

2006

Kansas Performance Tests with Grain Sorghum Hybrids

Report of Progress 969



Kansas State University
Agricultural Experiment Station
and Cooperative Extension Service

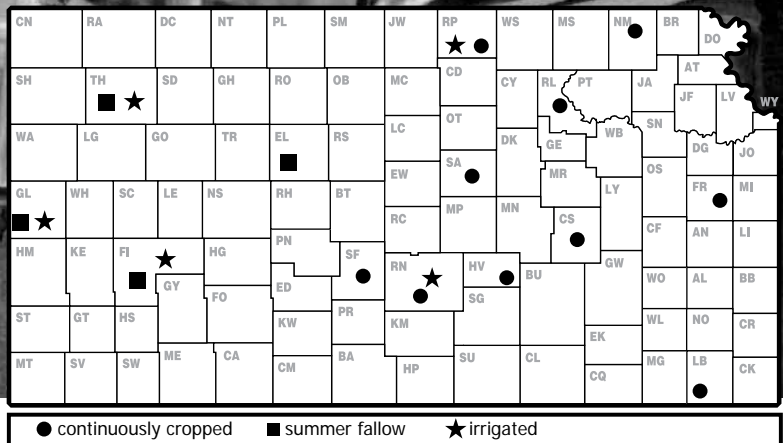


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2006 GRAIN SORGHUM CROP REVIEW

Statewide Growing Conditions

The 2006 growing season continued the dry conditions of the previous year, with an extended period of high temperatures and minimal rain from May to late August (Figure 1). Badly needed rains and cooler temperatures in August and September replenished some topsoil moisture across the state; as of October, however, 48% of the state reported to be short or very short of topsoil moisture. Late-August rains arrived in time to benefit grain filling in eastern Kansas and flowering in western Kansas or for later plantings, but rain and cold temperatures in October delayed maturation and harvest in some instances.

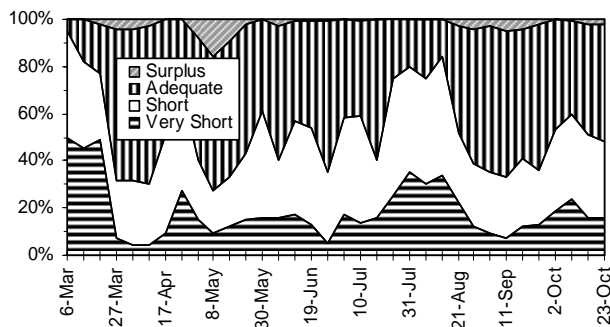


Figure 1. Statewide status of topsoil moisture.

Crop condition declined from early July until late August (Figure 2). In late June, 72% of the grain sorghum crop was rated as good or excellent. By August 20, that percentage had dropped to 30%. Crop condition increased slightly in early September but declined so that only 35% was rated as good or excellent as harvest got under way.

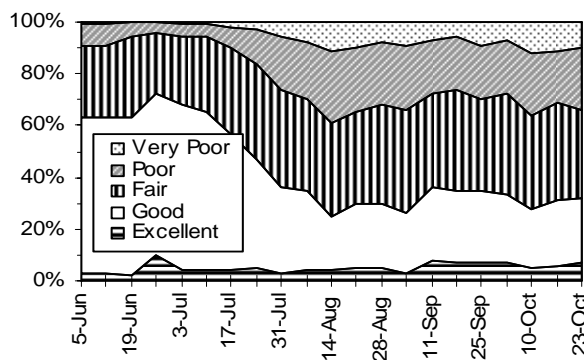


Figure 2. Condition of 2006 Kansas sorghum crop.

Planting and emergence of grain sorghum progressed ahead of the 2005 and 5-year average until late May, when dry conditions delayed activities until mid June. Despite the planting delays, heading progressed at the average pace until hot, dry weather slowed plant maturation. The grain sorghum received much-needed assistance with rains in late August and cooler temperatures in September, but that relief came too late for much of the state. In late October, harvest was thirteen points behind last year and the 5-year average.

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

Diseases

The 2006 cropping year was a mixed bag with regard to diseases in the grain sorghum crop. The good news was that, because of the dry weather up through the middle of August, there were few foliar disease problems and few problems from “wet weather” pathogens such as crazy top downy mildew. Once the rains began falling in mid-August, there was some late build-up of sooty stripe and northern corn leaf blight, mostly in fields with continuous high residue, but effects on yield should have been minimal in most fields.

The bad news was that the stalk rots, which are favored by dry, stressful conditions, were very bad in many parts of the state. Both Fusarium and charcoal rot stalk rot could be readily found in many areas of the state. Significant lodging was observed in some fields.

Fields that could not be harvested in a timely manner, due to rain, had the potential to develop grain mold problems. In general, the cream or lighter colored sorghums are more susceptible to this problem than the red and bronze colored sorghums. Moldy sorghum can be blended down with higher-quality grain or possibly used for ethanol production.

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

Insects

Very few early-season insect problems were noted throughout the state in 2006. Sugarcane rootstock weevils caused some concern in seedling plants, but infestations were not damaging enough to cause stand reductions because plants recovered after receiving timely precipitation. Chinch bugs were more evident than in 2005, but didn’t cause widespread damage. Chinch bug populations did, however, increase throughout the summer, and were noticeable even after harvest. Adults and nymphs were observed feeding on wheat planted in milo stubble. This indicates that growers should be vigilant when planting sorghum in 2007 because the potential for over-wintering populations is substantial. Late-season infestations of “sorghum headworms” continued to be a problem, especially in fields planted later. This pest complex consisted of armyworms, fall armyworms, and corn earworms, and will probably continue in future years with late-planted and double-cropped sorghum.

(Jeff Whitworth, Kansas State University Department of Entomology)

Harvest Statistics

The Kansas Agricultural Statistics Office predicted a 144.0-million-bushel crop in their October 12 Crops Report, down 26% from last year (Figure 3). The number of acres harvested was down 200,000 acres from last year, at 2.4 million. The average yield estimate of 60 bushels per acre was 15 bushels less than the final estimate for 2005.

(Kansas Agricultural Statistics)

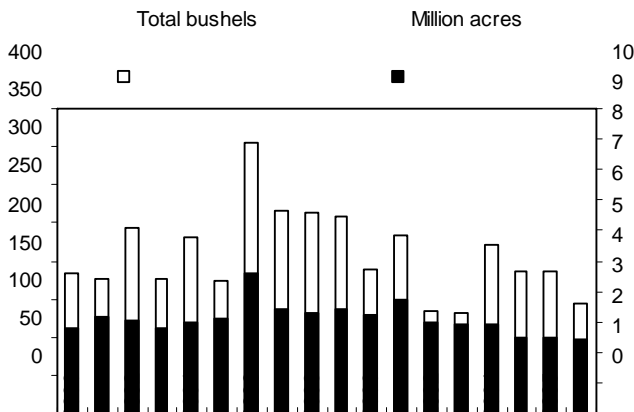


Figure 3. Historical Kansas grain sorghum production.

2006 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 2006 and the 30-year normal, in addition to the daily rainfall amounts since last fall. Temperature graphs include daily maximum and minimum temperatures compared with normal. General trends in precipitation and temperature relative to normal are readily observed in the graphs. A table with monthly totals and averages for the growing season also is included.

The growth unit or growing-degree-day concept was developed to measure the amount of heat available for growth and maturation. To calculate the daily 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 23 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 lbs/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 also must 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 2006 Kansas Grain Sorghum Performance Tests.

Crosbyton Seed Company (Golden World) Crosbyton, TX 806-675-2308 crosbytonseed.com	Garst Seed Company Slater, IA 800-831-6630 garstseed.com	NC+ Hybrids Lincoln, NE 800-279-7999 nc-plus.com	Taylor Seed Farms White Cloud, KS 800-742-7473 taylorseedfarms.com
DeLange Seed (Advanced Genetics) Girard, KS 620-724-6223 delangeseed.com	Golden Acres Genetics Waco, TX 800-692-6848 gaseed.com	Ohlde Seed Farms Palmer, KS 785-692-4555 phillipsseed.com.COM	Triumph Seed Co., Inc. Ralls, TX 800-530-4789 triumphseed.com
Drussel Seed, Inc. Garden City, KS 620-275-2359	Midland Genetics Ottawa, KS 800-819-SEED midlandgenetics.com	Phillips Seed Farms Hope, KS 785-949-2204 producershybrids.com	UAP-Pueblo (Dyna-Gro) Garden City, KS 620-275-4271 uap.com
Fontanelle Hybrids Fontanelle, NE 800-279-4353 fontanelle.com	Monsanto Seed (Asgrow/DeKalb) St. Louis, MO 800-833-5252 monsanto.com	Pioneer, A DuPont Company Amarillo, TX 800-258-5604 pioneer.com	
Frontier Hybrids Abernathy, TX 806-298-2595 frontierhybrids.com	Mycogen Seeds Indianapolis, IN 1-800-MYCOGEN mycogen.com	Sorghum Partners, Inc. New Deal, TX 806-746-5566 sorghum-partners.com	

NORTHEAST KANSAS GRAIN SORGHUM TEST ON SILTY CLAY LOAM SOIL

Keith Flentie farm; Kraig Roozeboom, agronomist

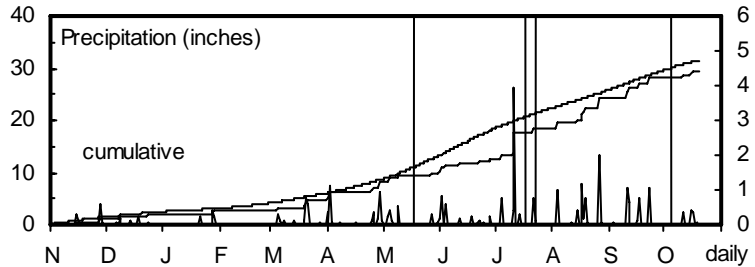
Wymore silt loam; Soybean in 2005

157 - 30 - 0 lb/a N, P, K

Planted on 5/18/2006; Harvested on 10/3/2006

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

Strip tilled; minimal lodging, disease, and insect pressure; August rains helped boost yields above the state average.



Month	Precipitation		Average Temp.		GDU	
	2006	Norm.	2006	Norm.	2006	Norm.
Nov.-Mar	5.2	6.0	35	35		
April	3.0	2.7	57	54	664	575
May	1.9	4.5	63	65	874	918
June	2.3	5.1	74	74	1168	1158
July	6.2	3.9	79	79	1368	1369
August	5.7	3.5	77	77	1309	1317
Sept.	3.9	3.8	61	70	802	1035
Oct.	1.2	2.0	55	60	402	496
Totals:	29.4	31.6	54	54	6,587	6,868

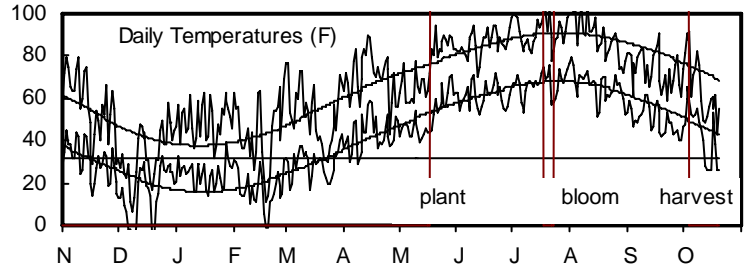


Table 2. Centralia Grain Sorghum Performance Test, 2004-2006.

BRAND	NAME	YIELD AS % 2005-2006									2006							
		ACRE YIELD, BUSHELS					OF TEST				Days Grain to Blm	Days Grain to Moist.	Test Wt. lb/bu	Plant Ht. in.	Pop. 1000 ppa	Hds per Plnt		
		2006	2005	2004	2-Yr. AVG.	3-Yr. AVG.	2006	2005	2004	AVERAGE								
MATURITY CHECK	PIO-86G08	102	--	--	--	--	106	--	--	--	--	60	11	55	50	1	65.7	1.1
GARST	5750	112	--	160	--	--	116	--	93	--	--	60	12	57	48	2	65.4	1.1
DEKALB	DKS37-07	91	--	--	--	--	94	--	--	--	--	60	13	56	51	4	71.9	1.1
MATURITY CHECK	OK11xTX2741	89	103	153	96	115	92	76	89	61	12	61	10	53	44	2	72.7	1.1
DEKALB	DKS36-16	79	--	--	--	--	82	--	--	--	--	62	10	55	44	0	76.2	0.9
DEKALB	DK-44	92	--	--	--	--	95	--	--	--	--	62	11	56	49	2	67.0	1.0
DEKALB	DKS42-20	82	117	161	99	120	85	86	93	61	13	62	11	57	55	1	65.1	1.0
PIONEER	85G01	108	129	--	119	--	112	95	--	61	14	62	12	55	49	1	70.5	1.0
PIONEER	85Y40	111	--	--	--	--	115	--	--	--	--	63	13	56	49	3	68.3	1.1
NC+	7B51	100	--	--	--	--	103	--	--	--	--	64	11	56	50	3	65.4	1.1
GOLDEN ACRES	3552	98	143	--	120	--	102	105	--	65	14	65	11	55	48	0	69.8	1.0
SORG. PARTNERS	NK7655	90	132	183	111	135	94	97	106	65	13	65	11	55	53	2	72.4	1.1
ASGROW	A567	104	141	206	122	150	107	104	119	64	15	65	13	57	51	2	67.8	1.0
SORG. PARTNERS	K73-J6	79	127	176	103	127	82	94	102	65	13	66	11	57	55	1	67.0	1.0
DEKALB	DKS54-00	93	126	188	110	136	97	93	109	64	14	66	12	56	58	0	68.8	1.0
MATURITY CHECK	TX2752xTX430	99	147	190	123	146	102	109	110	66	14	66	12	55	53	3	69.0	1.0
DEKALB	DKS53-11	106	135	198	121	146	110	100	115	64	15	66	13	57	53	1	68.4	1.1
GARST	5401	95	--	--	--	--	99	--	--	--	--	66	13	58	58	0	71.7	1.0
PIONEER	84G62	101	146	--	124	--	105	108	--	65	14	66	13	58	50	1	67.0	1.1
NC+	7R34	99	--	--	--	--	103	--	--	--	--	66	14	59	59	1	70.7	1.1
	AVERAGES	96	135	173	116	135	96	135	173	63	14	64	12	56	51	1	69.1	1.0
	CV (%)	9	8	5	--	--	9	8	5	--	--	2	12	2	3	135	7.6	7.1
	LSD (0.05)*	12	15	12	--	--	13	11	7	--	--	2	2	2	2	3	7.4	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.

NORTHEAST KANSAS GRAIN SORGHUM TEST ON SILT LOAM SOIL

Agronomy North Farm, Manhattan; Kraig Roozeboom, agronomist

Reading silt loam; Soybean in 2005

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

Planted on 5/18/2006; Harvested on 9/28/2006

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

Good emergence and early growth. No lodging, diseases, or insects problems observed.

Month	Precipitation		Average Temp.		GDU	
	2006	Norm.	2006	Norm.	2006	Norm.
Nov.-Mar	4.9	6.0	40	35		
April	3.5	2.7	63	54	848	575
May	2.9	4.5	67	65	989	918
June	1.4	5.1	78	74	1293	1158
July	4.1	3.9	84	79	1515	1369
August	10.9	3.5	81	77	1437	1317
Sept.	2.0	3.8	66	70	942	1035
Oct.	0.6	2.0	60	60	499	496
Totals:	30.3	31.6	58	54	7,523	6,868

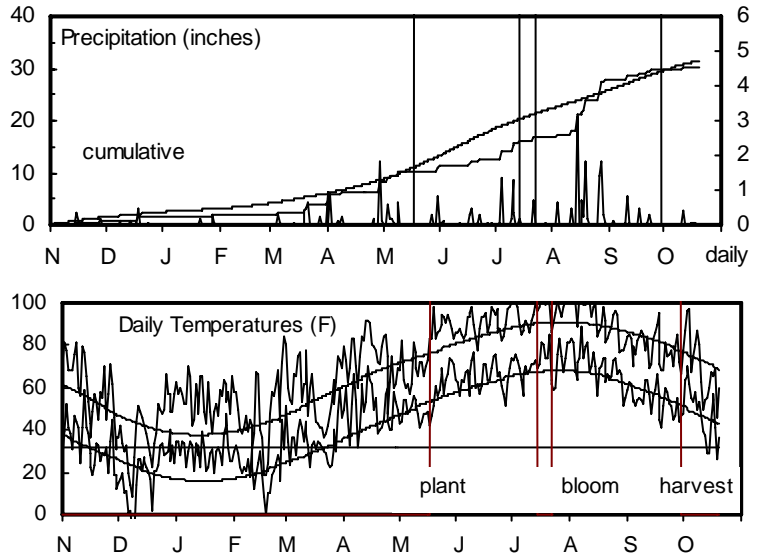


Table 3. Manhattan Grain Sorghum Performance Test, 2004-2006.

BRAND	NAME	YIELD AS %										2005-2006		2006		Days Grain to Blm	Days Grain to Moist. %	Test Wt. lb/bu	Plant Ht. in.	Pop. %	Hds 1000 per Plnt
		ACRE YIELD, BUSHELS					OF TEST AVERAGE			Days Grain to Blm	Days Grain to Moist. %	Test Wt. lb/bu	Plant Ht. in.	Pop. %	Hds 1000 per Plnt						
		2006	2005	2004	2-Yr. AVG.	3-Yr. AVG.	2006	2005	2004												
GARST	5750	95	--	--	--	--	91	--	--	--	--	57	13	55	49	0	69.6	1.0			
MATURITY CHECK	PIO-86G08	101	--	--	--	--	97	--	--	--	--	58	14	55	49	0	71.3	0.9			
PIONEER	85G01	113	113	157	113	128	108	102	102	60	14	60	14	55	48	0	71.8	0.9			
MATURITY CHECK	OK11xTX2741	92	91	143	91	108	87	82	92	61	13	61	12	56	44	0	77.4	0.9			
DEKALB	DKS36-16	100	--	--	--	--	96	--	--	--	--	61	13	55	44	0	79.9	0.9			
PHILLIPS	664	103	--	--	--	--	99	--	--	--	--	61	13	56	44	0	70.5	0.9			
DEKALB	DKS37-07	103	--	--	--	--	99	--	--	--	--	61	14	57	48	0	77.8	0.9			
DYNA-GRO	764B	93	--	--	--	--	89	--	--	--	--	61	14	56	43	0	72.4	0.9			
DEKALB	DKS42-20	99	101	150	100	117	95	91	97	60	14	61	15	57	50	0	73.4	0.9			
DEKALB	DK-44	101	--	--	--	--	97	--	--	--	--	62	13	55	47	0	73.3	0.9			
PIONEER	85Y40	101	--	--	--	--	97	--	--	--	--	62	13	57	47	0	75.3	0.9			
DYNA-GRO	772B	113	--	--	--	--	108	--	--	--	--	62	14	56	50	0	78.1	0.9			
GARST	5401	113	113	165	113	131	108	102	107	62	15	62	14	58	54	0	74.8	0.9			
NC+	7C22	91	--	--	--	--	86	--	--	--	--	62	14	55	48	0	67.1	0.9			
NC+	7R34	117	126	--	121	--	112	113	--	62	15	62	14	58	54	0	74.1	0.9			
PHILLIPS	775	107	114	--	110	--	102	103	--	65	15	62	14	56	49	0	71.3	0.9			
MATURITY CHECK	TX2752xTX430	107	109	172	108	129	102	98	111	64	14	63	13	55	49	0	73.8	0.9			
SORG. PARTNERS	K73-J6	102	108	159	105	123	98	97	103	63	14	63	13	56	48	0	73.8	0.9			
SORG. PARTNERS	NK7655	103	107	156	105	122	99	97	101	63	13	63	13	53	48	0	75.8	0.9			
DYNA-GRO	751B	104	--	--	--	--	99	--	--	--	--	63	14	56	50	0	68.0	0.9			
PIONEER	84G62	119	126	180	122	142	113	113	116	64	15	63	15	57	47	0	70.9	0.9			
ASGROW	A567	122	114	183	118	140	117	103	119	65	14	64	14	58	49	0	72.1	1.0			
DEKALB	DKS53-11	117	111	191	114	140	112	100	123	66	15	64	14	58	50	0	70.8	0.9			
FONTANELLE	GE-5615	103	117	--	110	--	98	105	--	64	14	64	14	57	48	0	69.8	0.9			
PHILLIPS	733Y	97	--	--	--	--	92	--	--	--	--	64	14	57	49	0	67.4	0.8			
GOLDEN ACRES	3552	100	109	--	104	--	95	98	--	64	15	64	15	56	45	0	71.0	0.9			
DEKALB	DKS54-00	111	122	164	116	132	106	110	106	66	15	66	15	56	51	0	77.0	0.9			
	AVERAGES	105	111	155	108	123	105	111	155	63	14	62	14	56	48	0	72.9	0.9			
	CV (%)	5	6	5	--	--	5	6	5	--	--	1	8	2	3	--	4.2	4.3			
	LSD (0.05)*	8	9	12	--	--	7	9	7	--	--	1	2	1	2	0	4.3	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 GRAIN SORGHUM TEST ON SILT LOAM SOIL

North Central Kansas Exp. Field, Belleville; Barney Gordon, agronomist; Michael Larson and Allan Milner, technicians

Crete silt loam; Wheat in 2005

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

Planted on 5/23/2006; Harvested on 10/24/2006

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

Good stands and good early growth. Very hot and dry for most of the summer, but timely rainfall in mid-July and early August during heading.

Month	Precipitation		Average Temp.		GDU	
	2006	Norm.	2006	Norm.	2006	Norm.
Nov.-Mar	3.1	5.1	38	33		
April	2.6	2.4	60	53	768	534
May	2.4	4.0	66	64	969	886
June	1.8	4.5	77	73	1271	1149
July	3.5	3.8	82	79	1459	1368
August	6.3	3.7	79	77	1351	1310
Sept.	4.4	3.9	65	68	896	987
Oct.	0.7	1.5	57	59	439	479
Totals:	24.7	28.7	56	53	7,153	6,713

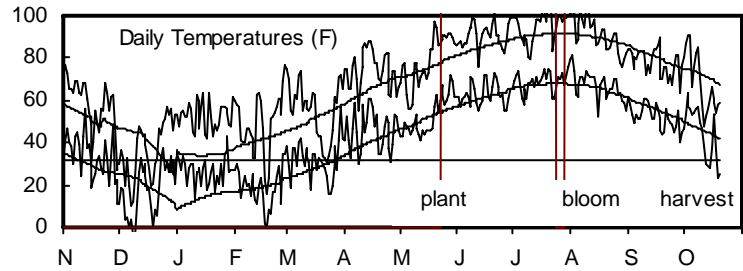
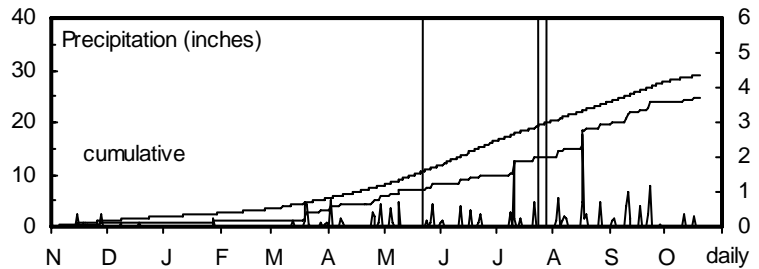


Table 4. Belleville Dryland Grain Sorghum Performance Test, 2004-2006.

BRAND	NAME	YIELD AS % 2005-2006									2006							
		ACRE YIELD, BUSHEL			OF TEST			Days Grain to Blm	Days Grain to Moist.	Test Wt. lb/bu	Plnt Ht. in.	Pop. 1000 ppa	Hds per Plnt					
		2006	2005	2004	2-Yr. AVG.	3-Yr. AVG.	AVERAGE											
DEKALB	DKS36-16	126	--	--	--	--	97	--	--	--	--	61	15	60	41	1	64.8	1.0
DEKALB	DKS37-07	124	--	--	--	--	95	--	--	--	--	62	15	60	46	0	63.3	1.0
MATURITY CHECK	OK11xTX2741	102	113	86	107	100	78	81	77	61	15	62	15	59	42	1	62.1	1.0
MATURITY CHECK	PIO-86G08	130	--	--	--	--	99	--	--	--	--	62	15	59	46	2	61.8	1.0
OHLDE	O-525	131	134	--	133	--	100	97	--	62	15	62	15	59	45	1	60.9	1.0
SORG. PARTNERS	KS 585	137	--	101	--	--	105	--	92	--	--	62	15	60	42	0	64.5	1.0
PIONEER	85G01	136	147	127	141	137	104	105	115	62	14	63	14	59	46	1	63.8	1.0
DYNA-GRO	764B	119	--	--	--	--	91	--	--	--	--	63	15	59	45	0	61.6	1.0
GARST	5750	119	--	115	--	--	91	--	104	--	--	63	15	59	47	0	50.2	1.1
NC+	6B50	124	--	--	--	--	95	--	--	--	--	63	15	59	46	1	59.6	1.0
NC+	7R34	131	135	--	133	--	101	97	--	62	15	63	15	60	50	0	65.5	1.0
PIONEER	85Y40	153	--	--	--	--	117	--	--	--	--	63	15	59	46	1	62.7	1.0
DEKALB	DK-44	128	--	--	--	--	98	--	--	--	--	64	15	59	45	1	57.6	1.1
DEKALB	DKS42-20	132	144	122	138	133	101	104	110	63	15	64	15	60	48	1	61.1	1.0
DYNA-GRO	772B	133	--	--	--	--	102	--	--	--	--	64	15	59	45	1	62.4	1.0
FONTANELLE	GE-5615	140	148	127	144	138	107	107	115	63	15	64	15	59	46	2	51.6	1.0
NC+	7C22	132	150	--	141	--	101	108	--	63	15	64	15	60	48	1	60.5	1.0
OHLDE	X-575	133	--	--	--	--	101	--	--	--	--	64	15	60	50	0	61.8	1.0
SORG. PARTNERS	NK7655	124	146	122	135	131	95	105	110	63	15	64	15	59	46	1	64.6	1.0
TAYLOR	T-36GS	129	--	113	--	--	98	--	103	--	--	64	15	59	46	1	54.0	1.1
TRIUMPH	TR 463	120	--	--	--	--	92	--	--	--	--	64	15	59	47	0	65.0	1.0
ASGROW	A567	133	155	114	144	134	102	111	103	63	15	65	15	60	47	1	54.0	1.0
DEKALB	DKS53-11	137	144	94	141	125	102	104	85	65	15	65	15	60	48	0	55.6	1.0
GARST	5401	130	160	136	145	142	100	115	123	65	15	65	15	60	52	1	65.0	1.0
GOLDEN ACRES	3552	134	131	--	132	--	102	94	--	63	15	65	15	60	47	0	57.3	1.1
MATURITY CHECK	TX2752xTX430	126	129	107	127	121	96	93	97	65	15	65	15	59	48	0	60.9	1.0
OHLDE	O-567	132	133	--	133	--	101	96	--	64	16	65	15	59	45	0	54.2	1.0

Table 4. Belleville Dryland Grain Sorghum Performance Test, 2004-2006 - continued.

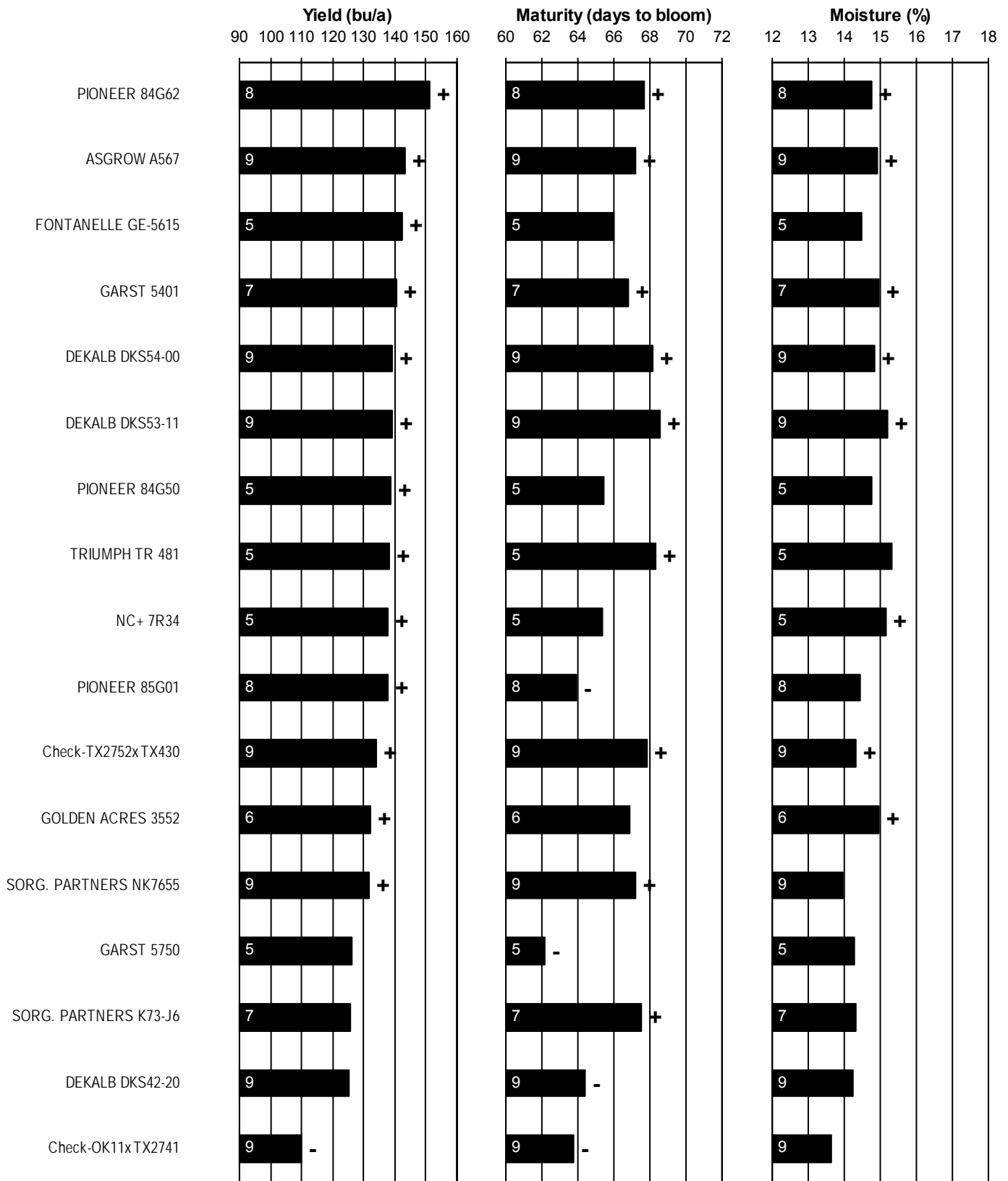
BRAND	NAME	YIELD AS % 2005-2006											2006					
		ACRE YIELD, BUSHELS					OF TEST			Days Grain to Blm	Grain Moist. %	Days Grain to Blm	Grain Moist. %	Test Wt. lb/bu	Plnt Ht. in.	Ldg %	Pop. 1000 ppa	Hds per Plnt
		2006	2005	2004	2-Yr. AVG.	3-Yr. AVG.	2006	2005	2004									
TRIUMPH	TR 481	130	144	131	137	135	99	104	119	64	15	65	15	60	48	0	56.1	1.1
OHLDE	O-595	137	--	--	--	--	104	--	--	--	--	66	15	60	46	0	45.2	1.1
PIONEER	84G62	162	179	125	171	156	124	129	113	65	15	66	15	60	47	0	55.1	1.1
DEKALB	DKS54-00	135	173	122	154	143	103	125	110	66	15	66	16	60	49	0	61.8	1.1
DYNA-GRO	751B	124	--	--	--	--	95	--	--	--	--	66	16	60	49	0	58.0	1.0
	AVERAGES	131	139	111	135	127	131	139	111	63	15	64	15	59	46	0	59.5	1.0
	CV (%)	4	2	8	--	--	4	2	8	--	--	2	1	0	3	171	10.5	3.1
	LSD (0.05)*	9	4	14	--	--	7	3	13	--	--	2	0	0	2	1	10.2	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 5. NORTHEAST Kansas Grain Sorghum Hybrid Yield Summary (% of test avg.), 2006.

BRAND/NAME	NMD*	RLD	RPD	AVG.	BRAND/NAME	NMD	RLD	RPD	AVG.
ASGROW					PHILLIPS				
A567	107	117	102	109	664	--	99	--	--
DEKALB					PIONEER				
DK-44	95	97	98	97	733Y	--	92	--	--
DKS36-16	82	96	97	92	775	--	102	--	--
DKS37-07	94	99	95	96	SORG. PARTNERS				
DKS42-20	85	95	101	94	84G62	105	113	124	114
DKS53-11	110	112	102	108	85G01	112	108	104	108
DKS54-00	97	106	103	102	85Y40	115	97	117	109
DYNA-GRO					TAYLOR				
751B	--	99	95	--	T-36GS	--	--	98	--
764B	--	89	91	--	TRIUMPH				
772B	--	108	102	--	TR 463	--	--	92	--
FONTANELLE					MATURITY CHECK				
GE-5615	--	98	107	--	OK11xTX2741	92	87	78	86
GARST					PIO-86G08				
5401	99	108	100	102	TX2752xTX430	102	102	96	100
5750	116	91	91	99	AVERAGES (bu/a)				
GOLDEN ACRES					CV (%)				
3552	102	95	102	100	LSD (0.05)				
NC+									
6B50	--	--	95	--					
7B51	103	--	--	--					
7C22	--	86	101	--					
7R34	103	112	101	105					
OHLDE									
O-525	--	--	100	--					
O-567	--	--	101	--					
O-595	--	--	104	--					
X-575	--	--	101	--					

* NMD = Nemaha Co., Centralia RLD = Riley Co., Manhatta RPD = Republic Co., Belleville



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, 2004-2006.

SOUTHEAST KANSAS GRAIN SORGHUM TEST ON SILT LOAM SOIL

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

Woodson silt loam; Soybean in 2005

96 - 24 - 12 lb/a N, P, K

Planted on 5/16/2006; Harvested on 9/29/2006

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

All hybrids experienced some degree of lodging, sometimes extensive.

Month	Precipitation		Average Temp.		GDU	
	2006	Norm.	2006	Norm.	2006	Norm.
Nov.-Mar.	5.5	6.5	41	37		
April	4.3	3.0	62	56	823	634
May	3.1	4.3	65	66	949	953
June	1.8	4.8	75	75	1194	1186
July	3.2	4.1	81	80	1423	1401
August	5.5	3.1	81	79	1417	1362
Sept.	1.8	4.2	65	70	897	1062
Oct.	1.1	1.9	57	62	447	535
Totals:	26.3	31.7	58	56	7,150	7,133

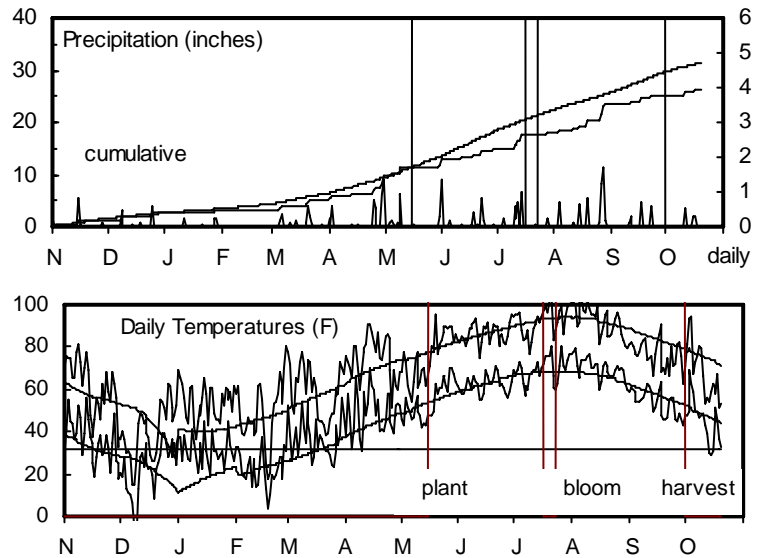


Table 6. Ottawa Grain Sorghum Performance Test, 2004-2006.

BRAND	NAME	YIELD AS % 2005-2006										2006						
		ACRE YIELD, BUSHELS					OF TEST					Days Grain to Blm	Days Grain to Moist. %	Test Wt. lb/bu	Plnt Ht. in.	Pop. %	Hds per Plnt	
		2006	2005	2004	2-Yr. AVG.	3-Yr. AVG.	2006	2005	2004	AVERAGE	2006							2005
GARST	5750	116	--	84	--	--	99	--	88	--	--	60	14	57	53	1	64.5	1.1
MATURITY CHECK	PIO-86G08	118	--	--	--	--	101	--	--	--	--	60	14	58	52	1	58.7	1.1
DYNA-GRO	764B	117	--	--	--	--	101	--	--	--	--	61	14	56	50	5	70.1	1.0
DEKALB	DKS36-16	115	--	--	--	--	99	--	--	--	--	62	14	56	48	7	76.7	0.9
DEKALB	DKS37-07	114	--	--	--	--	98	--	--	--	--	62	14	56	53	8	73.7	0.9
MATURITY CHECK	OK11xTX2741	106	98	103	102	102	91	97	109	67	13	62	14	57	48	0	67.2	1.0
SORG. PARTNERS	NK6673	108	99	99	104	102	93	97	104	67	14	62	14	55	52	10	68.7	1.0
PIONEER	84G50	127	109	93	118	110	109	107	99	68	15	62	15	57	58	3	69.5	1.0
PIONEER	85G01	103	96	92	100	97	89	95	97	67	15	62	16	56	53	14	67.8	1.0
DEKALB	DKS42-20	116	101	91	108	103	100	99	97	67	14	63	15	58	55	3	63.9	1.1
DYNA-GRO	766B	124	--	--	--	--	106	--	--	--	--	63	15	56	53	15	66.6	1.0
DEKALB	DK-44	121	--	--	--	--	104	--	--	--	--	64	14	57	51	2	67.4	1.0
GARST	5401	108	105	--	107	--	93	104	--	69	15	64	15	56	60	10	74.7	1.0
GOLDEN ACRES	3552	110	103	106	106	106	95	101	112	69	15	64	15	58	51	5	69.4	1.0
DYNA-GRO	772B	121	--	--	--	--	104	--	--	--	--	65	16	57	55	7	74.7	1.0
ASGROW	A567	124	108	104	116	112	107	106	110	70	15	66	14	56	54	3	71.6	1.0
MATURITY CHECK	TX2752xTX430	116	102	102	109	106	100	100	107	73	15	66	14	56	54	10	64.3	1.0
PIONEER	84G62	121	107	113	114	114	104	105	119	70	14	66	14	56	52	5	69.9	1.0
DYNA-GRO	751B	118	--	--	--	--	101	--	--	--	--	66	15	56	56	11	54.9	1.3
DYNA-GRO	752B	113	--	--	--	--	97	--	--	--	--	66	15	56	54	15	62.3	1.0
SORG. PARTNERS	NK7633	115	98	--	107	--	99	97	--	71	15	66	15	56	50	7	67.9	1.0
DEKALB	DKS53-11	121	101	95	111	106	104	99	101	72	15	67	14	58	54	3	66.8	1.0
DEKALB	DKS54-00	124	104	96	114	108	107	103	101	70	14	67	15	57	58	11	67.4	1.0
ADVANCED GEN.	A 121	129	101	96	115	109	111	99	101	72	15	68	14	58	51	2	61.7	1.1
ADVANCED GEN.	A 137	108	102	87	105	99	92	100	92	73	15	68	15	57	56	2	61.0	1.0
	AVERAGES	116	101	95	109	104	116	101	95	69	15	64	15	57	53	6	67.2	1.0
	CV (%)	9	6	9	--	--	9	6	9	--	--	1	11	3	2	123	9.0117	
	LSD (0.05)*	15	9	12	--	--	13	9	13	--	--	1	2	3	2	11	8.5	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 GRAIN SORGHUM TEST ON SILTY CLAY SOIL

ImMasche Research Center, Strong City; Kraig Roozeboom, agronomist; Gene Eidman, cooperor

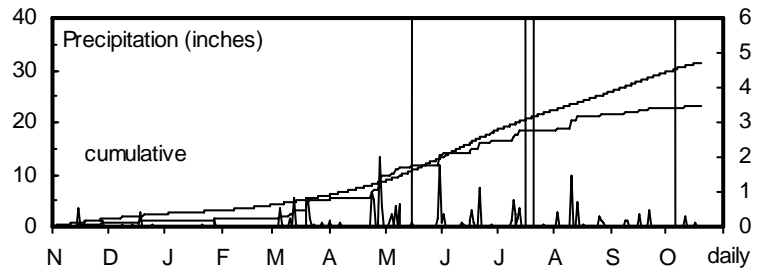
Osage silty clay; Soybean in 2005

130 - 35 - 0 lb/a N, P, K

Planted on 5/16/2006; Harvested on 10/4/2006

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

Uneven emergence due to wet conditions at planting. Applied 35-35-0 2" to side of row at planting.



Month	Precipitation		Average Temp.		GDU	
	2006	Norm.	2006	Norm.	2006	Norm.
Nov.-Mar.	5.3	6.0	39	35		
April	4.5	2.7	60	54	761	563
May	4.0	4.5	66	65	958	909
June	2.6	5.1	74	74	1184	1147
July	2.1	3.9	81	79	1426	1358
August	3.2	3.5	80	77	1417	1315
Sept.	1.2	3.8	65	70	912	1027
Oct.	0.4	2.0	59	60	484	495
Totals:	23.2	31.6	57	54	7,142	6,812

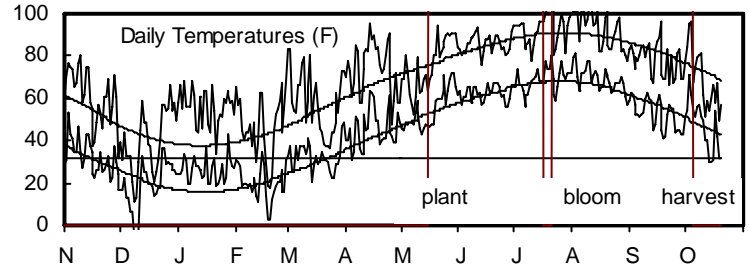


Table 7. Strong City Grain Sorghum Performance Test, 2004-2006.

BRAND	NAME	YIELD AS % 2005-2006										2006								
		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE					Days to Blm	Grain to Moist. %	Days to Blm	Grain to Moist. %	Test Wt. lb/bu	Plant Ht. in.	Pop. %	Hds 1000 ppa	Hds per Plnt
		2006	2005	2004	2-Yr. AVG.	3-Yr. AVG.	2006	2005	2004	2006	2005									
PIONEER	85G46	42	--	--	--	--	102	--	--	--	--	--	60	15	52	44	70	44.2	0.9	
DEKALB	DKS36-16	47	--	--	--	--	113	--	--	--	--	--	62	12	55	42	26	59.6	0.9	
DYNA-GRO	764B	35	--	--	--	--	84	--	--	--	--	--	62	13	54	44	45	53.5	1.0	
DYNA-GRO	766B	44	--	--	--	--	105	--	--	--	--	--	62	14	53	44	49	56.5	0.8	
PIONEER	85G01	41	73	160	57	91	98	105	106	68	13	62	14	52	43	34	53.2	0.9		
SORG. PARTNERS	NK6673	39	67	143	53	83	95	96	95	71	13	62	14	54	44	42	54.1	1.2		
MATURITY CHECK	PIO-86G08	36	--	--	--	--	87	--	--	--	--	--	62	15	52	41	46	41.9	1.2	
PIONEER	85Y40	39	--	--	--	--	94	--	--	--	--	--	62	15	54	45	42	62.7	0.8	
DEKALB	DKS37-07	42	--	--	--	--	102	--	--	--	--	--	62	16	56	43	50	56.5	0.9	
SORG. PARTNERS	KS 585	35	66	143	50	81	84	94	95	68	15	62	16	52	39	44	55.5	0.9		
DEKALB	DKS42-20	41	68	140	54	83	98	98	93	69	15	62	18	53	44	44	50.7	1.1		
DEKALB	DKS54-00	38	73	167	56	93	92	105	111	72	14	63	12	52	47	35	51.8	1.1		
MATURITY CHECK	OK11xTX2741	46	70	116	58	77	111	101	77	69	12	63	13	54	43	27	59.9	0.8		
DEKALB	DK-44	44	--	--	--	--	106	--	--	--	--	--	63	14	53	43	43	47.0	1.0	
DEKALB	DKS53-11	38	68	167	53	91	92	98	111	72	16	63	14	50	45	38	53.2	1.1		
MATURITY CHECK	TX2752xTX430	45	73	156	59	91	108	105	104	72	12	64	10	39	43	39	55.9	0.9		
ADVANCED GEN.	A 121	50	75	147	63	91	120	108	98	72	13	64	12	55	43	40	52.7	0.9		
ASGROW	A567	41	78	161	60	94	99	112	107	72	14	64	13	52	45	38	55.8	0.9		
DYNA-GRO	751B	42	--	--	--	--	100	--	--	--	--	--	64	13	54	43	58	45.7	1.0	
GOLDEN ACRES	3552	43	67	147	55	86	103	97	98	72	14	64	14	53	43	51	56.0	0.8		
ADVANCED GEN.	A 137	45	73	172	59	96	107	104	114	73	14	65	14	54	43	61	51.6	1.0		
	AVERAGES	42	70	150	56	87	42	70	150	71	14	63	14	52	43	44	53.2	1.0		
	CV (%)	15	6	5	--	--	15	6	5	--	--	1	15	11	3	45	10.6	10.6		
	LSD (0.05)*	9	6	10	--	--	22	9	7	--	--	1	3	8	2	28	8.0	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.

SOUTHEAST KANSAS GRAIN SORGHUM TEST ON SILT LOAM SOIL

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

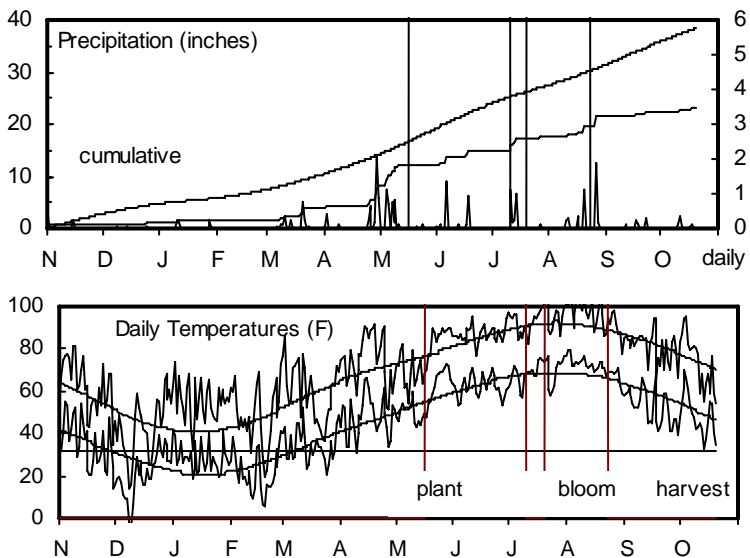
Parsons silt loam; Soybean in 2005

93 - 60 - 100 lb/a N, P, K

Planted on 5/17/2006; Harvested on 8/22/2006

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

Lodging just before harvest due to Fusarium and charcoal rot. Excellent stand and emergence because of rains the week before planting.



Month	Precipitation		Average Temp.		GDU	
	2006	Norm.	2006	Norm.	2006	Norm.
Nov.-Mar.	3.9	10.5	41	40		
April	4.6	3.7	62	57	802	668
May	3.9	5.0	67	66	994	952
June	2.6	4.8	75	74	1190	1178
July	2.7	3.5	81	80	1430	1385
August	4.1	3.9	83	79	1493	1345
Sept.	0.8	4.5	67	71	949	1075
Oct.	0.7	2.6	62	62	532	542
Totals:	23.0	38.4	58	57	7,390	7,143

Table 8. Parsons Grain Sorghum Performance Test, 2004-2006.

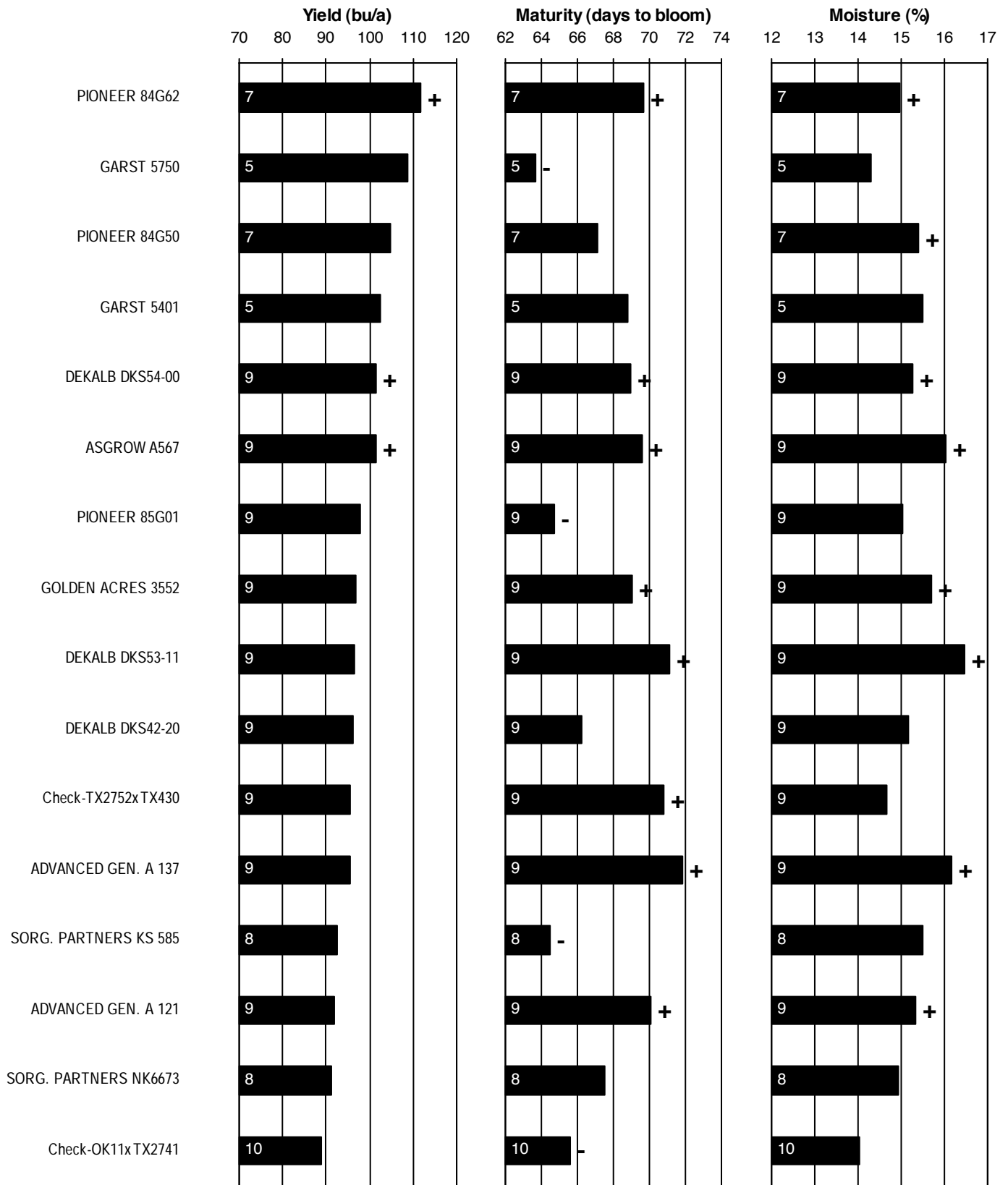
BRAND	NAME	YIELD AS % 2005-2006											2006					
		ACRE YIELD, BUSHELS					OF TEST			Days Grain to Blm	Days Grain to Moist.	Days Grain to Moist.	Test Wt.	Plant Ht.	Pop. Ldg	Hds per 1000 ppa		
		2006	2005	2004	2-Yr. AVG.	3-Yr. AVG.	2006	2005	2004								AVERAGE	
GARST	5750	86	138	128	112	118	134	135	102	57	14	54	14	58	--	0	--	1.3
SORG. PARTNERS	KS 585	80	105	117	92	100	124	102	93	57	14	54	14	59	--	0	--	1.2
DEKALB	DKS37-07	66	--	--	--	--	103	--	--	--	--	56	14	57	--	0	--	1.2
MATURITY CHECK	PIO-86G08	52	--	--	--	--	80	--	--	--	--	56	14	55	--	2	--	1.6
PIONEER	85G01	70	112	137	91	106	108	109	109	58	14	56	14	57	--	1	--	1.2
DEKALB	DKS36-16	72	--	--	--	--	111	--	--	--	--	56	15	57	--	0	--	1.1
DYNA-GRO	764B	66	--	--	--	--	103	--	--	--	--	57	14	57	--	3	--	1.2
SORG. PARTNERS	X505	65	--	--	--	--	100	--	--	--	--	58	13	56	--	1	--	1.0
DYNA-GRO	766B	67	--	--	--	--	104	--	--	--	--	58	14	57	--	1	--	1.1
MATURITY CHECK	OK11xTX2741	58	75	122	66	85	90	73	97	59	15	58	14	57	--	1	--	1.1
PIONEER	85G46	61	--	--	--	--	94	--	--	--	--	58	14	57	--	6	--	1.1
DEKALB	DK-44	70	--	--	--	--	109	--	--	--	--	59	14	57	--	1	--	1.1
DEKALB	DKS42-20	75	109	126	92	103	116	106	100	61	14	59	14	56	--	0	--	1.2
GOLDEN ACRES	3552	68	109	121	88	99	105	106	97	63	14	60	14	56	--	1	--	1.1
DYNA-GRO	751B	46	--	--	--	--	72	--	--	--	--	60	15	57	--	22	--	1.1
NC+	7B51	68	--	--	--	--	105	--	--	--	--	60	15	56	--	1	--	1.3
NC+	7R34	74	117	129	95	107	114	114	103	64	15	60	15	59	--	1	--	1.1
PIONEER	85Y40	58	--	--	--	--	90	--	--	--	--	60	15	57	--	22	--	1.2
DYNA-GRO	772B	72	--	--	--	--	111	--	--	--	--	60	16	56	--	2	--	1.3
NC+	7B47	72	104	--	88	--	112	101	--	64	15	61	15	59	--	0	--	1.5
ASGROW	A567	66	89	143	78	99	103	87	113	65	16	61	16	57	--	1	--	1.1
DEKALB	DKS53-11	60	92	130	76	94	93	90	103	66	16	61	16	56	--	0	--	1.1
ADVANCED GEN.	A 121	50	66	115	58	77	78	64	91	65	15	62	15	55	--	1	--	1.3
DEKALB	DKS54-00	64	104	145	84	104	99	101	115	64	15	62	15	54	--	1	--	1.1
MATURITY CHECK	TX2752xTX430	46	87	135	67	90	72	85	107	66	14	62	15	55	--	16	--	1.1
GARST	5401	60	124	--	92	--	93	120	--	65	16	62	17	58	--	0	--	1.3
ADVANCED GEN.	A 137	49	108	117	78	91	76	105	93	67	16	64	18	57	--	1	--	1.2
	AVERAGES	64	103	126	84	98	64	103	126	62	15	59	15	57	--	3	--	1.2
	CV (%)	9	9	8	--	--	9	9	8	--	--	1	4	1	--	132	--	10.1
	LSD (0.05)*	8	13	14	--	--	12	13	12	--	--	1	1	1	--	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.

Table 9. SOUTHEAST Kansas Grain Sorghum Hybrid Yield Summary (% of test avg.), 2006.

BRAND/NAME	FRD *	CHD	LBD	AVG.	BRAND/NAME	FRD	CHD	LBD	AVG.
ADVANCED GEN.					NC+				
A 121	111	120	78	103	7B47	--	--	112	--
A 137	92	107	76	92	7B51	--	--	105	--
ASGROW					PIONEER				
A567	107	99	103	103	84G50	109	--	--	--
DEKALB					SORG. PARTNERS				
DK-44	104	106	109	106	KS 585	--	84	124	--
DKS36-16	99	113	111	108	NK6673	93	95	--	--
DKS37-07	98	102	103	101	NK7633	99	--	--	--
DKS42-20	100	98	116	105	X505	--	--	100	--
DKS53-11	104	92	93	96	MATURITY CHECK				
DKS54-00	107	92	99	99	OK11xTX2741	91	111	90	97
DYNA-GRO					PIO-86G08	101	87	80	89
751B	101	100	72	91	TX2752xTX430	100	108	72	93
752B	97	--	--	--	AVERAGES (bu/a)	116	42	64	74
764B	101	84	103	96	CV (%)	9	15	9	--
766B	106	105	104	105	LSD (0.05)	13	22	12	--
772B	104	--	111	--					
GARST									
5401	93	--	93	--					
5750	99	--	134	--					
GOLDEN ACRES									
3552	95	103	105	101					

* 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, 2004-2006.

CENTRAL KANSAS DRYLAND GRAIN SORGHUM TEST ON SANDY LOAM SOIL

Clayton Short farm; Kraig Roozeboom, agronomist

Hord silt loam; Soybean in 2005

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

Planted on 5/22/2006; Harvested on 10/5/2006

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

Good early growth. Very hot and dry from June through July, and did not receive much of the beneficial rain in August.

Month	Precipitation		Average Temp.		GDU	
	2006	Norm.	2006	Norm.	2006	Norm.
Nov.-Mar	5.0	6.9	38	37		
April	3.5	3.0	58	55	696	593
May	1.9	5.1	65	65	923	923
June	4.0	4.2	76	75	1248	1211
July	1.0	4.3	82	81	1473	1431
August	9.3	3.5	81	80	1421	1394
Sept.	2.2	2.5	65	71	904	1072
Oct.	0.5	1.7	59	61	483	521
Totals:	27.3	31.3	57	56	7,148	7,145

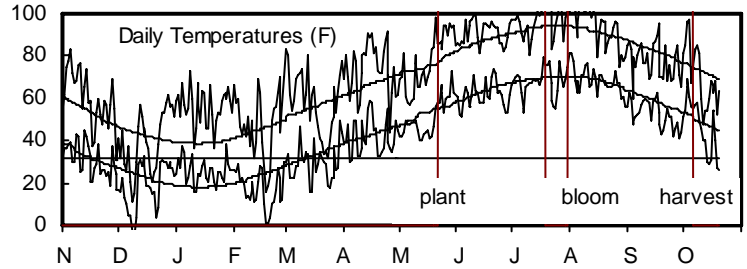
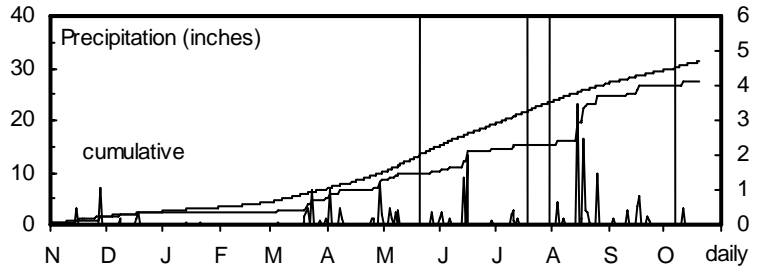


Table 10. Assaria Dryland Grain Sorghum Performance Test, 2004-2006.

BRAND	NAME	YIELD AS % 2005-2006								2006								
		ACRE YIELD, BUSHELS				OF TEST				Days Grain to Blm	Grain Moist. %	Days Grain to Blm	Grain Moist. %	Test Wt. lb/bu	Pnt Ht. in.	Pop. %	Hds 1000 ppa	Hds per Pnt
		2006	2005	2004	2-Yr. AVG.	3-Yr. AVG.	2006	2005	2004									
ASGROW	PULSAR	74	99	--	86	--	103	107	--	60	15	56	16	53	39	0	61.6	1.1
MATURITY CHECK	PIO-86G08	84	--	--	--	--	118	--	--	--	--	57	16	54	40	0	53.9	1.1
DEKALB	DKS37-07	66	79	--	73	--	93	85	--	61	15	58	14	56	42	0	52.6	1.1
GARST	5750	76	98	--	87	--	107	106	--	61	14	58	15	55	42	0	48.3	1.2
SORG. PARTNERS	NK4420	82	61	--	71	--	115	65	--	62	14	60	14	57	36	0	59.5	1.0
TRIUMPH	TR 438	69	108	--	89	--	97	117	--	61	13	60	14	55	40	0	57.9	1.0
FRONTIER	F270E	60	--	--	--	--	84	--	--	--	--	60	16	55	33	0	54.0	1.0
DEKALB	DKS42-20	70	90	--	80	--	99	98	--	63	15	61	15	56	40	0	49.1	1.1
DEKALB	DKS36-16	69	--	--	--	--	96	--	--	--	--	61	16	53	36	0	53.7	1.0
OHLDE	O-525	65	107	--	86	--	91	116	--	64	12	62	14	54	38	0	54.4	1.0
DEKALB	DK-44	72	--	--	--	--	101	--	--	--	--	62	15	56	39	0	53.2	1.0
OHLDE	O-530	72	89	--	81	--	101	96	--	64	14	62	15	55	36	0	57.2	1.0
PHILLIPS	672	70	--	--	--	--	99	--	--	--	--	62	15	54	39	0	51.3	1.1
SORG. PARTNERS	NK6673	68	76	--	72	--	95	82	--	64	14	62	15	54	40	0	49.6	1.1
MATURITY CHECK	OK11xTX2741	61	76	--	68	--	86	82	--	62	14	62	16	54	38	0	52.4	1.0
PIONEER	85G01	69	91	--	80	--	96	98	--	63	16	62	18	53	40	0	53.5	0.9
PIONEER	85Y40	75	--	--	--	--	105	--	--	--	--	63	15	55	41	0	55.5	1.0
DYNA-GRO	764B	76	--	--	--	--	106	--	--	--	--	64	15	55	39	0	52.6	1.0
PHILLIPS	664	75	--	--	--	--	105	--	--	--	--	65	14	56	38	0	46.1	1.1
GARST	5401	78	92	--	85	--	110	99	--	66	14	65	15	55	43	0	55.7	1.0
DYNA-GRO	772B	80	--	--	--	--	111	--	--	--	--	66	14	56	41	0	53.6	1.0
PIONEER	84G62	74	105	--	90	--	104	113	--	67	13	66	14	55	41	0	54.2	0.9
PHILLIPS	733Y	72	--	--	--	--	101	--	--	--	--	66	15	54	39	0	53.9	0.9

Table 10. Assaria Dryland Grain Sorghum Performance Test, 2004-2006 - continued.

BRAND	NAME	YIELD AS % 2005-2006										2006								
		ACRE YIELD, BUSHELS					OF TEST					Days to Blm	Grain %	Days to Blm	Grain %	Test Wt. lb/bu	Pint Ht. in.	Ldg %	Pop. 1000 ppa	Hds per Pint
		2006	2005	2004	2-Yr. AVG.	3-Yr. AVG.	2006	2005	2004	AVERAGE										
OHLDE	O-567	68	84	--	76	--	95	91	--	68	14	67	16	56	38	0	56.7	0.8		
DEKALB	DKS54-00	76	122	--	99	--	106	132	--	67	15	68	15	54	43	0	52.0	1.0		
DYNA-GRO	751B	66	--	--	--	--	93	--	--	--	--	68	17	52	41	0	46.5	0.9		
MATURITY CHECK	TX2752xTX430	62	87	--	74	--	86	94	--	68	14	69	15	54	40	0	52.3	0.9		
TRIUMPH	TR 481	68	95	--	81	--	96	102	--	68	13	69	15	56	42	0	45.6	1.0		
TRIUMPH	TR 463	73	105	--	89	--	102	113	--	69	12	70	14	55	39	0	49.8	0.8		
	AVERAGES	71	93	--	82	--	71	93	--	64	14	63	15	55	39	0	53.0	1.0		
	CV (%)	11	14	--	--	--	11	14	--	--	--	2	18	4	3	--	10.4	9.4		
	LSD (0.05)*	11	27	--	--	--	16	30	--	--	--	2	4	3	2	0	7.7	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.

CENTRAL KANSAS GRAIN SORGHUM TEST ON SILTY CLAY LOAM SOIL

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

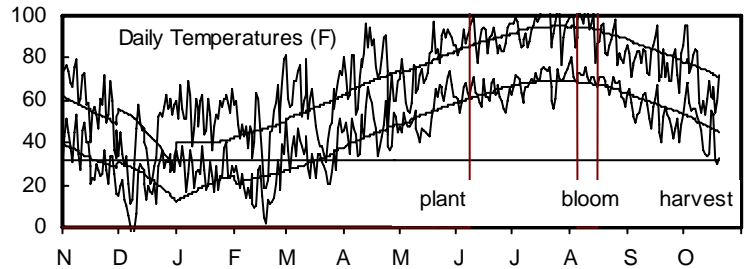
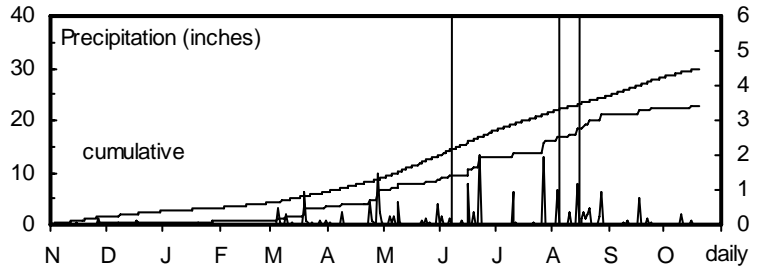
Ladysmith silty clay loam; Soybean in 2005

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

Planted on 6/8/2006; Harvested on 10/20/2006

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

June, July, and August had extended periods of extreme heat and below-normal rainfall. Moderate temperatures and rainfall in late August greatly benefited the crop. There were a few cases of neck rot observed. Despite mid-season stress, yields were very good.



Month	Precipitation		Average Temp.		GDU	
	2006	Norm.	2006	Norm.	2006	Norm.
Nov.-Mar	3.4	6.0	40	37		
April	3.1	2.7	60	56	766	631
May	2.2	4.3	66	66	966	952
June	4.0	4.8	76	76	1233	1216
July	3.1	3.8	82	81	1465	1431
August	5.1	3.1	80	80	1387	1381
Sept.	1.2	3.6	66	71	921	1079
Oct.	0.4	1.6	60	62	490	542
Totals:	22.6	29.8	57	56	7,228	7,232

Table 11. Hesston Grain Sorghum Performance Test, 2004-2006.

BRAND	NAME	YIELD AS % 2005-2006										2006							
		ACRE YIELD, BUSHELS					OF TEST					Days to Blm	Grain to Moist. %	Days to Blm	Grain to Moist. %	Test Wt. lb/bu	Planting Ht. in.	Pop. Ldg %	Hds per 1000 ppa
		2006	2005	2004	2-Yr. AVG.	3-Yr. AVG.	2006	2005	2004	AVERAGE									
ASGROW	PULSAR	96	86	88	91	90	87	82	89	57	15	56	15	57	39	0	39.3	1.2	
MATURITY CHECK	PIO-86G08	101	--	--	--	--	92	--	--	--	--	56	15	57	46	0	38.8	1.3	
GARST	5750	101	85	99	93	95	92	81	100	56	14	57	15	58	43	0	32.1	1.5	
PIONEER	85G46	107	107	--	107	--	97	102	--	59	15	59	16	58	46	0	36.5	1.1	
DEKALB	DKS36-16	99	--	--	--	--	89	--	--	--	--	60	15	57	41	0	37.5	1.2	
DEKALB	DKS37-07	102	101	101	101	101	92	96	102	58	15	60	15	59	46	0	38.2	1.2	
NC+	6B50	103	--	--	--	--	94	--	--	--	--	60	15	58	44	0	34.9	1.1	
PIONEER	85Y40	134	--	--	--	--	121	--	--	--	--	60	16	58	48	0	36.0	1.2	
ADVANCED GEN.	A 115C	105	108	100	106	104	95	102	101	61	15	61	15	59	40	1	36.5	1.1	
MATURITY CHECK	OK11xTX2741	102	87	97	94	95	92	83	97	61	14	61	15	58	42	0	38.9	1.1	
DEKALB	DKS42-20	106	114	107	110	109	96	109	108	60	15	61	16	59	46	0	30.5	1.5	
DYNA-GRO	764B	113	--	--	--	--	102	--	--	--	--	61	16	58	44	0	37.4	1.2	
FONTANELLE	GE-4532	126	116	--	121	--	114	111	--	62	15	61	16	58	45	0	35.6	1.2	
MIDLAND	MG4748	122	120	118	121	120	110	114	119	61	15	61	16	58	45	0	37.4	1.2	
PIONEER	84G62	124	113	109	119	115	112	108	110	63	15	61	16	58	45	0	35.3	1.1	
ADVANCED GEN.	A 110	108	--	--	--	--	98	--	--	--	--	62	15	58	43	0	31.2	1.3	
GARST	5401	113	114	116	114	114	102	109	117	62	14	62	15	59	50	0	38.6	1.3	
OHLDE	X-575	122	--	--	--	--	110	--	--	--	--	62	15	60	48	0	36.9	1.2	
DEKALB	DK-44	100	--	--	--	--	91	--	--	--	--	62	16	59	45	0	35.7	1.2	
DYNA-GRO	772B	128	--	--	--	--	116	--	--	--	--	62	16	59	46	0	40.4	1.1	
NC+	7R34	121	--	--	--	--	110	--	--	--	--	62	16	60	50	0	36.6	1.4	
DYNA-GRO	751B	112	--	--	--	--	101	--	--	--	--	63	16	59	46	1	36.3	1.0	

Table 11. Hesston Grain Sorghum Performance Test, 2004-2006 - continued.

BRAND	NAME	YIELD AS % 2005-2006									2006								
		ACRE YIELD, BUSHELS					OF TEST				Days to Blm	Grain to Moist. %	Days to Blm	Grain to Moist. %	Test Wt. lb/bu	Pint in.	Ldg %	Pop. 1000 ppa	Hds per Pint
		2006	2005	2004	2-Yr. AVG.	3-Yr. AVG.	2006	2005	2004	AVERAGE									
MATURITY CHECK	TX2752xTX430	119	95	93	107	103	108	91	94	66	15	63	16	57	44	0	37.8	1.1	
MIDLAND	MG4665	111	118	107	115	112	101	112	108	63	15	63	16	58	44	1	35.0	1.3	
MIDLAND	MG4772	124	113	--	119	--	112	108	--	64	15	63	16	59	46	1	36.7	1.1	
OHLDE	O-567	103	105	--	104	--	93	100	--	62	15	63	16	58	43	0	37.1	1.1	
SORG. PARTNERS	X505	97	--	--	--	--	88	--	--	--	--	64	15	58	40	0	39.1	1.0	
ADVANCED GEN.	A 121	113	81	85	97	93	102	78	85	64	15	64	16	58	44	0	32.8	1.2	
FONTANELLE	GE-5615	113	124	--	119	--	102	118	--	64	15	64	16	59	46	1	33.4	1.1	
ADVANCED GEN.	A 137	116	109	103	113	109	105	104	104	65	15	65	16	59	45	0	31.8	1.2	
DEKALB	DKS54-00	101	130	97	115	109	91	123	98	66	15	65	16	57	49	2	35.8	1.2	
OHLDE	O-595	115	--	--	--	--	104	--	--	--	--	66	16	58	46	0	34.7	1.3	
TRIUMPH	TR 463	109	--	--	--	--	99	--	--	--	--	66	16	58	46	0	37.5	1.2	
SORG. PARTNERS	NK7633	88	87	94	87	89	79	83	94	67	16	69	17	57	47	0	35.0	1.2	
	AVERAGES	110	105	99	108	105	110	105	99	62	15	62	16	58	45	0	36.1	1.2	
	CV (%)	6	8	10	--	--	6	8	10	--	--	2	2	1	3	257	6.5	8.5	
	LSD (0.05)*	11	14	16	--	--	10	13	16	--	--	2	0	1	2	1	3.8	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.

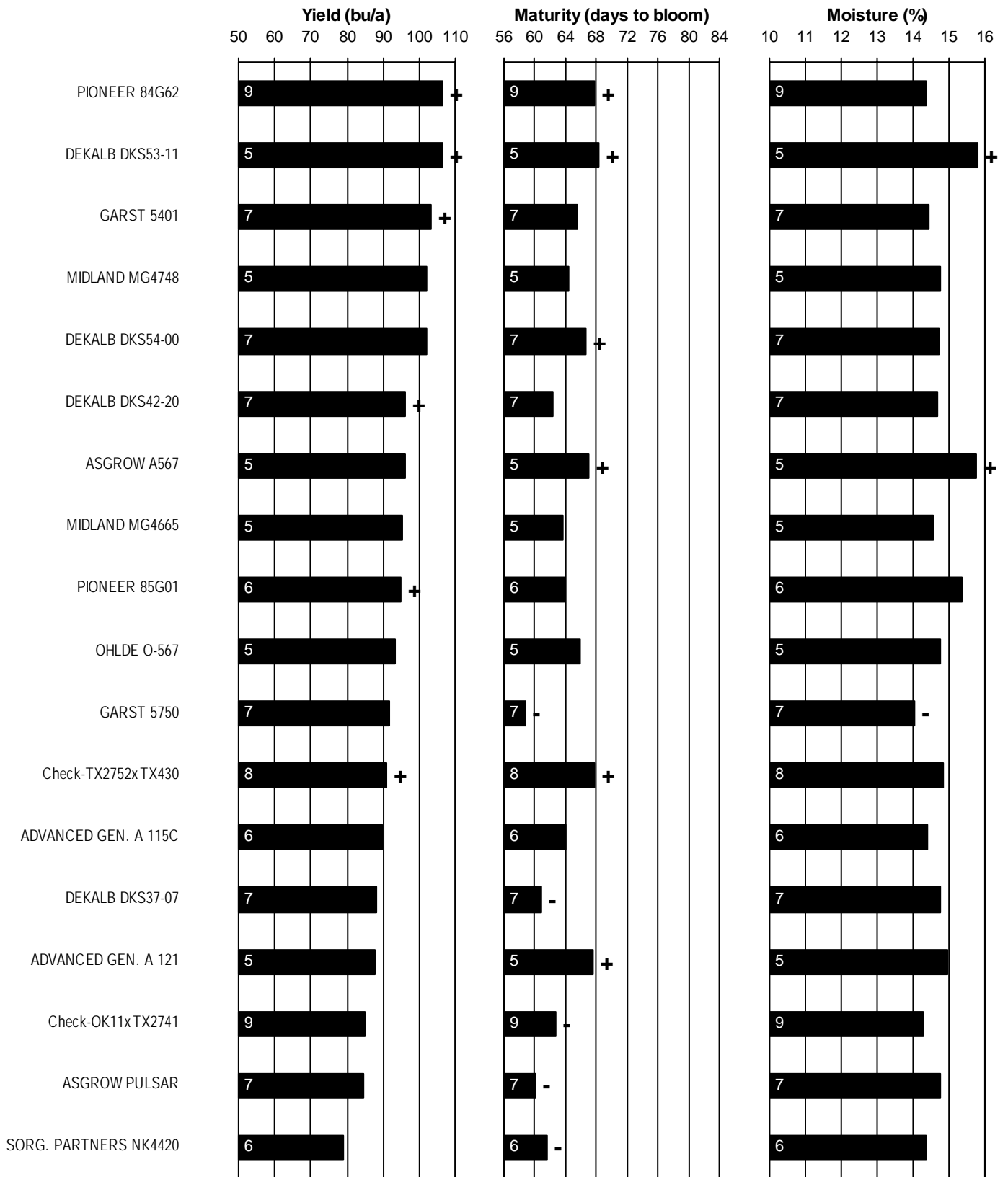
Table 12. CENTRAL Kansas Sorghum Hybrid Yield Summary (% of test avg.), 2006.

BRAND/NAME	SAD*	HVD	RND	AVG.	BRAND/NAME	SAD	HVD	RND	AVG.
ADVANCED GEN.					PHILLIPS				
A 110	--	98	--	--	664	105	--	--	--
A 115C	--	95	--	--	672	99	--	--	--
A 121	--	102	--	--	733Y	101	--	--	--
A 137	--	105	--	--	<hr/>				
ASGROW					PIONEER				
PULSAR	103	87	--	95	84G62	104	112	--	108
<hr/>					85G01	96	--	--	--
DEKALB					85G46	--	97	--	--
DK-44	101	91	--	96	85Y40	105	121	--	113
DKS36-16	96	89	--	93	<hr/>				
DKS37-07	93	92	--	93	SORG. PARTNERS				
DKS42-20	99	96	--	97	NK4420	115	--	--	--
DKS54-00	106	91	--	99	NK6673	95	--	--	--
<hr/>					NK7633	--	79	--	--
DYNA-GRO					X505	--	88	--	--
751B	93	101	--	97	<hr/>				
764B	106	102	--	104	TRIUMPH				
772B	111	116	--	114	TR 438	97	--	--	--
<hr/>					TR 463	102	99	--	101
FONTANELLE					TR 481	96	--	--	--
GE-4532	--	114	--	--	<hr/>				
GE-5615	--	102	--	--	MATURITY CHECK				
<hr/>					OK11xTX2741	86	92	--	89
FRONTIER					PIO-86G08	118	92	--	105
F270E	84	--	--	--	TX2752xTX430	86	108	--	97
<hr/>					<hr/>				
GARST					AVERAGES (bu/a)	71	110	--	91
5401	110	102	--	106	CV (%)	11	6	--	--
5750	107	92	--	99	LSD (0.05)	16	10	--	--
<hr/>					<hr/>				
MIDLAND									
MG4665	--	101	--	--					
MG4748	--	110	--	--					
MG4772	--	112	--	--					
<hr/>									
NC+									
6B50	--	94	--	--					
7R34	--	110	--	--					
<hr/>									
OHLDE									
O-525	91	--	--	--					
O-530	101	--	--	--					
O-567	95	93	--	94					
O-595	--	104	--	--					
X-575	--	110	--	--					

* SAD = Saline Co., Assaria

HVD = Harvey Co., Hesston

RND = Reno Co., Hutchinson, abandoned



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, 2004-2006.

WEST KANSAS GRAIN SORGHUM TEST ON SILT LOAM SOIL

Agricultural Research Center, Hays; Kenneth Kofoid, agronomist

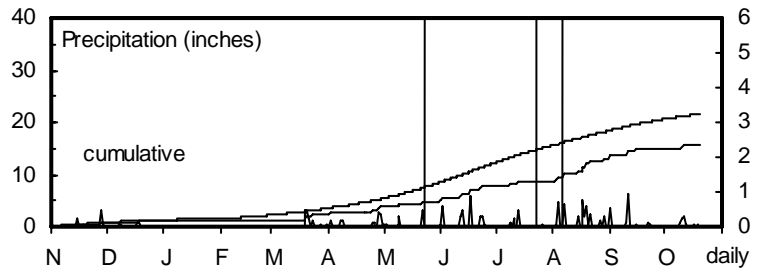
Harney silt loam; Soybean in 2005

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

Planted on 5/24/2006; Harvested on 11/9/2006

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

Growing season was very hot and fairly dry. Subsoil moisture was poor all season long. Flowering was erratic. Rains in August caused profuse tillering, but tillers were not very productive.



Month	Precipitation		Average Temp.		GDU	
	2006	Norm.	2006	Norm.	2006	Norm.
Nov.-Mar	2.4	3.5	38	33		
April	1.5	1.8	59	51	741	478
May	1.1	3.1	66	62	972	833
June	3.0	3.8	77	72	1264	1109
July	0.9	3.4	83	78	1493	1344
August	4.3	2.8	79	76	1353	1286
Sept.	1.9	2.2	63	68	851	984
Oct.	0.8	1.0	57	58	438	454
Totals:	15.8	21.6	56	52	7,112	6,488

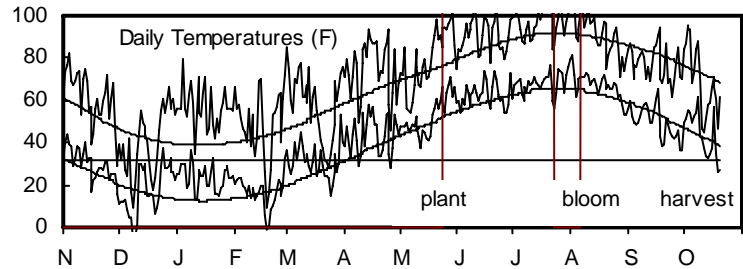


Table 13. Hays Grain Sorghum Performance Test, 2004-2006.

BRAND	NAME	YIELD AS % 2005-2006										2006						
		ACRE YIELD, BUSHEL					OF TEST			Days Grain to Blm	Days Grain to Moist.	Test Wt. lb/bu	Plant Ht. in.	Pop. Ldg 1000 ppa	Hds per Plnt			
		2006	2005	2004	2-Yr. AVG.	3-Yr. AVG.	AVERAGE	2006	2005							2004		
MATURITY CHECK	PIO-86G08	77	75	132	76	95	126	106	110	60	12	60	11	56	33	--	--	--
ASGROW	PULSAR	55	60	125	58	80	91	85	104	61	12	61	11	56	29	--	--	--
DYNA-GRO	X1734	44	--	--	--	--	73	--	--	--	--	61	11	55	27	--	--	--
GARST	5750	46	63	128	55	79	76	90	106	60	12	61	11	54	30	--	--	--
TRIUMPH	TR 438	66	69	128	68	88	109	99	107	61	12	61	11	58	34	--	--	--
FRONTIER	F222E	55	--	--	--	--	90	--	--	--	--	62	12	54	29	--	--	--
DEKALB	DKS37-07	77	71	130	74	92	126	101	108	62	12	63	11	57	31	--	--	--
DYNA-GRO	766B	34	--	--	--	--	56	--	--	--	--	63	11	55	34	--	--	--
PHILLIPS	672	61	70	--	65	--	101	100	--	64	12	63	11	57	34	--	--	--
FRONTIER	F270E	38	--	--	--	--	62	--	--	--	--	64	11	57	29	--	--	--
MYCOGEN	1G600	70	75	137	73	94	116	107	114	63	12	64	12	54	31	--	--	--
PIONEER	85G46	61	84	--	72	--	100	120	--	63	14	64	12	60	36	--	--	--
DEKALB	DKS35-70	86	80	--	83	--	142	114	--	63	13	65	11	59	29	--	--	--
OHLDE	O-525	69	76	--	72	--	113	109	--	63	12	65	11	57	32	--	--	--
MYCOGEN	627	63	78	114	71	85	104	111	95	66	13	65	12	56	33	--	--	--
OHLDE	O-530	54	81	--	67	--	89	115	--	66	11	66	10	56	30	--	--	--
DYNA-GRO	764B	54	--	--	--	--	89	--	--	--	--	66	11	57	27	--	--	--
GOLDEN ACRES	EXP 2650	35	--	--	--	--	58	--	--	--	--	66	11	55	31	--	--	--
MATURITY CHECK	OK11xTX2741	42	69	112	56	74	69	98	93	64	12	66	11	58	31	--	--	--
MYCOGEN	M3838	67	73	--	70	--	110	104	--	66	12	66	11	57	30	--	--	--
PHILLIPS	664	66	--	--	--	--	109	--	--	--	--	66	12	57	33	--	--	--
PIONEER	85Y40	78	--	--	--	--	128	--	--	--	--	66	12	57	35	--	--	--
SORG. PARTNERS	KS 585	50	68	118	59	79	82	97	98	64	12	66	12	57	29	--	--	--
DYNA-GRO	772B	73	--	--	--	--	120	--	--	--	--	67	11	56	34	--	--	--
PIONEER	85G01	55	80	142	67	92	91	113	119	66	13	67	11	58	34	--	--	--
OHLDE	X-575	80	--	--	--	--	132	--	--	--	--	67	12	61	35	--	--	--

Table 13. Hays Grain Sorghum Performance Test, 2004-2006 - continued.

BRAND	NAME	YIELD AS % 2005-2006											2006					
		ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			Days Grain to Moist.		Days Grain to Moist.		Test Plnt		Pop. 1000 ppa	Hds per Plnt	
		2006	2005	2004	2-Yr. AVG.	3-Yr. AVG.	2006	2005	2004	Blm	%	Blm	%	lb/bu	in.			
GARST	5401	96	74	132	85	101	157	106	110	68	14	68	12	59	35	--	--	--
PHILLIPS	733Y	58	--	--	--	--	96	--	--	--	--	69	11	57	31	--	--	--
OHLDE	O-567	87	79	--	83	--	143	112	--	68	13	69	12	59	33	--	--	--
FRONTIER	F505E	59	--	--	--	--	97	--	--	--	--	70	12	56	32	--	--	--
TRIUMPH	TR 463	54	--	--	--	--	88	--	--	--	--	70	12	56	30	--	--	--
MATURITY CHECK	TX2752xTX430	65	57	130	61	84	107	81	108	71	12	72	12	54	33	--	--	--
SORG. PARTNERS	NK7633	34	75	135	54	81	55	107	113	71	14	74	12	54	31	--	--	--
DYNA-GRO	751B	58	--	--	--	--	95	--	--	--	--	75	12	57	33	--	--	--
	AVERAGES	61	70	120	65	84	61	70	120	65	12	66	11	57	32	--	--	--
	CV (%)	13	9	10	--	--	13	9	10	--	--	2	6	4	8	--	--	--
	LSD (0.05)*	13	10	19	--	--	21	14	16	--	--	2	1	3	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.

WEST KANSAS FALLOW GRAIN SORGHUM TEST ON SILT LOAM SOIL

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

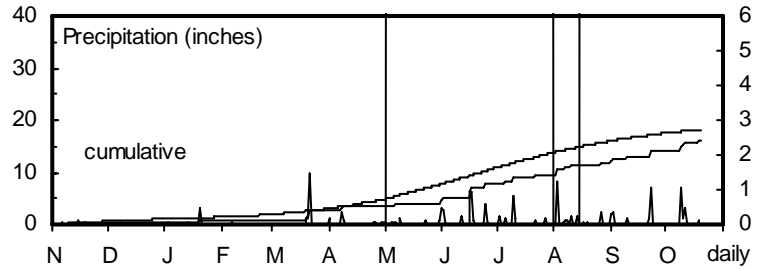
Keith silt loam; Fallow in 2005

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

Planted on 5/2/2006; Harvested on 10/25/2006

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

Crusting after a heavy rain caused stand reductions. Growing-season temperatures and rainfall were near normal.



Month	Precipitation		Average Temp.		GDU	
	2006	Norm.	2006	Norm.	2006	Norm.
Nov.-Mar	2.9	3.0	37	32		
April	0.6	1.8	54	49	570	421
May	1.0	3.1	64	60	895	762
June	3.2	3.0	74	70	1182	1054
July	1.7	3.1	79	76	1381	1285
August	2.4	2.2	75	74	1230	1216
Sept.	2.1	1.5	61	65	775	910
Oct.	2.0	0.6	54	56	376	410
Totals:	16.0	18.3	54	51	6,409	6,058

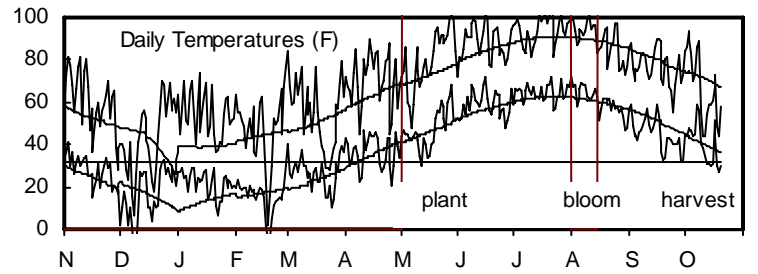


Table 14. Colby Fallow Grain Sorghum Performance Test, 2004-2006.

BRAND	NAME	YIELD AS % 2005-2006											2006					
		ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			Days Grain to Moist.		Days Grain to Moist.		Test Plnt		Pop. Hds		
		2006	2005	2004	2-Yr. AVG.	3-Yr. AVG.	2006	2005	2004	Blm	%	Blm	%	Lb/bu	in.	%	Ldg	1000 per ppa
SORG. PARTNERS	KS 310	74	78	62	76	71	88	107	124	65	12	66	13	55	35	0	27.8	1.3
NC+	5B89	79	88	--	84	--	95	121	--	68	13	67	14	56	37	1	24.6	1.7
DYNA-GRO	720B	64	65	--	65	--	77	89	--	67	11	68	11	51	34	1	24.1	1.9
SORG. PARTNERS	NK3303	69	--	--	--	--	83	--	--	--	--	68	13	58	36	0	16.1	1.7
GARST	5750	73	67	62	70	68	88	92	125	69	13	68	14	57	39	0	24.1	1.7
MATURITY CHECK	PIO-86G08	88	85	46	87	73	106	117	92	70	13	69	14	57	36	2	24.7	1.7
DYNA-GRO	X1734	82	--	--	--	--	98	--	--	--	--	70	13	56	33	1	26.0	1.5
GARST	EXP-R5705	73	--	--	--	--	88	--	--	--	--	70	15	56	39	0	19.6	1.2
ASGROW	PULSAR	81	77	54	79	70	97	105	108	71	13	72	14	55	36	0	27.0	1.8
DEKALB	DKS37-07	101	74	62	88	79	121	102	123	73	13	74	14	53	37	1	24.1	1.6
PIONEER	85G46	105	89	--	97	--	126	122	--	73	14	74	17	58	40	3	26.0	1.6
DEKALB	DKS35-70	83	78	--	80	--	99	107	--	73	13	75	14	52	38	0	24.2	1.7
MATURITY CHECK	OK11xTX2741	78	70	52	74	67	94	96	105	75	14	75	15	56	39	1	29.2	1.3
NC+	7C22	102	--	--	--	--	123	--	--	--	--	76	15	52	41	2	23.5	1.5
PIONEER	85G01	84	74	54	79	71	101	101	108	75	13	76	15	55	38	1	27.1	1.2
DYNA-GRO	766B	85	--	--	--	--	102	--	--	--	--	76	16	56	37	0	25.6	1.5
PHILLIPS	672	90	75	--	83	--	108	103	--	76	14	76	16	56	38	0	26.8	1.3
PIONEER	85Y40	98	--	--	--	--	117	--	--	--	--	76	18	57	40	1	26.2	1.5
GOLDEN ACRES	EXP 2650	84	--	--	--	--	100	--	--	--	--	77	16	54	37	0	25.3	1.3
PHILLIPS	664	75	--	--	--	--	90	--	--	--	--	77	16	54	37	0	26.7	1.4
DYNA-GRO	764B	86	--	--	--	--	103	--	--	--	--	78	16	54	37	1	25.5	1.6
DYNA-GRO	751B	86	--	--	--	--	103	--	--	--	--	78	17	55	41	1	25.4	1.3
MATURITY CHECK	TX2752xTX430	67	41	31	54	47	80	57	63	81	17	82	18	50	39	0	26.7	1.1
TRIUMPH	TR 463	95	--	--	--	--	114	--	--	--	--	82	18	51	39	0	29.2	1.0
	AVERAGES	83	73	50	78	69	83	73	50	73	14	74	15	55	37	1	25.2	1.5
	CV (%)	11	13	13	--	--	11	13	13	--	--	2	9	2	5	209	9.414	1.1
	LSD (0.05)*	13	14	9	--	--	15	19	19	--	--	2	2	2	3	2	3.4	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 ON SILT LOAM SOIL

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

Ulysses silt loam; Fallow in 2005

108 - 27 - 0 lb/a N, P, K

Planted on 6/6/2006; Harvested on 10/22/2006

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

Good moisture and emergence at planting. Drier than normal the rest of the spring and summer.

Month	Precipitation		Average Temp.		GDU	
	2006	Norm.	2006	Norm.	2006	Norm.
Nov.-Mar	1.8	2.1	38	34		
April	0.2	1.3	55	49	620	430
May	1.6	2.3	64	60	896	772
June	3.1	2.6	74	70	1185	1063
July	2.1	2.5	79	77	1383	1287
August	1.6	2.2	76	74	1272	1209
Sept.	1.0	1.3	62	66	815	934
Oct.	1.5	0.5	56	57	416	431
Totals:	12.8	14.8	55	52	6,587	6,126

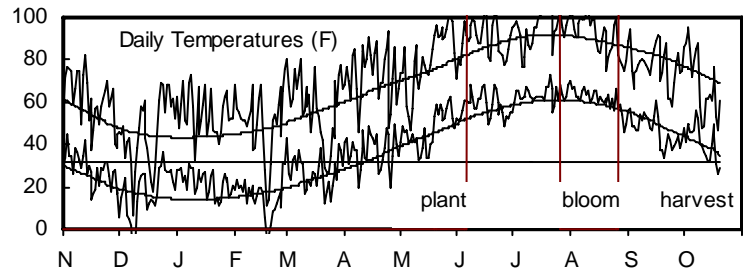
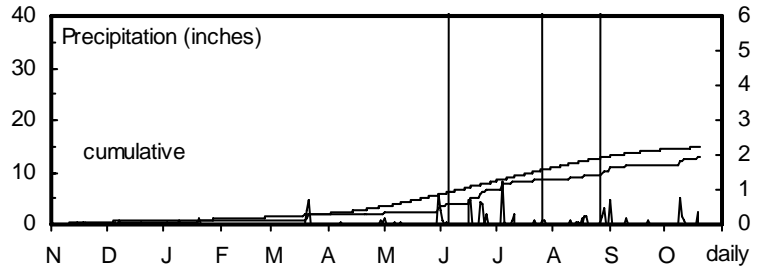


Table 15. Tribune Fallow Grain Sorghum Performance Test, 2004-2006.

BRAND	NAME	YIELD AS % 2005-2006									2006							
		ACRE YIELD, BUSHEL			YIELD AS % OF TEST AVERAGE			Days Grain to Moist.			Days Grain to Moist.		Test Plnt		Pop. Hds			
		2006	2005	2004	2-Yr. AVG.	3-Yr. AVG.	2006	2005	2004	Blm	%	Blm	%	Wt. lb/bu	Ht. in.	Ldg %	1000 ppa	Hds per Plnt
ASGROW	PULSAR	114	59	59	87	77	112	77	99	60	15	50	15	60	44	0	20.7	2.9
SORG. PARTNERS	NK3303	81	--	--	--	--	79	--	--	--	--	51	14	60	41	0	18.8	2.2
NC+	5B89	115	68	--	91	--	113	89	--	67	15	65	15	61	42	0	20.7	2.8
MATURITY CHECK	PIO-86G08	114	86	71	100	91	112	113	120	68	14	66	14	59	45	0	20.7	2.5
DEKALB	DKS35-70	123	70	--	97	--	121	92	--	71	15	66	15	61	41	0	17.8	3.1
GARST	5750	110	85	--	97	--	108	111	--	72	15	67	14	59	46	0	19.4	2.7
GARST	EXP-R5705	80	--	--	--	--	79	--	--	--	--	67	14	59	43	0	14.7	2.2
PIONEER	85G46	117	106	--	112	--	115	139	--	68	14	67	14	60	45	0	19.5	2.3
NC+	7C22	108	--	--	--	--	106	--	--	--	--	68	14	59	49	0	18.2	2.5
PIONEER	85G01	122	94	76	108	97	119	123	128	72	14	68	14	59	46	0	20.5	2.4
TRIUMPH	TR 438	104	82	76	93	87	102	107	129	71	14	68	14	60	46	0	21.2	2.3
DEKALB	DKS37-07	101	67	67	84	78	99	88	114	70	15	68	15	59	44	0	18.3	2.5
DRUSSEL SEED	DSS B64	104	81	78	93	88	102	106	131	74	15	68	15	56	44	0	18.8	2.7
DYNA-GRO	764B	104	--	--	--	--	102	--	--	--	--	68	15	58	45	0	19.7	2.7
SORG. PARTNERS	NK5418	132	83	--	107	--	129	109	--	72	15	68	15	59	43	0	17.8	3.4
DYNA-GRO	766B	106	--	--	--	--	104	--	--	--	--	69	15	58	48	0	19.1	2.6
PHILLIPS	664	107	--	--	--	--	104	--	--	--	--	70	15	57	47	0	20.3	2.5
PHILLIPS	672	105	--	--	--	--	103	--	--	--	--	70	15	59	49	0	18.2	2.7
PIONEER	85Y40	124	--	--	--	--	122	--	--	--	--	70	15	59	47	0	20.2	2.5
GOLDEN ACRES	EXP 2650	91	--	--	--	--	89	--	--	--	--	71	14	57	45	0	19.9	2.2
DRUSSEL SEED	DSS B6506	112	--	--	--	--	109	--	--	--	--	72	15	58	47	0	19.5	2.4
MATURITY CHECK	OK11xTX2741	91	71	60	81	74	89	93	101	78	15	72	15	57	45	0	19.7	2.1
DYNA-GRO	751B	75	--	--	--	--	74	--	--	--	--	78	16	54	50	0	16.5	2.4
DYNA-GRO	752B	75	80	--	77	--	73	105	--	86	15	79	15	53	46	0	21.9	2.0
MATURITY CHECK	TX2752xTX430	86	77	35	81	66	84	101	59	89	15	80	15	55	49	0	19.5	2.1
DYNA-GRO	780B	54	--	--	--	--	53	--	--	--	--	81	16	53	54	0	15.6	2.1
	AVERAGES	102	76	59	89	79	102	76	59	73	15	69	15	58	46	0	19.1	2.5
	CV (%)	13	19	10	--	--	13	19	10	--	--	14	2	3	4	--	10.211	1.1
	LSD (0.05)*	19	20	8	--	--	19	26	14	--	--	13	0	2	3	0	2.7	0.4

*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.

WEST KANSAS FALLOW GRAIN SORGHUM TEST ON SILT LOAM SOIL

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

Keith silt loam; Fallow in 2005

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

Planted on 5/24/2006; Harvested on 10/3/2006

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

Hot, dry conditions in July and early August caused stress-related lodging in most entries.

Month	Precipitation		Average Temp.		GDU	
	2006	Norm.	2006	Norm.	2006	Norm.
Nov.-Mar	2.0	2.8	39	34		
April	0.8	1.6	58	51	691	472
May	2.5	2.9	66	62	964	831
June	2.3	3.0	76	72	1238	1115
July	4.7	2.5	81	78	1430	1321
August	2.6	2.2	77	76	1308	1260
Sept.	0.9	1.6	64	67	877	973
Oct.	1.1	0.7	58	58	473	452
Totals:	16.9	17.3	56	53	6,981	6,424

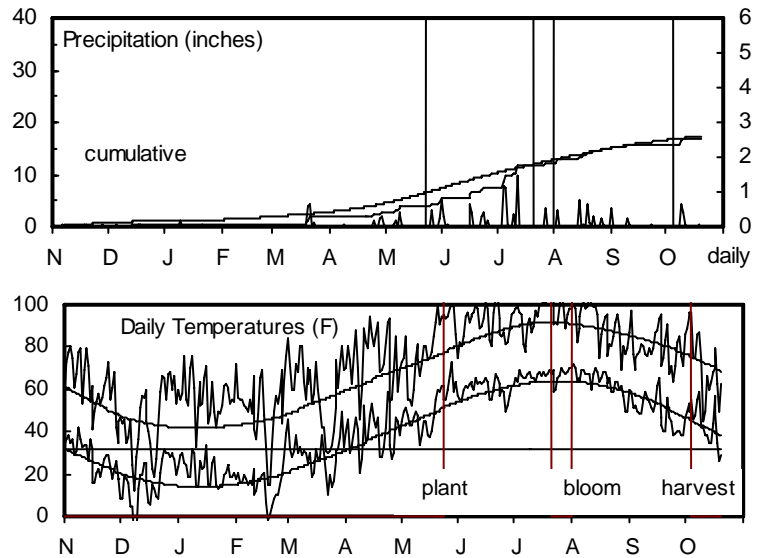


Table 16. Garden City Fallow Grain Sorghum Performance Test, 2004-2006.

BRAND	NAME	YIELD AS % 2005-2006									2006							
		ACRE YIELD, BUSHELS					OF TEST AVERAGE				Days to Blm	Grain to Moist. %	Days to Blm	Grain to Moist. %	Test Wt. lb/bu	Plnt Ht. in.	Pop. %	Hds 1000 per Plnt
		2006	2005	2004	2-Yr. AVG.	3-Yr. AVG.	2006	2005	2004									
MATURITY CHECK	PIO-86G08	114	55	128	85	99	115	105	151	60	12	57	11	58	45	2	49.9	1.5
ASGROW	PULSAR	96	47	91	72	78	97	89	108	63	12	58	10	57	41	5	39.9	1.6
SORG. PARTNERS	NK3303	74	--	--	--	--	75	--	--	--	--	58	10	57	41	10	34.6	1.5
MYCOGEN	1G600	97	57	--	77	--	98	109	--	64	12	58	11	57	40	11	45.2	1.3
TRIUMPH	TR 434	67	--	--	--	--	68	--	--	--	--	58	11	56	45	19	39.3	1.2
DEKALB	DKS37-07	100	40	114	70	85	101	75	135	64	12	59	11	58	44	10	42.3	1.4
GARST	5750	101	66	68	84	78	102	125	80	64	13	59	12	60	41	3	39.1	1.5
DEKALB	DKS35-70	101	54	--	77	--	101	103	--	64	12	60	11	59	40	2	35.6	1.6
MATURITY CHECK	OK11xTX2741	87	53	38	70	60	88	101	45	64	12	60	11	58	40	9	39.9	1.2
PIONEER	85Y40	99	--	--	--	--	100	--	--	--	--	60	13	60	42	10	40.5	1.5
DRUSSEL SEED	DSS B6506	94	--	--	--	--	95	--	--	--	--	61	10	59	45	1	35.9	1.5
DYNA-GRO	766B	100	--	--	--	--	100	--	--	--	--	61	11	59	45	1	38.0	1.5
PHILLIPS	664	85	--	--	--	--	86	--	--	--	--	61	11	58	41	9	45.3	1.3
PHILLIPS	672	107	43	--	75	--	107	82	--	64	12	61	11	59	46	1	40.9	1.5
FRONTIER	F303C	105	--	--	--	--	106	--	--	--	--	62	10	58	46	3	40.8	1.3
MYCOGEN	627	98	48	67	73	71	99	91	80	68	12	62	10	57	44	5	45.0	1.4
DYNA-GRO	764B	109	--	--	--	--	110	--	--	--	--	62	12	59	45	6	38.9	1.5
SORG. PARTNERS	NK4420	115	--	89	--	--	116	--	105	--	--	63	10	57	43	6	42.4	1.6
FRONTIER	F305C	95	--	--	--	--	96	--	--	--	--	63	11	57	41	4	37.9	1.3
MYCOGEN	M3838	113	42	101	78	86	114	81	120	67	12	63	11	60	45	1	40.9	1.3
PIONEER	85G01	112	89	92	101	98	113	170	108	68	12	63	11	59	44	0	46.0	1.2
PIONEER	85G46	99	58	--	79	--	100	111	--	68	12	63	11	59	43	1	41.2	1.4
DRUSSEL SEED	DSS B64	96	72	74	84	80	97	137	87	70	13	63	12	59	42	5	27.9	1.7
DYNA-GRO	752B	101	--	--	--	--	102	--	--	--	--	65	11	58	42	3	45.3	1.3

Table 16. Garden City Fallow Grain Sorghum Performance Test, 2004-2006 - continued.

BRAND	NAME	YIELD AS % 2005-2006											2006					
		ACRE YIELD, BUSHELS					OF TEST			Days to Blm	Grain Moist. %	Days to Blm	Grain Moist. %	Test Wt. lb/bu	Pint Ht. in.	Ldg %	Pop. 1000 ppa	Hds per Pint
		2006	2005	2004	2-Yr. AVG.	3-Yr. AVG.	2006	2005	2004									
GOLDEN ACRES	EXP 2650	103	--	--	--	--	104	--	--	--	--	66	12	59	44	1	40.7	1.3
DYNA-GRO	751B	114	--	--	--	--	115	--	--	--	--	67	11	60	51	2	41.5	1.2
MATURITY CHECK	TX2752xTX430	109	65	95	87	90	110	124	112	71	13	67	12	58	47	4	42.5	1.3
DYNA-GRO	780B	86	--	--	--	--	86	--	--	--	--	68	12	59	45	7	31.8	1.3
	AVERAGES	99	53	85	76	79	99	53	85	67	12	62	11	58	44	5	40.3	1.4
	CV (%)	16	16	39	--	--	16	16	39	--	--	2	7	2	8	82	11.8	9.9
	LSD(0.20)*	25	14	35	--	--	26	26	41	--	--	2	1	2	6	7	7.8	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 17. WEST Kansas Grain Sorghum Hybrid Yield Summary (% of test avg.), 2006.

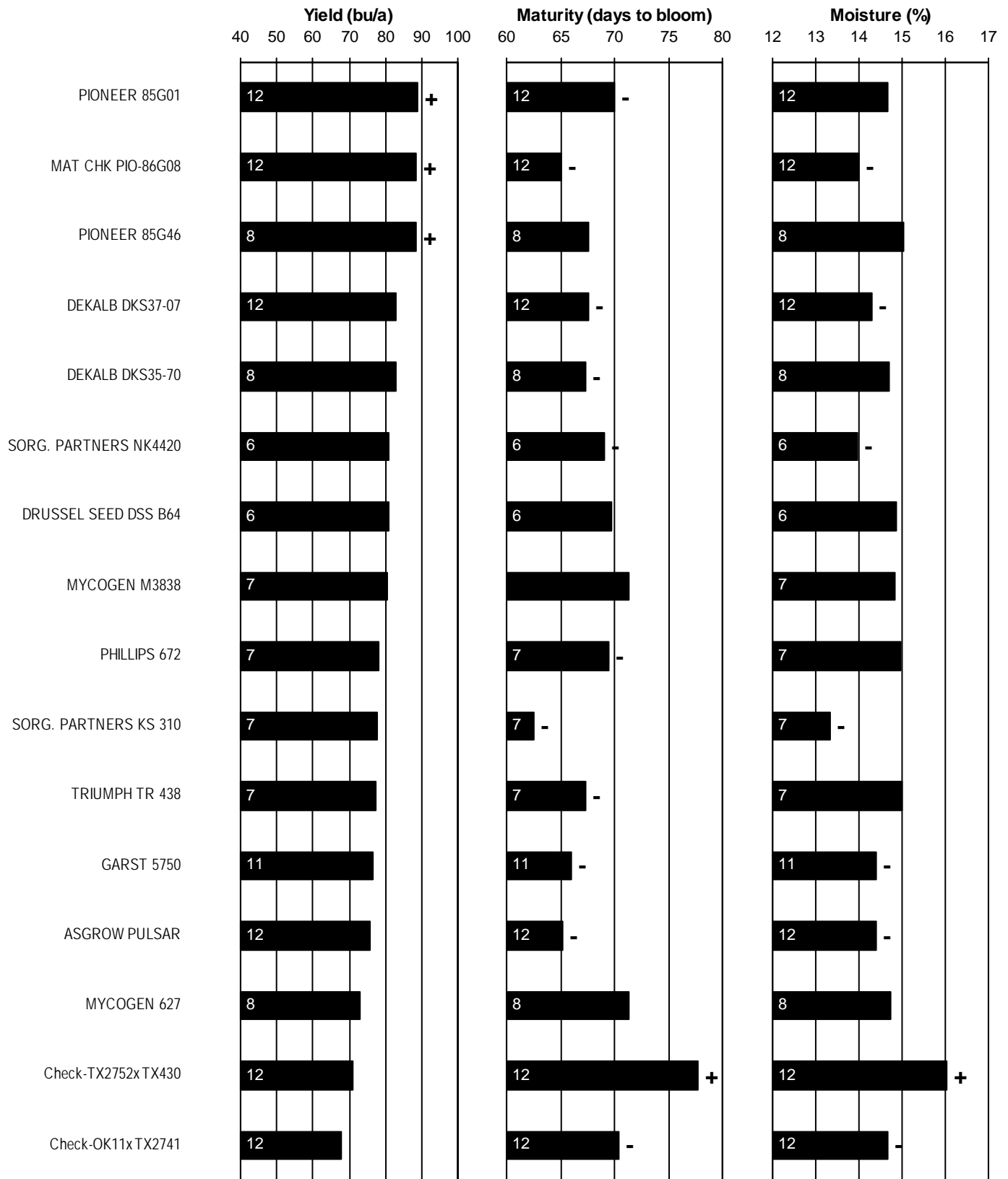
BRAND/NAME	ELD*	THD	GRD	FND	AVG.	BRAND/NAME	ELD	THD	GRD	FND	AVG.
ASGROW						OHLDE					
PULSAR	91	97	112	97	99	O-525	113	--	--	--	--
DEKALB						O-530	89	--	--	--	--
DKS35-70	142	99	121	101	116	O-567	143	--	--	--	--
DKS37-07	126	121	99	101	112	X-575	132	--	--	--	--
DRUSSEL SEED						PHILLIPS					
DSS B64	--	--	102	97	--	664	109	90	104	86	97
DSS B6506	--	--	109	95	--	672	101	108	103	107	105
DYNA-GRO						733Y	96	--	--	--	--
720B	--	77	--	--	--	PIONEER					
751B	95	103	74	115	97	85G01	91	101	119	113	106
752B	--	--	73	102	--	85G46	100	126	115	100	110
764B	89	103	102	110	101	85Y40	128	117	122	100	117
766B	56	102	104	100	91	SORG. PARTNERS					
772B	120	--	--	--	--	KS 310	--	88	--	--	--
780B	--	--	53	86	--	KS 585	82	--	--	--	--
X1734	73	98	--	--	--	NK3303	--	83	79	75	--
FRONTIER						NK4420	--	--	--	116	--
F222E	90	--	--	--	--	NK5418	--	--	129	--	--
F270E	62	--	--	--	--	NK7633	55	--	--	--	--
F303C	--	--	--	106	--	TRIUMPH					
F305C	--	--	--	96	--	TR 434	--	--	--	68	--
F505E	97	--	--	--	--	TR 438	109	--	102	--	--
GARST						TR 463	88	114	--	--	--
5401	157	--	--	--	--	MATURITY CHECK					
5750	76	88	108	102	93	OK11xTX2741	69	94	89	88	85
EXP-R5705	--	88	79	--	--	PIO-86G08	126	106	112	115	115
GOLDEN ACRES						TX2752xTX430	107	80	84	110	95
EXP 2650	58	100	89	104	88	AVERAGES (bu/a)	61	83	102	99	86
MYCOGEN						CV (%)	13	11	13	16	--
1G600	116	--	--	98	--	LSD (0.05)	21	15	19	26	--
627	104	--	--	99	--						
M3838	110	--	--	114	--						
NC+											
5B89	--	95	113	--	--						
7C22	--	123	106	--	--						

* 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, 2004-2006.

NORTH CENTRAL KANSAS IRRIGATED GRAIN SORGHUM TEST ON SILT LOAM SOIL

Irrigation Experiment Field, Scandia; Barney Gordon, agronomist; Michael Larson and Allan Milner, technicians

Crete silt loam; Soybean in 2005

200 - 30 - 0 lb/a N, P, K

Planted on 5/22/2006; Harvested on 10/31/2006

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

Good emergence and early growth; very hot and dry from June through July. Still hot in August, but good rainfall.

Month	Precipitation		Average Temp.		GDU	
	2006	Norm.	2006	Norm.	2006	Norm.
Nov.-Mar	3.0	5.1	36	33		
April	3.7	2.4	57	53	670	534
May	3.6	4.0	65	64	929	886
June	1.8	4.5	76	73	1217	1149
July	4.7	3.8	80	79	1381	1368
August	9.3	3.7	77	77	1290	1310
Sept.	4.2	3.9	63	68	845	987
Oct.	1.2	1.5	56	59	414	479
Totals:	31.4	28.7	55	53	6,746	6,713

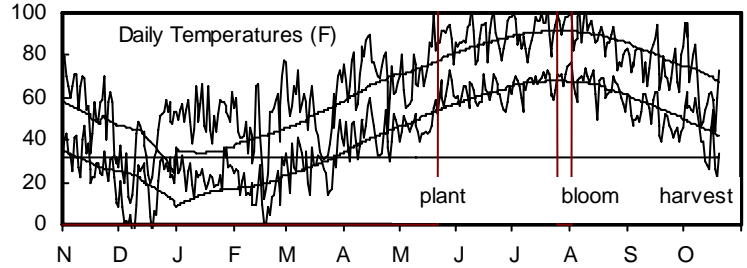
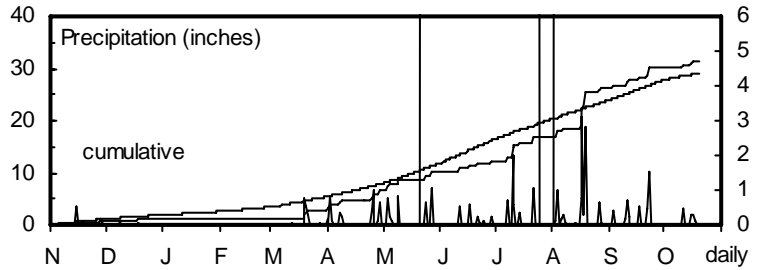


Table 18. Scandia Irrigated Grain Sorghum Performance Test, 2004-2006.

BRAND	NAME	YIELD AS % 2005-2006										2006							
		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE					Days Grain to Moist.		Test Plnt		Pop. 1000 ppa	Hds per Plnt		
		2006	2005	2004	2-Yr. AVG.	3-Yr. AVG.	2006	2005	2004	Blm	%	Blm	%	lb/bu	in.				
MATURITY CHECK	PIO-86G08	128	--	--	--	--	92	--	--	--	--	--	64	13	60	53	0	75.5	1.0
PIONEER	85G01	124	165	--	145	--	89	95	--	--	63	14	64	13	61	53	0	73.9	1.0
FONTANELLE	GE-4532	135	--	--	--	--	96	--	--	--	--	--	66	14	60	55	0	68.9	1.0
GOLDEN WORLD	GWX2045	120	--	--	--	--	86	--	--	--	--	--	66	14	61	55	0	68.0	1.0
SORG. PARTNERS	NK6673	137	170	177	154	161	98	98	104	--	64	14	66	14	61	55	0	65.5	1.0
GOLDEN WORLD	GWX3045	129	--	--	--	--	92	--	--	--	--	--	67	13	61	52	0	74.5	1.0
MATURITY CHECK	OK11xTX2741	132	148	160	140	146	94	85	94	--	65	14	67	13	60	50	0	75.2	1.0
NC+	7B51	132	--	--	--	--	95	--	--	--	--	--	67	13	60	56	0	74.2	1.0
PIONEER	85Y40	148	--	--	--	--	106	--	--	--	--	--	67	14	61	57	0	69.9	1.0
DYNA-GRO	772B	145	--	--	--	--	104	--	--	--	--	--	68	13	61	56	0	74.2	1.0
GARST	5401	132	170	163	151	155	95	97	96	--	67	14	68	13	62	61	0	76.5	1.0
ASGROW	A567	150	198	178	174	175	107	113	104	--	66	14	68	14	62	54	0	68.4	1.0
GOLDEN WORLD	GWX8267	122	--	--	--	--	87	--	--	--	--	--	68	14	60	51	0	67.8	1.0
GARST	5360	138	169	171	154	159	99	97	100	--	67	14	69	13	61	52	0	64.2	1.0
GOLDEN WORLD	GWX5967	136	--	--	--	--	97	--	--	--	--	--	69	13	61	52	0	76.5	1.0
TAYLOR	T-38GS	144	--	--	--	--	103	--	--	--	--	--	69	13	61	56	0	72.9	1.0
DYNA-GRO	751B	146	195	--	171	--	104	112	--	--	66	15	69	14	61	57	0	66.6	1.0
FONTANELLE	GE-5615	141	194	181	168	172	101	111	106	--	66	14	69	14	61	59	0	65.9	1.0
NC+	7R34	145	--	--	--	--	104	--	--	--	--	--	69	14	62	60	0	71.0	1.0
TRIUMPH	TR 481	145	185	174	165	168	104	106	102	--	69	14	69	14	61	58	0	70.2	1.0
GOLDEN WORLD	GWX3167	134	172	--	153	--	96	98	--	--	67	15	69	15	62	53	0	67.0	1.0
GOLDEN WORLD	GWX7450	142	--	--	--	--	102	--	--	--	--	--	70	13	61	54	0	71.4	1.0
DEKALB	DKS53-11	146	182	184	164	171	105	104	108	--	68	14	70	14	62	55	0	68.0	1.0
DYNA-GRO	780B	155	--	--	--	--	111	--	--	--	--	--	70	14	62	64	0	66.7	1.0
PIONEER	84G62	154	196	182	175	178	110	113	107	--	67	14	70	14	62	53	0	74.5	1.0
SORG. PARTNERS	NK7829	148	--	--	--	--	106	--	--	--	--	--	70	14	61	57	0	65.2	1.1
GOLDEN WORLD	GWX1466	140	169	--	154	--	100	97	--	--	66	14	71	13	61	49	0	67.1	1.0
MATURITY CHECK	TX2752xTX430	141	183	180	162	168	101	105	106	--	69	14	71	13	60	57	0	70.2	1.0
TRIUMPH	TR 463	141	--	--	--	--	101	--	--	--	--	--	71	13	60	54	0	75.7	1.0
DEKALB	DKS54-00	154	188	169	171	171	110	108	99	--	69	14	71	14	62	57	0	68.7	1.0
GOLDEN WORLD	GW 1467	142	180	--	161	--	101	103	--	--	68	14	71	14	61	54	0	74.0	1.0
GOLDEN WORLD	GW 1489	150	192	169	171	170	108	110	99	--	67	14	71	14	61	58	0	68.5	1.0
GOLDEN WORLD	GWX1445	138	--	--	--	--	99	--	--	--	--	--	71	14	61	49	0	69.1	1.0

Table 18. Scandia Irrigated Grain Sorghum Performance Test, 2004-2006 - continued.

BRAND	NAME	YIELD AS %									2005-2006		2006						
		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
		2006	2005	2004	2-Yr. AVG.	3-Yr. AVG.	2006	2005	2004	AVERAGE									
NC+	8R18	142	193	--	167	--	101	111	--	67	14	71	14	62	59	0	73.1	1.0	
OHLDE	O-595	134	--	--	--	--	96	--	--	--	--	71	14	62	56	0	63.8	1.1	
	AVERAGES	140	174	171	157	162	140	174	171	66	14	69	14	61	55	0	70.4	1.0	
	CV (%)	7	2	3	--	--	7	2	3	--	--	2	1	0	4	--	10.6	3.8	
	LSD (0.05)*	16	7	8	--	--	11	4	4	--	--	2	0	0	3	0	12.2	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.

SOUTH CENTRAL KANSAS IRRIGATED GRAIN SORGHUM TEST ON SILT LOAM SOIL

South Central Kansas Experiment Field, Hutchinson; William Heer, agronomist; John Evans, cooperater

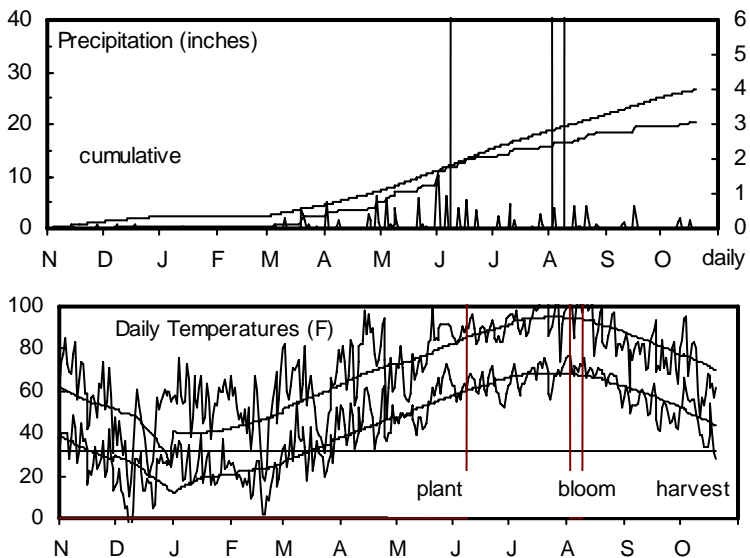
Ost loam; Wheat in 2005

175 - 30 - 0 lb/a N, P, K

Planted on 6/9/2006; Harvested on 10/22/2006

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

Frequent rains delayed planting. Cool, wet conditions existed through June. There was some bird feeding damage to the plots.



Month	Precipitation		Average Temp.		GDU	
	2006	Norm.	2006	Norm.	2006	Norm.
Nov.-Mar	2.4	4.2	40	37		
April	2.8	2.7	61	56	794	617
May	4.2	4.0	66	65	974	927
June	4.5	4.2	75	75	1208	1196
July	1.9	3.4	81	81	1447	1416
August	2.5	3.1	80	79	1402	1361
Sept.	1.3	3.3	65	70	892	1053
Oct.	0.7	1.6	59	61	473	521
Totals:	20.3	26.6	57	56	7,190	7,091

Table 19. Hutchinson Irrigated Grain Sorghum Performance Test, 2004-2006.

BRAND	NAME	YIELD AS % 2005-2006											2006					
		ACRE YIELD, BUSHELS			OF TEST			Days Grain		Days Grain		Test Plnt		Pop. Ldg	Hds per Plnt			
		2006	2005	2004	2-Yr. AVG.	3-Yr. AVG.	2006	2005	2004	to Moist. Blm %	to Moist. Blm %	Wt. lb/bu	Ht. in.					
		AVERAGE											%	%	%	%		
MATURITY CHECK	PIO-86G08	148	--	--	--	--	96	--	--	--	--	54	16	59	58	0	90.2	1.0
MIDLAND	MG4665	113	74	180	93	122	73	83	93	60	15	54	16	59	53	0	84.5	1.0
PIONEER	85G01	143	80	208	111	144	93	89	107	61	15	54	16	59	62	0	90.3	1.0
FRONTIER	F270E	97	--	--	--	--	63	--	--	--	--	55	15	59	53	0	80.0	1.1
FRONTIER	F303C	120	--	--	--	--	78	--	--	--	--	56	15	60	56	0	77.5	1.1
MATURITY CHECK	OK11xTX2741	125	89	174	107	129	81	99	89	62	15	56	16	60	57	0	97.1	1.0
PIONEER	85Y40	157	--	--	--	--	102	--	--	--	--	56	17	60	62	0	95.7	1.0
MIDLAND	MG4748	161	77	189	119	143	105	86	97	63	15	58	16	60	62	0	89.1	1.0
GARST	5360	143	95	195	119	145	93	106	100	64	16	58	17	60	57	0	76.6	1.0
MIDLAND	MG4772	163	84	--	123	--	105	94	--	65	16	58	17	59	64	0	80.0	1.0
NC+	7B51	172	--	--	--	--	111	--	--	--	--	58	17	59	61	0	85.9	1.1
DEKALB	DKS54-00	152	76	195	114	141	98	85	100	64	16	59	17	60	66	0	90.8	1.0
DYNA-GRO	772B	153	--	--	--	--	99	--	--	--	--	59	17	59	65	0	88.3	1.1
PIONEER	84G62	190	108	208	149	169	123	120	107	65	16	59	17	60	61	0	85.6	1.0
GARST	5401	152	99	--	126	--	99	111	--	66	15	60	16	60	69	0	95.8	1.0
NC+	7R34	169	--	--	--	--	110	--	--	--	--	60	16	61	70	0	90.3	1.0
SORG. PARTNERS	NK7655	159	101	200	130	153	103	113	103	65	15	60	16	59	64	0	94.5	1.0
ASGROW	A567	164	103	212	134	160	107	115	109	65	16	60	17	60	61	0	82.8	1.0
DEKALB	DKS53-11	167	104	207	136	159	108	117	106	66	16	60	17	60	61	0	85.6	1.1
DYNA-GRO	751B	173	108	--	141	--	112	121	--	65	15	60	17	59	63	0	76.8	1.0
SORG. PARTNERS	NK7829	132	--	--	--	--	86	--	--	--	--	60	18	59	63	0	88.3	1.0
DYNA-GRO	780B	191	--	--	--	--	124	--	--	--	--	61	16	60	72	0	77.8	1.0
MATURITY CHECK	TX2752xTX430	174	107	214	141	165	113	120	110	67	16	61	17	59	65	0	90.9	1.0
NC+	8R18	176	--	--	--	--	114	--	--	--	--	61	17	58	66	0	84.5	1.0
OHLDE	O-595	167	--	--	--	--	108	--	--	--	--	61	17	60	62	0	91.8	1.0
TRIUMPH	TR 463	149	--	--	--	--	97	--	--	--	--	61	17	59	59	0	92.4	0.9
AVERAGES		154	90	195	122	146	154	90	195	64	15	58	16	59	62	0	87.1	1.0
CV (%)		7	8	6	--	--	7	8	6	--	--	2	3	1	2	--	4.2	4.9
LSD (0.05)*		15	10	15	--	--	10	11	8	--	--	1	1	1	2	0	5.2	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 ON SILT LOAM SOIL

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

Keith silt loam; Sunflower in 2005

140 - 45 - 0 lb/a N, P, K

Planted on 5/24/2006; Harvested on 11/1/2006

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

Heavy rains after planting caused crusting and reduced stands. The growing season was normal, with good growing conditions.

Month	Precipitation		Average Temp.		GDU	
	2006	Norm.	2006	Norm.	2006	Norm.
Nov.-Mar	2.9	3.0	37	32		
April	0.6	1.8	54	49	570	421
May	1.0	3.1	64	60	895	762
June	3.2	3.0	74	70	1182	1054
July	1.7	3.1	79	76	1381	1285
August	2.4	2.2	75	74	1230	1216
Sept.	2.1	1.5	61	65	775	910
Oct.	2.0	0.6	54	56	376	410
Totals:	16.0	18.3	54	51	6,409	6,058

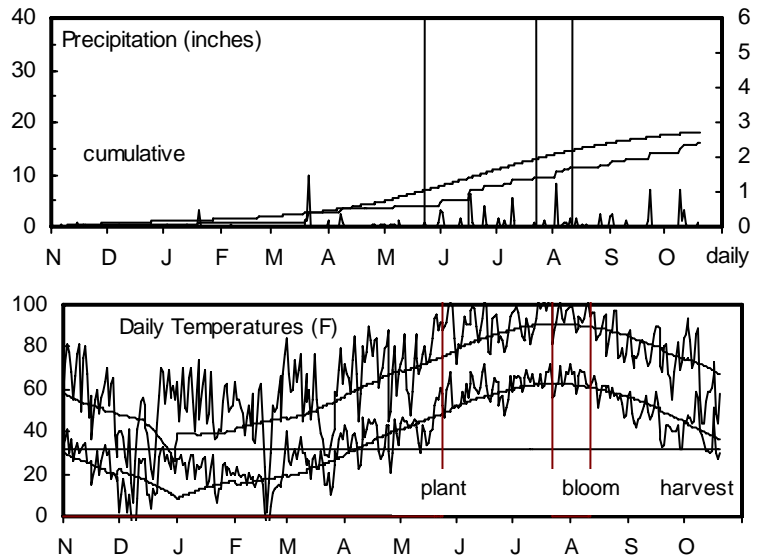


Table 20. Colby Irrigated Grain Sorghum Performance Test, 2004-2006.

BRAND	NAME	YIELD AS % 2005-2006									2006							
		ACRE YIELD, BUSHEL			OF TEST			Days Grain to Blm	Grain Moist. %	Days Grain to Blm	Grain Moist. %	Test Wt. lb/bu	Plnt Hts. in.	Pop. 1000 ppa	Hds per Plnt			
		2006	2005	2004	2-Yr. AVG.	3-Yr. AVG.	AVERAGE									2006	2005	2004
DYNA-GRO	720B	98	--	--	--	--	64	--	--	--	--	59	13	52	38	0	68.7	1.1
DYNA-GRO	X1734	106	--	--	--	--	69	--	--	--	--	62	13	55	42	0	69.5	1.0
NC+	5B89	112	--	--	--	--	73	--	--	--	--	62	14	58	45	0	78.4	1.1
MATURITY CHECK	PIO-86G08	139	--	--	--	--	91	--	--	--	--	63	16	59	48	0	71.3	1.2
PIONEER	85G46	138	166	--	152	--	90	97	--	68	15	65	16	61	48	0	81.0	1.0
DYNA-GRO	766B	130	--	--	--	--	85	--	--	--	--	66	14	59	48	0	77.3	1.0
MATURITY CHECK	OK11xTX2741	141	152	151	147	148	92	90	98	69	13	66	14	59	47	0	81.6	1.0
DYNA-GRO	764B	153	--	--	--	--	100	--	--	--	--	66	15	59	45	0	76.4	1.0
PIONEER	85Y40	162	--	--	--	--	106	--	--	--	--	67	16	61	48	0	81.1	1.0
NC+	6B50	146	--	--	--	--	95	--	--	--	--	68	15	58	48	0	70.1	1.1
DYNA-GRO	772B	148	--	--	--	--	97	--	--	--	--	68	16	60	53	0	79.2	1.0
NC+	7R34	156	--	--	--	--	102	--	--	--	--	69	17	62	56	0	75.4	1.1
DYNA-GRO	751B	162	--	--	--	--	106	--	--	--	--	70	16	60	54	0	63.3	1.0
ASGROW	A567	181	176	166	179	174	118	104	108	73	17	70	17	61	52	0	68.2	1.0
SORG. PARTNERS	NK7829	167	--	--	--	--	109	--	--	--	--	70	17	60	56	0	82.1	0.9
MATURITY CHECK	TX2752xTX430	179	189	165	184	177	117	111	107	75	17	72	15	58	52	0	68.8	1.1
SORG. PARTNERS	K73-J6	163	164	158	164	162	107	96	103	74	17	72	15	58	52	0	73.5	1.0
DEKALB	DKS53-11	177	177	161	177	172	116	104	104	74	17	72	17	61	52	0	71.5	0.9
DEKALB	DKS54-00	186	184	154	185	175	121	108	100	75	17	73	16	59	52	0	68.8	1.0
PIONEER	84G62	179	203	165	191	182	117	119	107	76	18	74	17	61	51	0	77.4	1.0
NC+	8R18	195	--	--	--	--	127	--	--	--	--	80	17	59	58	0	63.2	1.1
	AVERAGES	153	170	154	162	159	153	170	154	71	16	68	16	59	50	0	73.7	1.0
	CV (%)	6	5	9	--	--	6	5	9	--	--	2	6	1	4	--	6.3	5.9
	LSD (0.05)*	13	13	18	--	--	8	7	12	--	--	2	1	1	3	0	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 ON SILT LOAM SOIL

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

Ulysses silt loam; Wheat in 2005

128 - 27 - 0 lb/a N, P, K

Planted on 5/23/2006; Harvested on 11/7/2006

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

Good plant stand; drier than normal the rest of the growing season. No diseases or insects observed.

Month	Precipitation		Average Temp.		GDU	
	2006	Norm.	2006	Norm.	2006	Norm.
Nov.-Mar	1.8	2.1	38	34		
April	0.2	1.3	55	49	620	430
May	1.6	2.3	64	60	896	772
June	2.4	2.6	74	70	1185	1063
July	1.7	2.5	79	77	1383	1287
August	0.4	2.2	76	74	1272	1209
Sept.	1.2	1.3	62	66	815	934
Oct.	1.5	0.5	56	57	416	431
Totals:	10.7	14.8	55	52	6,587	6,126

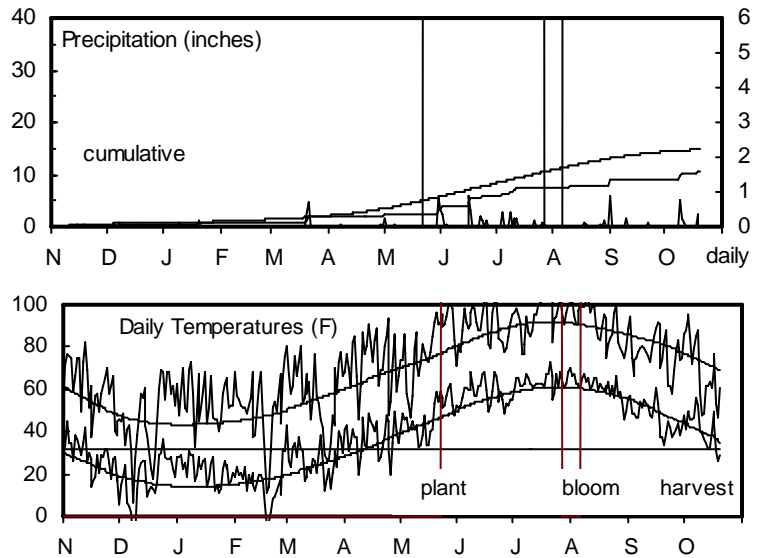


Table 21. Tribune Irrigated Grain Sorghum Performance Test, 2004-2006.

BRAND	NAME	YIELD AS % 2005-2006									2006							
		ACRE YIELD, BUSHELS			OF TEST AVERAGE			Days Grain to Blm	Days Grain to Moist.	Days Grain to Moist.	Test Wt. lb/bu	Plant Ht. in.	Pop. 1000 per ppa	Hds per Plnt				
		2006	2005	2004	2-Yr. AVG.	3-Yr. AVG.	2006								2005	2004		
DYNA-GRO	X1734	118	--	--	--	--	69	--	--	--	--	64	13	59	41	0	69.3	1.1
MATURITY CHECK	PIO-86G08	160	--	--	--	--	94	--	--	--	--	65	13	61	49	0	69.0	1.1
PIONEER	85G46	161	95	--	128	--	95	92	--	68	14	66	14	61	49	0	66.2	1.1
SORG. PARTNERS	NK5418	146	100	115	123	120	86	97	105	69	13	67	13	60	47	0	63.9	1.3
DYNA-GRO	764B	152	--	--	--	--	89	--	--	--	--	68	14	61	49	0	66.6	1.1
PIONEER	85Y40	187	--	--	--	--	110	--	--	--	--	68	14	62	50	0	69.4	1.1
TRIUMPH	TR 442	148	103	--	126	--	87	101	--	73	13	70	13	62	50	0	63.8	1.1
DYNA-GRO	766B	171	--	--	--	--	100	--	--	--	--	70	14	61	54	0	66.6	1.1
MATURITY CHECK	OK11xTX2741	158	107	102	132	122	93	104	94	73	14	70	14	61	49	0	67.5	1.1
ASGROW	A567	198	111	121	154	143	116	108	112	74	14	72	14	62	58	0	61.8	1.1
DEKALB	DKS54-00	196	109	128	153	144	115	106	118	73	14	72	14	61	57	0	64.9	1.1
DYNA-GRO	772B	171	--	--	--	--	100	--	--	--	--	72	14	62	55	0	69.7	1.1
MATURITY CHECK	TX2752xTX430	197	116	97	157	137	116	113	89	78	14	72	14	61	53	0	71.9	1.1
SORG. PARTNERS	NK7829	148	--	--	--	--	87	--	--	--	--	72	14	61	57	0	63.5	1.1
DYNA-GRO	751B	182	--	--	--	--	107	--	--	--	--	73	14	62	55	0	67.0	1.0
PIONEER	84G62	211	111	112	161	145	124	108	103	76	14	74	14	61	52	0	69.0	1.1
DEKALB	DKS53-11	192	100	117	146	137	113	98	108	77	14	76	14	61	59	0	60.1	1.1
	AVERAGES	170	103	109	136	127	170	103	109	73	14	70	14	61	52	0	66.5	1.1
	CV (%)	9	9	11	--	--	9	9	11	--	--	2	2	0	9	--	5.3	4.7
	LSD (0.05)*	22	14	17	--	--	13	13	15	--	--	2	0	0	6	0	5.0	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 ON SILT LOAM SOIL

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

Keith silt loam; Fallow in 2005

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

Planted on 5/24/2006; Harvested on 10/3/2006

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

Rains before planting and good moisture through emergence helped early growth. No lodging, diseases, or insect pressures reported.

Month	Precipitation		Average Temp.		GDU	
	2006	Norm.	2006	Norm.	2006	Norm.
Nov.-Mar	2.0	2.8	39	34		
April	0.8	1.6	58	51	691	472
May	2.5	2.9	66	62	964	831
June	2.3	3.0	76	72	1238	1115
July	4.7	2.5	81	78	1430	1321
August	2.6	2.2	77	76	1308	1260
Sept.	0.9	1.6	64	67	877	973
Oct.	1.1	0.7	58	58	473	452
Totals:	16.9	17.3	56	53	6,981	6,424

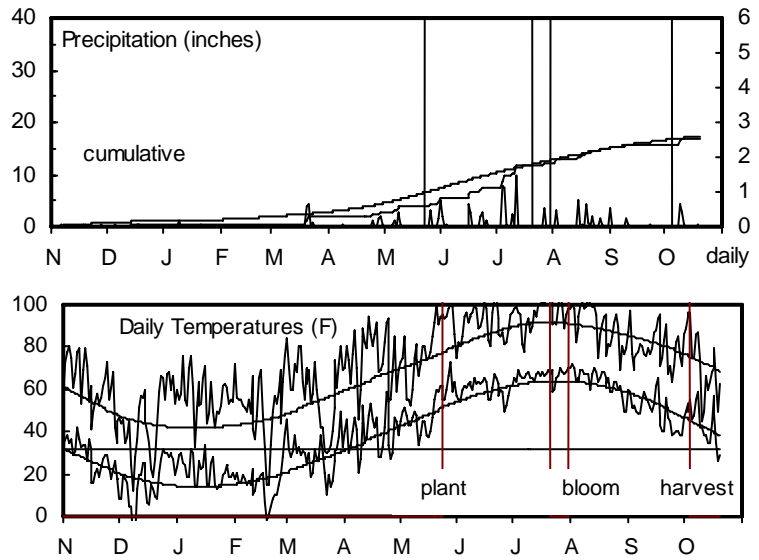


Table 22. Garden City Irrigated Grain Sorghum Performance Test, 2004-2006.

BRAND	NAME	YIELD AS % 2005-2006									2006							
		ACRE YIELD, BUSHEL			OF TEST			Days Grain to Blm	Grain Moist. %	Days Grain to Blm	Grain Moist. %	Test Plnt		Pop. 1000 ppa	Hds per Plnt			
		2006	2005	2004	2-Yr. AVG.	3-Yr. AVG.	AVERAGE					2006	2005			2004	Wt. lb/bu	Ht. in.
MATURITY CHECK	PIO-86G08	134	--	--	--	--	95	--	--	--	--	56	8	58	46	0	85.1	1.2
GOLDEN WORLD	GWX2045	104	--	--	--	--	73	--	--	--	--	57	9	56	46	0	72.9	1.3
GOLDEN WORLD	GWX3045	132	--	--	--	--	93	--	--	--	--	59	9	58	48	0	85.1	1.2
PIONEER	85G46	148	107	--	128	--	104	114	--	64	11	59	9	60	48	0	79.9	1.1
DYNA-GRO	766B	139	--	--	--	--	98	--	--	--	--	60	8	57	52	0	76.5	1.2
FRONTIER	F303C	133	--	--	--	--	93	--	--	--	--	60	8	58	46	0	68.1	1.1
FRONTIER	F305C	126	--	--	--	--	89	--	--	--	--	60	8	56	46	0	69.7	1.2
MATURITY CHECK	OK11xTX2741	127	68	114	97	103	89	73	96	65	10	60	8	58	48	0	83.9	1.1
DYNA-GRO	764B	142	--	--	--	--	100	--	--	--	--	60	9	58	47	0	81.0	1.1
NC+	7B51	148	--	--	--	--	104	--	--	--	--	60	9	57	51	0	79.7	1.2
DYNA-GRO	772B	148	--	--	--	--	104	--	--	--	--	60	10	58	50	0	91.9	1.1
PIONEER	85Y40	144	--	--	--	--	102	--	--	--	--	60	10	60	48	0	82.9	1.2
GOLDEN WORLD	GWX5967	132	--	--	--	--	93	--	--	--	--	61	8	58	46	0	80.7	1.0
GOLDEN WORLD	GWX8267	123	--	--	--	--	86	--	--	--	--	61	9	55	48	0	72.3	1.2
ASGROW	A567	154	92	114	123	120	109	99	96	68	11	62	10	60	52	0	71.1	1.1
GARST	5401	142	80	--	111	--	100	86	--	66	11	62	10	61	57	0	82.8	1.1
NC+	7R34	148	--	--	--	--	104	--	--	--	--	62	10	61	56	0	78.6	1.2
SORG. PARTNERS	NK7633	146	91	138	119	125	103	98	117	67	11	62	10	58	49	0	73.3	1.1
FRONTIER	F505E	130	--	--	--	--	92	--	--	--	--	63	9	57	47	0	68.5	1.1
GOLDEN WORLD	GWX1445	137	--	--	--	--	97	--	--	--	--	63	9	56	46	0	82.6	1.1
DEKALB	DKS53-11	158	103	127	130	129	111	110	108	68	11	63	10	60	54	0	71.3	1.1
DYNA-GRO	751B	152	95	--	124	--	107	101	--	69	11	63	10	58	53	0	75.2	1.1
SORG. PARTNERS	NK7829	148	--	--	--	--	104	--	--	--	--	63	10	58	55	0	81.0	1.1
TRIUMPH	TR 463	136	--	121	--	--	96	--	102	--	--	63	10	57	51	0	86.4	1.0
GOLDEN WORLD	GWX3167	125	72	--	98	--	88	77	--	67	13	63	12	59	50	0	75.1	1.0
DEKALB	DKS54-00	155	111	143	133	136	109	118	121	69	11	64	9	57	54	0	65.3	1.2

Table 22. Garden City Irrigated Grain Sorghum Performance Test, 2004-2006 - continued.

BRAND	NAME	YIELD AS % 2005-2006									2006								
		ACRE YIELD, BUSHEL					OF TEST 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
		2006	2005	2004	2-Yr. AVG.	3-Yr. AVG.	2006	2005	2004										
DYNA-GRO	780B	154	86	--	120	--	108	92	--	72	11	64	9	59	61	0	67.4	1.1	
GOLDEN WORLD	GW 1467	133	87	114	110	111	94	93	96	68	11	64	9	57	47	0	82.5	1.0	
MATURITY CHECK	TX2752xTX430	155	95	147	125	132	109	101	125	70	11	64	9	57	53	0	80.9	1.1	
GOLDEN WORLD	GWX1466	148	107	--	127	--	104	114	--	70	11	65	9	53	48	0	73.3	1.1	
GOLDEN WORLD	GWX7450	155	--	--	--	--	109	--	--	--	--	65	9	57	52	0	82.6	1.1	
PIONEER	84G62	147	111	118	129	125	103	118	100	69	11	65	10	60	51	0	78.8	1.1	
NC+	7R83	154	107	--	131	--	108	115	--	70	11	66	9	57	55	0	77.2	1.1	
GARST	5360	146	91	118	118	118	103	97	100	72	12	66	11	58	51	0	66.9	1.1	
NC+	8R18	165	--	--	--	--	116	--	--	--	--	67	10	59	59	0	75.9	1.1	
	AVERAGES	142	94	118	118	118	142	94	118	67	11	62	9	58	51	0	77.3	1.1	
	CV (%)	7	14	12	--	--	7	14	12	--	--	1	8	1	2	--	8.1	6.6	
	LSD (0.05)*	16	21	24	--	--	11	23	20	--	--	1	1	1	2	0	10.2	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.

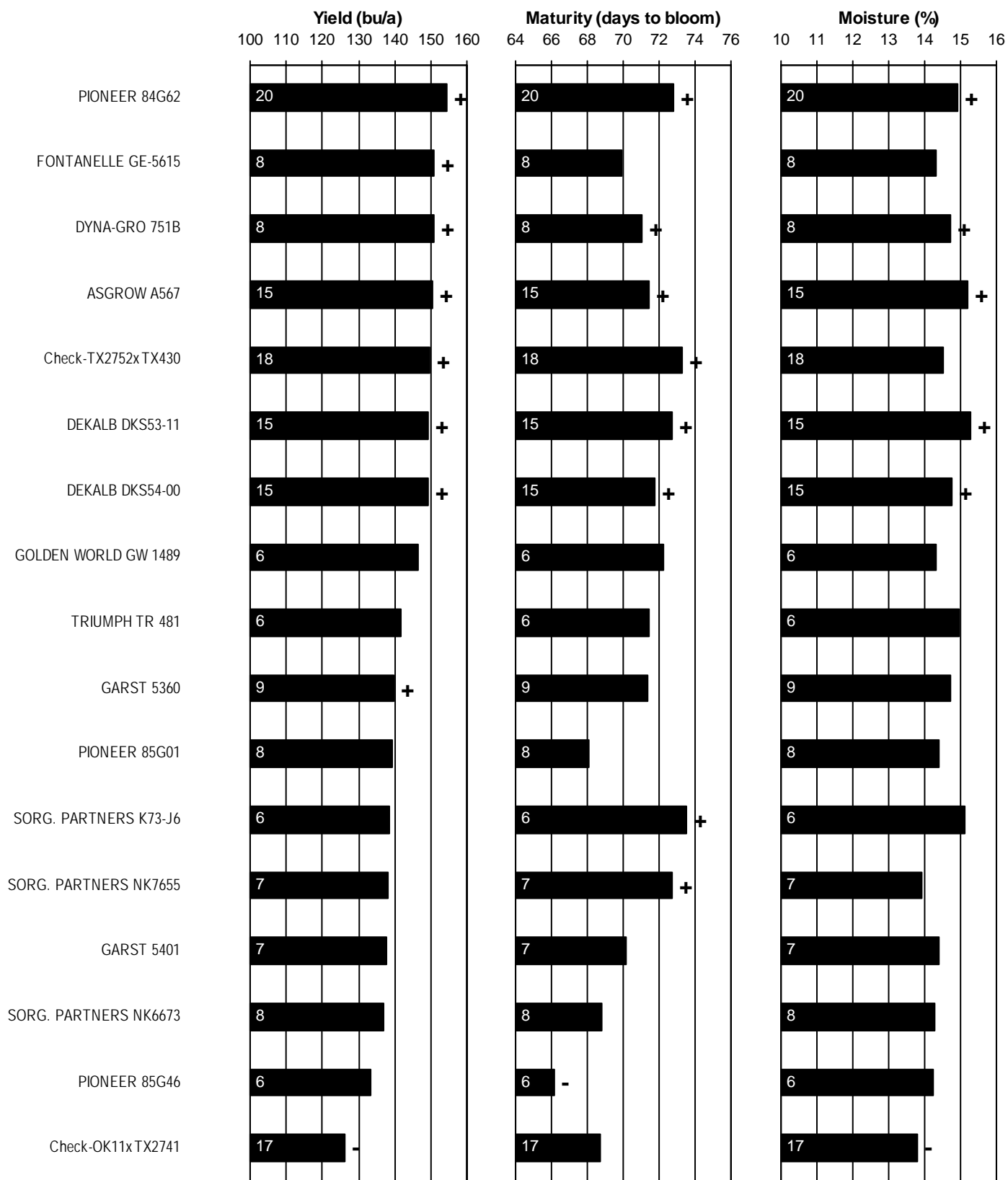
Table 23. Kansas IRRIGATED Grain Sorghum Hybrid Yield Summary (% of test avg.), 2006.

BRAND/NAME	RPI *	RNI	THI	GRI	FNI	AVG.	BRAND/NAME	RPI	RNI	THI	GRI	FNI	AVG.
ASGROW							NC+						
A567	107	107	118	116	109	111	5B89	--	--	73	--	--	--
DEKALB							6B50						
DKS53-11	105	108	116	113	111	111	7B51	95	111	--	--	104	--
DKS54-00	110	98	121	115	109	111	7R34	104	110	102	--	104	--
DYNA-GRO							7R83						
720B	--	--	64	--	--	--	8R18	101	114	127	--	116	--
751B	104	112	106	107	107	107	OHLDE						
764B	--	--	100	89	100	--	O-595	96	108	--	--	--	--
766B	--	--	85	100	98	--	PIONEER						
772B	104	99	97	100	104	101	84G62	110	123	117	124	103	116
780B	111	124	--	--	108	--	85G01	89	93	--	--	--	--
X1734	--	--	69	69	--	--	85G46	--	--	90	95	104	--
FONTANELLE							85Y40						
GE-4532	96	--	--	--	--	--	SORG. PARTNERS						
GE-5615	101	--	--	--	--	--	K73-J6	--	--	107	--	--	--
FRONTIER							NK5418						
F270E	--	63	--	--	--	--	NK6673	98	--	--	--	--	--
F303C	--	78	--	--	93	--	NK7633	--	--	--	--	103	--
F305C	--	--	--	--	89	--	NK7655	--	103	--	--	--	--
F505E	--	--	--	--	92	--	NK7829	106	86	109	87	104	98
GARST							TAYLOR						
5360	99	93	--	--	103	--	T-38GS	103	--	--	--	--	--
5401	95	99	--	--	100	--	TRIUMPH						
GOLDEN WORLD							TR 442						
GW 1467	101	--	--	--	94	--	TR 463	101	97	--	--	96	--
GW 1489	108	--	--	--	--	--	TR 481	104	--	--	--	--	--
GWX1445	99	--	--	--	97	--	MATURITY CHECK						
GWX1466	100	--	--	--	104	--	OK11xTX2741	94	81	92	93	89	90
GWX2045	86	--	--	--	73	--	PIO-86G08	92	96	91	94	95	93
GWX3045	92	--	--	--	93	--	TX2752xTX430	101	113	117	116	109	111
GWX3167	96	--	--	--	88	--	AVERAGES (bu/a)						
GWX5967	97	--	--	--	93	--	CV (%)	7	7	6	9	7	--
GWX7450	102	--	--	--	109	--	LSD (0.05)	11	10	8	13	11	--
GWX8267	87	--	--	--	86	--	MIDLAND						
MG4665	--	73	--	--	--	--	MG4665	--	73	--	--	--	--
MG4748	--	105	--	--	--	--	MG4748	--	105	--	--	--	--
MG4772	--	105	--	--	--	--	MG4772	--	105	--	--	--	--

* RPI=Republic Co., Scandia
GRI=Greeley Co., Tribune

RNI=Reno Co., Hutchinson
FNI=Finney Co., Garden City

THI=Thomas Co., Colby



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, 2004-2006.

Table 24. Entries in the 2006 Kansas Grain Sorghum Performance Tests

BRAND NAME	hybrid traits*						BRAND NAME	hybrid traits*					
	GC	EC	PC	Mat.	Days	GB		GC	EC	PC	Mat.	Days	GB
ADVANCED GEN.							GARST						
A 110	B	HY	P	E	62	-	EXP-R5705	R	HY	P	ME	58	-
A 115C	C	HY	P	ME	68	CE	5750	B	HY	P	ME	62	CE
A 121	R	W	P	M	70	CEIK	5401	R	HY	P	ML	68	E
A 137	R	W	P	ML	73	CE	5360	R	HY	P	ML	69	-
ASGROW							GOLDEN ACRES						
PULSAR	B	HY	P	E	68	CEI	EXP 2650	B	Y	P	ME	60	CE
A567	B	HY	P	L	73	CE	3552	B	Y	P	M	66	CE
DEKALB							GOLDEN WORLD						
DKS37-07	B	HY	P	E	67	CEI	GWX2045	R	W	P	ME	60	-
DKS36-16	B	HY	P	M	68	-	GWX3045	R	W	P	ME	60	-
DKS35-70	B	HY	P	M	69	CEI	GWX5967	R	W	P	ME	60	-
DKS42-20	B	HY	P	M	70	CE	GW 1467	R	W	P	M	65	-
DK-44	B	HY	P	M	71	CE	GWX1445	R	W	P	M	65	-
DKS53-11	B	HY	P	L	74	CEI	GWX1466	R	W	P	M	65	-
DKS54-00	B	HY	P	L	75	CEI	GWX3167	R	W	P	M	65	-
DRUSSEL SEED							MIDLAND						
DSS B64	B	W	P	ME	64	C	GWX8267	R	W	P	M	65	-
DSS B6506	B	W	P	ME	65	CDE	GW 1489	R	W	P	ML	68	E
DYNA-GRO							MYCOGEN						
720B	B	W	P	E	58	E	627	B	W	P	ME	64	-
X1734	B	HY	T	E	60	CE	697	B	W	P	M	64	CEIK
764B	B	HY	T	ME	64	CDE	1G600	B	HY	P	ME	68	CEIK
766B	B	HY	T	ME	65	CDE	737	B	W	P	M	69	-
752B	B	Y	P	M	66	-	M3838	C	HY	P	ME	69	E
772B	B	HY	T	M	68	CE	NC+						
751B	B	W	T	ML	69	CE	5B89	B	HY	P	E	61	C
780B	B	Y	P	L	72	CE	6B50	B	W	P	ME	62	-
FONTANELLE							FRONTIER						
GE-4532	B	Y	P	ME	62	CE	7C22	Cr	HY	P	M	69	C
GE-5615	B	Y	P	M	67	CE	7B47	B	HY	P	M	70	CE
FRONTIER							FRONTIER						
F222E	R	Y	P	E	52	E	7B51	B	-	P	M	70	-
F270E	B	Y	P	E	55	E	7R34	R	W	P	M	70	-
F305C	C	Y	P	M	57	E	7R83	R	W	P	M	72	-
F303C	C	Y	P	M	58	E	8R18	R	W	P	L	75	-
F505E	R	Y	P	M	60	E							

* 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
 GB = resistance to specific greenbug biotypes: C, E, I, K, etc.

Table 24. Entries in the 2006 Kansas Grain Sorghum Performance Tests - continued

BRAND NAME	hybrid traits*						BRAND NAME	hybrid traits*					
	GC	EC	PC	Mat.	Days	GB		GC	EC	PC	Mat.	Days	GB
OHLDE							MATURITY CHECK						
O-595	-	-	-	-	-	-	PIO-86G08	R	W	P	E	65	E
X-575	-	-	-	-	-	-	OK11xTX2741	W	W	P	M	69	-
O-525	B	-	P	ME	64	-	TX2752xTX430	B	W	P	L	73	-
O-530	C	-	P	M	67	CE							
O-567	B	-	P	ML	70	CEIK	AVERAGES	-	-	-	-	-	-
							LSD (0.05)*	-	-	-	-	-	-
PHILLIPS													
664	B	B	P	ME	60	-							
672	B	B	P	M	64	EI							
733Y	Y	Y	P	M	66	CEI							
775	B	B	P	M	67	EI							
PIONEER													
85G01	R	W	P	M	69	E							
85G46	R	W	P	M	69	E							
84G50	B	Y	P	M	70	-							
85Y40	W	Y	P	M	70	-							
84G62	B	Y	P	L	72	E							
SORG. PARTNERS													
KS 310	B	HY	P	E	57	CE							
NK3303	C	Y	T	E	57	C							
NK4420	B	HY	P	M	62	C							
NK5418	B	HY	P	M	66	CE							
KS 585	B	HY	P	M	67	CE							
NK6673	B	HY	P	M	67	C							
X505	B	HY	P	M	67	C							
NK7829	B	HY	P	ML	71	C							
K73-J6	B	HY	P	ML	73	CE							
NK7633	B	HY	P	ML	73	C							
NK7655	C	Y	P	ML	73	C							
TAYLOR													
T-36GS	B	-	-	M	66	-							
T-38GS	C	-	-	L	69	C							
TRIUMPH													
TR 434	R	W	P	E	58	CE							
TR 438	B	W	P	E	60	CE							
TR 442	B	W	P	ME	61	CE							
TR 463	R	W	P	M	62	CE							
TR 481	R	W	P	ML	72	CE							

* 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
 GB = resistance to specific greenbug biotypes: C, E, I, K, etc.

For those interested in accessing crop performance testing information electronically, visit our World Wide Web site. Most of the information contained in this publication is available for viewing or downloading.

The URL is <http://kscroptests.agron.ksu.edu>.

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University Research Policy Agreement with Cooperating Seed Companies*

Permission is hereby given to Kansas State University 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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