

2010

Kansas Performance Tests with Grain Sorghum Hybrids

Report of Progress 1041



Kansas State University
Agricultural Experiment Station
and Cooperative Extension Service

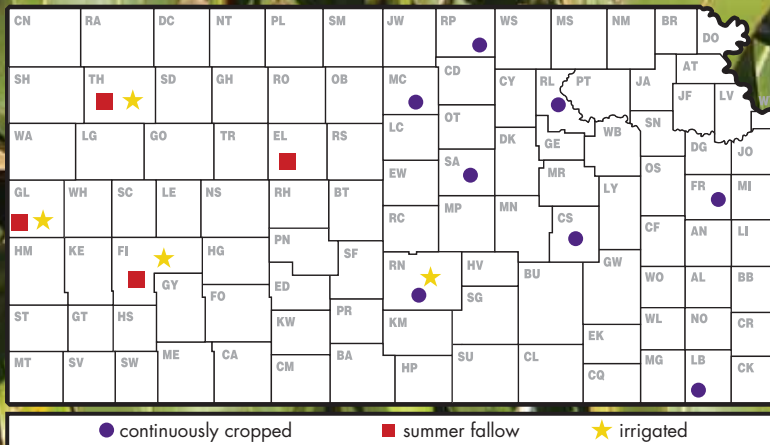


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2010 GRAIN SORGHUM CROP REVIEW

Statewide Growing Conditions

The Kansas grain sorghum growing season progressed rapidly in 2010, spurred by mostly favorable planting conditions in the spring and extremely hot temperatures during the summer. Frequent and sometimes heavy rains required that many acres be replanted, especially in southeast Kansas. Increased rainfall in the spring helped the topsoil moisture levels remain adequate throughout the state, with the exception of a two-week period in August when temperatures stayed in the triple digits (Figure 1). During this period of extreme heat, the grain sorghum was forced to develop at an accelerated pace. Consequently, many producers found that their grain sorghum did not fill completely and yield potential was not met in many fields. The quality of the 2010 crop, however, stayed consistently fair to excellent for the entirety of the growing season (Figure 2).

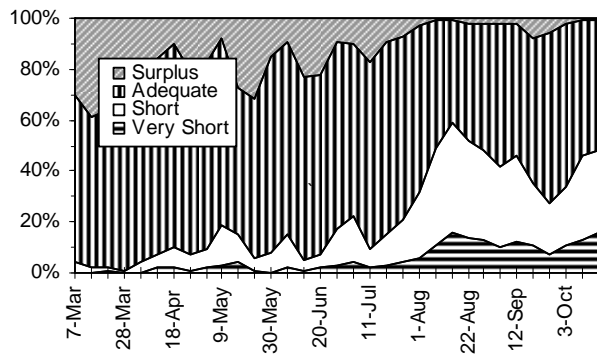


Figure 1. Statewide status of topsoil moisture

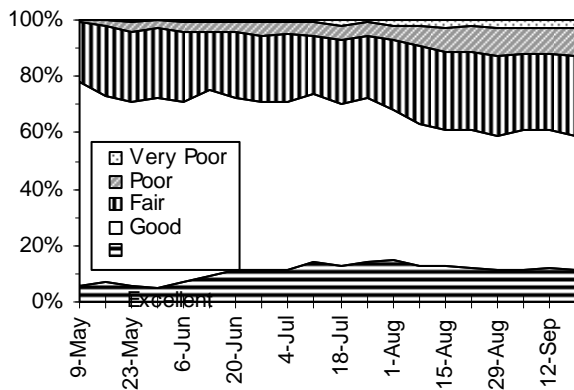


Figure 2. Condition of 2010 Kansas sorghum crop
(Crop Weather Reports, Kansas Agricultural Statistics Service, Topeka)

Diseases

Yield losses due to plant diseases were minimal in the 2010 Kansas grain sorghum crop. Most of the problems that occurred were early in the season when frequent rainfalls kept the soil at or above field capacity. The two most common early season diseases were sorghum downy mildew and Pythium seedling blight. Later, crazy top downy mildew could be found in fields where water tends to pond, such as at field edges where runoff collects.

In no-till fields where rotation is not practiced, sooty stripe was the most common foliar disease. Because this disease is spread by splashing rain drops, the fields with the highest levels of disease coincided with areas that received frequent rainfalls during the mid to late vegetative stages.

Late in the season, both Fusarium stalk rot and Fusarium neck rot could be found in fields that had received significant drought stress earlier in the season. Grain molds, although present, did not appear to be a particular problem.

Other diseases that were reported but did little or no damage include bacterial stripe, target spot, and maize dwarf mosaic. No ergot was known to occur in Kansas in 2010. (Doug Jardine, Kansas State University Department of Plant Pathology)

Insects

Insect problems during the 2010 growing season mostly consisted of whorl-feeding caterpillars and feeding on the developing grain in the head by these same species of insects. The predominant species for both whorl-feeding and head feeding were fall armyworms and corn earworms (often called the sorghum headworm). Whorl feeding can be very dramatic and always causes considerable concern to growers but is rarely detrimental to the plant, which has an amazing capacity to compensate for loss of leaf tissue at this stage of development with little affect on yield. Many acres, however, were treated to control the head-feeding larvae. This was justified because significant grain can be destroyed very quickly if the infestation is not detected in the early stages of grain fill. One larva/head will reduce yield by about 5%. (Jeff Whitworth, Kansas State University Department of Entomology)

Harvest Statistics

The Kansas Agricultural Statistics Service predicted a 171.6 million-bushel crop in the October 8 Crops Report, down 24% from last year (Figure 3). The number of acres harvested was down 350,000 acres from last year, at 2.35 million. The average yield estimate of 78 bushels per acre is 10 bushels lower than last year's yield. (Kansas Agricultural Statistics Service, Topeka)

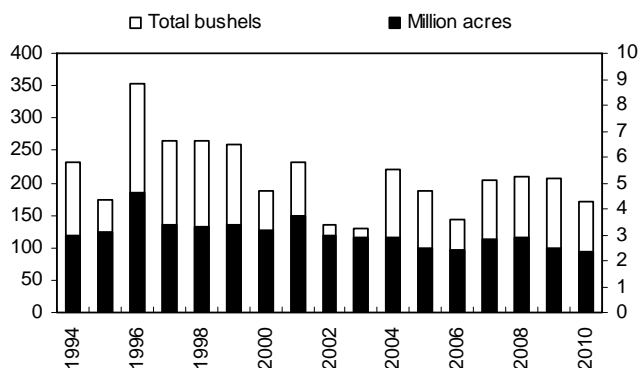


Figure 3. Historical Kansas grain sorghum production

2010 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. 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 2010 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 22 contain results from the individual performance tests. Hybrids are listed in order of increasing days to half bloom when that information is available, 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. 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.

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 2010 Kansas Grain Sorghum Performance Tests

Channel Bio Corp.
Lincoln, NE
402-467-2517
channelbio.com

**Dyna-Gro
UAP-Pueblo**
Overland Park, KS
913-227-0838

Phillips Seed Farms
Hope, KS
785-949-2204
phillipsseed.com

Syngenta Seeds
Minnetonka, MN
402-616-6534
syngenta.com

**Asgrow/DeKalb
Monsanto Seed**
St. Louis, MO
800-335-2676
www.asgrow.com

**Midland
Kauffman Seeds**
Haven, KS
620-465-2245

**Pioneer Brand
Pioneer Hi-Bred, Intl., Inc.**
Lincoln, NE
800-228-4050
pioneer.com

Triumph Seed Co., Inc.
Ralls, TX
888-521-7333
triumphseed.com

Drussel Seed, Inc.
Garden City, KS
620-275-2359

Ohlde Seed Farms
Palmer, KS
785-692-4555

Producers Hybrids
Battle Creek, NE
888-675-3190
producershybrids.com

NORTHEAST KANSAS DRYLAND GRAIN SORGHUM TEST

Agronomy North Farm, Manhattan; Jane Lingenfelter, agronomist

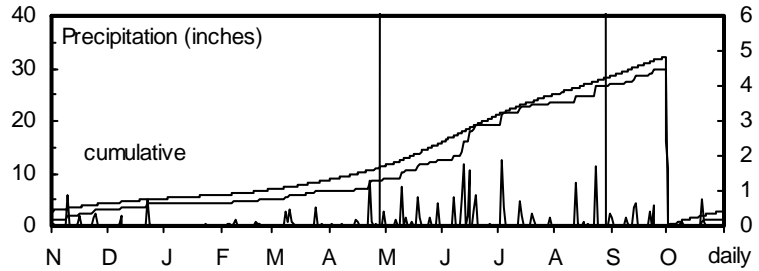
Reading silt loam; Soybean in 2009

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

Planted on 4/29/2010; Harvested on 8/27/2010

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

Heavy rains after planting caused emergence and stand issues.



Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.-Mar.	5.6	6.0	34	35		
April	2.3	2.6	59	53	825	575
May	3.6	4.5	64	64	914	918
June	6.6	5.1	77	73	1226	1158
July	4.2	4.0	81	79	1340	1369
August	3.5	3.5	80	78	1284	1317
Sept.	2.7	3.8	70	70	1048	1035
Oct.	1.1	2.7	60	57	866	698
Totals:	29.6	32.1	55	54	7,503	7,070

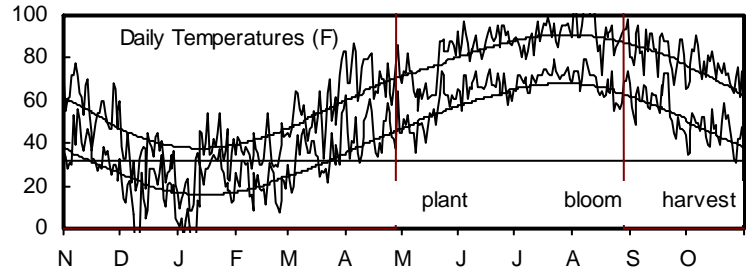


Table 2. Riley County Dryland Grain Sorghum Performance Test, 2008-2010

BRAND	NAME	YIELD AS % 2009-2010																
		ACRE YIELD, BUSHELS					OF TEST			Days Grain			Days Grain			Plnt	Pop.	Hds.
		2010	2009	2008	2-Yr. AVG.	3-Yr. AVG.	2010	2009	2008	Blm	to Moist.	%	Blm	to Moist.	Wt. lb/bu			
MATURITY CHECK	EARLY	86	95	--	91	--	86	72	--	71	14	71	11	60	--	5	40.4	1.5
DEKALB	DKS36-06	94	134	--	114	--	94	101	--	72	17	72	15	60	--	1	41.2	1.3
DEKALB	DKS37-07	95	117	120	106	111	95	88	96	70	16	72	14	60	--	5	43.9	1.4
DEKALB	DKS44-20	105	147	142	126	131	106	111	113	73	18	73	15	60	--	1	43.9	1.4
DYNA-GRO	742C	84	--	--	--	--	84	--	--	--	--	73	13	59	--	4	42.9	1.2
DYNA-GRO	772B	102	--	--	--	--	102	--	--	--	--	73	15	59	--	2	40.9	1.3
DYNA-GRO	GX08365	99	--	--	--	--	99	--	--	--	--	73	14	59	--	0	41.2	1.4
PIONEER	84P74	118	144	--	131	--	119	109	--	74	20	73	16	59	--	8	42.4	1.4
SYNGENTA	H-390W	82	--	--	--	--	82	--	--	--	--	73	13	58	--	3	40.4	1.2
TRIUMPH	TR 448	86	--	--	--	--	86	--	--	--	--	73	12	59	--	0	38.6	1.3
MATURITY CHECK	MEDIUM	116	119	--	118	--	116	90	--	72	16	74	14	59	--	4	44.1	1.5
PIONEER	85Y40	118	141	135	130	131	118	106	108	74	18	74	15	59	--	1	45.9	1.4
SYNGENTA	5613	97	--	--	--	--	97	--	--	--	--	74	13	59	--	0	40.9	1.3
SYNGENTA	5745	96	--	--	--	--	96	--	--	--	--	74	14	59	--	2	50.5	1.2
DEKALB	DKS49-45	100	--	--	--	--	100	--	--	--	--	75	14	60	--	4	44.1	1.2
DYNA-GRO	766B	102	--	--	--	--	102	--	--	--	--	75	13	59	--	4	40.4	1.4
PIONEER	85G03	113	137	134	125	128	114	103	106	73	17	75	15	59	--	4	44.4	1.5
TRIUMPH	TR 463	107	--	--	--	--	107	--	--	--	--	75	14	58	--	1	39.5	1.7
DEKALB	DKS53-67	105	147	138	126	130	105	111	110	76	20	76	16	60	--	0	42.9	1.2
DEKALB	DKS54-00	92	150	148	121	130	92	113	118	74	19	76	15	59	--	5	42.9	1.3
MATURITY CHECK	LATE	94	133	--	114	--	95	100	--	75	17	76	15	58	--	4	40.4	1.2
PIONEER	84G62	118	142	126	130	129	118	107	101	76	19	76	16	59	--	3	41.2	1.4
SYNGENTA	5464	87	--	--	--	--	88	--	--	--	--	77	16	58	--	1	41.5	1.2
	AVERAGES	100	133	126	117	120	100	133	126	73	18	74	14	59	--	3	42.4	1.3
	CV (%)	10	9	6	--	--	10	9	6	--	--	1	5	1	--	--	10	--
	LSD (0.05)	13	18	11	--	--	13	13	8	--	--	2	1	1	--	7	11	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.

NORTHEAST KANSAS DRYLAND GRAIN SORGHUM TEST

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

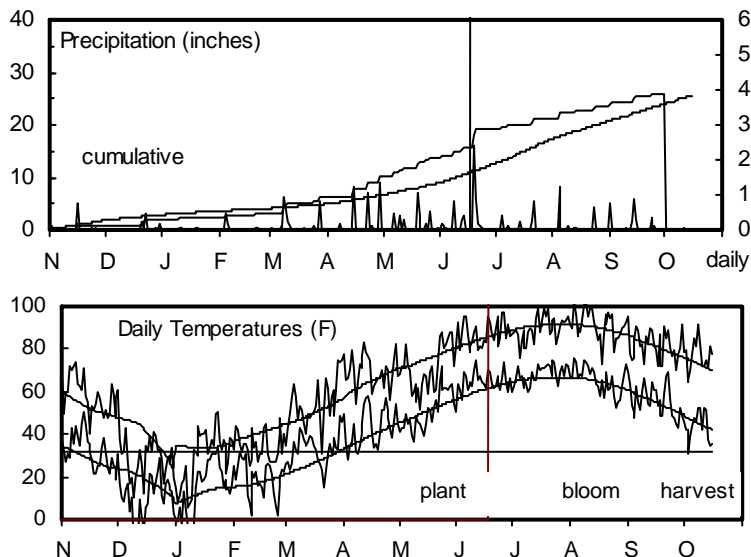
Crete silt loam; Soybean in 2009

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

Planted on 6/18/2010; Harvested on 10/29/2010

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

A freeze was required for the crop to reach physiological maturity and drydown.



Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.-Mar.	6.2	4.9	31	32		
April	4.2	1.7	57	52	655	534
May	3.5	2.3	61	63	807	886
June	5.5	3.6	76	73	1186	1149
July	1.8	4.7	79	78	1290	1368
August	2.2	3.4	79	77	1254	1310
Sept.	2.7	3.3	68	68	982	987
Oct.	0.1	1.7	60	59	373	375
Totals:	26.1	25.6	53	52	6,547	6,609

Table 3. Republic County Dryland Grain Sorghum Performance Test, 2008-2010

BRAND	NAME	YIELD AS % 2009-2010											Pop. 1000 ppa	Hds. per Pnt				
		ACRE YIELD, BUSHELS					OF TEST AVERAGE			Days Grain to Moist.					Plnt Ht. in.	Ldg %		
		2010	2009	2008	2-Yr. AVG.	3-Yr. AVG.	2010	2009	2008	Blm	%	Blm					%	
DEKALB	DKS36-06	140	180	--	160	--	100	107	--	--	18	--	19	58	54	--	50.3	--
DEKALB	DKS37-07	133	180	155	157	156	95	107	101	--	18	--	20	57	52	--	47.6	--
DEKALB	DKS44-20	154	176	178	165	169	111	104	115	--	21	--	25	56	53	--	52.5	--
DEKALB	DKS49-45	155	--	--	--	--	111	--	--	--	--	--	25	56	55	--	58.1	--
DEKALB	DKS53-67	160	205	188	183	184	115	121	122	--	22	--	27	56	54	--	50.5	--
DEKALB	DKS54-00	140	186	187	163	171	100	110	121	--	23	--	29	55	55	--	57.4	--
DYNA-GRO	742C	113	148	--	131	--	81	88	--	--	19	--	20	56	45	--	54.2	--
DYNA-GRO	751B	123	174	166	149	154	88	103	108	--	23	--	28	55	48	--	30.4	--
DYNA-GRO	764B	140	137	124	139	134	100	81	80	--	21	--	24	55	51	--	45.2	--
DYNA-GRO	766B	159	151	156	155	155	114	89	101	--	19	--	20	57	52	--	50.0	--
DYNA-GRO	772B	153	170	176	162	166	110	100	114	--	21	--	26	56	54	--	50.4	--
DYNA-GRO	778B	116	165	181	141	154	83	98	117	--	24	--	30	55	61	--	40.0	--
MATURITY CHECK	EARLY	104	171	134	138	136	75	101	87	--	17	--	18	58	48	--	43.5	--
MATURITY CHECK	LATE	149	190	172	170	170	107	112	111	--	22	--	27	54	55	--	43.2	--
MATURITY CHECK	MEDIUM	149	139	133	144	140	106	82	86	--	17	--	18	59	53	--	55.5	--
OHLDE	O-525	137	--	--	--	--	98	--	--	--	--	--	21	55	48	--	52.2	--
OHLDE	O-530	111	--	--	--	--	79	--	--	--	--	--	27	55	47	--	32.1	--
OHLDE	O-567	133	174	162	154	156	95	103	105	--	18	--	20	56	49	--	57.3	--
OHLDE	O-575	135	175	166	155	159	97	103	108	--	21	--	26	56	48	--	47.6	--
OHLDE	O-587	134	183	170	159	162	96	108	110	--	20	--	24	56	49	--	37.8	--
PIONEER	84G62	161	201	191	181	184	115	119	123	--	23	--	29	56	49	--	49.2	--
PIONEER	84P74	176	184	--	180	--	126	109	--	--	21	--	25	56	54	--	48.4	--
PIONEER	85G03	141	186	154	164	160	101	110	100	--	18	--	20	57	51	--	51.4	--
PIONEER	85Y40	157	191	164	174	171	112	113	106	--	19	--	21	58	54	--	60.0	--
SYNGENTA	5464	132	--	--	--	--	95	--	--	--	--	--	27	55	53	--	41.3	--
SYNGENTA	5556	153	--	--	--	--	109	--	--	--	--	--	22	57	50	--	52.4	--
SYNGENTA	5613	158	--	--	--	--	113	--	--	--	--	--	21	56	51	--	45.3	--
SYNGENTA	5745	140	--	--	--	--	101	--	--	--	--	--	19	58	45	--	52.5	--
SYNGENTA	H-390W	105	--	--	--	--	75	--	--	--	--	--	18	57	47	--	41.0	--
SYNGENTA	H-486	155	--	--	--	--	111	--	--	--	--	--	22	56	51	--	60.2	--
TRIUMPH	TR 438	137	--	--	--	--	98	--	--	--	--	--	24	56	49	--	52.5	--
TRIUMPH	TR 452	139	--	--	--	--	100	--	--	--	--	--	25	55	52	--	50.3	--
TRIUMPH	TR 458	129	--	--	--	--	93	--	--	--	--	--	24	56	50	--	35.9	--
TRIUMPH	TR 481	121	163	166	142	150	87	96	107	--	23	--	29	56	57	--	49.8	--
TRIUMPH	TRX05361	129	--	--	--	--	92	--	--	--	--	--	31	54	59	--	41.1	--

Table 3 continued. Republic County Dryland Grain Sorghum Performance Test, 2008-2010

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS %			2009-2010									
		2-Yr.		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 Pint	
		2010	2009	2008	AVG.		2010	2009	2008										
TRIUMPH	TRX85002	143	181	--	162	--	102	107	--	--	23	--	28	55	56	--	40.1	--	
TRIUMPH	TRX95005	149	179	--	164	--	107	106	--	--	20	--	23	56	50	--	43.5	--	
	AVERAGES	140	169	154	155	154	140	169	154	--	20	--	24	56	52	--	47.9	--	
	CV (%)	8	5	6	--	--	8	5	6	--	--	--	0	0	3	--	12	--	
	LSD (0.05)	19	14	15	--	--	14	8	10	--	--	--	0	0	2	--	9	--	

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; Michael Larson and Doug Stensaas, technicians

Harney silt loam; Wheat in 2009

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

Planted on 6/29/2010; Harvested on 11/8/2010

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

A freeze was required for the crop to reach physiological maturity and drydown.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.-Mar.	6.1		33			
April	3.9		58		700	424
May	3.2		62		827	835
June	4.0		77		1202	1197
July	4.4		80		1316	1369
August	1.6		80		1284	1242
Sept.	3.7		71		1039	971
Oct.	0.1		60		379	400
Totals:	27.0		54		6,747	6,438

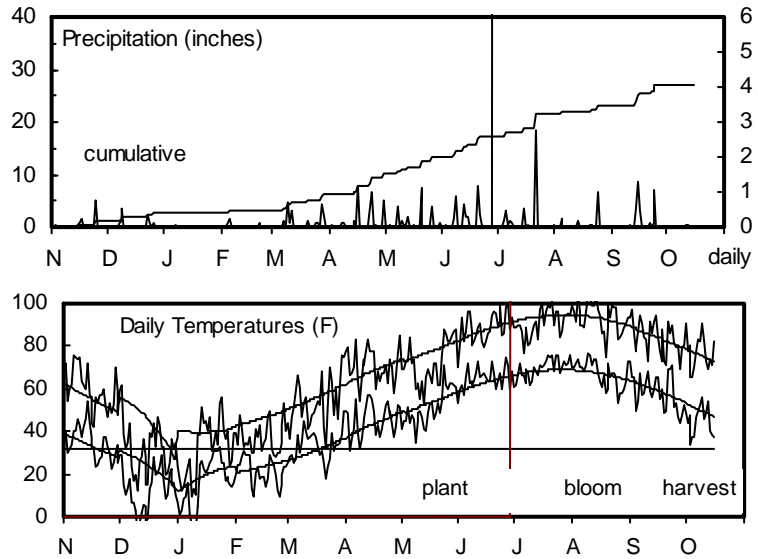


Table 4. Mitchell County Dryland Grain Sorghum Performance Test, 2008-2010

BRAND	NAME	YIELD AS % 2009-2010																
		ACRE YIELD, BUSHELS					OF TEST			Days Grain		Days Grain		Test	Plnt	Pop.		Hds.
		2010	2009	2008	2-Yr. AVG.	3-Yr. AVG.	2010	2009	2008	AVERAGE	to Blm	Moist. %	to Blm	Moist. %	lb/bu	in.	Ldg %	1000.0 ppa
DEKALB	DKS36-06	105	161	--	133	--	109	109	--	--	--	--	12	58	48	--	--	--
DEKALB	DKS37-07	112	157	152	134	140	116	106	104	--	--	--	12	60	46	--	--	--
DEKALB	DKS44-20	98	162	153	130	138	102	110	105	--	--	--	12	57	48	--	--	--
DEKALB	DKS49-45	115	--	--	--	--	119	--	--	--	--	--	12	59	50	--	--	--
DEKALB	DKS53-67	110	175	160	142	148	114	118	109	--	--	--	12	58	50	--	--	--
DEKALB	DKS54-00	94	169	162	132	142	98	114	111	--	--	--	13	57	52	--	--	--
DYNA-GRO	742C	87	132	--	109	--	90	89	--	--	--	--	12	58	44	--	--	--
DYNA-GRO	751B	93	141	146	117	127	96	96	100	--	--	--	12	58	44	--	--	--
DYNA-GRO	764B	99	136	139	117	125	102	92	93	--	--	--	12	58	48	--	--	--
DYNA-GRO	766B	108	145	151	126	135	112	98	103	--	--	--	12	57	42	--	--	--
DYNA-GRO	772B	92	149	150	121	130	95	101	103	--	--	--	12	59	44	--	--	--
DYNA-GRO	778B	45	141	140	93	109	47	95	96	--	--	--	13	56	54	--	--	--
MATURITY CHECK	EARLY	89	133	147	111	123	92	90	101	--	--	--	12	59	42	--	--	--
MATURITY CHECK	LATE	96	139	138	117	124	99	94	94	--	--	--	13	56	48	--	--	--
MATURITY CHECK	MEDIUM	102	129	112	116	114	106	88	77	--	--	--	13	60	48	--	--	--
OHLDE	O-525	99	--	--	--	--	102	--	--	--	--	--	12	59	42	--	--	--
OHLDE	O-530	96	--	--	--	--	99	--	--	--	--	--	12	57	40	--	--	--
OHLDE	O-567	94	146	157	120	132	97	98	107	--	--	--	12	57	42	--	--	--
OHLDE	O-587	113	148	161	131	141	117	100	110	--	--	--	13	59	46	--	--	--
PHILLIPS	595	83	--	--	--	--	85	--	--	--	--	--	12	57	36	--	--	--
PHILLIPS	672	104	147	--	126	--	108	100	--	--	--	--	12	58	46	--	--	--
PHILLIPS	775	71	144	--	107	--	74	97	--	--	--	--	13	58	46	--	--	--
PIONEER	84G62	116	--	--	--	--	120	--	--	--	--	--	12	57	46	--	--	--
PIONEER	84P74	111	177	--	144	--	114	120	--	--	--	--	13	56	46	--	--	--
PIONEER	85G03	116	166	163	141	148	120	112	111	--	--	--	12	60	50	--	--	--
PIONEER	85Y40	113	156	--	135	--	117	106	--	--	--	--	12	56	45	--	--	--
SYNGENTA	5464	102	--	--	--	--	105	--	--	--	--	--	12	58	44	--	--	--
SYNGENTA	5613	106	--	--	--	--	110	--	--	--	--	--	12	59	48	--	--	--
SYNGENTA	H-486	94	--	--	--	--	97	--	--	--	--	--	12	60	44	--	--	--
TRIUMPH	TR 448	95	--	--	--	--	98	--	--	--	--	--	12	59	44	--	--	--
TRIUMPH	TR 452	102	--	--	--	--	106	--	--	--	--	--	12	57	46	--	--	--
TRIUMPH	TRX05361	69	--	--	--	--	71	--	--	--	--	--	12	57	52	--	--	--
TRIUMPH	TRX84732	62	--	--	--	--	64	--	--	--	--	--	13	56	46	--	--	--
AVERAGES		97	148	146	122	130	97	148	146	--	--	--	12	58	46	--	--	--
CV (%)		10	5	6	--	--	10	5	6	--	--	--	0	0	0	--	--	--
LSD (0.05)		16	11	14	--	--	17	8	9	--	--	--	0	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.

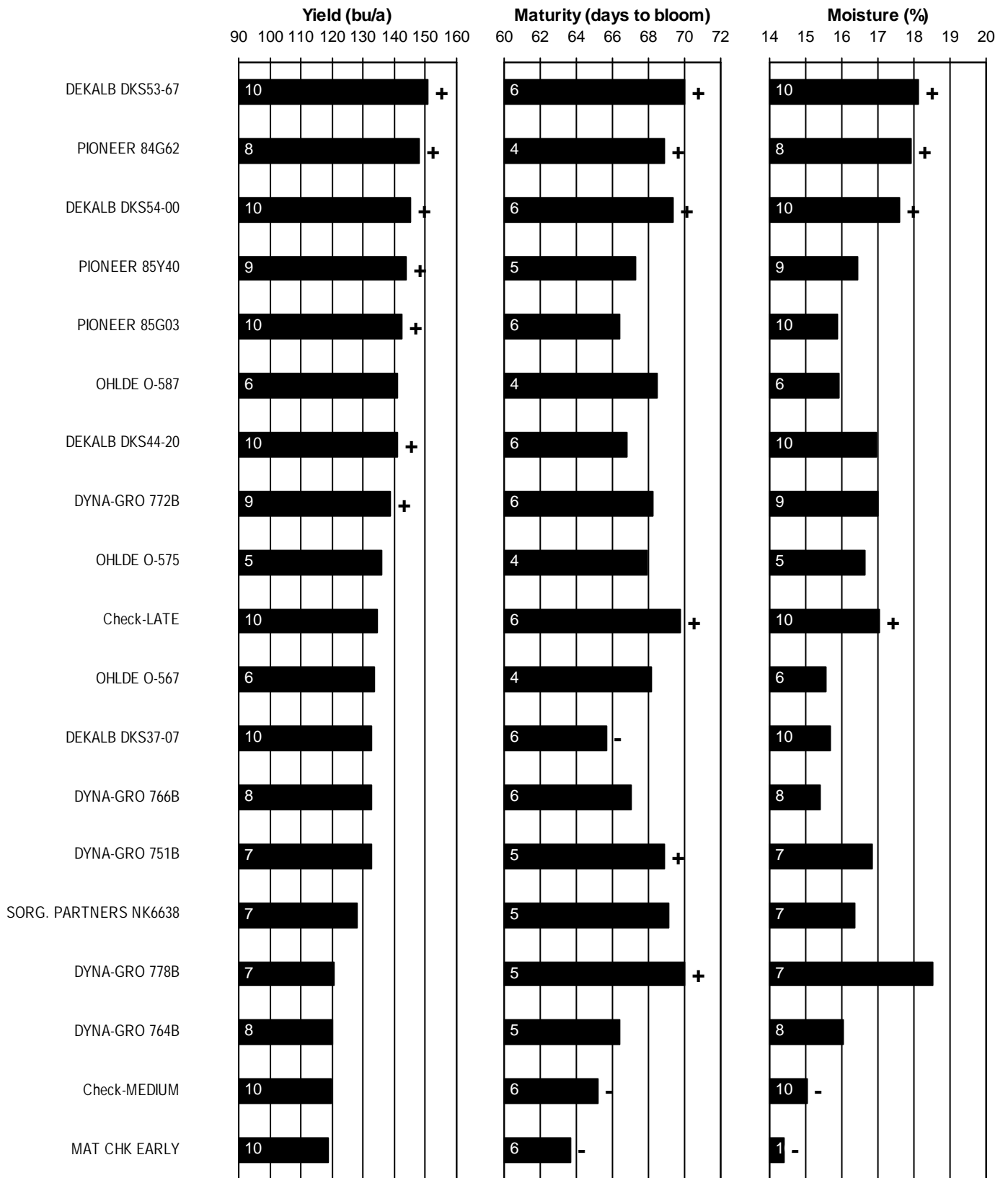
Table 5. NORTHEAST Kansas Grain Sorghum Hybrid Yield Summary (% of test avg.), 2010

BRAND/NAME	RLD	RPD	MTD	AVG.	BRAND/NAME	RLD	RPD	MTD	AVG.
DEKALB					SYNGENTA				
DKS36-06	94	100	109	101	5464	88	95	105	96
DKS37-07	95	95	116	102	5556	--	109	--	--
DKS44-20	106	111	102	106	5613	97	113	110	107
DKS49-45	100	111	119	110	5745	96	101	--	--
DKS53-67	105	115	114	111	H-390W	82	75	--	--
DKS54-00	92	100	98	97	H-486	--	111	97	--
DYNA-GRO					TRIUMPH				
742C	84	81	90	85	TR 438	--	98	--	--
751B	--	88	96	--	TR 452	--	100	106	--
764B	--	100	102	--	TR 458	--	93	--	--
766B	102	114	112	109	TR 463	107	--	--	--
772B	102	110	95	103	TR 481	--	87	--	--
778B	--	83	47	--	TR 448	86	--	98	--
GX08365	99	--	--	--	TRX05361	--	92	71	--
OHLDE					TRX84732				
O-525	--	98	102	--	TRX85002	--	102	--	--
O-530	--	79	99	--	TRX95005	--	107	--	--
O-567	--	95	97	--	MATURITY CHECK				
O-575	--	97	--	--	EARLY	86	75	92	84
O-587	--	96	117	--	LATE	95	107	99	100
PHILLIPS					MEDIUM				
595	--	--	85	--	AVERAGES (bu/a)	100	140	97	112
672	--	--	108	--	CV (%)	10	8	10	--
775	--	--	74	--	LSD (0.05)	13	14	17	--
PIONEER									
84G62	118	115	120	118					
84P74	119	126	114	120					
85G03	114	101	120	111					
85Y40	118	112	117	116					

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 sorghum hybrid standardized performance summary, 2008-2010

SOUTHEAST KANSAS NO-TILL DRYLAND GRAIN SORGHUM TEST

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

Woodson silt loam; Soybean in 2009

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

Planted on 5/5/2010; Harvested on 9/7/2010

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

Wet spring conditions affected emergence and development.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	7.5	6.4	36	37		
April	4.8	2.9	60	56	752	634
May	4.6	4.1	66	65	941	953
June	6.4	4.9	79	74	1259	1186
July	5.5	4.0	81	80	1352	1401
August	2.1	3.2	81	79	1297	1362
Sept.	5.9	4.0	71	71	1054	1062
Oct.	1.6	1.2	61	62	390	416
Totals:	38.3	30.8	57	56	7,045	7,014

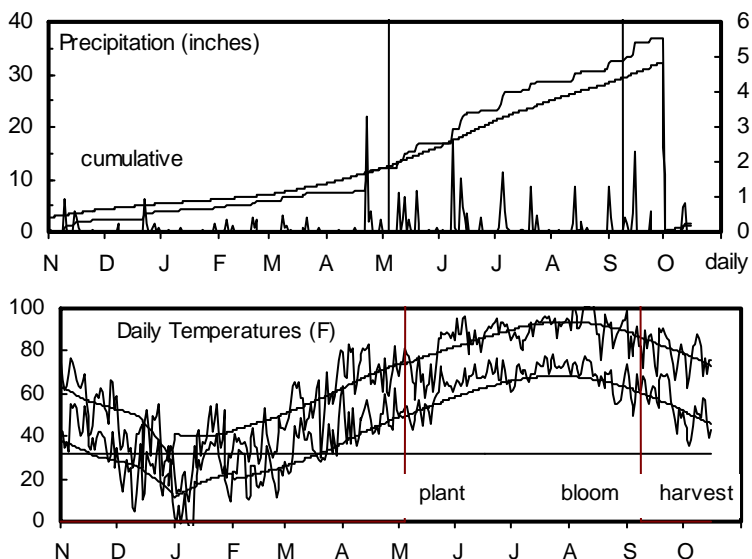


Table 6. Franklin County Dryland Grain Sorghum Performance Test, 2008-2010

BRAND	NAME	ACRE YIELD, BUSHEL		YIELD AS %		2009-2010												
		2009	2008	2-Yr. 3-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.	AVG.	2009	2008										AVERAGE	AVERAGE
DEKALB	DKS36-06	50	99	--	75	--	88	101	--	--	17	--	16	58	62	44	23.2	1.4
DEKALB	DKS37-07	55	98	84	77	79	96	100	96	--	21	--	20	58	55	23	18.0	1.8
DEKALB	DKS44-20	69	90	82	80	80	120	92	94	--	18	--	16	60	60	29	22.9	1.5
DEKALB	DKS49-45	52	--	--	--	--	91	--	--	--	--	--	19	59	62	20	28.1	1.3
DEKALB	DKS53-67	50	85	94	67	76	86	86	107	--	24	--	23	58	58	13	22.4	1.8
DEKALB	DKS54-00	63	87	87	75	79	110	89	100	--	24	--	19	58	58	8	29.0	1.5
DEKALB	DKS54-03	56	100	93	78	83	97	102	107	--	23	--	20	57	55	18	25.6	1.4
MATURITY CHECK	EARLY	49	89	85	69	74	84	91	98	--	18	--	17	59	63	43	23.6	1.5
MATURITY CHECK	LATE	62	128	79	95	90	107	131	91	--	23	--	23	58	63	10	16.8	1.5
MATURITY CHECK	MEDIUM	59	109	78	84	82	102	111	89	--	20	--	19	58	56	48	31.3	1.4
MIDLAND	M-4595	43	--	--	--	--	75	--	--	--	--	--	16	58	48	35	20.9	1.5
MIDLAND	M-4665	63	88	--	75	--	109	89	--	--	20	--	16	57	60	11	23.5	1.6
MIDLAND	M-4748	48	96	--	72	--	84	98	--	--	19	--	18	59	63	56	22.4	1.3
MIDLAND	M-4765	71	111	--	91	--	123	113	--	--	23	--	21	59	61	8	18.9	1.5
MIDLAND	M-4772	59	88	--	73	--	102	89	--	--	24	--	20	57	60	45	25.2	1.5
MIDLAND	M-4790	40	78	--	59	--	69	79	--	--	29	--	26	57	64	8	19.7	1.5
PIONEER	84G62	55	108	101	81	88	95	110	115	--	22	--	20	59	54	51	20.2	1.7
PIONEER	84P74	69	103	--	86	--	120	105	--	--	27	--	24	57	61	11	17.7	1.7
PIONEER	85G03	54	101	90	77	82	94	102	103	--	21	--	17	58	58	40	26.7	1.6
PIONEER	85Y40	55	109	110	82	91	96	111	126	--	22	--	20	59	60	50	20.9	1.7
SYNGENTA	5464	59	--	--	--	--	102	--	--	--	--	--	20	57	61	30	15.1	1.4
SYNGENTA	5745	59	--	--	--	--	103	--	--	--	--	--	16	59	56	16	27.6	1.6
SYNGENTA	H-390W	60	--	--	--	--	104	--	--	--	--	--	19	58	48	25	15.0	1.6
TRIUMPH	TR 458	55	--	--	--	--	95	--	--	--	--	--	23	56	60	18	20.8	1.5
TRIUMPH	TR 463	85	--	--	--	--	148	--	--	--	--	--	22	57	62	6	25.0	1.3
	AVAGES	58	98	87	78	81	58	98	87	--	22	--	20	58	59	27	22.4	1.5
	CV (%)	10	6	9	--	--	10	6	9	--	--	--	12	1	0	--	18	14
	LSD (0.05)	8	8	11	--	--	14	8	12	--	--	--	3	1	0	28	6	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.

SOUTHEAST KANSAS DRYLAND GRAIN SORGHUM TEST

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

Osage silty clay; Soybean in 2009

140 - 20 - 0 lb/a N, P, K

Planted on 5/4/2010; Harvested on 8/31/2010

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

Flooding in June followed by a wet July delayed the development of the crop.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.-Mar.	6.4	6.0	34	35		
April	4.6	2.7	59	54	717	563
May	5.7	4.5	64	65	890	909
June	4.6	5.1	77	74	1225	1147
July	7.0	3.9	80	79	1329	1358
August	2.1	3.5	80	77	1291	1315
Sept.	5.6	3.8	70	70	1034	1027
Oct.	1.1	1.6	61	61	383	387
Totals:	37.0	31.1	55	54	6,869	6,705

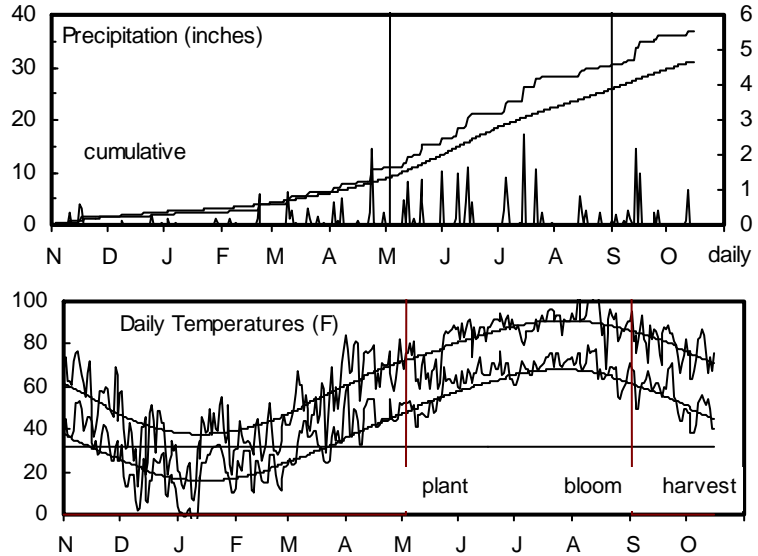


Table 7. Chase County Dryland Grain Sorghum Performance Test, 2008-2010

BRAND	NAME	YIELD AS % 2009-2010																
		ACRE YIELD, BUSHELS					OF TEST			Days Grain			Plnt	Pop.	Hds.			
		2010	2009	2008	2-Yr. AVG.	3-Yr. AVG.	2010	2009	2008	AVERAGE	Blm	to Moist. %				Days	Grain	Test
MATURITY CHECK	EARLY	78	61	50	70	63	84	88	97	69	14	65	13	57	46	10	55.2	1.2
DEKALB	DKS36-06	108	64	--	86	--	116	93	--	70	16	68	14	58	55	8	57.1	1.1
DEKALB	DKS37-07	83	69	54	76	69	89	99	104	70	15	68	13	59	52	7	61.0	1.0
SYNGENTA	5556	88	--	--	--	--	94	--	--	--	--	68	13	58	52	9	55.2	1.0
MATURITY CHECK	MEDIUM	108	65	29	86	67	116	94	55	71	17	69	13	58	54	9	60.1	1.2
DEKALB	DKS44-20	86	67	63	77	72	92	97	121	72	17	71	13	59	54	12	61.1	1.1
SYNGENTA	H-390W	84	--	--	--	--	90	--	--	--	--	71	13	58	46	15	46.4	1.2
SYNGENTA	H-486	110	--	--	--	--	118	--	--	--	--	71	13	58	53	11	61.1	1.1
DEKALB	DKS49-45	98	--	--	--	--	105	--	--	--	--	72	14	59	56	6	57.1	1.1
DEKALB	DKS53-67	84	65	57	75	69	90	94	109	73	18	72	15	59	52	21	48.5	1.3
DEKALB	DKS54-00	94	73	72	84	80	101	106	139	73	17	72	14	58	58	10	50.7	1.2
SYNGENTA	5464	90	--	--	--	--	97	--	--	--	--	72	14	57	53	27	47.0	1.2
DEKALB	DKS54-03	109	67	55	88	77	116	97	106	73	17	73	13	56	53	11	51.7	1.2
MATURITY CHECK	LATE	87	64	27	76	59	93	93	52	73	18	73	15	57	55	11	53.1	1.2
	AVERAGES	93	69	52	81	71	93	69	52	72	17	70	14	58	53	12	54.7	1.1
	CV (%)	9	7	9	--	--	9	7	9	--	--	1	10	2	2	--	9	7
	LSD (0.05)	12	7	7	--	--	13	10	13	--	--	1	2	1	1	13	11	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.

SOUTHEAST KANSAS DRYLAND GRAIN SORGHUM TEST

Southeast Agricultural Research Center, Parsons; Kelly Kusel, technician

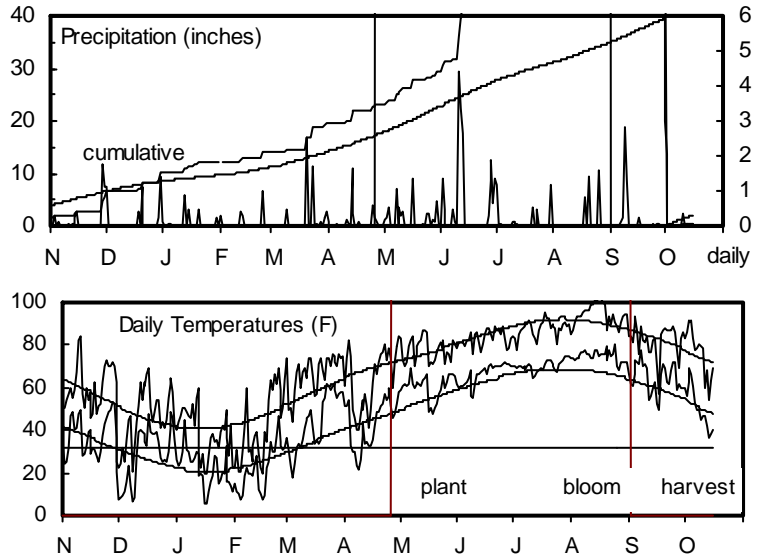
Parsons silt loam; Soybean in 2009

100 - 46 - 60 lb/a N, P, K

Planted on 4/27/2010; Harvested on 8/31/2010

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

Standing water 3 weeks after planting thinned stands.



Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	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	1197	1178
July	3.7	3.6	79	80	1325	1385
August	3.9	3.8	84	79	1404	1345
Sept.	4.9	4.5	74	71	1144	1075
Oct.	0.4	1.9	64	63	424	421
Totals:	59.3	37.5	59	57	7,141	7,022

Table 8. Labette County Dryland Grain Sorghum Performance Test, 2008-2010

BRAND	NAME	YIELD AS % 2009-2010											Pop. 1000 ppa	Hds. per Plnt				
		ACRE YIELD, BUSHELS					OF TEST AVERAGE			Days Grain to Moist.					Plnt Ht. in.	Ldg %		
		2010	2009	2008	2-Yr. AVG.	3-Yr. AVG.	2010	2009	2008	Blm	%	Blm					%	lb/bu
MATURITY CHECK	EARLY	124	102	136	113	121	88	78	115	67	15	69	12	55	53	--	48.9	1.5
DEKALB	DKS36-06	141	117	--	129		100	90	--	68	16	73	13	59	60	--	52.4	1.2
DEKALB	DKS37-07	133	116	117	125	122	94	89	99	68	16	73	13	58	58	--	51.8	1.1
MATURITY CHECK	MEDIUM	151	110	83	131	115	107	84	70	69	16	73	13	58	60	--	51.7	1.3
DEKALB	DKS44-20	150	109	129	129	129	106	83	109	70	16	74	14	59	58	--	50.8	1.2
SYNGENTA	5556	127	--	--	--	--	90	--	--	--	--	74	13	57	55	--	48.1	1.2
TRIUMPH	TR 452	121	--	--	--	--	85	--	--	--	--	74	13	58	55	--	46.8	1.2
SYNGENTA	H-486	131	--	--	--	--	93	--	--	--	--	75	13	57	55	--	55.7	1.0
DEKALB	DKS49-45	142	--	--	--	--	100	--	--	--	--	77	14	59	62	--	48.6	1.3
DEKALB	DKS53-67	148	155	139	152	147	105	119	118	73	16	77	14	60	60	--	45.2	1.4
DEKALB	DKS54-00	151	151	136	151	146	107	115	115	74	16	77	14	58	63	--	42.7	1.4
DEKALB	DKS54-03	148	142	129	145	140	104	109	109	74	16	78	13	55	61	--	50.4	1.2
MATURITY CHECK	LATE	153	131	104	142	129	108	100	88	74	17	78	14	58	64	--	40.3	1.4
SYNGENTA	5464	146	--	--	--	--	103	--	--	--	--	78	14	57	60	--	38.4	1.3
TRIUMPH	TR 481	157	--	--	--	--	111	--	--	--	--	79	15	59	64	--	52.5	1.1
	AVERAGES	141	131	118	136	130	141	131	118	--	--	75	14	58	59	--	48.3	1.3
	CV (%)	5	7	7	--	--	5	7	7	--	--	1	2	1	2	--	6	8
	LSD (0.05)	10	14	13	--	--	7	10	11	--	--	1	0	1	1	--	4	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.

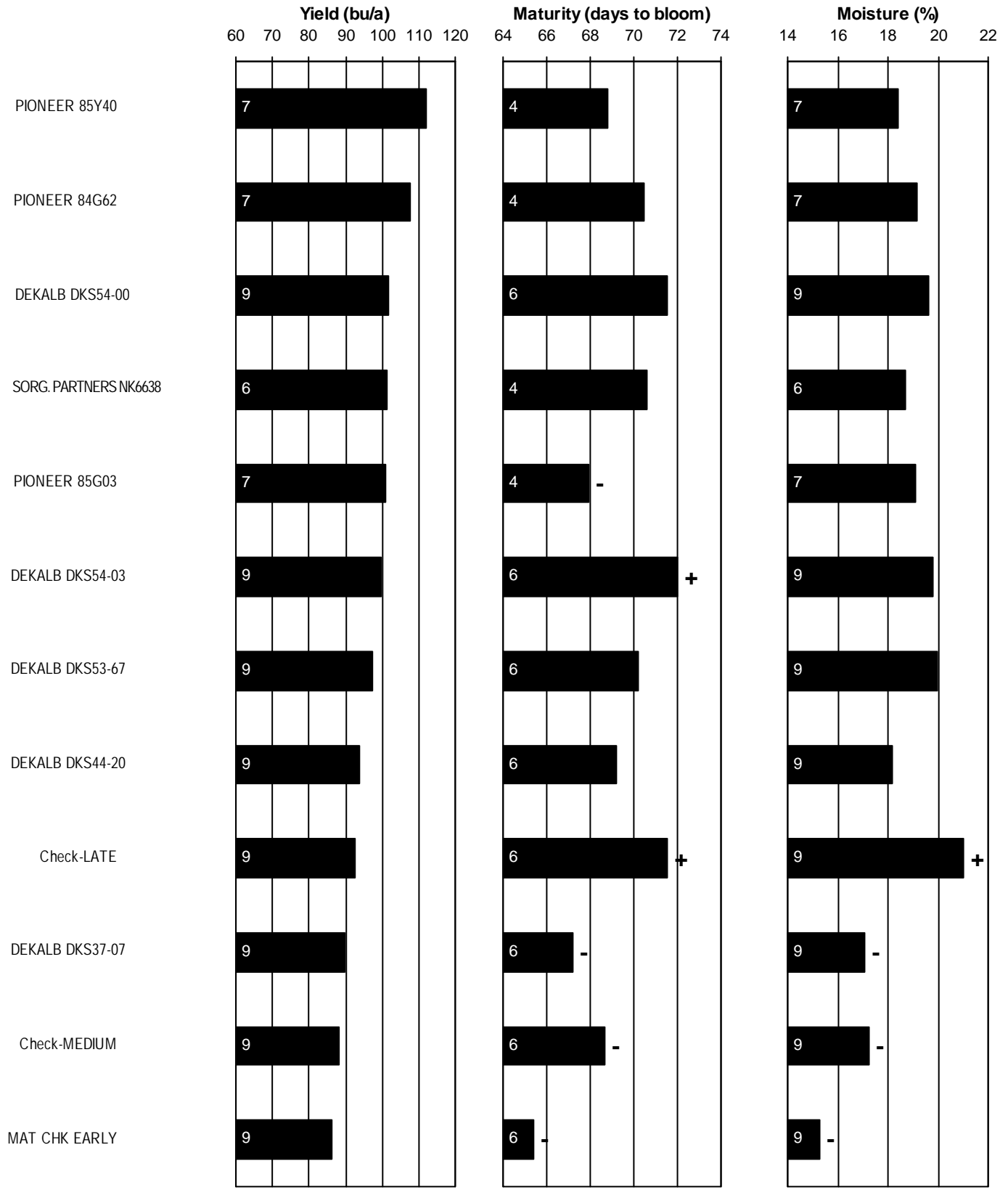
Table 9. SOUTHEAST Kansas Grain Sorghum Hybrid Yield Summary (% of test avg.), 2010

BRAND/NAME	FRD	CHD	LBD	AVG.	BRAND/NAME	FRD	CHD	LBD	AVG.
DEKALB					SYNGENTA				
DKS36-06	88	116	100	101	5464	102	97	103	100
DKS37-07	96	89	94	93	5556	--	94	90	--
DKS44-20	120	92	106	106	5745	103	--	--	--
DKS49-45	91	105	100	99	H-390W	104	90	--	--
DKS53-67	86	90	105	94	H-486	--	118	93	--
DKS54-00	110	101	107	106	TRIUMPH				
DKS54-03	97	116	104	106	TR 452	--	--	85	--
MIDLAND					TR 458	95	--	--	--
M-4595	75	--	--	--	TR 463	148	--	--	--
M-4665	109	--	--	--	TR 481	--	--	111	--
M-4748	84	--	--	--	MATURITY CHECK				
M-4765	123	--	--	--	EARLY	84	84	88	85
M-4772	102	--	--	--	LATE	107	93	108	103
M-4790	69	--	--	--	MEDIUM	102	116	107	108
PIONEER					AVERAGES (bu/a)	58	93	141	97
84G62	95	--	--	--	CV(%)	10	9	5	--
84P74	120	--	--	--	LSD (0.05)	14	12	7	--
85G03	94	--	--	--					
85Y40	96	--	--	--					

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 sorghum hybrid standardized performance summary, 2008-2010

CENTRAL KANSAS DRYLAND GRAIN SORGHUM TEST

Clayton Short farm, Assaria; Jane Lingenfelter, agronomist

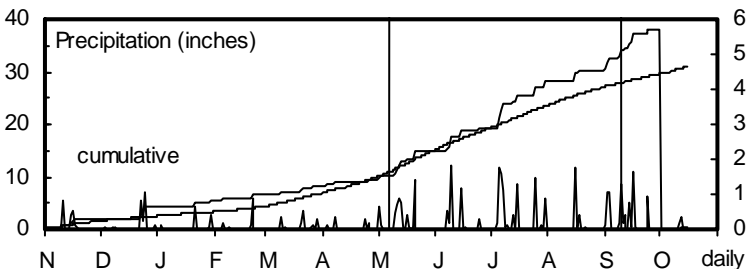
Hord silt loam; Soybean in 2009

90 - 35 - 0 lb/a N, P, K

Planted on 5/7/2010; Harvested on 9/8/2010

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

Conditions were generally good until mid-August when a two-week period of extreme heat stressed the test.



Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	8.4	6.9	36	37		
April	1.0	3.0	61	55	772	593
May	5.6	5.1	65	65	935	923
June	4.2	4.2	79	75	1264	1211
July	9.0	4.3	80	81	1347	1431
August	2.2	3.5	81	80	1309	1394
Sept.	7.7	2.5	71	71	1069	1072
Oct.	0.5	1.3	60	62	382	407
Totals:	38.6	30.9	57	56	7,078	7,031

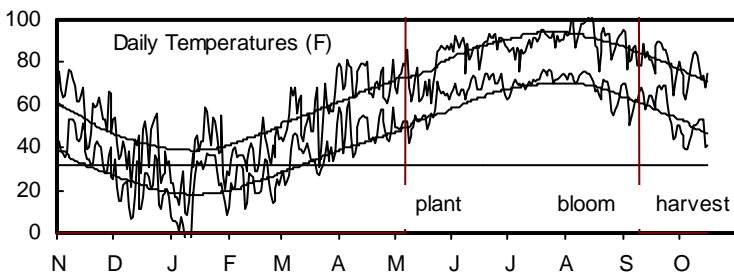


Table 10. Saline County Dryland Grain Sorghum Performance Test, 2008-2010

BRAND	NAME	YIELD AS % 2009-2010																	
		ACRE YIELD, BUSHELS					OF TEST			Days Grain Test						Plnt Ht.	Ldg %	Pop. 1000 ppa	Hds. per Plnt
		2010	2009	2008	2-Yr. AVG.	3-Yr. AVG.	2010	2009	2008	Average	Days to Blm	Grain to Moist. %	Days to Blm	Grain to Moist. %	Test Wt. lb/bu				
CHANNEL	6B10	82	--	--	--	--	95	--	--	--	--	--	21	54	--	6	44.4	1.2	
CHANNEL	7B11	98	--	--	--	--	114	--	--	--	--	--	16	59	--	0	46.8	1.3	
DEKALB	DKS36-06	79	152	--	115	--	92	107	--	--	22	--	26	53	--	17	48.5	1.3	
DEKALB	DKS37-07	66	152	133	109	117	77	107	98	--	20	--	24	53	--	10	58.0	1.1	
DEKALB	DKS44-20	97	162	153	130	137	113	114	114	--	18	--	17	57	--	3	57.7	1.1	
DEKALB	DKS49-45	82	--	--	--	--	95	--	--	--	--	--	24	54	--	18	56.0	1.1	
DEKALB	DKS53-67	95	168	153	132	139	111	118	113	--	22	--	23	55	--	18	42.1	1.4	
DEKALB	DKS54-00	93	151	147	122	130	108	106	109	--	20	--	22	55	--	9	47.0	1.2	
DEKALB	DKS54-03	86	--	--	--	--	100	--	--	--	--	--	20	53	--	10	48.7	1.1	
DYNA-GRO	742C	81	124	--	103	--	94	87	--	--	16	--	17	54	--	9	52.8	1.1	
DYNA-GRO	751B	79	159	138	119	125	92	111	102	--	18	--	19	57	--	3	53.1	1.1	
DYNA-GRO	764B	93	151	138	122	127	108	106	103	--	17	--	17	55	--	4	43.2	1.4	
DYNA-GRO	766B	77	149	142	113	123	90	105	105	--	18	--	19	56	--	20	52.0	1.1	
DYNA-GRO	772B	74	145	152	110	124	86	102	113	--	23	--	28	51	--	35	43.6	1.3	
DYNA-GRO	778B	77	156	127	116	120	90	109	94	--	22	--	24	57	--	3	35.6	1.3	
MATURITY CHECK	EARLY	75	113	143	94	110	87	80	106	--	16	--	17	53	--	0	50.2	1.2	
MATURITY CHECK	LATE	90	140	122	115	117	105	98	90	--	19	--	21	55	--	1	47.3	1.2	
MATURITY CHECK	MEDIUM	92	134	115	113	114	107	94	85	--	21	--	26	53	--	18	47.0	1.4	
PHILLIPS	670	76	--	--	--	--	88	--	--	--	--	--	14	57	--	0	39.5	1.5	
PHILLIPS	672	68	152	--	110	--	79	106	--	--	20	--	23	54	--	27	50.2	1.3	
PHILLIPS	775	89	154	--	121	--	103	108	--	--	21	--	25	52	--	18	47.0	1.1	
PIONEER	84G62	94	161	160	127	138	109	113	118	--	19	--	17	57	--	7	51.1	1.1	
PIONEER	84P74	100	173	--	137	--	117	121	--	--	24	--	26	54	--	9	48.4	1.2	
PIONEER	85G03	99	157	151	128	136	115	110	112	--	21	--	24	54	--	6	49.3	1.4	
PIONEER	85Y40	97	171	156	134	141	113	120	115	--	19	--	18	57	--	3	53.4	1.2	
PRODUCERS	PH256	89	--	--	--	--	104	--	--	--	--	--	18	57	--	0	38.3	1.6	
SYNGENTA	5464	87	--	--	--	--	102	--	--	--	--	--	27	52	--	21	47.9	1.3	
SYNGENTA	H-390W	83	--	--	--	--	97	--	--	--	--	--	17	54	--	1	49.6	1.2	
SYNGENTA	H-486	89	--	--	--	--	104	--	--	--	--	--	17	55	--	0	58.1	1.0	
TRIUMPH	TR 438	84	--	--	--	--	97	--	--	--	--	--	17	54	--	1	51.7	1.2	
TRIUMPH	TR 452	80	142	130	111	117	93	100	96	--	18	--	19	55	--	0	49.9	1.0	
TRIUMPH	TRX05361	74	--	--	--	--	86	--	--	--	--	--	20	56	--	1	42.6	1.1	
TRIUMPH	TRX85002	98	139	--	119	--	113	98	--	--	21	--	19	58	--	0	42.5	1.1	
TRIUMPH	TRX95005	102	153	--	128	--	118	108	--	--	18	--	17	56	--	1	40.3	1.6	

Table 10 continued. Saline County Dryland Grain Sorghum Performance Test, 2008-2010

BRAND	NAME	ACRE YIELD, BUSHELS					YIELD AS %			2009-2010								
		2-Yr.		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 Pint
		2010	2009	2008	2009		2008	2010	2009									
	AVERAGES	86	143	135	114	121	86	143	135	--	20	--	21	55	--	8	48.1	1.2
	CV (%)	7	6	5	--	--	7	6	5	--	--	--	14	3	--	--	5	6
	LSD (0.05)	9	11	9	--	--	10	8	7	--	--	--	4	2	--	0	3	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.

CENTRAL KANSAS NO-TILL DRYLAND GRAIN SORGHUM TEST

South Central Kansas Experiment Field, Hutchinson; William Heer, agronomist

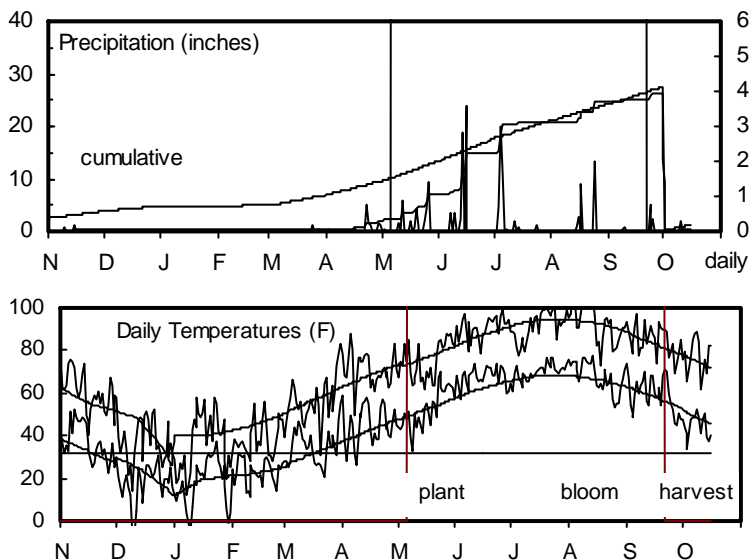
Ost loam; Soybean in 2009

120 - 40 - 0 lb/a N, P, K

Planted on 5/6/2010; Harvested on 9/20/2010

Target stand of 40,000 plants/acre; 5.2 in. spacing

Wet soils after planting affected emergence and stands; very hot and dry during the summer until harvest.



Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.-Mar.	0.5	4.4	36	37		
April	1.6	2.6	58	55	703	617
May	4.8	3.8	64	65	894	927
June	7.8	4.3	79	75	1246	1196
July	6.1	3.5	81	81	1319	1416
August	3.9	3.1	80	79	1284	1361
Sept.	1.3	3.3	72	70	1063	1053
Oct.	0.3	1.1	60	62	376	407
Totals:	26.4	26.1	56	56	6,885	6,977

Table 11. Reno County Dryland Grain Sorghum Performance Test, 2008-2010

BRAND	NAME	YIELD AS % 2009-2010																		
		ACRE YIELD, BUSHELS					OF TEST			Days Grain		Days Grain		Test		Plnt		Pop.		Hds.
		2010	2009	2008	2-Yr. AVG.	3-Yr. AVG.	2010	2009	2008	Blm	to Moist. %	Blm	to Moist. %	lb/bu	Ht. in.	Ldg %	1000 ppa	per Plnt		
DEKALB	DKS36-06	77	79	--	78	--	101	75	--	67	15	71	14	56	56	48	30.2	1.4		
MATURITY CHECK	EARLY	73	69	116	71	86	95	66	103	66	15	71	15	55	49	13	37.5	1.4		
DEKALB	DKS37-07	83	111	108	97	101	108	107	96	67	15	73	14	57	53	46	42.4	1.1		
MATURITY CHECK	MEDIUM	94	96	86	95	92	122	92	77	68	14	73	14	56	52	17	38.6	1.4		
MIDLAND	M-4595	49	--	--	--	--	64	--	--	--	--	73	12	54	42	41	38.9	1.2		
PRODUCERS	PH266	80	--	--	--	--	104	--	--	--	--	73	13	57	52	26	31.8	1.3		
SYNGENTA	H-390W	65	--	--	--	--	85	--	--	--	--	73	13	54	47	63	33.1	1.4		
SYNGENTA	5745	69	--	--	--	--	89	--	--	--	--	74	14	56	53	8	45.9	1.2		
SYNGENTA	H-486	76	--	--	--	--	99	--	--	--	--	74	14	56	50	26	45.8	1.0		
DEKALB	DKS53-67	102	122	148	112	124	132	117	131	69	15	75	14	58	52	14	29.5	1.7		
MIDLAND	M-4665	71	81	--	76	--	93	78	--	69	14	75	13	55	47	51	37.8	1.2		
PRODUCERS	PH246W	71	--	--	--	--	92	--	--	--	--	75	13	55	50	15	32.5	1.1		
DEKALB	DKS49-45	74	--	--	--	--	96	--	--	--	--	76	14	57	54	30	40.2	1.2		
MIDLAND	M-4748	78	90	106	84	91	102	87	94	69	14	76	14	56	54	26	31.8	1.3		
TRIUMPH	TRX95005	63	--	--	--	--	82	--	--	--	--	76	14	55	52	51	37.3	1.3		
DEKALB	DKS44-20	80	110	127	95	106	104	105	113	70	16	77	15	55	50	30	43.8	1.2		
DEKALB	DKS54-03	97	--	--	--	--	126	--	--	--	--	77	14	56	56	2	36.2	1.1		
MIDLAND	M-4790	84	125	--	104	--	109	119	--	71	15	77	15	58	65	3	34.7	1.2		
PRODUCERS	PH256	56	--	--	--	--	73	--	--	--	--	77	14	55	52	50	33.5	1.4		
MATURITY CHECK	LATE	88	114	108	101	103	114	109	96	71	14	78	14	57	56	25	28.8	1.5		
MIDLAND	M-4772	87	126	115	106	109	113	120	103	71	15	78	14	57	56	12	38.0	1.1		
SYNGENTA	5464	85	--	--	--	--	111	--	--	--	--	78	15	57	53	13	37.6	1.1		
TRIUMPH	TRX85002	60	109	--	84	--	78	104	--	73	16	78	16	55	59	15	46.6	1.1		
DEKALB	DKS54-00	87	126	140	106	118	114	120	124	72	14	79	14	57	58	19	37.1	1.2		
PRODUCERS	PH276	85	--	--	--	--	111	--	--	--	--	79	15	56	59	18	32.5	1.2		
MIDLAND	M-4765	66	98	--	82	--	86	93	--	71	15	80	14	57	50	24	34.7	1.1		
	AVERAGES	77	105	113	91	98	77	105	113	70	15	75	14	56	53	26	36.8	1.2		
	CV (%)	10	9	8	--	--	10	9	8	--	--	5	8	3	2	--	9	10		
	LSD (0.05)	10	13	13	--	--	14	12	11	--	--	5	2	3	1	26	5	0		

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

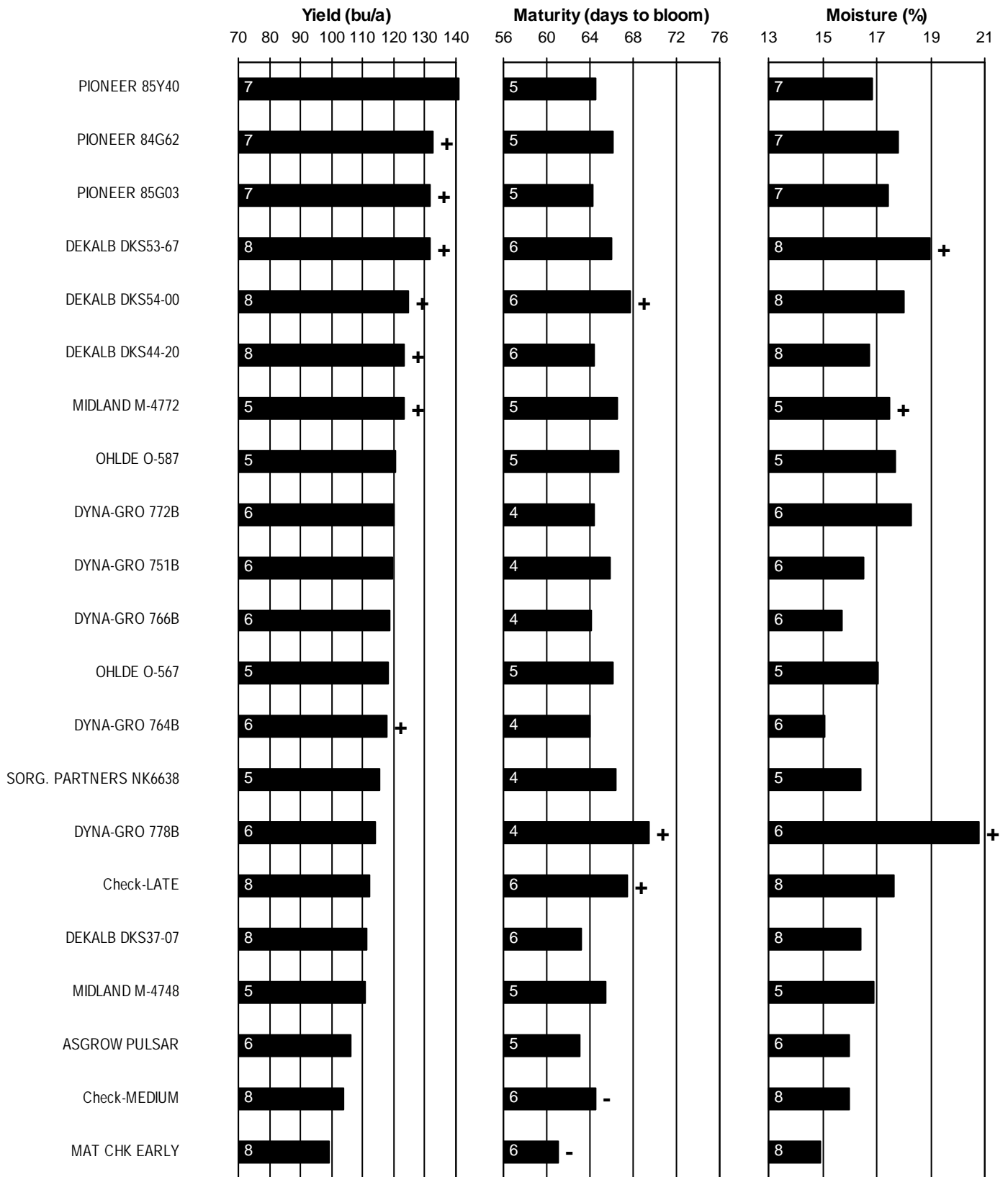
Top LSD group in bold.

Table 12. CENTRAL Kansas Sorghum Hybrid Yield Summary (% of test avg.), 2010

BRAND/NAME	SAD	RND	AVG.	BRAND/NAME	SAD	RND	AVG.
CHANNEL				SYNGENTA			
6B10	95	--	--	5464	102	111	106
7B11	114	--	--	5745	--	89	--
DEKALB				TRIUMPH			
DKS36-06	92	101	96	H-390W	97	85	91
DKS37-07	77	108	92	H-486	104	99	101
DKS44-20	113	104	108	TR 438	97	--	--
DKS49-45	95	96	96	TR 452	93	--	--
DKS53-67	111	132	121	TRX05361	86	--	--
DKS54-00	108	114	111	TRX85002	113	78	96
DKS54-03	100	126	113	TRX95005	118	82	100
DYNA-GRO				MATURITY CHECK			
742C	94	--	--	EARLY	87	95	91
751B	92	--	--	LATE	105	114	110
764B	108	--	--	MEDIUM	107	122	115
766B	90	--	--	AVERAGES (bu/a)	86	77	81
772B	86	--	--	CV (%)	7	10	--
778B	90	--	--	LSD (0.05)	10	14	--
MIDLAND							
M-4595	--	64	--				
M-4665	--	93	--				
M-4748	--	102	--				
M-4765	--	86	--				
M-4772	--	113	--				
M-4790	--	109	--				
PHILLIPS							
670	88	--	--				
672	79	--	--				
775	103	--	--				
PIONEER							
84G62	109	--	--				
84P74	117	--	--				
85G03	115	--	--				
85Y40	113	--	--				
PRODUCERS							
PH246W	--	92	--				
PH256	104	73	88				
PH266	--	104	--				
PH276	--	111	--				

SAD = Saline Co., Assaria

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 sorghum hybrid standardized performance summary, 2008-2010

WEST KANSAS FALLOW GRAIN SORGHUM TEST

Agricultural Research Center, Hays; Wayne Aschwege, technician

Harney silt loam; Fallow in 2009

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

Planted on 6/3/2010; Harvested on 10/14/2010

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

Hot and dry from mid-August throughout the rest of the growing season.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	3.0	3.5	34	33		
April	2.5	1.8	56	50	645	478
May	1.8	3.1	61	61	796	833
June	4.1	3.8	77	71	1173	1109
July	1.6	3.4	80	78	1285	1344
August	3.3	2.8	79	76	1242	1286
Sept.	2.2	2.3	69	68	1010	984
Oct.	0.1	0.7	60	58	374	358
Totals:	18.4	21.3	54	52	6,524	6,392

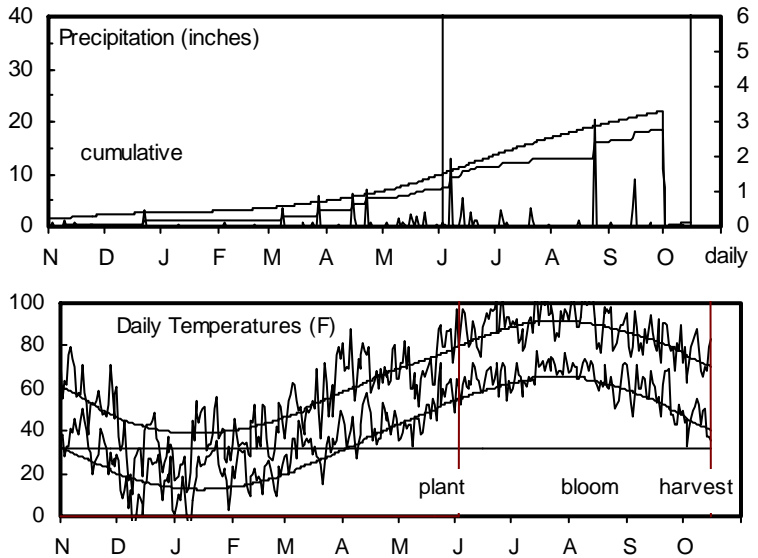


Table 13. Ellis County Fallow Grain Sorghum Performance Test, 2008-2010

BRAND	NAME	YIELD AS % 2009-2010											Pop. 1000 ppa	Hds. per Plnt				
		ACRE YIELD, BUSHELS				OF TEST AVERAGE			Days Grain to Moist.		Days Grain to Moist.				Plnt Ht. in.	Ldg %		
		2010	2009	2008	2-Yr. AVG.	2010	2009	2008	Blm	%	Blm	%						
DEKALB	DKS28-05	95	129	--	112	--	89	94	--	59	9	56	10	57	45	--	33.3	1.5
DEKALB	DKS29-28	92	114	90	103	99	86	83	76	62	11	57	11	57	39	--	35.1	1.3
MATURITY CHECK	EARLY	89	121	116	105	109	84	88	97	63	11	57	10	57	45	--	32.8	1.5
PHILLIPS	595	95	--	--	--	--	89	--	--	--	--	60	11	58	39	--	31.8	1.5
DEKALB	DKS37-07	89	136	111	113	112	84	99	94	65	14	61	12	60	46	--	34.3	1.3
SYNGENTA	H-307	105	--	--	--	--	99	--	--	--	--	61	11	57	48	--	33.4	1.5
ASGROW	PULSAR	92	125	103	109	107	87	91	87	66	12	62	11	60	41	--	32.0	1.6
DEKALB	DKS36-06	103	143	--	123	--	97	104	--	66	14	62	12	61	48	--	32.9	1.3
OHLDE	O-530	103	142	112	123	119	97	103	94	67	13	62	12	62	44	--	32.7	1.2
PRODUCERS	PH256	101	138	--	120	--	94	100	--	69	14	62	13	59	46	--	31.8	1.5
TRIUMPH	TR 448	97	--	--	--	--	91	--	--	--	--	62	13	62	43	--	31.3	1.2
DEKALB	DKS44-20	121	156	123	139	133	113	113	104	68	13	63	12	62	47	--	34.8	1.3
DYNA-GRO	742C	100	146	--	123	--	94	106	--	68	13	63	12	60	40	--	31.2	1.4
OHLDE	O-525	108	141	124	125	124	102	103	104	67	12	63	11	60	43	--	34.6	1.2
PRODUCERS	PH246W	101	131	--	116	--	95	95	--	66	11	63	10	59	44	--	30.9	1.3
SYNGENTA	H-390W	104	--	--	--	--	98	--	--	--	--	63	12	60	41	--	32.0	1.4
TRIUMPH	TR 452	101	--	--	--	--	94	--	--	--	--	63	13	61	46	--	32.3	1.2
MATURITY CHECK	MEDIUM	112	126	112	119	117	105	92	94	68	15	64	14	59	46	--	34.2	1.5
PHILLIPS	672	107	128	--	118	--	100	93	--	68	13	64	12	60	45	--	34.3	1.2
PIONEER	85G03	111	156	--	134	--	104	113	--	69	16	64	14	58	47	--	34.5	1.5
PIONEER	85Y40	133	148	150	141	144	125	107	126	68	13	64	12	61	50	--	34.9	1.4
CHANNEL	6B10	122	160	--	141	--	114	116	--	69	12	65	12	62	43	--	33.4	1.3
DYNA-GRO	764B	115	149	118	132	127	108	108	99	69	13	65	12	61	44	--	34.3	1.5
DYNA-GRO	766B	95	130	126	113	117	90	95	106	68	13	65	12	60	45	--	30.1	1.3
TRIUMPH	TR 458	108	--	--	--	--	102	--	--	--	--	65	14	58	45	--	32.7	1.5
DYNA-GRO	751B	102	--	--	--	--	95	--	--	--	--	66	12	60	43	--	33.0	1.4
OHLDE	O-587	108	136	--	122	--	101	99	--	71	13	66	12	60	44	--	30.8	1.4
PIONEER	84P74	127	--	--	--	--	119	--	--	--	--	66	13	60	48	--	33.4	1.4
SYNGENTA	5556	103	--	--	--	--	97	--	--	--	--	66	12	60	44	--	31.9	1.5
CHANNEL	7B11	112	143	--	128	--	106	104	--	72	14	67	13	62	48	--	29.8	1.5
OHLDE	O-567	116	157	136	137	136	109	114	115	71	13	67	12	61	44	--	33.9	1.2
PRODUCERS	PH266	109	152	--	131	--	102	110	--	72	14	67	13	61	44	--	32.8	1.3
SYNGENTA	5464	100	--	--	--	--	94	--	--	--	--	67	14	59	44	--	29.4	1.3
DYNA-GRO	772B	107	150	125	129	127	101	109	106	71	14	68	13	61	45	--	32.8	1.1
PIONEER	84G62	115	--	--	--	--	108	--	--	--	--	68	12	61	44	--	32.4	1.3

Table 13 continued. Ellis County Fallow Grain Sorghum Performance Test, 2008-2010

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS %			2009-2010									
		2-Yr.		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	
		2010	2009	2008	AVG.		2010	2009	2008										
DYNA-GRO	778B	104	--	--	--	--	98	--	--	--	--	71	14	60	48	--	30.8	1.6	
TRIUMPH	TRX05361	124	--	--	--	--	117	--	--	--	--	71	14	58	46	--	32.4	1.1	
MATURITY CHECK	LATE	125	125	122	125	124	118	91	102	75	14	72	14	61	47	--	30.2	1.4	
TRIUMPH	TRX85002	100	157	--	129	--	94	114	--	77	16	72	16	59	43	--	30.1	1.4	
	AVERAGES	106	138	119	122	121	106	138	119	68	13	64	12	60	44	--	32.5	1.4	
	CV (%)	11	10	10	--	--	11	10	10	--	--	2	5	1	5	--	8	10	
	LSD (0.05)	16	19	17	--	--	15	14	15	--	--	2	1	1	3	--	4	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.

WEST KANSAS FALLOW GRAIN SORGHUM TEST

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

Keith silt loam; Fallow in 2009

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

Planted on 6/2/2010; Harvested on 10/9/2010

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

Very good growing conditions until mid-August, when the weather turned hot and dry.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	2.2	2.4	33	32		
April	2.3	1.4	52	49	523	421
May	2.3	2.9	58	59	697	762
June	2.5	3.4	74	70	1105	1054
July	3.8	3.1	77	76	1234	1285
August	1.4	2.1	74	74	1149	1216
Sept.	0.6	1.6	67	66	926	910
Oct.	0.2	0.2	58	56	344	324
Totals:	15.2	17.2	52	51	5,979	5,972

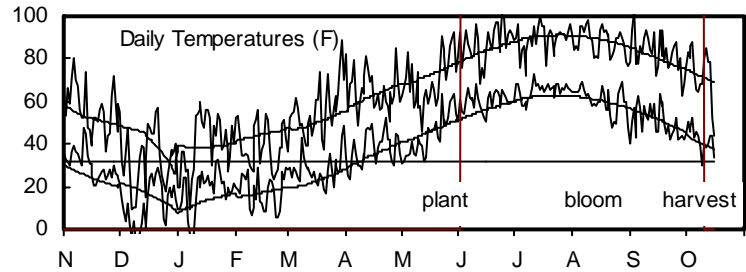
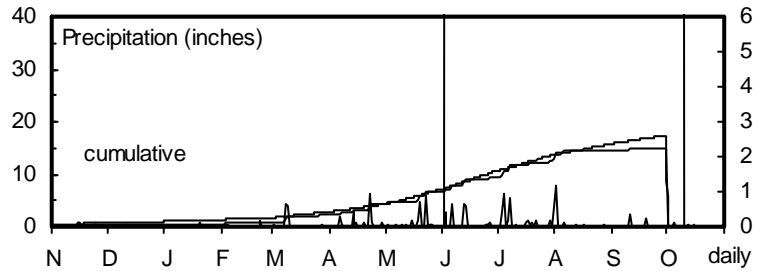


Table 14. Thomas County Fallow Grain Sorghum Performance Test, 2008-2010

BRAND	NAME	ACRE YIELD, BUSHELS		YIELD AS %			2009-2010											
		2-Yr. 3-Yr.		OF TEST			Days Grain		Days Grain		Test		Plnt		Pop.		Hds.	
		2010	2009	2008	AVG.	AVG.	2010	2009	2008	Blm	%	Blm	%	lb/bu	in.	%	Ldg	1000
MATURITY CHECK	EARLY	134	103	141	119	126	89	81	100	62	10	56	9	58	44	0	29.5	2.0
DEKALB	DKS28-05	142	143	--	143	--	95	113	--	61	10	57	10	56	45	0	28.9	2.0
DEKALB	DKS29-28	143	122	--	133	--	95	96	--	62	10	58	11	60	39	0	30.5	1.8
PHILLIPS	595	137	--	--	--	--	92	--	--	--	--	60	13	60	39	0	28.4	2.0
ASGROW	PULSAR	135	136	135	135	135	90	107	96	63	10	61	11	59	45	0	26.8	2.1
DEKALB	DKS37-07	157	137	156	147	150	105	107	111	66	11	62	12	61	47	0	29.6	1.6
DEKALB	DKS36-06	156	135	--	146	--	104	106	--	67	11	63	12	61	48	0	28.7	1.8
DEKALB	DKS44-20	144	131	145	138	140	96	104	103	68	12	65	11	60	48	0	29.0	1.4
PRODUCERS	PH256	146	126	--	136	--	97	99	--	69	11	65	11	59	49	1	27.4	1.9
CHANNEL	6B10	160	147	--	154	--	107	116	--	68	12	66	13	60	46	0	27.4	1.6
PHILLIPS	672	149	--	--	--	--	99	--	--	--	--	66	13	59	46	0	30.2	1.3
PIONEER	84P74	168	--	--	--	--	112	--	--	--	--	66	12	60	49	0	28.9	1.7
PRODUCERS	PH246W	122	114	--	118	--	81	89	--	69	10	66	11	60	46	0	21.9	1.8
CHANNEL	7B11	143	135	--	139	--	95	106	--	70	13	67	13	60	52	0	27.6	1.6
PIONEER	85Y40	168	135	140	152	148	112	106	99	71	12	67	13	61	48	0	29.6	1.5
MATURITY CHECK	MEDIUM	161	127	145	144	144	107	100	103	71	11	68	12	59	50	0	28.3	1.8
PIONEER	85G03	161	131	--	146	--	108	103	--	71	12	68	12	59	49	0	28.6	1.9
PIONEER	84G62	171	--	--	--	--	114	--	--	--	--	69	12	60	47	0	29.7	1.5
MATURITY CHECK	LATE	149	126	136	138	137	99	100	96	75	11	70	13	57	52	0	25.8	1.6
PRODUCERS	PH266	151	119	--	135	--	101	94	--	74	10	71	12	60	48	0	27.3	1.5
	AVERAGES	150	127	141	139	139	150	127	141	68	11	65	12	59	47	0	28.2	1.7
	CV (%)	9	7	11	--	--	9	7	11	--	--	1	13	2	3	--	6	7
	LSD (0.05)	20	13	21	--	--	13	10	15	--	--	1	2	2	2	1	3	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.

WEST KANSAS FALLOW GRAIN SORGHUM TEST

Southwest Research-Extension Center, Tribune; Alan Schlegel, agronomist; Lucas Haag; technician

Richfield silt loam; Fallow in 2009

85 - 20 - 0 lb/a N, P, K

Planted on 5/27/2010; Harvested on 10/19/2010

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

Dry conditions late in the summer.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	0.7	2.1	37	34		
April	1.8	1.3	50	49	504	430
May	2.2	2.3	63	59	851	772
June	1.2	2.5	72	70	1046	1063
July	2.7	2.6	75	76	1158	1287
August	1.4	2.3	71	74	1086	1209
Sept.	0.5	1.3	60	66	751	934
Oct.	1.9	0.3	44	57	166	340
Totals:	12.3	14.7	52	52	5,562	6,035

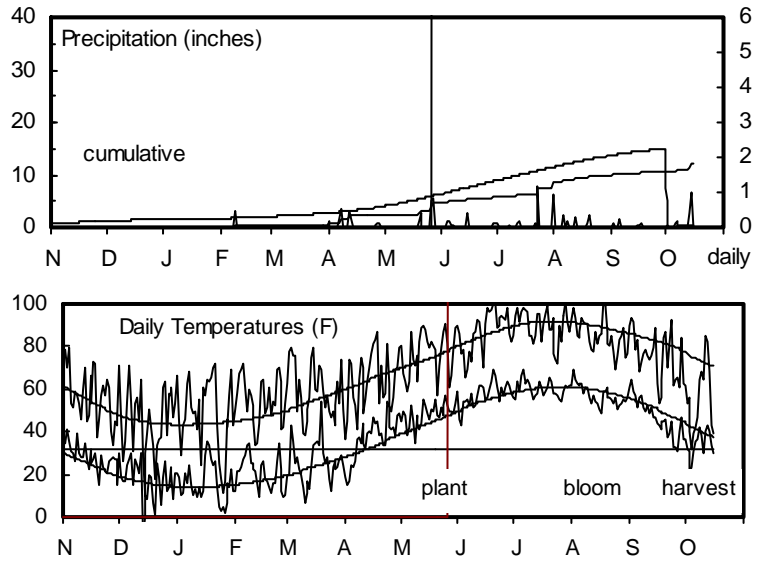


Table 15. Greeley County Dryland Grain Sorghum Performance Test, 2008-2010

BRAND	NAME	YIELD AS % 2009-2010											Plnt	Hts.	Ldg	Pop. 1000 ppa	Hds. per Plnt		
		ACRE YIELD, BUSHELS					OF TEST			Days Grain		Days Grain						Test	
		2010	2009	2008	2-Yr. AVG.	3-Yr. AVG.	2010	2009	2008	Blm	to Moist. %	Blm						to Moist. %	lb/bu
DEKALB	DKS28-05	88	87	--	88	--	80	119	--	63	14	60	11	58	43	0	--	--	
DEKALB	DKS29-28	92	79	--	86	--	84	108	--	64	14	60	12	57	37	0	--	--	
MATURITY CHECK	EARLY	91	79	69	85	80	83	108	88	64	14	60	11	58	40	0	--	--	
PIONEER	86G08	123	--	--	--	--	112	--	--	--	--	60	13	56	46	3	--	--	
SYNGENTA	5875	87	--	--	--	--	79	--	--	--	--	60	12	57	37	0	--	--	
TRIUMPH	TR 424	71	--	--	--	--	65	--	--	--	--	60	11	57	37	0	--	--	
PIONEER	86G32	112	81	66	97	86	102	111	85	64	15	61	12	57	45	0	--	--	
ASGROW	PULSAR	96	81	86	88	88	87	111	111	65	15	63	12	57	45	5	--	--	
CHANNEL	5B90	101	--	--	--	--	92	--	--	--	--	63	12	57	45	0	--	--	
DEKALB	DKS36-06	124	91	--	108	--	113	125	--	66	15	63	13	57	48	0	--	--	
DEKALB	DKS37-07	120	80	98	100	99	110	110	125	66	15	63	12	57	46	0	--	--	
SYNGENTA	H-307	125	--	--	--	--	114	--	--	--	--	64	12	57	50	0	--	--	
CHANNEL	6B10	114	81	--	97	--	104	111	--	69	14	67	12	57	46	5	--	--	
PRODUCERS	PH246W	97	80	--	89	--	89	110	--	68	14	67	11	58	47	0	--	--	
SYNGENTA	5745	110	--	--	--	--	100	--	--	--	--	67	12	57	45	0	--	--	
DEKALB	DKS44-20	118	74	102	96	98	108	101	131	70	14	68	12	57	47	0	--	--	
DRUSSEL SEED	DSS B6506	123	81	86	102	97	112	111	111	70	15	68	12	57	48	0	--	--	
DRUSSEL SEED	DSS B64	126	85	96	105	102	115	116	124	70	15	69	12	57	46	0	--	--	
PRODUCERS	PH256	123	80	--	101	--	112	109	--	70	15	69	12	57	50	5	--	--	
PIONEER	85Y40	104	80	81	92	88	95	110	104	73	18	70	17	54	48	18	--	--	
TRIUMPH	TR 448	121	--	--	--	--	110	--	--	--	--	70	12	57	44	0	--	--	
SYNGENTA	H-390W	111	--	--	--	--	101	--	--	--	--	71	12	57	45	3	--	--	
MATURITY CHECK	LATE	122	53	68	88	81	111	73	87	76	15	73	12	57	54	10	--	--	
MATURITY CHECK	MEDIUM	118	54	78	86	83	107	74	100	75	15	74	13	56	49	5	--	--	
PIONEER	85G03	123	55	--	89	--	112	76	--	76	15	74	12	57	48	0	--	--	
PRODUCERS	PH266	109	49	--	79	--	99	67	--	77	16	75	12	57	51	0	--	--	
	AVERAGES	110	73	78	92	87	110	73	78	69	15	66	12	57	45	3	--	--	
	CV (%)	10	8	14	--	--	10	8	14	--	--	2	9	2	4	--	--	--	
	LSD (0.05)	16	8	15	--	--	14	11	19	--	--	2	2	1	3	10	--	--	

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

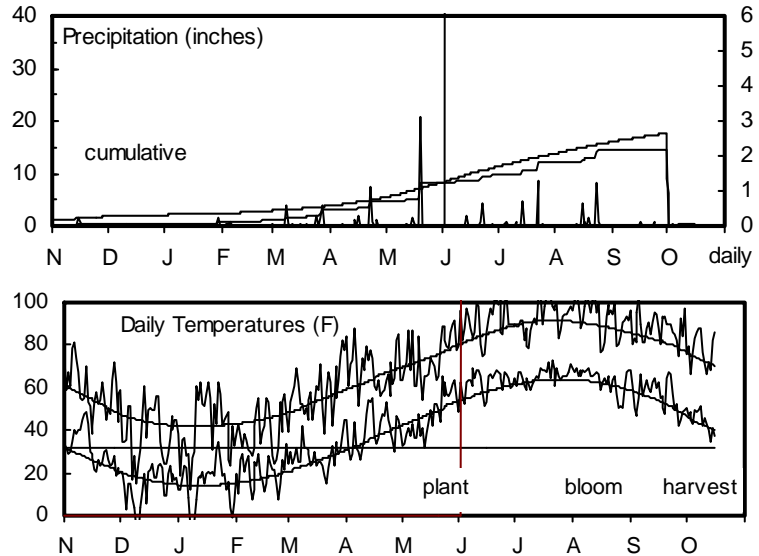
Keith silt loam; Grain Sorghum in 2009

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

Planted on 6/2/2010; Harvested on 10/15/2010

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

Wet winter into early spring. Hot and dry from mid-June until harvest.



Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	3.0	2.8	35	34		
April	1.9	1.6	54	50	599	472
May	3.6	2.9	61	61	793	831
June	1.2	3.0	77	72	1167	1115
July	2.4	2.5	79	78	1254	1321
August	2.4	2.2	79	75	1217	1260
Sept.	0.2	1.6	72	68	1048	973
Oct.	0.1	0.5	61	58	384	356
Totals:	14.7	17.1	55	53	6,461	6,328

Table 16. Finney County Fallow Grain Sorghum Performance Test, 2008-2010

BRAND	NAME	YIELD AS % 2009-2010											Pop. 1000 ppa	Hds. per Plnt				
		ACRE YIELD, BUSHELS				OF TEST AVERAGE			Days Grain to Moist.		Days Grain to Moist.				Test lb/bu	Plnt Ht. in.	Ldg %	
		2010	2009	2008	2-Yr. AVG.	2010	2009	2008	Blm	%	Blm	%						
DEKALB	DKS28-05	102	41	--	72	--	92	89	--	53	11	55	9	60	40	1	19.8	1.7
MATURITY CHECK	EARLY	96	25	89	61	70	86	54	114	58	11	55	9	60	40	0	20.4	1.6
DEKALB	DKS29-28	95	29	63	62	62	86	61	80	56	12	56	9	60	36	1	19.5	1.5
PIONEER	86G32	117	39	73	78	76	105	84	93	57	13	56	11	60	42	6	19.8	1.5
ASGROW	PULSAR	104	43	77	73	74	93	93	98	59	12	57	10	60	40	0	18.0	1.8
PIONEER	86G08	109	--	--	--	--	98	--	--	--	--	57	10	61	43	3	19.1	1.5
DEKALB	DKS36-06	117	57	--	87	--	105	123	--	59	13	58	11	61	44	1	20.3	1.4
DEKALB	DKS37-07	117	50	77	83	81	105	107	98	59	14	58	11	62	43	3	21.2	1.4
MIDLAND	M-4595	83	--	--	--	--	74	--	--	--	--	58	10	59	36	57	18.5	1.4
SYNGENTA	H-307	90	--	--	--	--	81	--	--	--	--	58	9	59	43	16	21.5	1.4
DEKALB	DKS44-20	111	59	76	85	82	100	127	96	62	12	61	10	62	42	2	23.6	1.1
DRUSSEL SEED	DSS B6506	117	57	65	87	80	105	124	83	62	12	61	11	61	45	0	18.5	1.2
MIDLAND	M-4748	128	51	--	89	--	116	110	--	62	12	61	10	61	45	0	18.7	1.4
SYNGENTA	5745	97	--	--	--	--	88	--	--	--	--	61	11	60	42	2	20.7	1.3
SYNGENTA	H-390W	123	--	--	--	--	110	--	--	--	--	61	10	61	42	5	21.1	1.3
TRIUMPH	TR 448	102	--	--	--	--	92	--	--	--	--	61	10	62	42	0	21.1	1.0
CHANNEL	6B10	124	--	--	--	--	111	--	--	--	--	62	11	62	41	5	17.7	1.4
PIONEER	85Y40	124	52	63	88	80	112	112	80	63	13	62	10	62	45	1	19.6	1.5
SYNGENTA	5613	113	--	--	--	--	101	--	--	--	--	62	11	61	44	0	20.1	1.2
CHANNEL	7B11	118	--	--	--	--	106	--	--	--	--	63	10	63	44	0	16.9	1.5
MIDLAND	M-4665	120	43	--	82	--	108	93	--	64	14	63	10	61	44	6	20.0	1.5
MIDLAND	M-4772	132	45	--	88	--	119	97	--	63	13	63	11	62	45	0	17.6	1.5
PIONEER	85G03	106	63	--	84	--	96	135	--	64	14	63	12	61	44	0	19.8	1.4
DRUSSEL SEED	DSS B64	115	55	72	85	81	103	118	91	63	11	64	10	60	44	7	18.2	1.7
MIDLAND	M-4765	106	38	--	72	--	95	83	--	63	13	64	10	61	42	2	19.9	1.3
SYNGENTA	5556	114	--	--	--	--	102	--	--	--	--	65	11	61	42	3	18.4	1.5
MATURITY CHECK	LATE	127	54	100	90	94	115	115	127	67	12	66	10	60	46	2	18.3	1.5
MATURITY CHECK	MEDIUM	124	58	79	91	87	111	124	100	65	13	66	12	61	46	0	19.1	1.7
MIDLAND	M-4790	102	40	--	71	--	92	85	--	67	14	67	12	60	50	0	17.0	1.6
TRIUMPH	TRX05361	102	--	--	--	--	92	--	--	--	--	67	10	60	49	3	15.9	1.1
	AVERAGES	111	46	79	79	79	111	46	79	61	13	61	10	61	43	4	19.4	1.4
	CV (%)	9	7	11	--	--	9	7	11	--	--	2	13	1	3	--	10	8
	LSD (0.05)	14	5	12	--	--	12	10	15	--	--	2	2	1	2	10	3	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.

Table 17. WEST Kansas Grain Sorghum Hybrid Yield Summary (% of test avg.), 2010

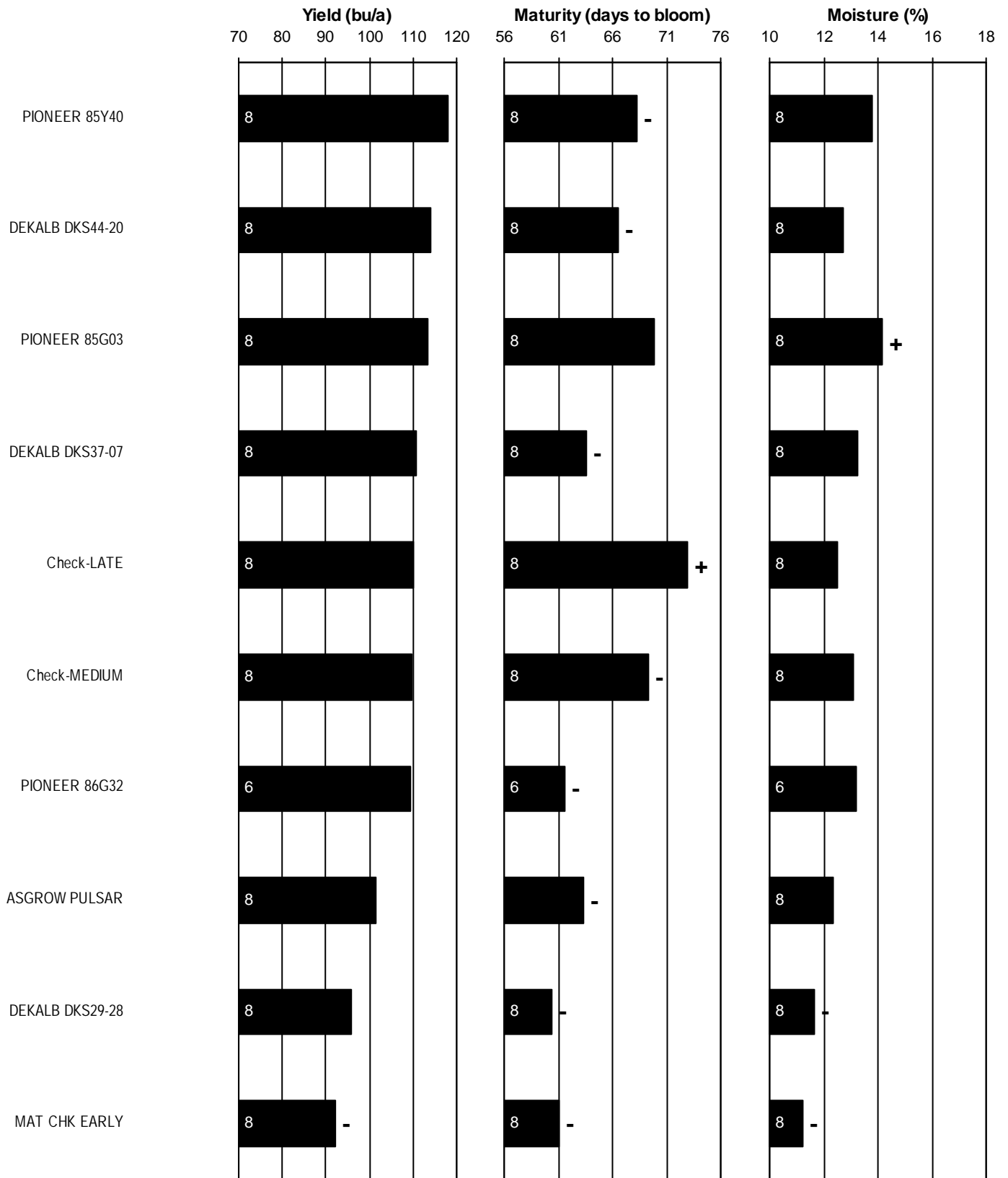
BRAND/NAME	ELD	THD	GRD	FND	AVG.	BRAND/NAME	ELD	THD	GRD	FND	AVG.
ASGROW						PIONEER					
PULSAR	87	90	87	93	89	84G62	108	114	--	--	--
CHANNEL						84P74	119	112	--	--	--
5B90	--	--	92	--	--	85G03	104	108	112	96	105
6B10	114	107	104	111	109	85Y40	125	112	95	112	111
7B11	106	95	--	106	--	86G08	--	--	112	98	--
DEKALB						86G32	--	--	102	105	--
DKS28-05	89	95	80	92	89	PRODUCERS					
DKS29-28	86	95	84	86	88	PH246W	95	81	89	--	--
DKS36-06	97	104	113	105	105	PH256	94	97	112	--	--
DKS37-07	84	105	110	105	101	PH266	102	101	99	--	--
DKS44-20	113	96	108	100	104	SYNGENTA					
DRUSSEL SEED						5464	94	--	--	--	--
DSS B64	--	--	115	103	--	5556	97	--	--	102	--
DSS B6506	--	--	112	105	--	5613	--	--	--	101	--
DYNA-GRO						5745	--	--	100	88	--
742C	94	--	--	--	--	5875	--	--	79	--	--
751B	95	--	--	--	--	H-307	99	--	114	81	--
764B	108	--	--	--	--	H-390W	98	--	101	110	--
766B	90	--	--	--	--	TRIUMPH					
772B	101	--	--	--	--	TR 452	94	--	--	--	--
778B	98	--	--	--	--	TR 458	102	--	--	--	--
MIDLAND						TR 424	--	--	65	--	--
M-4595	--	--	--	74	--	TR 448	91	--	110	92	--
M-4665	--	--	--	108	--	TRX05361	117	--	--	92	--
M-4748	--	--	--	116	--	TRX85002	94	--	--	--	--
M-4765	--	--	--	95	--	MATURITY CHECK					
M-4772	--	--	--	119	--	EARLY	84	89	83	86	86
M-4790	--	--	--	92	--	LATE	118	99	111	115	111
OHLDE						MEDIUM	105	107	107	111	108
O-525	102	--	--	--	--	AVERAGES (bu/a)	106	150	110	111	119
O-530	97	--	--	--	--	CV (%)	11	9	10	9	--
O-567	109	--	--	--	--	LSD (0.05)	15	13	14	12	--
O-587	101	--	--	--	--						
PHILLIPS											
595	89	92	--	--	--						
672	100	99	--	--	--						

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 sorghum hybrid standardized performance summary, 2008-2010

SOUTH CENTRAL KANSAS NO-TILL IRRIGATED GRAIN SORGHUM TEST

South Central Kansas Experiment Field, Hutchinson; William Heer, agronomist; Richard Seck, cooperater

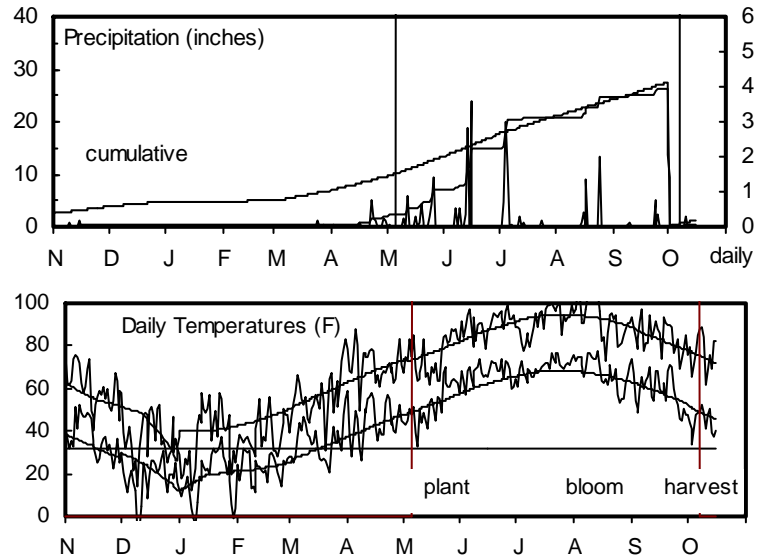
Ost loam; Soybean in 2009

170 - 0 - 0 lb/a N, P, K

Planted on 5/6/2010; Harvested on 10/6/2010

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

Wet soils after planting affected emergence and stands; very hot and dry during the summer until harvest.



Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.-Mar.	0.5	4.4	36	37		
April	1.6	2.6	58	55	703	617
May	4.8	3.8	64	65	894	927
June	7.8	4.3	79	75	1246	1196
July	6.1	3.5	81	81	1319	1416
August	3.9	3.1	80	79	1284	1361
Sept.	1.3	3.3	72	70	1063	1053
Oct.	0.3	1.1	60	62	376	407
Totals:	26.4	26.1	56	56	6,885	6,977

Table 18. Reno County No-Till Irrigated Grain Sorghum Performance Test, 2008-2010

BRAND	NAME	YIELD AS % 2009-2010																		
		ACRE YIELD, BUSHELS					OF TEST			Days Grain		Days Grain		Test		Plnt		Pop.		Hds.
		2010	2009	2008	2-Yr. AVG.	3-Yr. AVG.	2010	2009	2008	Blm	%	Blm	%	lb/bu	Ht. in.	Ldg %	1000 ppa	per Pint		
MIDLAND	M-4748	52	116	99	84	89	123	91	89	67	15	61	14	57	61	--	--	--		
MATURITY CHECK	EARLY	37	89	80	63	69	88	70	72	69	15	69	13	57	54	--	--	--		
MIDLAND	M-4595	66	--	--	--	--	156	--	--	--	--	72	14	56	47	--	--	--		
DYNA-GRO	742C	46	--	--	--	--	110	--	--	--	--	73	17	54	51	--	--	--		
DEKALB	DKS44-20	54	120	119	87	98	128	94	107	70	16	74	14	58	63	--	--	--		
DYNA-GRO	766B	56	--	--	--	--	134	--	--	--	--	74	14	58	61	--	--	--		
MIDLAND	M-4665	44	111	--	78		103	87	--	75	15	74	14	57	59	--	--	--		
SYNGENTA	5745	46	--	--	--	--	108	--	--	--	--	74	23	53	55	--	--	--		
MIDLAND	M-4765	59	121	--	90		141	94	--	75	15	75	14	58	56	--	--	--		
SYNGENTA	5613	33	--	--	--	--	78	--	--	--	--	75	16	56	62	--	--	--		
CHANNEL	6B10	46	--	--	--	--	109	--	--	--	--	76	13	59	54	--	--	--		
DEKALB	DKS53-67	47	146	125	97	106	111	114	112	75	15	76	13	59	61	--	--	--		
MATURITY CHECK	MEDIUM	35	98	91	66	75	84	76	81	73	18	76	19	57	62	--	--	--		
MIDLAND	M-4772	51	126	118	89	98	120	99	106	74	15	76	14	58	64	--	--	--		
DEKALB	DKS49-45	33	--	--	--	--	79	--	--	--	--	77	16	57	65	--	--	--		
DYNA-GRO	764B	49	--	--	--	--	117	--	--	--	--	77	13	58	55	--	--	--		
DEKALB	DKS54-00	36	146	132	91	105	86	114	119	78	16	78	15	56	66	--	--	--		
DEKALB	DKS54-03	39	156	143	97	113	92	122	129	78	15	78	13	58	64	--	--	--		
DYNA-GRO	751B	54	133	118	93	102	129	104	106	77	15	78	14	59	57	--	--	--		
DYNA-GRO	772B	55	125	132	90	104	132	98	118	76	15	78	12	59	64	--	--	--		
SYNGENTA	H-486	46	--	--	--	--	109	--	--	--	--	78	14	58	61	--	--	--		
CHANNEL	7B11	61	--	--	--	--	144	--	--	--	--	80	13	59	65	--	--	--		
MATURITY CHECK	LATE	50	144	126	97	107	119	113	113	78	16	80	15	56	64	--	--	--		
TRIUMPH	TRX95005	49	--	--	--	--	117	--	--	--	--	80	17	55	60	--	--	--		
DYNA-GRO	778B	12	153	120	82	95	29	120	108	81	18	82	20	51	73	--	--	--		
MIDLAND	M-4790	6	129	--	67		15	101	--	81	22	83	28	44	67	--	--	--		
TRIUMPH	TR 481	8	111	110	60	76	20	87	98	83	17	85	17	55	70	--	--	--		
TRIUMPH	TRX85002	8	--	--	--	--	20	--	--	--	--	85	20	51	68	--	--	--		
	AVERAGES	42	128	111	85	94	42	128	111	76	16	77	16	56	61	--	--	--		
	CV (%)	15	8	8	--	--	15	8	8	--	--	3	--	5	2	--	--	--		
	LSD (0.05)	9	15	13	--	--	21	12	11	--	--	3	6	4	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

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

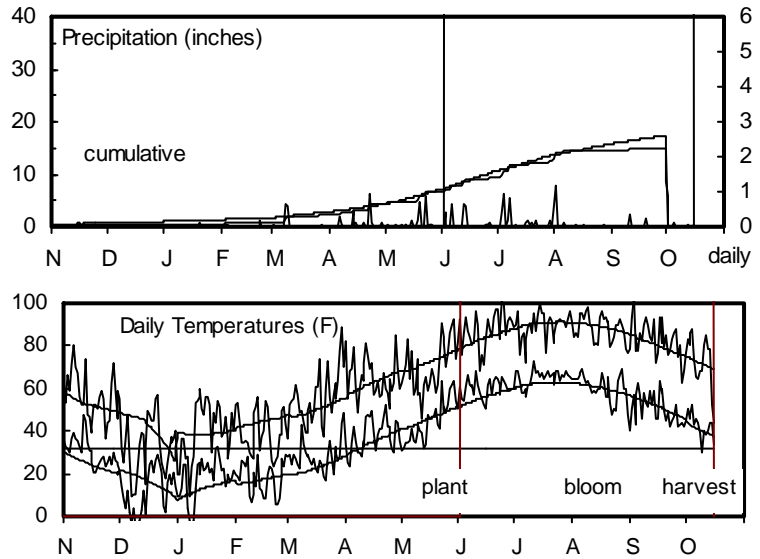
Keith silt loam; Sunflower in 2009

200 - 50 - 0 lb/a N, P, K

Planted on 6/2/2010; Harvested on 10/14/2010

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

Very good growing conditions the entire season.



Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	2.2	2.4	33	32		
April	2.3	1.4	52	49	523	421
May	2.3	2.9	58	59	697	762
June	2.5	3.4	74	70	1105	1054
July	3.8	3.1	77	76	1234	1285
August	1.4	2.1	74	74	1149	1216
Sept.	0.6	1.6	67	66	926	910
Oct.	0.2	0.2	58	56	344	324
Totals:	15.2	17.2	52	51	5,979	5,972

Table 19. Thomas County Irrigated Grain Sorghum Performance Test, 2008-2010

BRAND	NAME	YIELD AS % 2009-2010																			
		ACRE YIELD, BUSHELS					OF TEST			Days Grain		Days Grain		Test		Plnt		Pop.		Hds.	
		2010	2009	2008	2-Yr. AVG.	3-Yr. AVG.	2010	2009	2008	Blm	%	Blm	%	lb/bu	in.	Ldg	%	ppa	Plnt	per	
SYNGENTA	5875	117	--	--	--	63	--	--	--	--	52	10	57	38	0	65.4	1.1				
MATURITY CHECK	EARLY	148	152	175	150	158	81	86	105	59	12	53	11	58	52	0	58.8	1.3			
PIONEER	86G08	196	--	--	--	--	107	--	--	--	--	56	13	60	52	0	75.5	1.1			
PIONEER	86G32	180	--	--	--	--	98	--	--	--	--	56	12	60	50	0	84.1	1.1			
PHILLIPS	595	160	--	--	--	--	87	--	--	--	--	58	13	59	43	0	67.7	1.1			
SYNGENTA	H-307	177	--	--	--	--	96	--	--	--	--	58	13	59	52	0	78.2	1.1			
PHILLIPS	672	185	--	--	--	--	101	--	--	--	--	59	13	61	55	0	81.7	1.0			
CHANNEL	6B10	181	195	--	188	--	98	110	--	64	16	60	16	60	49	0	73.1	1.0			
DEKALB	DKS44-20	197	176	149	186	174	107	100	90	65	15	60	15	61	54	0	67.1	1.1			
PIONEER	84P74	190	189	--	190	--	103	107	--	65	17	61	16	61	54	0	69.4	1.0			
SYNGENTA	5745	168	--	--	--	--	91	--	--	--	--	61	15	58	53	0	71.7	1.1			
PIONEER	85Y40	195	177	176	186	183	106	100	106	66	16	62	15	62	52	0	73.9	1.0			
CHANNEL	7B11	185	151	--	168	--	100	85	--	66	17	63	14	63	57	0	65.9	1.1			
SYNGENTA	H-390W	182	--	--	--	--	99	--	--	--	--	63	14	59	48	0	71.1	1.0			
DEKALB	DKS49-45	190	--	--	--	--	103	--	--	--	--	64	15	61	56	0	73.4	1.1			
MATURITY CHECK	MEDIUM	200	176	172	188	183	109	100	103	67	15	64	16	61	55	0	67.8	1.2			
PHILLIPS	775	188	--	--	--	--	102	--	--	--	--	64	15	60	55	0	63.9	1.1			
DEKALB	DKS54-00	199	182	208	191	196	108	103	125	68	15	65	15	60	56	0	72.1	1.1			
DEKALB	DKS54-03	193	181	197	187	190	105	103	119	69	15	65	16	57	56	0	61.7	0.9			
MATURITY CHECK	LATE	187	178	177	183	181	101	101	107	69	15	65	15	60	57	0	64.3	1.1			
PIONEER	85G03	194	--	--	--	--	106	--	--	--	--	65	17	60	55	0	64.0	1.1			
DEKALB	DKS53-67	207	187	187	197	194	112	106	112	69	16	66	17	62	54	0	76.0	1.1			
PIONEER	84G62	211	192	157	202	187	115	109	95	69	16	66	16	60	53	0	67.8	1.2			
AVERAGES		184	177	166	180	176	184	177	166	66	15	61	14	60	52	0	70.2	1.1			
CV (%)		7	7	11	--	--	7	7	11	--	--	2	11	2	3	--	--	--	--		
LSD (0.05)		17	17	25	--	--	9	10	15	--	--	1	2	1	2	0	20	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.

WEST KANSAS IRRIGATED GRAIN SORGHUM TEST

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

Keith silt loam; Grain Sorghum in 2009

200 - 50 - 0 lb/a N, P, K

Planted on 6/2/2010; Harvested on 10/15/2010

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

Wet winter into early spring. Hot and dry from the middle of June until harvest.

Month	Precipitation		Average Temp.		GDU	
	2010	Norm.	2010	Norm.	2010	Norm.
Nov.- Mar.	3.0	2.8	35	34		
April	1.9	1.6	54	50	599	472
May	3.6	2.9	61	61	793	831
June	1.2	3.0	77	72	1167	1115
July	2.4	2.5	79	78	1254	1321
August	2.4	2.2	79	75	1217	1260
Sept.	0.2	1.6	72	68	1048	973
Oct.	0.1	0.5	61	58	384	356
Totals:	14.7	17.1	55	53	6,461	6,328

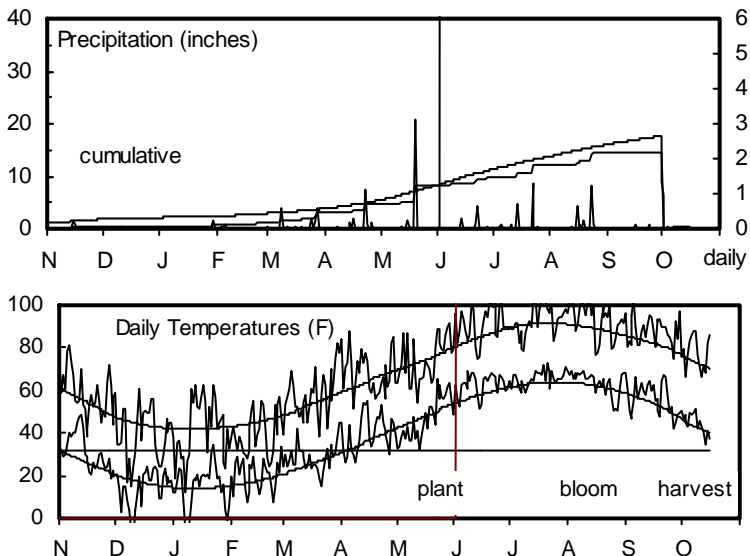


Table 20. Finney County Irrigated Grain Sorghum Performance Test, 2008-2010

BRAND	NAME	YIELD AS % 2009-2010																	
		ACRE YIELD, BUSHELS					OF TEST			Days Grain			Test		Plnt		Pop.		Hds.
		2010	2009	2008	2-Yr. AVG.	3-Yr. AVG.	2010	2009	2008	Blm	to Moist. %	Days	Grain	Blm	to Moist. %	lb/bu	Ht. in.	Ldg %	1000 ppa
MATURITY CHECK	EARLY	115	96	137	106	116	82	71	112	55	12	51	11	58	47	0	49.7	1.8	
MIDLAND	M-4595	113	--	--	--	--	81	--	--	--	--	56	11	59	42	0	44.0	1.8	
MIDLAND	M-4748	139	117	111	128	122	99	87	91	59	13	56	13	60	51	2	45.1	1.7	
DEKALB	DKS44-20	133	129	129	131	130	95	96	105	60	13	57	13	62	52	0	47.5	1.7	
MIDLAND	M-4665	135	126	--	130	--	96	94	--	60	12	57	12	60	49	0	48.4	1.6	
PIONEER	84P74	154	141	--	148	--	110	105	--	60	16	57	15	61	53	0	45.0	1.5	
SYNGENTA	5745	117	--	--	--	--	84	--	--	--	--	57	11	59	48	0	56.7	1.5	
SYNGENTA	H-390W	139	--	--	--	--	99	--	--	--	--	57	12	60	48	0	50.7	1.7	
MIDLAND	M-4765	132	120	--	126	--	94	89	--	60	13	58	13	61	49	0	53.1	1.5	
PIONEER	85Y40	149	142	92	146	128	106	106	75	60	14	58	13	62	52	0	39.4	1.8	
DEKALB	DKS49-45	156	--	--	--	--	111	--	--	--	--	59	13	60	56	0	47.4	1.9	
DEKALB	DKS54-03	148	149	130	148	142	105	111	106	62	13	59	13	59	56	1	51.9	1.6	
MATURITY CHECK	MEDIUM	157	126	113	141	132	112	93	93	61	12	59	14	60	54	0	53.9	1.7	
MIDLAND	M-4772	148	127	136	137	137	105	94	111	61	14	59	14	60	54	0	48.8	1.6	
PIONEER	84G62	168	147	112	157	142	119	109	92	62	13	59	13	62	53	1	48.6	1.5	
TRIUMPH	TRX84732	106	--	--	--	--	76	--	--	--	--	59	11	60	48	1	33.2	2.0	
SYNGENTA	5556	132	--	--	--	--	94	--	--	--	--	60	10	60	48	0	48.5	1.6	
TRIUMPH	TRX05361	154	--	--	--	--	110	--	--	--	--	60	12	58	59	0	37.3	1.6	
TRIUMPH	TRX95005	159	--	--	--	--	113	--	--	--	--	60	13	61	52	0	44.9	1.7	
DEKALB	DKS53-67	160	152	148	156	153	114	113	121	63	15	61	15	61	54	1	45.6	1.7	
DEKALB	DKS54-00	144	137	139	140	140	103	102	114	62	12	61	13	59	54	1	47.6	1.6	
MATURITY CHECK	LATE	158	150	125	154	144	112	112	103	63	13	62	13	59	54	0	48.5	1.5	
MIDLAND	M-4790	121	136	--	129	--	86	101	--	65	14	63	14	61	60	0	39.9	1.7	
TRIUMPH	TRX85001	130	140	--	135	--	92	104	--	70	16	71	17	58	58	0	38.9	1.8	
	AVERAGES	140	134	122	137	132	140	134	122	61	13	59	13	60	52	0	46.5	1.7	
	CV (%)	8	5	11	--	--	8	5	11	--	--	2	7	1	1	--	15	14	
	LSD (0.05)	15	10	19	--	--	11	8	16	--	--	2	1	1	1	1	10	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.

Table 21. Kansas IRRIGATED Grain Sorghum Hybrid Yield Summary (% of test avg.), 2010

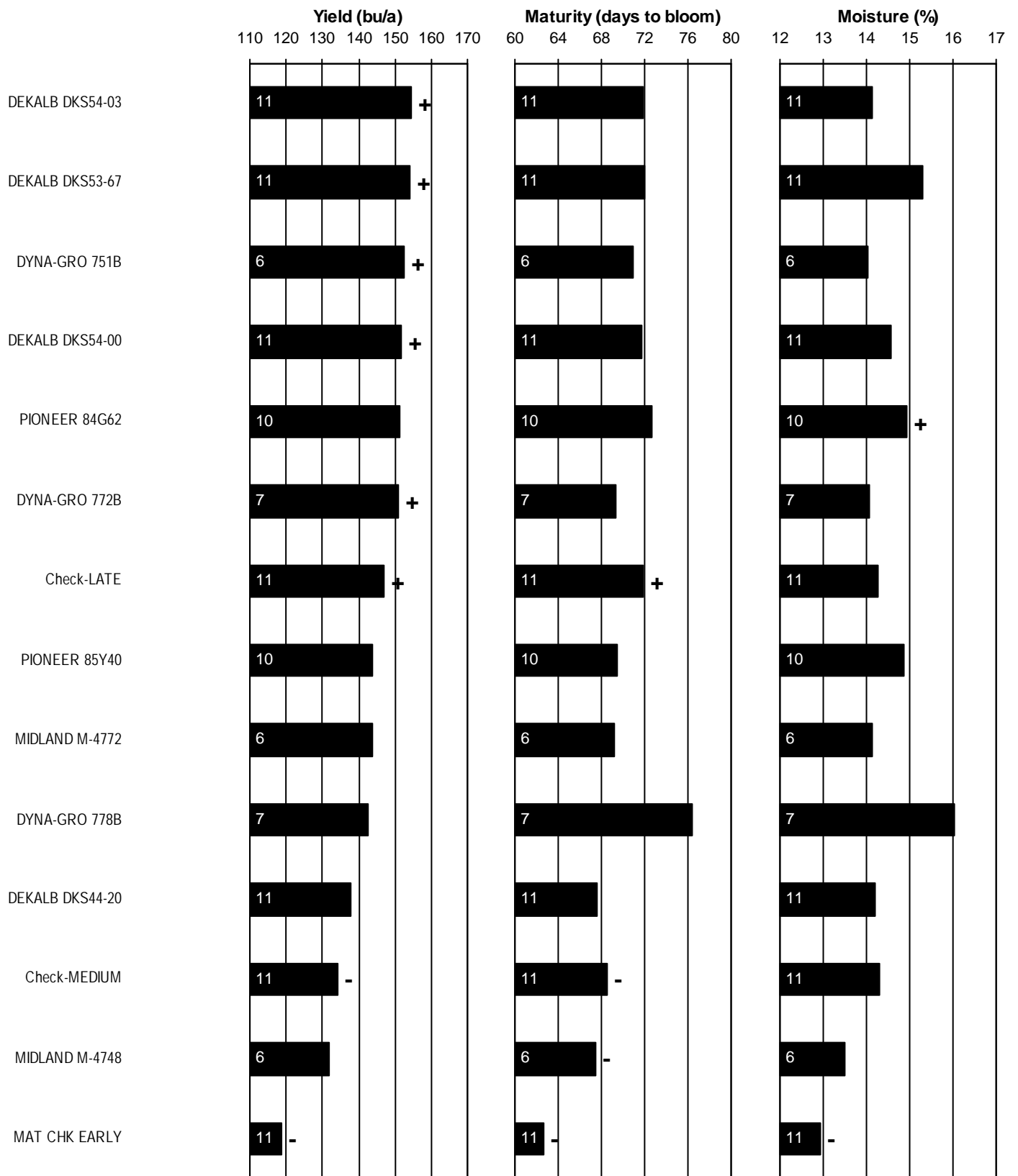
BRAND/NAME	RNI	THI	GRI	FNI	AVG.	BRAND/NAME	RNI	THI	GRI	FNI	AVG.
CHANNEL						SYNGENTA					
6B10	109	98	--	--	--	5556	--	--	--	94	--
7B11	144	100	--	--	--	5613	78	--	--	--	--
DEKALB						5745	108	91	--	84	94
DKS44-20	128	107	--	95	110	5875	--	63	--	--	--
DKS49-45	79	103	--	111	98	H-307	--	96	--	--	--
DKS53-67	111	112	--	114	112	H-390W	--	99	--	99	--
DKS54-00	86	108	--	103	99	H-486	109	--	--	--	--
DKS54-03	92	105	--	105	101	TRIUMPH					
DYNA-GRO						TR 481	20	--	--	--	--
742C	110	--	--	--	--	TRX05361	--	--	--	110	--
751B	129	--	--	--	--	TRX84732	--	--	--	76	--
764B	117	--	--	--	--	TRX85001	--	--	--	92	--
766B	134	--	--	--	--	TRX85002	20	--	--	--	--
772B	132	--	--	--	--	TRX95005	117	--	--	113	--
778B	29	--	--	--	--	MATURITY CHECK					
MIDLAND						EARLY	88	81	--	82	83
M-4595	156	--	--	81	--	LATE	119	101	--	112	111
M-4665	103	--	--	96	--	MEDIUM	84	109	--	112	101
M-4748	123	--	--	99	--	AVERAGES (bu/a)	42	184	--	140	122
M-4765	141	--	--	94	--	CV (%)	15	7	--	8	--
M-4772	120	--	--	105	--	LSD (0.05)	21	9	--	11	--
M-4790	15	--	--	86	--						
PHILLIPS											
595	--	87	--	--	--						
672	--	101	--	--	--						
775	--	102	--	--	--						
PIONEER											
84G62	--	115	--	119	--						
84P74	--	103	--	110	--						
85G03	--	106	--	--	--						
85Y40	--	106	--	106	--						
86G08	--	107	--	--	--						
86G32	--	98	--	--	--						

RNI=Reno Co., Hutchinson

THI=Thomas Co., Colby

FNI=Finney Co., Garden City

GRI=Greeley Co., Tribune; abandoned, hail damage.



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 sorghum hybrid standardized performance summary, 2008-2010

Table 22. Entries in the 2010 Kansas Grain Sorghum Performance Tests

BRAND	GC	EC	PC	Mat.	Days	GB	BRAND	GC	EC	PC	Mat.	Days	GB
ASGROW							PHILLIPS						
PULSAR	B	HY	P	E	68	CEI	672	B	B	P	M	64	EI
CHANNEL							595	C	W	T	M	65	E, I
5B90	B	HY	P	E	61	E	670	C	B	T	M	65	E, I
6B10	B	HY	P	ME	62	-	775	B	B	P	M	67	EI
7B11	B	HY	P	M	68	-	PIONEER						
DEKALB							84P74	-	-	-	-	-	-
DKS28-05	B	HY	P	E	58	-	86G08	R	W	P	-	65	-
DKS29-28	B	HY	P	E	58	CE	86G32	R	W	P	E	65	-
DKS36-06	B	HY	P	E	63	-	85G03	R	W	P	M	69	-
DKS37-07	B	HY	P	E	67	CEI	85Y40	W	Y	P	M	70	-
DKS44-20	B	HY	P	M	67	-	84G62	B	Y	P	L	72	E
DKS49-45	B	HY	P	M	70	E,I	PRODUCERS						
DKS53-67	B	HY	P	L	71	CEI	PH246W	W	-	P	E	58	C, E
DKS54-03	B	HY	P	L	74	-	PH256	R	-	P	M	62	C, E
DKS54-00	B	HY	P	L	75	CEI	PH266	C	-	P	M	63	C, D
DRUSSEL SEED							PH276	R	-	P	ML	70	C,E
DSS B64	B	W	P	ME	64	C	SYNGENTA						
DSS B6506	B	W	P	ME	65	CDE	5464	-	-	-	-	-	-
DYNA-GRO							5556	-	-	-	-	-	-
GX08365	-	-	-	-	-	-	5613	-	-	-	-	-	-
742C	C	HY	P	ME	63	C	5745	-	-	-	-	-	-
764B	B	HY	T	ME	64	CDE	5875	-	-	-	-	-	-
766B	B	HY	T	ME	65	CDE	H-307	-	-	-	-	-	-
772B	B	HY	T	M	68	CE	H-390W	-	-	-	-	-	-
751B	B	W	T	ML	69	CE	H-486	-	-	-	-	-	-
778B	B	HY	T	ML	74	CE	TRIUMPH						
MIDLAND							TR 458	-	-	-	-	-	-
M-4595	-	-	-	-	-	-	TR 424	-	-	-	-	-	-
M-4665	B	W	P	M	63	C	TR 448	-	-	-	-	-	-
M-4748	B	-	P	M	65	CDE	TRX05361	-	-	-	-	-	-
M-4765	R	-	-	M	66	C	TRX84732	-	-	-	-	-	-
M-4772	B	-	P	M	68	CE	TRX85001	-	-	-	-	-	-
M-4790	R	-	-	L	75	C, E	TRX85002	-	-	-	-	-	-
OHLDE							TRX95005	-	-	-	-	-	-
O-525	B	W	P	E	64	-	TR 438	B	W	P	E	60	CE
O-530	C	Y	P	ME	67	CE	TR 452	R	W	P	ME	60	CE
O-567	B	W	P	M	70	CEIK	TR 463	R	W	P	M	62	CE
O-575	R	W	P	M	70	-	TR 481	R	W	P	ML	72	CE
O-587	R	W	P	ML	72	-	MATURITY CHECK						
							EARLY	R	W	P	E	65	E
							MEDIUM	W	W	P	M	69	-
							LATE	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 website. The information contained in this publication, plus more, is available for viewing or downloading at:

www.agronomy.ksu.edu/kscpt

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