	112	--	--	--	--	96	--	--		--	--	60	14	56	49	0	36.5
OHLDE	O-530	96	--	--	--	--	82	--	--		--	--	60	14	56	45	2	28.2
ADVANCED GEN.	A 110	127	116	108	121	117	109	103	98		57	14	60	14	56	49	0	38.0
PIONEER	85Y40	144	124	134	134	134	123	110	121		60	14	60	15	58	53	1	38.8
MIDLAND	MG4758Y	110	--	--	--	--	94	--	--		--	--	61	16	57	56	1	33.5
PIONEER	85G03	130	--	--	--	--	111	--	--		--	--	61	16	57	56	0	38.3
MATURITY CHECK	OK11xTX2741	99	107	102	103	103	85	95	92		59	14	61	14	57	47	3	35.4
MIDLAND	MG4748	118	124	122	121	121	101	110	110		59	14	61	15	57	51	0	36.6
MIDLAND	MG4772	129	131	124	130	128	111	116	112		60	14	61	15	57	52	0	38.4
DEKALB	DKS53-67	132	106	--	119	--	113	94	--		61	15	62	16	58	55	1	40.3
PIONEER	84G62	140	125	124	133	130	120	111	112		61	14	62	15	58	52	1	37.3
TRIUMPH	TR 458	113	109	--	111	--	96	97	--		61	15	63	17	54	51	0	35.1
OHLDE	O-575	113	106	122	109	114	97	94	110		61	15	63	17	55	51	0	37.5
DYNA-GRO	GX07664	115	--	--	--	--	99	--	--		--	--	64	17	55	47	0	35.2
OHLDE	O-567	109	101	103	105	104	93	90	93		62	14	64	15	56	49	0	40.1
ADVANCED GEN.	A 121	112	106	113	109	110	95	94	102		62	14	64	15	56	49	0	40.5
DYNA-GRO	751B	127	113	112	120	117	109	101	101		62	14	64	15	58	55	0	37.2
SORG. PARTNERS	NK6638	125	115	--	120	--	107	102	--		62	14	64	15	57	51	0	39.3
DEKALB	DKS54-00	128	108	101	118	112	109	96	91		62	14	65	15	58	56	2	38.8
OHLDE	O-587	117	107	--	112	--	100	95	--		63	15	66	16	56	52	1	29.9
MATURITY CHECK	TX2752xTX430	117	117	119	117	118	100	104	108		62	14	66	15	56	51	0	35.7
ADVANCED GEN.	A 137	107	--	116	--	--	92	--	105		--	--	67	18	56	50	0	31.1
DYNA-GRO	778B	71	--	--	--	--	61	--	--		--	--	69	21	51	63	0	34.4
	AVERAGES	117	113	110	115	113	117	113	110		60	14	62	15	56	51	1	36.7
	CV (%)	6	8	6	--	--	6	8	6		--	--	1	3	1	2	207	5.6
	LSD (0.05)*	9	15	11	--	--	8	13	10		--	--	1	1	1	2	2	2.3

CENTRAL KANSAS NO-TILL DRYLAND GRAIN SORGHUM TEST

South Central Kansas Expt. Field, Hutchinson; William Heer, agronomist

Ost loam; Soybeans in 2007

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

Planted on 5/14/2008; Harvested on 9/23/2008

Target stand of 41,000 plants/acre; 5.2 in. spacing

Some bird damage reported.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	3.8	4.4	36	37		
April	2.8	2.6	51	55	509	617
May	5.9	3.8	64	65	898	927
June	5.4	4.3	75	75	1213	1196
July	2.3	3.5	79	81	1365	1416
August	2.3	3.1	76	79	1272	1361
Sept.	5.5	3.3	67	70	949	1053
Oct.	4.7	2.4	56	58	666	732
Totals:	32.6	27.3	54	56	6,872	7,302

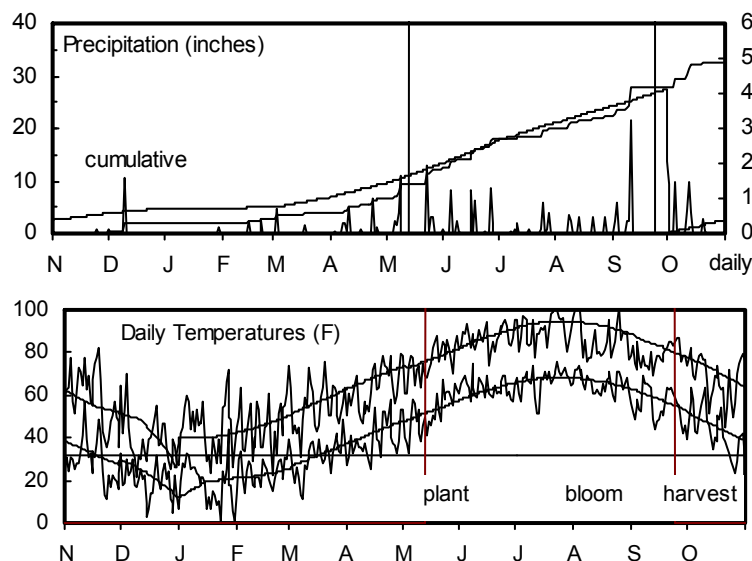


Table 13. Reno County No-till Dryland Grain Sorghum Performance Test, 2006-2008

		ACRE YIELD, BUSHEL					YIELD AS %			2007- 2008		2008						
BRAND	NAME	2008	2007	2006	2-Yr. 3-Yr.		OF TEST			Days to Blm	Grain to Moist. %	Days to Blm	Grain to Moist. %	Test Wt. lb/bu	Plnt Ht. in.	Ldg %	Pop. 1000 ppa	Hds per Plnt
					AVG.	AVG.	AVERAGE											
DEKALB	DKS44-20	127	--	--	--	--	113	--	--	--	--	66	14	59	46	--	35.8	1.5
GARST	5676	69	--	--	--	--	62	--	--	--	--	66	13	57	43	--	26.8	1.5
TRIUMPH	TR 452	105	--	--	--	--	93	--	--	--	--	66	13	58	42	--	29.9	1.7
ADVANCED GEN.	A 110	116	34	--	75	--	103	94	--	61	14	66	13	58	42	--	40.7	1.3
ADVANCED GEN.	A 115C	97	24	--	61	--	87	67	--	63	14	66	13	58	38	--	34.2	1.5
GOLDEN WORLD	GW2045	111	--	--	--	--	99	--	--	--	--	66	14	57	42	--	34.1	1.5
GOLDEN WORLD	GWX3045	110	--	--	--	--	98	--	--	--	--	66	14	58	42	--	33.8	1.5
DEKALB	DKS36-16	101	48	--	75	--	90	133	--	62	13	66	13	57	41	--	35.4	1.6
ASGROW	PULSAR	94	35	--	64	--	83	98	--	61	14	66	13	58	41	--	32.6	1.5
DYNA-GRO	766B	102	35	--	69	--	91	96	--	62	14	66	13	57	41	--	26.1	1.5
DEKALB	DKS37-07	108	43	--	75	--	96	118	--	62	14	66	13	59	43	--	32.8	1.7
MYCOGEN	M3838	92	--	--	--	--	82	--	--	--	--	66	12	57	41	--	38.1	1.4
GARST	5750	99	35	--	67	--	88	96	--	--	--	66	13	58	47	--	40.7	1.6
MATURITY CHECK	PIO-86G08	116	32	--	74	--	103	88	--	62	13	66	13	57	45	--	37.0	1.9
MIDLAND	MG4748	106	32	--	69	--	94	87	--	62	14	66	13	57	41	--	29.3	1.4
OHLDE	O-530	76	--	--	--	--	68	--	--	--	--	66	13	57	40	--	26.8	1.3
DYNA-GRO	764B	99	26	--	62	--	88	72	--	62	14	67	13	58	43	--	29.0	1.6
GOLDEN HARVEST	H-508W	108	--	--	--	--	96	--	--	--	--	67	13	57	43	--	36.4	1.2
GOLDEN WORLD	GW 1467	116	--	--	--	--	103	--	--	--	--	67	14	59	43	--	34.8	1.2
OHLDE	O-525	117	--	--	--	--	104	--	--	--	--	67	13	58	44	--	36.1	1.6
PIONEER	85G03	138	--	--	--	--	122	--	--	--	--	67	14	58	48	--	50.3	1.4
ADVANCED GEN.	A 121	119	44	--	81	--	106	121	--	63	13	67	13	57	43	--	45.8	1.2
DYNA-GRO	772B	108	--	--	--	--	96	--	--	--	--	67	14	58	44	--	36.8	1.4
GOLDEN HARVEST	H-390W	87	--	--	--	--	77	--	--	--	--	67	14	57	41	--	34.5	1.4
MYCOGEN	737	127	50	--	88	--	113	138	--	63	13	67	13	57	41	--	31.9	1.7
OHLDE	O-575	113	39	--	76	--	100	107	--	63	15	67	15	58	42	--	28.3	1.3
PIONEER	85Y40	146	39	--	93	--	130	108	--	63	14	67	14	58	45	--	40.0	1.5
DYNA-GRO	751B	117	38	--	77	--	104	105	--	64	14	67	14	58	48	--	34.2	1.4
FONTANELLE	GE-4532	130	31	--	81	--	116	86	--	62	14	67	13	58	40	--	33.9	1.3
OHLDE	O-567	125	47	--	86	--	111	129	--	63	13	67	13	57	43	--	39.4	1.5
SORG. PARTNERS	NK6638	117	--	--	--	--	104	--	--	--	--	67	13	58	46	--	40.9	1.4
DEKALB	DKS54-00	140	42	--	91	--	124	116	--	64	15	68	14	59	47	--	38.0	1.4
GARST	5464	110	36	--	73	--	98	100	--	64	14	68	14	58	44	--	33.5	1.4
MATURITY CHECK	OK11xTX2741	86	38	--	62	--	77	104	--	63	13	68	13	57	41	--	26.1	1.6
MIDLAND	MG4758Y	96	--	--	--	--	85	--	--	--	--	68	14	58	44	--	31.0	1.7
MIDLAND	MG4772	115	43	--	79	--	103	119	--	64	14	68	14	58	42	--	31.5	1.4
DEKALB	DKS53-67	148	56	--	102	--	131	156	--	64	15	68	15	60	43	--	33.2	1.6
MYCOGEN	697	119	55	--	87	--	106	151	--	63	13	68	13	57	41	--	43.9	1.3

Table 13 continued. Reno County No-till Dryland Grain Sorghum Performance Test, 2006-2008

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST			2007- 2008		2008						
		2008	2007	2006	2-Yr. 3-Yr.		AVERAGE			Days to Blm	Grain Moist. %	Days to Blm	Grain Moist. %	Test Wt. lb/bu	Plnt Ht. in.	Ldg %	Pop. 1000 ppa	Hds per Plnt
					AVG.	AVG.	2008	2007	2006									
PIONEER	84G62	123	35	--	79	--	109	97	--	64	14	68	14	59	44	--	34.5	1.6
DYNA-GRO	778B	132	38	--	85	--	117	105	--	65	14	68	15	58	53	--	40.9	1.3
GOLDEN WORLD	GWX1445	111	--	--	--	--	99	--	--	--	--	68	14	58	43	--	39.9	1.4
FONTANELLE	GE-5615	142	39	--	90	--	126	107	--	64	14	68	13	58	41	--	33.9	1.4
MATURITY CHECK	TX2752xTX430	108	34	--	71	--	96	94	--	64	14	68	13	58	46	--	29.0	1.5
OHLDE	O-587	124	42	--	83	--	110	116	--	64	14	68	14	57	42	--	28.4	1.7
	AVERAGES	113	36	--	74	--	113	36	--	63	14	67	14	58	43	--	34.8	1.5
	CV (%)	8	19	--	--	--	8	19	--	--	--	2	5	1	3	--	6.9	6.3
	LSD (0.05)*	13	9	--	--	--	11	26	--	--	--	2	1	1	2	--	3.4	0.1

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

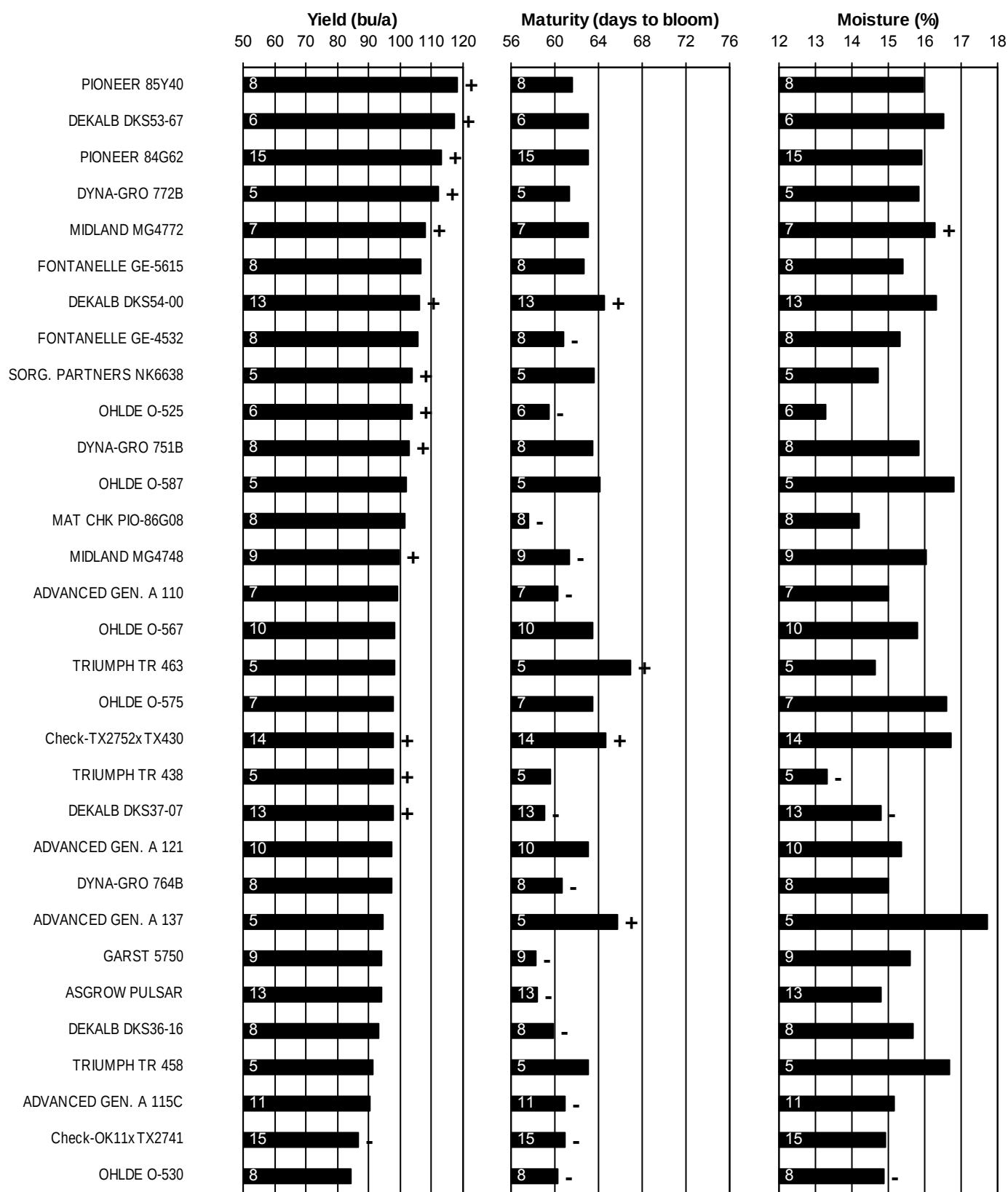
Table 14. CENTRAL Kansas Grain Sorghum Hybrid Yield Summary (% of test avg.), 2008

BRAND/NAME	SAD*	HVD	RND	AVG.	BRAND/NAME	SAD	HVD	RND	AVG.
ADVANCED GEN.					MYCOGEN				
A 110	92	109	103	101	697	--	--	106	--
A 115C	--	89	87	--	737	--	--	113	--
A 121	--	95	106	--	M3838	--	--	82	--
A 137	--	92	--	--	OHLDE				
ASGROW					O-525	101	96	104	100
PULSAR	94	94	83	90	O-530	84	82	68	78
DEKALB					O-567	100	93	111	101
DKS36-16	88	90	90	89	O-575	96	97	100	98
DKS37-07	98	101	96	98	O-587	96	100	110	102
DKS44-20	114	107	113	111	PIONEER				
DKS53-67	113	113	131	119	84G62	118	120	109	116
DKS54-00	109	109	124	114	85G03	112	111	122	115
DYNA-GRO					85Y40	115	123	130	123
751B	102	109	104	105	SORG. PARTNERS				
764B	103	100	88	97	NK6638	92	107	104	101
766B	105	102	91	99	TRIUMPH				
772B	113	109	96	106	TR 452	96	--	93	--
778B	94	61	117	91	TR 458	85	96	--	--
GX07664	94	99	--	--	TR 460	89	--	--	--
FONTANELLE					MATURITY CHECK				
GE-4532	111	--	116	--	OK11xTX2741	85	85	77	82
GE-5615	105	--	126	--	PIO-86G08	106	104	103	105
GARST					TX2752xTX430	90	100	96	96
5464	--	--	98	--	AVERAGES (bu/a)	135	117	113	121
5676	--	--	62	--	CV (%)	5	6	8	--
5750	--	--	88	--	LSD (0.05)	7	8	11	--
GOLDEN HARVEST									
H-390W	--	--	77	--					
H-508W	--	--	96	--					
GOLDEN WORLD									
GW 1467	--	--	103	--					
GW2045	--	--	99	--					
GWX1445	--	--	99	--					
GWX3045	--	--	98	--					
MIDLAND									
MG4748	--	101	94	--					
MG4758Y	--	94	85	--					
MG4772	--	111	103	--					

* SAD = Saline Co., Assaria

HVD = Harvey Co., Hesston

RND = Reno Co., Hutchinson



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

Figure 6. CENTRAL Kansas grain sorghum hybrid standardized performance summary, 2006-2008

WEST KANSAS FALLOW GRAIN SORGHUM TEST

Agricultural Research Center, Hays; Kenneth Kofoed, agronomist

Harney silt loam; Fallow in 2007

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

Planted on 6/8/2008; Harvested on 11/6/2008

Target stand of 35,000 plants/acre; 6.0 in. spacing

Summer was cool and wet. Cool temperatures during grain fill lengthened filling period. Lygus bugs caused some minor damage to grain.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	2.1	3.5	34	33		
April	1.6	1.8	50	50	466	478
May	7.7	3.1	62	61	827	833
June	3.0	3.8	74	71	1181	1109
July	3.3	3.4	79	78	1362	1344
August	5.3	2.8	74	76	1203	1286
Sept.	1.2	2.3	65	68	902	984
Oct.	5.6	1.3	55	55	637	625
Totals:	29.9	21.9	52	52	6,578	6,659

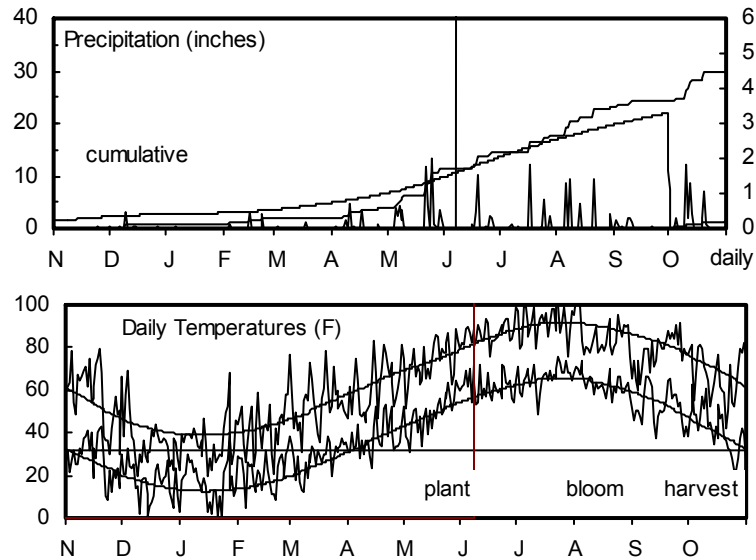


Table 15. Ellis County Fallow Grain Sorghum Performance Test, 2006-2008

BRAND	NAME	YIELD AS %										2007-2008		2008						
		ACRE YIELD, BUSHELS					OF TEST			Days to Blm	Grain Moist. %	Days to Blm	Grain Moist. %	Test Plnt Wt. lb/bu	Plnt Ht. in.	Ldg %	Pop. 1000 ppa	Hds per Plnt		
		2008	2007	2006	2-Yr. AVG.	3-Yr. AVG.	2008	2007	2006										AVERAGE	
		2008	2007	2006	2008	2007	2006	2008	2007	2006	2008	2007	2006	2008	2007	2006	2008	2007	2006	2008
DEKALB	DK28E	77	--	--	--	--	65	--	--	--	--	54	8	57	36	--	32.4	1.7		
DEKALB	DKS29-28	90	85	--	87	--	76	80	--	53	9	54	7	58	43	--	33.2	1.7		
PIONEER	86G32	115	--	--	--	--	97	--	--	--	--	56	7	58	48	--	33.5	1.6		
ASGROW	PULSAR	103	105	55	104	88	87	99	91	56	11	57	8	57	46	--	33.3	2.0		
MATURITY CHECK	PIO-86G08	116	106	77	111	99	97	100	126	56	11	58	8	58	48	--	33.4	1.8		
DEKALB	DKS44-20	123	--	--	--	--	104	--	--	--	--	61	8	58	48	--	33.2	1.8		
TRIUMPH	TR 438	120	115	66	118	100	101	109	109	60	10	61	7	58	48	--	33.1	1.8		
DEKALB	DKS37-07	111	118	77	115	102	94	112	126	59	12	61	8	58	53	--	32.8	1.7		
GARST	5750	108	--	46	--	--	91	--	76	--	--	62	7	58	52	--	33.4	1.7		
DYNA-GRO	764B	118	--	54	--	--	99	--	89	--	--	63	8	58	49	--	33.9	1.7		
OHLDE	O-525	124	106	69	115	99	104	100	113	61	11	63	8	58	49	--	33.8	1.6		
DEKALB	DKS36-16	135	117	--	126	--	113	111	--	60	11	63	7	57	47	--	33.2	1.7		
MYCOGEN	627	107	106	63	107	92	90	101	104	61	11	63	8	58	48	--	33.0	1.7		
DYNA-GRO	766B	126	112	34	119	91	106	106	56	61	12	63	8	58	51	--	32.6	1.8		
PIONEER	85G46	132	118	61	125	104	111	112	100	60	12	63	9	58	50	--	32.7	1.7		
MYCOGEN	M3838	120	--	67	--	--	101	--	110	--	--	65	7	57	48	--	33.1	1.7		
TRIUMPH	TR 460	119	--	--	--	--	100	--	--	--	--	65	8	58	50	--	33.5	1.7		
MYCOGEN	1G600	109	108	70	109	96	92	102	116	62	11	65	8	57	50	--	33.0	1.6		
FONTANELLE	GE-4532	116	104	--	110	--	98	98	--	62	12	65	10	58	49	--	33.1	1.8		
OHLDE	O-567	136	106	87	121	110	115	100	143	63	11	65	8	58	49	--	33.2	1.8		
DYNA-GRO	772B	125	--	73	--	--	106	--	120	--	--	66	8	58	50	--	33.3	1.7		
GOLDEN HARVEST	H-390W	117	--	--	--	--	98	--	--	--	--	66	8	58	49	--	33.2	1.9		
OHLDE	O-530	112	95	54	104	87	94	90	89	62	11	66	8	58	48	--	32.4	1.8		
TRIUMPH	TR 458	110	97	--	104	--	93	92	--	63	11	66	7	58	50	--	33.0	1.7		
PIONEER	85Y40	150	121	78	135	116	126	115	128	63	12	66	8	59	50	--	32.8	1.8		
DYNA-GRO	GX07664	122	--	--	--	--	102	--	--	--	--	67	7	57	48	--	33.5	1.7		
MATURITY CHECK	OK11xTX2741	112	95	42	103	83	94	90	69	63	11	67	8	57	48	--	33.1	1.8		
OHLDE	O-575	133	109	80	121	107	112	103	132	66	12	68	9	58	49	--	32.9	1.7		
FONTANELLE	GE-5615	113	106	--	109	--	95	100	--	64	13	68	9	57	50	--	33.4	1.7		
GARST	5676	114	--	--	--	--	96	--	--	--	--	72	8	57	51	--	33.6	1.8		
MYCOGEN	697	130	110	--	120	--	110	104	--	66	11	72	8	58	50	--	32.9	1.7		
GARST	5464	133	118	--	126	--	112	111	--	66	12	72	8	58	50	--	32.9	1.7		
MATURITY CHECK	TX2752xTX430	122	101	65	111	96	102	95	107	70	11	73	7	57	50	--	33.1	1.6		
DYNA-GRO	778B	112	--	--	--	--	94	--	--	--	--	74	9	57	54	--	33.4	1.7		
GOLDEN HARVEST	H-508W	145	--	--	--	--	122	--	--	--	--	74	8	57	49	--	32.3	1.8		

Table 15 continued. Ellis County Fallow Grain Sorghum Performance Test, 2006-2008

BRAND	NAME	ACRE YIELD, BUSHEL						YIELD AS %			2007-2008		2008						
								OF TEST			Days to Blm	Grain Moist. %	Days to Blm	Grain Moist. %	Test Wt. lb/bu	Plant Ht. in.	Ldg %	Pop. 1000 ppa	Hds per Plnt
								AVERAGE											
		2008	2007	2006	2-Yr. AVG.	3-Yr. AVG.		2008	2007	2006									
	AVERAGES	119	106	61	112	95	119	106	61	62	11	65	8	58	49	--	33.1	1.7	
	CV (%)	10	8	13	--	--	10	8	13	--	--	2	8	1	2	--	--	5.9	
	LSD (0.05)*	17	12	13	--	--	15	11	21	--	--	2	1	1	2	--	1.1	0.1	

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

WEST KANSAS FALLOW GRAIN SORGHUM TEST

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

Keith silt loam; Fallow in 2007

120 - 35 - 0 lb/a N, P, K

Planted on 5/21/2008; Harvested on 10/31/2008

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

Growing season was normal until mid-August when it was cooler and wetter than normal. The early cool temperatures delayed maturity, but warm days in October helped the later hybrids to mature.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	1.1	2.4	33	32		
April	1.3	1.4	47	49	427	421
May	2.9	2.9	58	59	738	762
June	0.7	3.4	70	70	1053	1054
July	2.9	3.1	77	76	1306	1285
August	3.1	2.1	72	74	1148	1216
Sept.	1.7	1.6	64	66	865	910
Oct.	2.8	0.4	52	53	555	556
Totals:	16.5	17.4	51	51	6,092	6,204

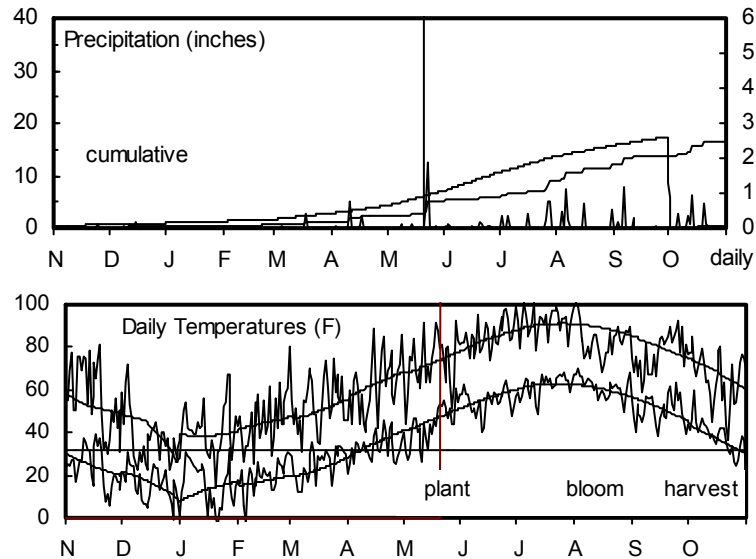


Table 16. Thomas County Fallow Grain Sorghum Performance Test, 2006-2008

BRAND	NAME	YIELD AS %										2007-2008		2008					
		ACRE YIELD, BUSHELS					OF TEST			Days to Blm	Grain to Moist. %	Days to Blm	Grain to Moist. %	Test Wt. lb/bu	Plnt Ht. in.	Ldg %	Pop. 1000 ppa	Hds per Plnt	
		2008	2007	2006	AVERAGE		2008	2007	2006										
					2-Yr. AVG.	3-Yr. AVG.													
DEKALB	DK28E	91	--	--	--	--	65	--	--	--	--	64	8	56	35	--	19.8	2.7	
MATURITY CHECK	PIO-86G08	141	89	88	115	106	100	93	106	68	9	69	8	55	38	--	19.1	3.1	
DEKALB	DKS29-28	120	99	--	110	--	85	103	--	66	10	69	9	56	35	--	20.1	2.8	
PIONEER	86G32	141	--	--	--	--	100	--	--	--	--	70	11	54	39	--	20.1	3.0	
DYNA-GRO	772B	141	--	--	--	--	100	--	--	--	--	72	11	56	38	--	19.5	2.7	
DYNA-GRO	764B	125	100	86	113	104	89	105	103	71	11	72	10	56	40	--	17.8	2.8	
ASGROW	PULSAR	135	87	81	111	101	96	90	97	69	9	73	9	51	37	--	15.8	3.0	
MATURITY CHECK	OK11xTX2741	145	90	78	118	104	103	94	94	73	12	73	11	56	40	--	18.7	3.0	
MATURITY CHECK	TX2752xTX430	136	120	67	128	108	96	126	80	76	13	73	10	57	40	--	16.2	3.0	
DEKALB	DKS44-20	145	--	--	--	--	103	--	--	--	--	76	13	56	41	--	18.1	2.5	
PIONEER	85G46	143	73	105	108	107	102	76	126	73	11	76	13	59	41	--	20.4	2.4	
GOLDEN HARVEST	H-307	136	--	--	--	--	97	--	--	--	--	77	8	54	44	--	20.6	2.5	
GARST	5676	137	--	--	--	--	97	--	--	--	--	78	13	53	45	--	11.9	2.4	
GARST	5750	133	--	73	--	--	95	--	88	--	--	78	12	57	43	--	18.3	2.7	
DEKALB	DKS37-07	156	92	101	124	117	111	96	121	74	10	78	10	53	42	--	21.1	2.4	
DYNA-GRO	766B	156	101	85	129	114	111	105	102	77	13	80	13	54	42	--	17.4	2.4	
DEKALB	DKS36-16	157	100	--	129	--	112	104	--	76	12	81	11	53	41	--	17.5	2.7	
GARST	5464	183	--	--	--	--	130	--	--	--	--	82	12	51	45	--	21.0	2.0	
PIONEER	85Y40	140	119	98	129	119	99	124	117	78	13	82	13	56	42	--	18.8	2.3	
GOLDEN HARVEST	H-390W	160	--	--	--	--	114	--	--	--	--	83	11	52	42	--	22.5	2.1	
DYNA-GRO	778B	127	--	--	--	--	90	--	--	--	--	88	13	52	51	--	17.6	2.3	
DYNA-GRO	GX07664	165	--	--	--	--	117	--	--	--	--	92	14	51	41	--	20.5	2.2	
TRIUMPH	TR 463	122	93	95	107	103	87	97	114	88	16	96	15	49	46	--	10.6	2.8	
	AVERAGES	141	96	83	118	107	141	96	83	75	12	78	11	54	41	--	18.4	2.6	
	CV (%)	11	9	11	--	--	11	9	11	--	--	2	17	3	4	--	10.5	9.4	
	LSD (0.05)*	21	12	13	--	--	15	12	15	--	--	3	3	3	2	--	3.5	0.3	

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

WEST KANSAS FALLOW GRAIN SORGHUM TEST

Southwest Research-Extension Center, Tribune; Alan Schlegel, agronomist; Jeff Slattery, technician

Richfield silt loam; Fallow in 2007

80 - 25 - 0 lb/a N, P, K

Planted on 6/6/2008; Harvested on 11/7/2008

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

Dry conditions until mid-July; no disease or insect pressure noted.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	0.2	2.1	34	34		
April	0.7	1.3	48	49	456	430
May	0.3	2.3	60	59	788	772
June	0.8	2.5	72	70	1103	1063
July	2.2	2.6	78	76	1326	1287
August	4.2	2.3	72	74	1145	1209
Oct.	3.4	2.0	58	60	1429	1522
Totals:	11.9	15.0	52	52	6,246	6,283

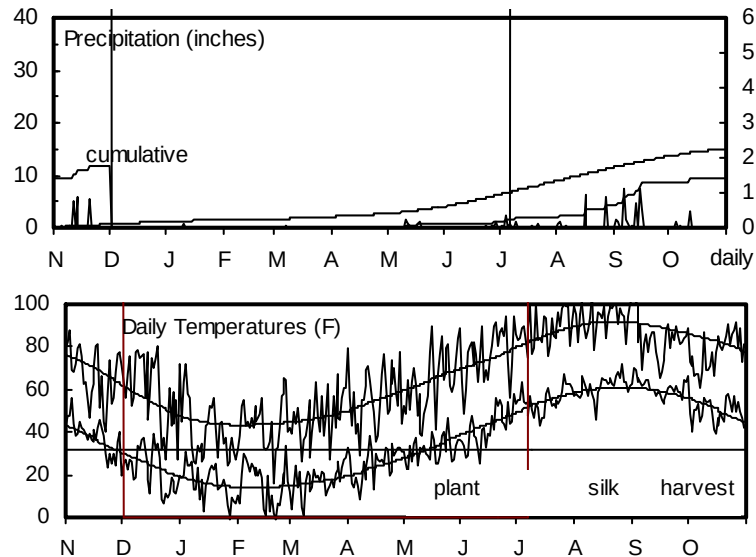


Table 17. Greeley County Fallow Grain Sorghum Performance Test, 2006-2008

BRAND	NAME	ACRE YIELD, BUSHELS					YIELD AS %			2007-2008		2008						Pop. 1000 ppa	Hds per Plnt
		2008	2007	2006	2-Yr. AVG.	3-Yr. AVG.	OF TEST			Days to Blm	Grain Moist. %	Days to Blm	Grain Moist. %	Test Wt. lb/bu	Plnt Ht. in.	Ldg %			
							AVERAGE												
							2008	2007	2006										
ASGROW	PULSAR	86	89	114	88	96	111	101	112	60	13	--	15	56	41	24	--	--	
DEKALB	DK28E	52	--	--	--	--	67	--	--	--	--	--	14	54	36	4	--	--	
DEKALB	DKS44-20	102	--	--	--	--	131	--	--	--	--	--	14	51	44	8	--	--	
DEKALB	DKS29-28	74	101	--	87	--	95	113	--	--	--	--	14	55	39	3	--	--	
DEKALB	DKS36-16	88	112	--	100	--	114	127	--	--	--	--	15	50	43	1	--	--	
DEKALB	DKS37-07	98	103	101	100	101	125	116	99	72	13	--	16	51	47	17	--	--	
DRUSSEL SEED	DSS B64	96	54	104	75	85	124	61	102	69	13	--	14	53	44	5	--	--	
DRUSSEL SEED	DSS B6506	86	82	112	84	93	111	93	109	72	13	--	14	55	45	6	--	--	
GARST	5464	76	--	--	--	--	97	--	--	--	--	--	18	50	49	4	--	--	
GARST	5676	58	--	--	--	--	74	--	--	--	--	--	16	49	47	2	--	--	
GARST	5750	84	121	110	103	105	108	136	108	72	13	--	16	52	46	5	--	--	
GARST	5875	53	--	--	--	--	68	--	--	--	--	--	16	50	35	0	--	--	
MATURITY CHECK	OK11xTX2741	78	87	91	83	85	100	98	89	76	14	--	15	49	43	1	--	--	
MATURITY CHECK	PIO-86G08	69	83	114	76	89	88	94	112	66	13	--	16	52	42	12	--	--	
MATURITY CHECK	TX2752xTX430	68	47	86	57	67	87	53	84	83	14	--	14	47	47	0	--	--	
PIONEER	85G46	101	131	117	116	116	130	147	115	67	13	--	15	55	48	31	--	--	
PIONEER	85Y40	81	90	124	85	98	104	101	122	72	13	--	14	52	44	4	--	--	
PIONEER	86G32	66	--	--	--	--	85	--	--	--	--	--	16	54	42	31	--	--	
TRIUMPH	TR 433	60	--	--	--	--	77	--	--	--	--	--	16	56	41	20	--	--	
TRIUMPH	TR 434	81	--	--	--	--	105	--	--	--	--	--	20	48	43	38	--	--	
	AVERAGES	78	89	102	83	90	78	89	102	71	13	--	16	52	43	11	--	--	
	CV (%)	14	11	13	--	--	14	11	13	--	--	--	6	6	6	105	--	--	
	LSD (0.05)*	15	20	19	--	--	19	22	19	--	--	--	1	4	4	16	--	--	

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

WEST KANSAS FALLOW GRAIN SORGHUM TEST

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

Keith silt loam; Fallow in 2007

48 - 0 - 0 lb/a N, P, K

Planted on 5/29/2008; Harvested on 10/30/2008

Target stand of 35,000 plants/acre; 6.0 in. spacing

Cooler and drier than normal. Hali storm on June 20 caused moderate defoliation.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	80.2	2.8	36	34		
April	54.3	1.6	49	50	456	472
May	108.1	2.9	62	61	837	831
June	151.5	3.0	73	72	1128	1115
July	207.7	2.5	78	78	1330	1321
August	271.0	2.2	75	75	1241	1260
Sept.	292.9	1.6	65	68	915	973
Oct.	388.4	1.0	55	54	631	620
Totals:	1554.0	17.6	53	52	6,538	6,592

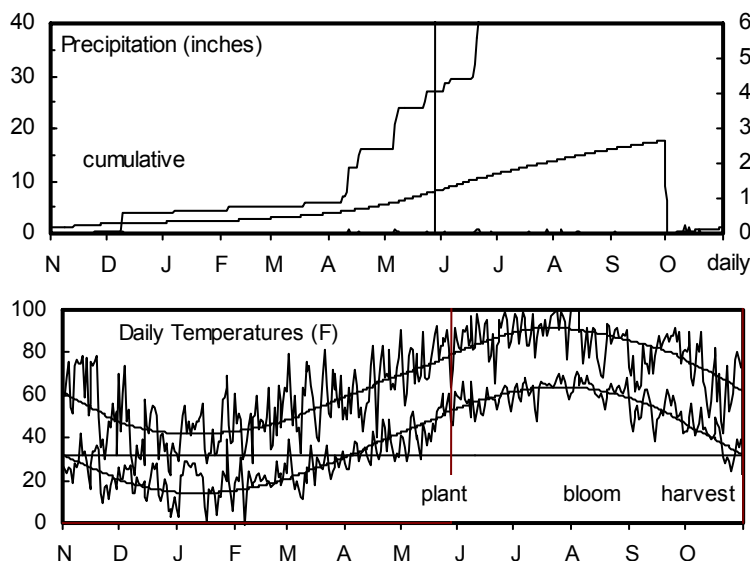


Table 18. Finney County Fallow Grain Sorghum Performance Test, 2006-2008

BRAND	NAME	YIELD AS %										2007-2008		2008					
		ACRE YIELD, BUSHELS					OF TEST			Days to Blm	Grain Moist. %	Days to Blm	Grain Moist. %	Test Wt. lb/bu	Plnt Ht. in.	Ldg %	Pop. 1000 ppa	Hds per Plnt	
		2008	2007	2006	2-Yr. AVG.	3-Yr. AVG.	AVERAGE												
		2008	2007	2006	2008	2007	2006	2008	2007	2006									
DEKALB	DK28E	72	--	--	--	--	92	--	--	--	--	62	13	61	31	--	27.1	2.2	
PIONEER	86G32	73	--	--	--	--	93	--	--	--	--	63	14	60	36	--	25.2	2.4	
MATURITY CHECK	PIO-86G08	89	61	114	75	88	114	92	115	61	14	63	15	60	37	--	26.7	2.5	
DEKALB	DKS29-28	63	58	--	61	--	80	89	--	61	12	65	13	61	32	--	26.4	2.0	
MYCOGEN	M3838	74	--	113	--	--	94	--	114	--	--	68	14	59	38	--	25.9	1.8	
ASGROW	PULSAR	77	59	96	68	77	98	89	97	65	12	69	13	60	37	--	24.0	2.4	
GOLDEN HARVEST	H-307	68	--	--	--	--	87	--	--	--	--	70	14	60	39	--	24.3	2.0	
DRUSSEL SEED	DSS B6506	65	73	94	69	78	83	111	95	66	13	70	14	60	41	--	25.0	2.1	
DEKALB	DKS37-07	77	62	100	70	80	98	94	101	66	14	70	13	60	40	--	26.8	2.1	
DYNA-GRO	766B	73	74	100	74	82	93	113	100	66	14	70	14	60	41	--	24.8	2.0	
DEKALB	DKS44-20	76	--	--	--	--	96	--	--	--	--	71	15	59	42	--	26.6	1.8	
MYCOGEN	1G600	79	85	97	82	87	100	128	98	67	13	71	14	60	43	--	26.8	1.9	
DEKALB	DKS36-16	82	67	--	75	--	105	102	--	67	14	71	15	59	38	--	26.8	2.1	
DYNA-GRO	772B	83	--	--	--	--	106	--	--	--	--	72	16	58	41	--	27.1	1.7	
MYCOGEN	627	78	58	98	68	78	99	88	99	67	14	72	15	59	40	--	22.3	2.0	
TRIUMPH	TR 458	66	60	--	63	--	84	91	--	68	15	72	15	59	40	--	23.0	2.0	
DYNA-GRO	764B	81	78	109	80	90	104	118	110	67	16	72	15	59	42	--	24.7	2.2	
DYNA-GRO	GX07163	93	--	--	--	--	118	--	--	--	--	73	16	58	43	--	24.0	2.2	
PIONEER	85G46	82	65	99	74	82	105	98	100	68	15	74	16	59	38	--	24.5	2.1	
PIONEER	85Y40	63	62	99	62	75	80	93	100	68	15	74	15	59	41	--	26.5	2.0	
GOLDEN HARVEST	H-390W	82	--	--	--	--	104	--	--	--	--	77	15	59	39	--	25.4	1.9	
MATURITY CHECK	TX2752xTX430	100	79	109	89	96	127	119	110	73	14	77	15	59	44	--	26.2	1.9	
DRUSSEL SEED	DSS B64	72	64	96	68	77	91	98	97	69	15	77	15	59	41	--	22.1	2.4	
MATURITY CHECK	OK11xTX2741	79	77	87	78	81	100	117	88	71	15	78	16	59	41	--	25.2	1.6	
DYNA-GRO	778B	84	--	--	--	--	107	--	--	--	--	79	16	58	50	--	22.3	2.3	
DYNA-GRO	GX07664	88	--	--	--	--	112	--	--	--	--	80	15	58	39	--	22.7	2.1	
DYNA-GRO	751B	96	68	114	82	93	123	103	115	73	15	80	16	58	44	--	24.1	1.9	
GOLDEN HARVEST	H-508W	85	--	--	--	--	108	--	--	--	--	86	16	58	41	--	22.7	2.0	
	AVERAGES	79	66	99	72	81	79	66	99	67	15	72	15	59	40	--	25.0	2.1	
	CV (%)	11	10	16	--	--	11	10	16	--	--	4	6	1	6	--	11.4	10.9	
	LSD(0.20)*	12	9	25	--	--	15	14	26	--	--	5	1	1	3	--	2.2	0.3	

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

Table 19. WEST Kansas Grain Sorghum Hybrid Yield Summary (% of test avg.), 2008

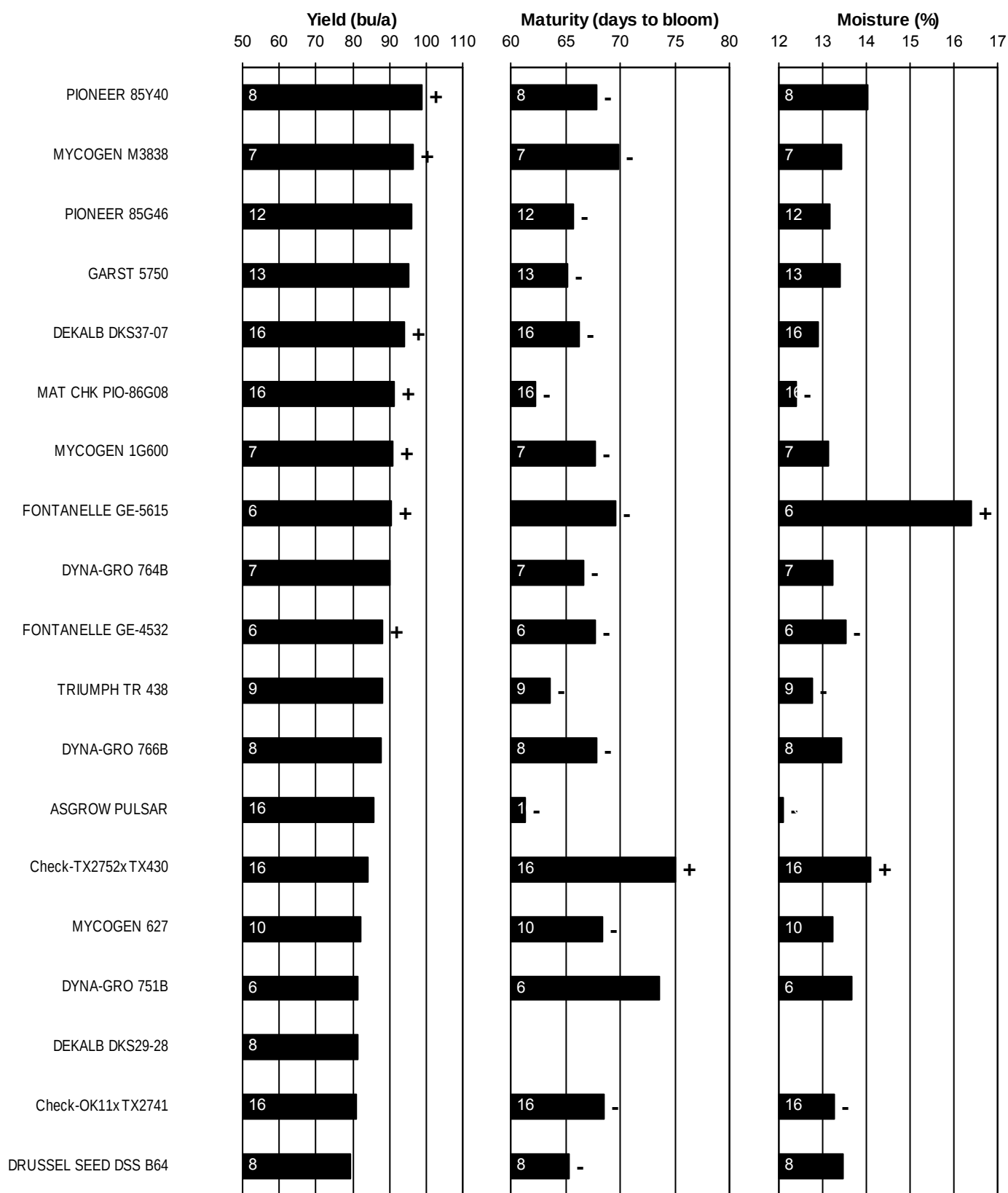
BRAND/NAME	ELD*	THD	GRD	FND	AVG.	BRAND/NAME	ELD	THD	GRD	FND	AVG.
ASGROW						OHLDE					
PULSAR	87	96	111	98	98	O-525	104	--	--	--	--
DEKALB						O-530	94	--	--	--	--
DK28E	65	65	67	92	72	O-567	115	--	--	--	--
DKS29-28	76	85	95	80	84	O-575	112	--	--	--	--
DKS36-16	113	112	114	105	111	PIONEER					
DKS37-07	94	111	125	98	107	85G46	111	102	130	105	112
DKS44-20	104	103	131	96	108	85Y40	126	99	104	80	102
DRUSSEL SEED						86G32	97	100	85	93	94
DSS B64	--	--	124	91	--	TRIUMPH					
DSS B6506	--	--	111	83	--	TR 433	--	--	77	--	--
DYNA-GRO						TR 434	--	--	105	--	--
751B	--	--	--	123	--	TR 438	101	--	--	--	--
764B	99	89	--	104	--	TR 458	93	--	--	84	--
766B	106	111	--	93	--	TR 460	100	--	--	--	--
772B	106	100	--	106	--	TR 463	--	87	--	--	--
778B	94	90	--	107	--	MATURITY CHECK					
GX07163	--	--	--	118	--	OK11xTX2741	94	103	100	100	100
GX07664	102	117	--	112	--	PIO-86G08	97	100	88	114	100
FONTANELLE						TX2752xTX430	102	96	87	127	103
GE-4532	98	--	--	--	--	AVERAGES (bu/a)	119	141	78	79	104
GE-5615	95	--	--	--	--	CV (%)	10	11	14	11	--
GARST						LSD (0.05)	15	15	19	15	--
5464	112	130	97	--	--						
5676	96	97	74	--	--						
5750	91	95	108	--	--						
5875	--	--	68	--	--						
GOLDEN HARVEST											
H-307	--	97	--	87	--						
H-390W	98	114	--	104	--						
H-508W	122	--	--	108	--						
MYCOGEN											
1G600	92	--	--	100	--						
627	90	--	--	99	--						
697	110	--	--	--	--						
M3838	101	--	--	94	--						

* ELD = Ellis Co., Hays

THD = Thomas Co., Colby

GRD = Greeley Co., Tribune

FND = Finney Co., Garden City



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

Figure 7. WEST Kansas grain sorghum hybrid standardized performance summary, 2006-2008

NORTH CENTRAL KANSAS IRRIGATED GRAIN SORGHUM TEST

Irrigation Expt. Field, Scandia; Barney Gordon, agronomist; Michael Larson and Doug Stensaaas, technicians

Crete silt loam; Soybeans in 2007

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

Planted on 6/10/2008; Harvested on 11/5/2008

Target stand of 82,200 plants/acre; 2.5 in. spacing

Wet conditions delayed planting past optimum time for full-season irrigated sorghum. Cooler and wetter than normal conditions slowed plant development.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	4.4	4.9	32	35		
April	3.4	1.7	49	38	454	534
May	3.9	2.3	62	52	835	886
June	4.7	3.6	73	63	1146	1149
July	5.0	4.7	78	73	1326	1368
August	3.9	3.4	72	78	1157	1310
Sept.	2.9	3.3	65	77	895	987
Oct.	5.8	3.6	54	68	622	663
Totals:	34.0	27.4	51	52	6,435	6,897

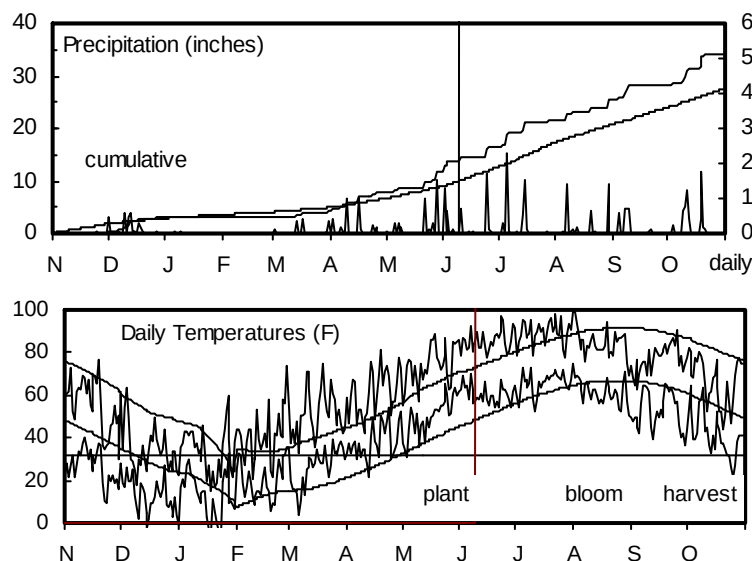


Table 20. Republic County Irrigated Grain Sorghum Performance Test, 2006-2008

BRAND	NAME	YIELD AS %									2007-2008		2008					
		ACRE YIELD, BUSHELS					OF TEST			Days to Blm	Grain to Moist %	Days to Blm	Grain to Moist %	Test Plnt lb/bu in.	Pop. 1000 ppa	Hds per Plnt		
		2008	2007	2006	2-Yr.	3-Yr.	2008	2007	2006									
					AVG.	AVG.				AVERAGE								
		2008	2007	2006	AVG.	AVG.	2008	2007	2006									
MATURITY CHECK	PIO-86G08	153	159	128	156	147	94	97	92	--	15	59	16	59	55	0	78.9	1.0
DEKALB	DKS44-20	176	--	--	--	--	108	--	--	--	--	60	16	60	54	0	80.3	1.0
PIONEER	85G03	169	--	--	--	--	104	--	--	--	--	60	16	60	58	2	79.6	1.0
DYNA-GRO	766B	153	--	--	--	--	94	--	--	--	--	61	16	60	60	0	78.9	1.0
DYNA-GRO	GX07664	152	--	--	--	--	93	--	--	--	--	61	16	60	51	0	83.0	1.0
GARST	5676	155	--	--	--	--	95	--	--	--	--	61	16	60	54	0	80.6	1.0
GARST	5750	152	--	--	--	--	93	--	--	--	--	61	16	60	59	0	75.6	1.0
GOLDEN HARVEST	H-307	152	--	--	--	--	93	--	--	--	--	61	16	60	54	0	80.9	1.0
GOLDEN HARVEST	H-390W	151	--	--	--	--	93	--	--	--	--	61	16	60	50	3	83.9	1.0
MATURITY CHECK	OK11xTX2741	148	133	132	140	138	91	81	94	--	15	61	16	60	53	0	75.7	1.0
PIONEER	85Y40	195	189	148	192	177	120	115	106	--	15	61	16	60	55	0	76.0	1.0
GOLDEN HARVEST	H-508W	155	--	--	--	--	95	--	--	--	--	62	16	60	56	0	81.1	1.0
MATURITY CHECK	TX2752xTX430	154	163	141	159	153	95	99	101	--	16	62	17	60	58	0	77.6	1.0
DYNA-GRO	751B	157	152	146	154	152	96	92	104	--	15	62	16	60	60	0	78.0	1.0
PIONEER	84G62	190	172	154	181	172	117	104	110	--	15	62	16	60	58	0	77.2	1.0
TRIUMPH	TR 481	165	171	145	168	160	101	104	104	--	15	62	16	60	62	0	76.8	1.0
DEKALB	DKS54-03	172	--	--	--	--	106	--	--	--	--	63	17	60	59	1	77.1	1.0
DYNA-GRO	772B	171	--	145	--	--	105	--	104	--	--	63	17	60	61	0	80.6	1.0
DYNA-GRO	778B	160	--	--	--	--	99	--	--	--	--	63	17	60	66	0	79.7	1.0
GOLDEN WORLD	GWX1488	158	--	--	--	--	97	--	--	--	--	63	17	59	58	2	78.5	1.0
DEKALB	DKS53-67	177	182	--	180	--	109	111	--	--	16	63	17	60	58	1	77.6	1.0
DEKALB	DKS54-00	170	159	154	164	161	105	96	110	--	16	63	17	60	63	0	77.1	1.0
GARST	5464	165	172	--	168	--	102	104	--	--	15	63	16	59	60	4	73.2	1.0
GOLDEN WORLD	GW 1467	165	156	142	161	154	101	95	101	--	16	63	17	60	54	0	81.9	1.0
GOLDEN WORLD	GW 1489	160	169	150	165	160	99	103	108	--	15	63	16	60	59	1	79.0	1.0
SORG. PARTNERS	NK6638	150	151	--	150	--	92	91	--	--	16	63	17	60	56	0	81.4	0.7
	AVERAGES	162	165	140	164	156	162	165	140	--	15	62	16	60	57	1	78.9	1.0
	CV (%)	6	5	7	--	--	6	5	7	--	--	1	2	0	4	244	5.0	9.9
	LSD (0.05)*	16	14	16	--	--	10	8	11	--	--	1	1	0	4	2	6.3	0.2

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

SOUTH CENTRAL KANSAS NO-TILL IRRIGATED GRAIN SORGHUM TEST

South Central Kansas Expt. Field, Hutchinson; William Heer, agronomist; Richard Seck, cooperatior

Ost loam; Soybeans in 2007

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

Planted on 5/14/2008; Harvested on 9/24/2008

Target stand of 90,000 plants/acre; 2.3 in. spacing

Good conditions throughout the growing season led to above-average yields.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	3.8	4.4	36	37		
April	2.8	2.6	51	55	509	617
May	5.9	3.8	64	65	898	927
June	5.4	4.3	75	75	1213	1196
July	2.3	3.5	79	81	1365	1416
August	2.3	3.1	76	79	1272	1361
Sept.	5.5	3.3	67	70	949	1053
Oct.	4.7	2.4	56	58	666	732
Totals:	32.6	27.3	54	56	6,872	7,302

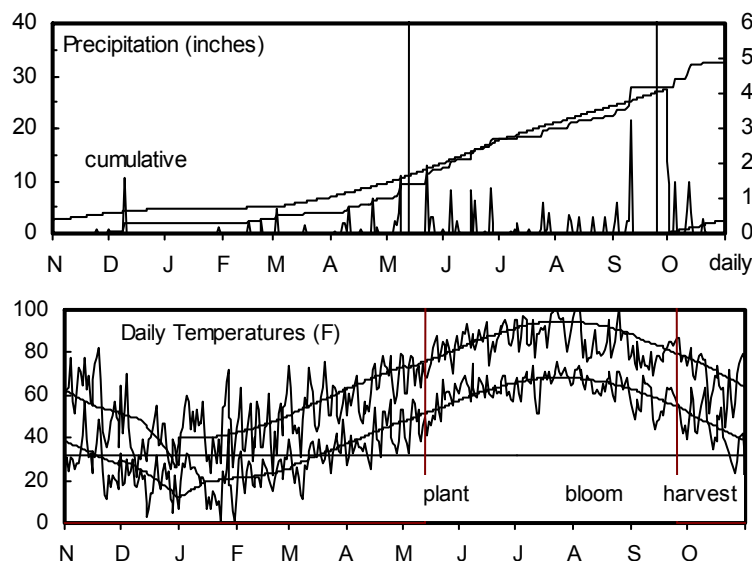


Table 21. Reno County No-Till Irrigated Grain Sorghum Performance Test, 2006-2008

BRAND	NAME	ACRE YIELD, BUSHEL S					YIELD AS % OF TEST			2007-2008		2008						
		2008	2007	2006	2-Yr. AVG.	3-Yr. AVG.	2008	2007	2006	Days to Blm	Grain to Moist. %	Days to Blm	Grain to Moist. %	Test Wt. lb/bu	Plant Ht. in.	Ldg %	Pop. 1000 ppa	Hds per Plnt
MATURITY CHECK	PIO-86G08	80	66	148	73	98	72	79	96	62	15	68	15	57	52	--	69.4	1.4
GARST	5750	97	--	--	--	--	87	--	--	--	--	68	14	58	49	--	80.9	1.2
GOLDEN HARVEST	H-508W	113	--	--	--	--	101	--	--	--	--	72	17	57	47	--	61.3	1.5
PIONEER	85G03	101	--	--	--	--	90	--	--	--	--	72	19	58	54	--	73.6	1.2
MIDLAND	MG4748	99	72	161	85	111	89	86	105	64	15	72	16	58	51	--	78.1	1.1
GOLDEN HARVEST	H-307	96	--	--	--	--	86	--	--	--	--	73	16	59	48	--	66.8	1.3
GOLDEN HARVEST	H-390W	100	--	--	--	--	90	--	--	--	--	73	18	57	52	--	74.1	1.3
MATURITY CHECK	OK11xTX2741	91	68	125	79	95	81	82	81	65	15	73	17	58	54	--	67.0	1.2
TRIUMPH	TR 460	106	--	--	--	--	95	--	--	--	--	73	19	58	47	--	65.7	1.2
DEKALB	DKS 44-20	119	--	--	--	--	107	--	--	--	--	73	17	59	51	--	72.5	1.2
GARST	5676	81	--	--	--	--	73	--	--	--	--	74	19	57	55	--	68.7	1.1
PIONEER	84G62	140	102	190	121	144	126	123	123	66	17	74	19	58	48	--	74.8	1.1
PIONEER	85Y40	125	72	157	98	118	112	86	102	66	16	74	18	58	52	--	69.1	1.3
DYNA-GRO	766B	101	70	--	86	--	90	85	--	66	17	74	19	58	47	--	69.0	1.2
GOLDEN WORLD	GW 1467	109	--	--	--	--	98	--	--	--	--	74	19	58	54	--	77.0	1.2
GOLDEN WORLD	GWX1488	120	--	--	--	--	108	--	--	--	--	75	18	58	50	--	71.6	1.1
MIDLAND	MG4772	118	84	163	101	122	106	101	105	67	16	75	18	58	47	--	80.0	1.1
DYNA-GRO	GX07664	100	80	--	90	--	89	97	--	66	17	75	18	58	52	--	71.0	1.2
GOLDEN WORLD	GW 1489	114	--	--	--	--	102	--	--	--	--	75	20	58	50	--	58.7	1.4
DEKALB	DKS 54-03	143	--	--	--	--	129	--	--	--	--	76	19	58	53	--	69.9	1.3
DYNA-GRO	751B	118	77	173	98	123	106	93	112	67	16	76	18	59	48	--	66.4	1.2
MATURITY CHECK	TX2752xTX430	126	87	174	107	129	113	105	113	68	17	76	20	57	49	--	71.9	1.4
MIDLAND	MG4758Y	98	--	--	--	--	88	--	--	--	--	76	21	57	51	--	61.6	1.3
DEKALB	DKS53-67	125	106	--	116	--	112	128	--	68	18	77	20	59	49	--	72.5	1.3
DYNA-GRO	772B	132	--	153	--	--	118	--	99	--	--	77	20	58	51	--	77.4	1.2
GARST	5464	126	97	--	111	--	113	117	--	68	18	77	21	57	53	--	75.5	1.3
DEKALB	DKS54-00	132	96	152	114	127	119	115	98	67	17	78	20	58	51	--	75.5	1.1
SORG. PARTNERS	NK6638	102	90	--	96	--	92	109	--	69	17	78	18	58	43	--	69.4	1.4
TRIUMPH	TR 481	110	--	--	--	--	98	--	--	--	--	79	25	57	49	--	68.1	1.1
DYNA-GRO	778B	120	102	--	111	--	108	123	--	71	20	80	25	57	48	--	82.0	1.0
	AVERAGE	111	83	154	97	116	111	83	154	67	17	75	19	58	50	--	71.3	1.2
	CV (%)	8	12	7	--	--	8	12	7	--	--	3	14	2	10	--	13.8	7.4
	LSD (0.05)	13	14	15	--	--	11	16	10	--	--	3	4	1	7	--	6.6	0.1

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

WEST KANSAS IRRIGATED GRAIN SORGHUM TEST

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

Keith silt loam; Sunflowers in 2007

175 - 50 - 0 lb/a N, P, K

Planted on 5/21/2008; Harvested on 11/3/2008

Target stand of 90,000 plants/acre; 2.3 in. spacing

Growing season was normal until mid-August when it was cooler and wetter than normal. The early cool temperatures delayed maturity, but warm days in October helped the later hybrids mature.

Some hybrids were chlorotic from iron deficiency.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar.	1.1	2.4	33	32		
April	1.3	1.4	47	49	427	421
May	2.9	2.9	58	59	738	762
June	0.7	3.4	70	70	1053	1054
July	2.9	3.1	77	76	1306	1285
August	3.1	2.1	72	74	1148	1216
Sept.	1.7	1.6	64	66	865	910
Oct.	2.8	0.4	52	53	555	556
Totals:	16.5	17.4	51	51	6,092	6,204

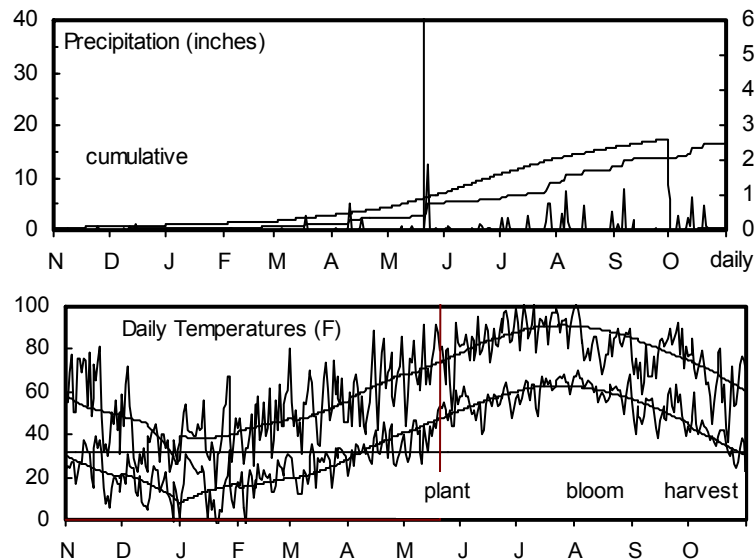


Table 22. Thomas County Irrigated Grain Sorghum Performance Test, 2006-2008

BRAND	NAME	YIELD AS %									2007-2008		2008							Pop. 1000 ppa	Hds per Plnt
		ACRE YIELD, BUSHEL					OF TEST			Days to Blm	Grain to Moist. %	Days to Blm	Grain to Moist. %	Test Wt. lb/bu	Plnt Ht. in.	Ldg %					
		2008	2007	2006	2-Yr.	3-Yr.	2008	2007	2006												
					AVG.	AVG.											AVERAGE				
		2008	2007	2006	AVG.	AVG.	2008	2007	2006												
GARST	5875	103	--	--	--	--	62	--	--	--	--	66	8	52	37	--	64.0	1.1			
MATURITY CHECK	PIO-86G08	175	183	139	179	166	105	96	91	67	10	70	10	55	44	--	66.6	1.3			
DYNA-GRO	772B	169	--	148	--	--	101	--	97	--	--	74	9	56	46	--	65.2	1.3			
DYNA-GRO	764B	179	159	153	169	164	108	83	100	70	8	74	8	53	45	--	62.2	1.3			
MATURITY CHECK	TX2752xTX430	177	199	179	188	185	107	104	117	74	10	74	9	56	46	--	73.4	1.2			
MATURITY CHECK	OK11xTX2741	172	157	141	164	156	103	82	92	72	9	76	9	55	48	--	62.4	1.3			
GARST	5750	172	--	--	--	--	103	--	--	--	--	77	11	57	48	--	68.7	1.2			
PIONEER	85G46	154	--	138	--	--	93	--	90	--	--	79	12	58	47	--	65.0	1.0			
DYNA-GRO	766B	188	--	130	--	--	113	--	85	--	--	80	10	55	48	--	73.6	1.0			
GARST	5464	188	--	--	--	--	113	--	--	--	--	81	11	54	51	--	69.5	1.0			
PIONEER	85Y40	176	200	162	188	179	106	104	106	77	10	84	10	56	48	--	64.6	1.1			
DEKALB	DKS44-20	149	--	--	--	--	90	--	--	--	--	86	10	53	48	--	70.5	1.1			
DEKALB	DKS54-03	197	--	--	--	--	119	--	--	--	--	86	9	52	51	--	58.2	1.2			
DEKALB	DKS54-00	208	211	186	209	201	125	110	121	78	10	86	10	52	53	--	61.9	1.2			
GARST	5676	110	--	--	--	--	66	--	--	--	--	88	8	38	46	--	55.0	0.8			
DEKALB	DKS53-67	187	219	--	203	--	112	114	--	81	12	89	12	52	52	--	71.9	1.1			
TRIUMPH	TR 481	143	--	--	--	--	86	--	--	--	--	93	10	50	53	--	54.2	1.1			
SORG. PARTNERS	NK6638	168	--	--	--	--	101	--	--	--	--	95	10	52	49	--	66.6	1.1			
DYNA-GRO	GX07664	172	192	--	182	--	103	100	--	85	10	95	10	45	45	--	69.3	1.1			
PIONEER	84G62	157	209	179	183	182	95	109	117	83	11	95	11	49	49	--	61.5	1.0			
DYNA-GRO	GX07163	174	215	--	195	--	105	112	--	84	12	95	12	48	52	--	65.8	1.1			
TRIUMPH	TR 463	155	189	--	172	--	93	98	--	88	12	97	12	47	51	--	43.3	1.3			
DYNA-GRO	778B	150	--	--	--	--	90	--	--	--	--	99	9	46	53	--	55.5	1.0			
	AVERAGES	166	192	153	179	170	166	192	153	78	10	84	10	52	48	--	63.9	1.1			
	CV (%)	11	7	6	--	--	11	7	6	--	--	4	15	16	4	--	11.4	13.8			
	LSD (0.05)*	25	19	13	--	--	15	10	8	--	--	4	2	12	3	--	14.6	0.2			

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

WEST KANSAS IRRIGATED GRAIN SORGHUM TEST

Southwest Research-Extension Center, Tribune; Alan Schlegel, agronomist; Dewayne Bond, assistant scientist

Ulysses silt loam; Wheat in 2007

120 - 25 - 0 lb/a N, P, K

Planted on 6/2/2008; Harvested on 11/8/2008

Target stand of 70,000 plants/acre; 3.0 in. spacing

Dry conditions until mid-July; no disease or insect pressure noted.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	0.2	2.1	34	34		
April	0.7	1.3	48	49	456	430
May	0.3	2.3	60	59	788	772
June	0.8	2.5	72	70	1103	1063
July	2.2	2.6	78	76	1326	1287
August	4.2	2.3	72	74	1145	1209
Sept.	0.8	1.3	63	66	848	934
Oct.	2.6	0.7	53	53	580	588
Totals:	11.9	15.0	52	52	6,246	6,283

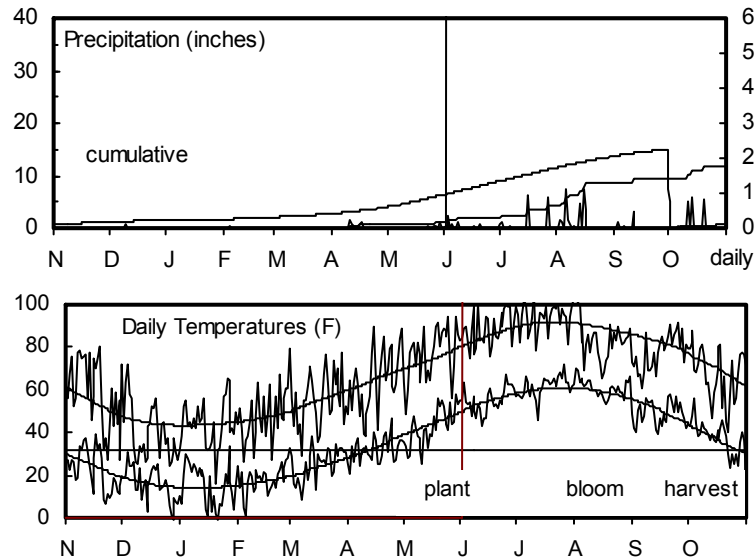


Table 23. Greeley County Irrigated Grain Sorghum Performance Test, 2006-2008

BRAND	NAME	YIELD AS %										2007-2008		2008							
		ACRE YIELD, BUSHELS					OF TEST			Days to Blm	Grain to Moist. %	Days to Blm	Grain to Moist. %	Test Plnt Wt. lb/bu	Ht. in.	Ldg %	Pop. 1000 ppa	Hds per Plnt			
		2008	2007	2006	2-Yr. AVG.	3-Yr. AVG.	2008	2007	2006												
		2008	2007	2006	2008	2007	2006	2008	2007	2006	2008	2007	2006	2008	2007	2006	2008	2007	2006	2008	2007
MATURITY CHECK	PIO-86G08	124	170	160	147	151	77	106	94	63	12	62	14	59	40	0	74.4	1.3			
DEKALB	DKS44-20	136	--	--	--	--	84	--	--	--	--	66	14	62	46	28	71.1	1.1			
PIONEER	85G46	143	--	161	--	--	89	--	95	--	--	66	14	61	44	8	69.9	1.1			
PIONEER	85Y40	161	179	187	170	175	100	111	110	71	13	71	14	61	44	15	75.3	1.1			
DYNA-GRO	772B	170	--	171	--	--	106	--	100	--	--	72	14	59	50	63	74.5	1.0			
MATURITY CHECK	OK11xTX2741	160	133	158	147	150	99	83	93	72	13	72	14	61	47	8	73.1	1.0			
DYNA-GRO	778B	178	--	--	--	--	110	--	--	--	--	74	14	60	61	93	68.4	1.1			
DEKALB	DKS54-00	173	157	196	165	175	107	98	115	72	13	75	15	58	53	10	70.5	1.1			
DEKALB	DKS53-67	160	174	--	167	--	99	109	--	74	13	76	14	60	50	45	75.9	1.1			
DEKALB	DKS54-03	191	--	--	--	--	119	--	--	--	--	77	14	61	52	30	72.0	1.1			
SORG. PARTNERS	NK6638	178	153	--	165	--	110	95	--	77	13	79	14	60	51	55	71.0	1.1			
DYNA-GRO	751B	169	179	182	174	177	105	111	107	77	13	79	14	59	53	45	76.2	1.0			
PIONEER	84G62	147	181	211	164	180	91	113	124	77	13	81	14	60	48	23	71.4	1.1			
MATURITY CHECK	TX2752xTX430	168	192	197	180	186	104	119	116	80	13	84	14	57	49	58	72.0	1.1			
	AVERAGES	161	161	170	161	164	161	161	170	72	13	74	14	60	49	34	72.5	1.1			
	CV (%)	8	6	9	--	--	8	6	9	--	--	5	3	2	6	68	1.2	4.2			
	LSD (0.05)*	18	14	22	--	--	11	9	13	--	--	5	1	2	4	33	4.0	0.1			

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

WEST KANSAS IRRIGATED GRAIN SORGHUM TEST

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

Keith silt loam; Wheat in 2007

48 - 0 - 0 lb/a N, P, K

Planted on 5/29/2008; Harvested on 11/4/2008

Target stand of 70,000 plants/acre; 3.0 in. spacing

Cooler and drier than normal. Hail storm on June 20 caused moderate defoliation.

Month	Precipitation		Average Temp.		GDU	
	2008	Norm.	2008	Norm.	2008	Norm.
Nov.-Mar	0.9	2.8	36	34		
April	1.5	1.6	49	50	456	472
May	1.6	2.9	62	61	837	831
June	2.4	3.0	73	72	1128	1115
July	1.1	2.5	78	78	1330	1321
August	1.8	2.2	75	75	1241	1260
Sept.	0.5	1.6	65	68	915	973
Oct.	4.4	1.0	55	54	631	620
Totals:	14.2	17.6	53	52	6,538	6,592

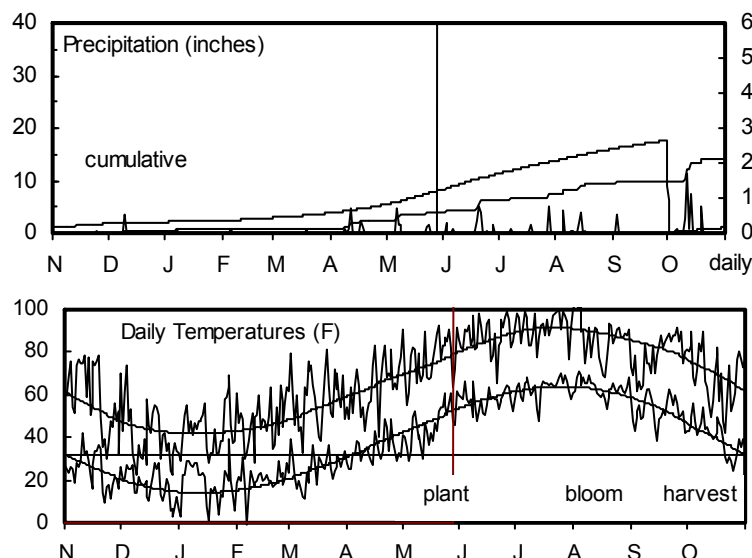


Table 24. Finney County Irrigated Grain Sorghum Performance Test, 2006-2008

BRAND	NAME	YIELD AS %										2007-2008		2008						
		ACRE YIELD, BUSHELS					OF TEST			Days to Blm	Grain to Moist. %	Days to Blm	Grain to Moist. %	Test lb/bu	Plnt in.	Hds per Plnt				
		2008	2007	2006	2-Yr. AVG.	3-Yr. AVG.	2008	2007	2006											
MATURITY CHECK	PIO-86G08	137	157	134	147	143	112	103	95	62	11	65	13	61	46	--	87.3	1.1		
GARST	5750	124	--	--	--	--	102	--	--	--	--	68	13	61	47	--	83.3	1.0		
PIONEER	85G46	137	--	148	--	--	112	--	104	--	--	69	13	61	47	--	86.4	1.0		
DYNA-GRO	766B	128	150	139	139	139	105	99	98	65	12	69	14	60	49	--	86.5	0.9		
MIDLAND	MG4748	111	145	--	128	--	91	96	--	65	11	69	12	61	49	--	92.2	0.9		
GOLDEN HARVEST	H-307	105	--	--	--	--	86	--	--	--	--	70	12	62	46	--	82.4	1.0		
TRIUMPH	TR 458	109	142	--	126	--	89	94	--	66	12	70	13	61	47	--	80.4	1.0		
DYNA-GRO	772B	130	--	148	--	--	107	--	104	--	--	71	13	61	50	--	89.1	0.8		
GARST	5676	79	--	--	--	--	65	--	--	--	--	71	14	60	45	--	76.6	0.7		
FONTANELLE	GE-4532	129	150	--	139	--	105	99	--	66	12	71	13	61	49	--	87.7	0.8		
FONTANELLE	GE-5615	81	150	--	115	--	66	98	--	67	13	71	14	60	49	--	90.2	0.9		
GARST	5464	140	153	--	147	--	115	101	--	67	12	71	13	61	49	--	86.7	0.9		
DEKALB	DKS44-20	129	--	--	--	--	105	--	--	--	--	72	12	61	48	--	80.6	0.8		
MIDLAND	MG4758Y	76	--	--	--	--	62	--	--	--	--	72	13	61	51	--	80.6	1.0		
TRIUMPH	TR 460	144	--	--	--	--	118	--	--	--	--	72	13	61	48	--	81.2	1.1		
PIONEER	85Y40	92	156	144	124	131	75	102	102	67	12	72	13	61	49	--	91.8	1.0		
DEKALB	DKS54-00	139	151	155	145	148	114	99	109	68	11	73	12	61	52	--	87.1	0.9		
MIDLAND	MG4772	136	156	--	146	--	111	103	--	68	12	73	13	61	50	--	102.7	0.8		
GOLDEN HARVEST	H-390W	126	--	--	--	--	103	--	--	--	--	74	12	61	46	--	89.0	0.8		
MATURITY CHECK	OK11xTX2741	113	134	127	124	125	93	88	89	69	11	74	13	61	47	--	79.8	0.8		
PIONEER	84G62	112	158	147	135	139	92	104	103	69	11	74	12	61	50	--	88.6	0.9		
DEKALB	DKS53-67	148	165	--	157	--	121	109	--	68	12	74	13	61	52	--	87.1	1.0		
DEKALB	DKS54-03	130	--	--	--	--	106	--	--	--	--	75	12	61	50	--	90.0	0.9		
DYNA-GRO	751B	146	163	152	154	154	120	107	107	70	12	75	13	61	52	--	74.2	0.9		
DYNA-GRO	GX07163	147	160	--	154	--	120	105	--	70	12	75	13	61	50	--	75.5	1.0		
MATURITY CHECK	TX2752xTX430	125	167	155	146	149	103	110	109	71	11	76	12	61	50	--	84.8	0.9		
SORG. PARTNERS	NK6638	102	--	--	--	--	83	--	--	--	--	77	13	61	50	--	85.4	0.9		
GOLDEN HARVEST	H-508W	150	--	--	--	--	122	--	--	--	--	78	12	61	50	--	84.5	0.9		
DYNA-GRO	GX07664	117	148	--	133	--	96	98	--	71	11	79	11	62	45	--	81.5	0.9		
DYNA-GRO	778B	121	156	--	139	--	99	103	--	72	13	79	14	60	56	--	83.1	0.8		
	AVERAGES	122	152	142	137	139	122	152	142	68	12	73	13	61	49	--	85.2	0.9		
	CV (%)	11	5	7	--	--	11	5	7	--	--	2	6	1	2	--	8.5	8.3		
	LSD (0.05)*	19	11	16	--	--	16	7	11	--	--	3	1	1	1	--	10.7	0.1		

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

Table 25. Kansas IRRIGATED Grain Sorghum Hybrid Yield Summary (% of test avg.), 2008

BRAND/NAME	RPI*	RNI	THI	GRI	FNI	AVG.	BRAND/NAME	RPI	RNI	THI	GRI	FNI	AVG.
DEKALB							PIONEER						
DKS44-20	108	107	90	84	105	99	84G62	117	126	95	91	92	104
DKS53-67	109	112	112	99	121	111	85G03	104	90	--	--	--	--
DKS54-00	105	119	125	107	114	114	85G46	--	--	93	89	112	--
DKS54-03	106	129	119	119	106	116	85Y40	120	112	106	100	75	103
DYNA-GRO							SORG. PARTNERS						
751B	96	106	--	105	120	--	NK6638	92	92	101	110	83	96
764B	--	--	108	--	--	--	TRIUMPH						
766B	94	90	113	--	105	--	TR 458	--	--	--	--	89	--
772B	105	118	101	106	107	107	TR 460	--	95	--	--	118	--
778B	99	108	90	110	99	101	TR 463	--	--	93	--	--	--
GX07163	--	--	105	--	120	--	TR 481	101	98	86	--	--	--
GX07664	93	89	103	--	96	--	MATURITY CHECK						
FONTANELLE							OK11xTX2741	91	81	103	99	93	93
GE-4532	--	--	--	--	105	--	PIO-86G08	94	72	105	77	112	92
GE-5615	--	--	--	--	66	--	TX2752xTX430	95	113	107	104	103	104
GARST							AVERAGES (bu/a)	162	111	166	161	122	145
5464	102	113	113	--	115	--	CV (%)	6	8	11	8	11	--
5676	95	73	66	--	65	--	LSD (0.05)	10	11	15	11	16	--
5750	93	87	103	--	102	--							
5875	--	--	62	--	--	--							
GOLDEN HARVEST													
H-307	93	86	--	--	86	--							
H-390W	93	90	--	--	103	--							
H-508W	95	101	--	--	122	--							
GOLDEN WORLD													
GW 1467	101	98	--	--	--	--							
GW 1489	99	102	--	--	--	--							
GWX1488	97	108	--	--	--	--							
MIDLAND													
MG4748	--	89	--	--	91	--							
MG4758Y	--	88	--	--	62	--							
MG4772	--	106	--	--	111	--							

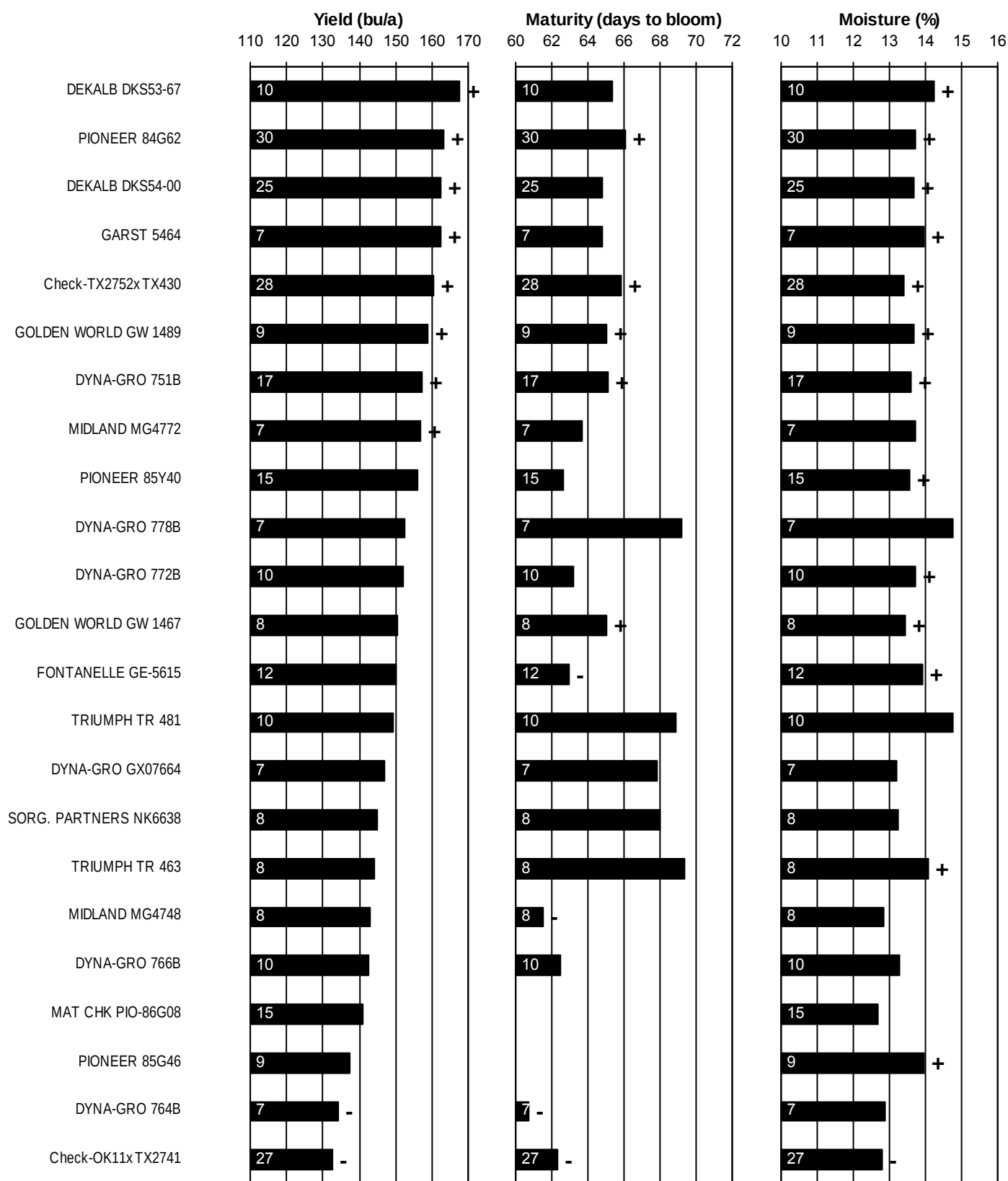
* RPI=Republic Co., Scandia

RNI=Reno Co., Hutchinson

THI=Thomas Co., Colby

GRI=Greeley Co., Tribune

FNI=Finney Co., Garden City



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

Figure 8. Kansas IRRIGATED grain sorghum hybrid standardized performance summary, 2006-2008

Table 26. Entries in the 2008 Kansas Grain Sorghum Performance Tests*

BRAND	GC	EC	PC	Mat.	Days	GB	BRAND	GC	EC	PC	Mat.	Days	GB
ADVANCED GEN.							GOLDEN WORLD						
A 110	B	HY	P	E	62	-	GW2045	R	W	P	ME	58	-
A 115C	C	HY	P	ME	68	CE	GWX3045	R	W	P	ME	60	-
A 121	R	W	P	M	70	CEIK	GW 1467	R	W	P	M	65	-
A 137	R	W	P	ML	73	CE	GWX1445	R	W	P	M	65	-
ASGROW							GW 1489	R	W	P	ML	68	E
PULSAR	B	HY	P	E	68	CEI	GWX1488	B	HY	P	ML	68	-
DEKALB							MIDLAND						
DK28E	B	HY	P	E	58	E	MG4758Y	Y	HY	P	M	64	-
DKS29-28	B	HY	P	E	58	CE	MG4748	B	-	P	M	65	CDE
DKS37-07	B	HY	P	E	67	CEI	MG4772	B	-	P	M	68	CE
DKS44-20	B	HY	P	M	67	-	MYCOGEN						
DKS36-16	B	HY	P	M	68	-	627	B	W	P	ME	64	-
DKS53-67	B	HY	P	L	71	CEI	697	B	W	P	M	64	CEIK
DKS54-03	B	HY	P	L	74	-	1G600	B	HY	P	ME	68	CEIK
DKS54-00	B	HY	P	L	75	CEI	737	B	W	P	M	69	-
DRUSSEL SEED							M3838	C	HY	P	ME	69	E
DSS B64	B	W	P	ME	64	C	OHLDE						
DSS B6506	B	W	P	ME	65	CDE	O-525	B	W	P	E	64	-
DYNA-GRO							O-530	C	Y	P	ME	67	CE
764B	B	HY	T	ME	64	CDE	O-567	B	W	P	M	70	CEIK
GX07163	B	HY	T	ME	64	CE	O-575	R	W	P	M	70	-
766B	B	HY	T	ME	65	CDE	O-587	R	W	P	ML	72	-
GX07664	R	HY	T	M	67	CE	PIONEER						
772B	B	HY	T	M	68	CE	86G32	R	W	P	E	65	-
751B	B	W	T	ML	69	CE	85G03	R	W	P	M	69	-
778B	B	HY	T	ML	74	CE	85G46	R	W	P	M	69	E
FONTANELLE							85Y40	W	Y	P	M	70	-
GE-4532	B	Y	P	ME	62	CE	84G62	B	Y	P	L	72	E
GE-5615	B	Y	P	M	67	CE	SORG. PARTNERS						
GARST							NK6638	B	HY	P	M	70	C
5875	B	-	P	E	54	C	TRIUMPH						
5750	B	HY	P	ME	62	CE	TR 458	-	-	-	-	-	-
5676	-	-	P	M	64	C	TR 433	R	W	P	E	56	CE
5464	B	HY	P	MF	68	-	TR 434	R	W	P	E	58	CE
GOLDEN HARVEST							TR 438	B	W	P	E	60	CE
H-307	-	-	-	-	-	-	TR 452	R	W	P	ME	60	CE
H-390W	-	-	P	E	63	C	TR 460	Y	W	P	M	62	CEI
H-508W	-	-	P	L	70	C	TR 463	R	W	P	M	62	CE
							TR 481	R	W	P	ML	72	CE
							MATURITY CHECK						
							PIO-86G08	R	W	P	E	65	E
							OK11xTX2741	W	W	P	M	69	-
							TX2752xTX430	B	W	P	L	73	-

* Information provided by entrants:
 GC = grain color: bronze, cream, red, yellow, white
 EC = endosperm color: white, yellow, hetero-yellow
 PC = plant color: purple, tan
 Mat. = relative maturity: early, medium, late
 Days = days to half bloom
 G-bug = resistance to specific greenbug biotypes: C, E, I, K, etc.

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

<http://kscroptests.agron.ksu.edu>

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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Contributors

Main Station, Manhattan

Jane Lingenfelser, Assistant Agronomist (Senior Author)
Doug Jardine, Extension Plant Pathologist
Jeff Whitworth, Extension Entomologist
Mary Knapp, KSU State Climatologist
James R. Cochrane, Assistant Scientist
Edward O. Quigley, Agricultural Technician

Research Centers

Patrick Evans, Colby
Ken Kofoed, Hays
James Long, Parsons
Alan Schlegel, Tribune
Monty Spangler, Garden City

Experiment Fields

Mark Claassen, Hesston
W. Barney Gordon, Scandia
William Heer, Hutchinson
James Kimball, Ottawa
Larry Maddux, Topeka

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