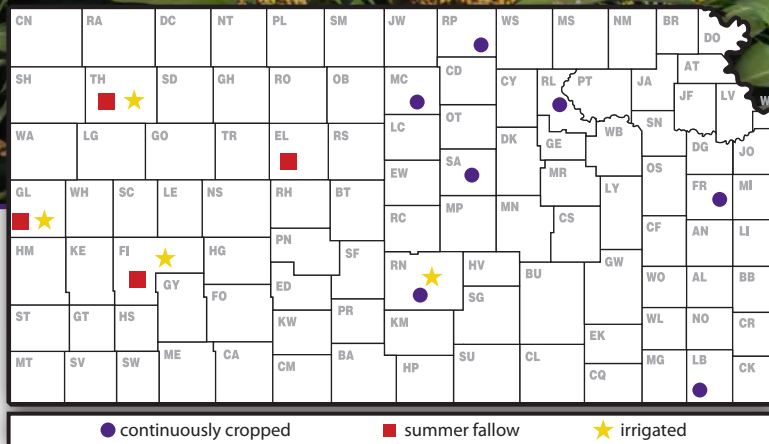
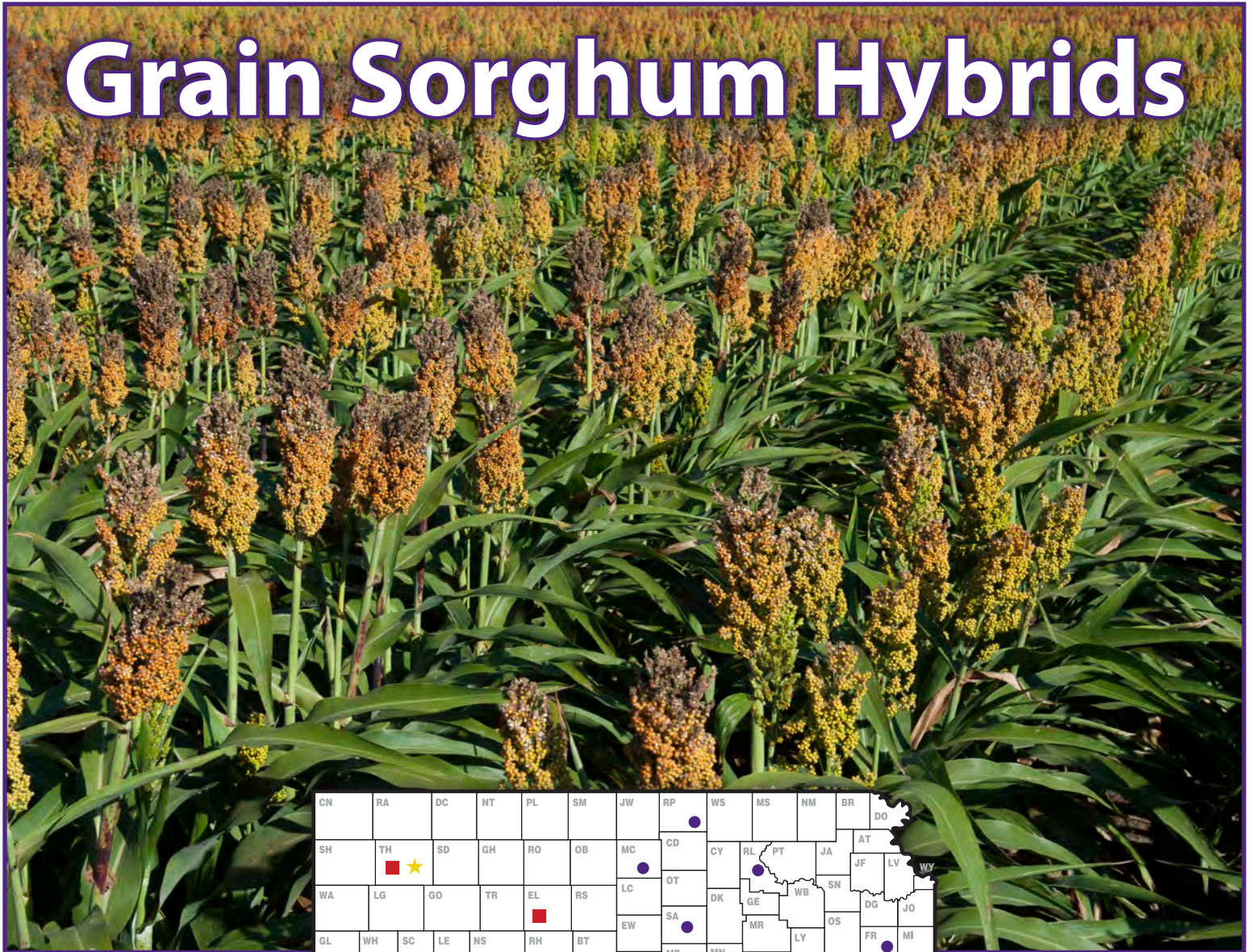


2014 Kansas Performance Tests with

Grain Sorghum Hybrids



Report of Progress 1113



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2014 GRAIN SORGHUM CROP REVIEW

Statewide Growing Conditions

The 2014 Kansas grain sorghum growing season was generally a very productive one. Conditions in the spring started with adequate levels of topsoil moisture for most of the state (Figure 1). Temperatures were uncharacteristically mild throughout the summer months, and timely rains helped the crop progress with few stresses. Some parts of the state did experience dry periods around the time of pollination that reduced the maximum yield potential, but generally the health of the sorghum crop remained consistently good throughout the growing season.

Rainfall increased in the early fall, resulting in the formation of sucker heads and slowing grain drydown into late October and November. Many fields required a freeze to be harvested.

The quality of the grain sorghum crop reflected the milder growing season, and the majority of the crop remained in fair to excellent condition throughout the season (Figure 2).

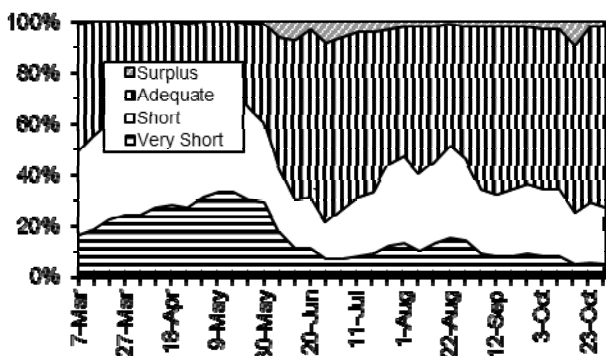


Figure 1. Statewide status of topsoil moisture

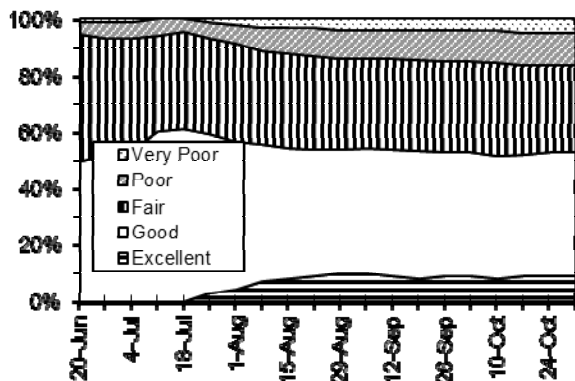


Figure 2. Condition of 2014 Kansas sorghum crop

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

Diseases

The 2014 Kansas sorghum crop may have been one of the healthiest in years. Some problems were reported throughout the growing season, but most were minor in severity. Some fields around the state suffered from Fusarium seedling blight and required replanting. Sorghum downy mildew was reported in southeast and central Kansas. This disease is associated with soils that remain saturated for extended periods of time, especially early in the season. Yield losses from downy mildew are generally minimal.

At the higher altitudes of western Kansas, summer rains caused bacterial leaf diseases to develop. Although affected leaves have a distinctive purple striped appearance, no yield loss is typically associated with bacterial infections. Numerous reports of physiological problems occurred throughout the reproductive stages of sorghum growth. These are non-pathogenic problems caused by an interaction of hybrid genetics with specific environmental conditions. They often mimic diseases, but they do not spread and usually do not result in yield loss. If you looked hard enough, sooty stripe and northern corn leaf blight could be found, but little or no economic yield loss occurred.

Late in the season, a number of reports of grain mold and Fusarium stalk rot were received, but these were few in number compared with some previous years. There were no observations or reports of stalk rot associated lodging in the state. There were also no reports of sorghum ergot in 2014. (Doug Jardine, Kansas State University Department of Plant Pathology)

Insects

Much like corn in 2014, sorghum had no large-scale, widespread pest infestations. However, there were localized problems. Fall armyworms and cattail caterpillars caused some concern throughout south central and north central Kansas on plants in the whorl stage. Whorl stage leaf feeding can be highly visible but rarely translates into yield reductions, and insecticide applications are usually ineffective anyway.

Chinch bugs increased later in the season and may be problematic in 2015. Sorghum aphids/ white sugarcane aphids were detected for the first time ever in Kansas from Sumner County in August, by Dr. Scott Armstrong, USDA in Stillwater. (Jeff Whitworth, Kansas State University Department of Entomology)

Harvest Statistics

The Kansas Agricultural Statistics Service predicted a 182 million-bushel crop in the September 11 Crops Report, (Figure 3). The number of acres harvested was down 7% from 2013 at 2.6 million. The average yield estimate of 70 bushels per acre is 11 bushels higher than last year's yield. (Kansas Agricultural Statistics Service, Topeka)

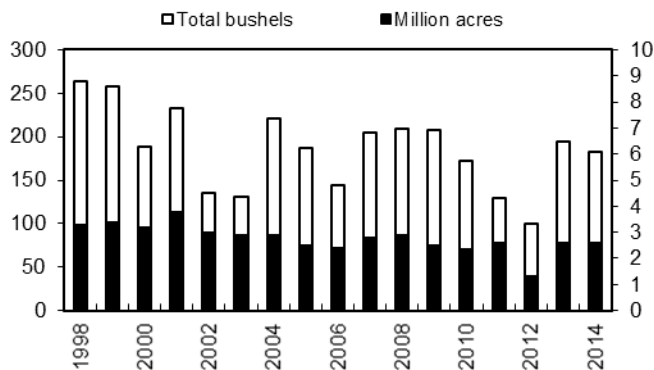


Figure 3. Historical Kansas grain sorghum production

2014 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 2014 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 19 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.

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 the 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 2014 Kansas Grain Sorghum Performance Tests

Alta Seeds
Amarillo, TX
806-445-6282
altaseeds.com

Browning Seed Inc.
Plainview, TX
806-293-5271
browningseed.com

Golden Acres Genetics
Waco, TX
254-761-9838
gaseed.com

Polansky Seed, Inc.
Belleville, KS
785-527-2271
polanskyseed.com

Armor Seed LLC
Waldenburg, AR
870-579-2286
armorseed.com

**DeKalb
Monsanto Seed**
St. Louis, MO
800-335-2676
dekalb.com

Heartland Genetics LLC
Beloit, KS
785-738-5134

Richardson Seeds
Vega, TX
806-267-2528
nuseed.com

B-H Genetics
Ganado, TX
361-771-2755
bhgenetics.com

Dyna-Gro Seed
Wichita, KS
316-794-2231
cpsagu.com

Mycogen Seeds
Indianapolis, IN
317-337-3892
dow.com

Warner Seeds, Inc.
Hereford, TX
806-364-4470
warnerseeds.com

NORTHEAST KANSAS DRYLAND GRAIN SORGHUM TEST

Agronomy North Farm, Manhattan; Jane Lingenfelser, agronomist

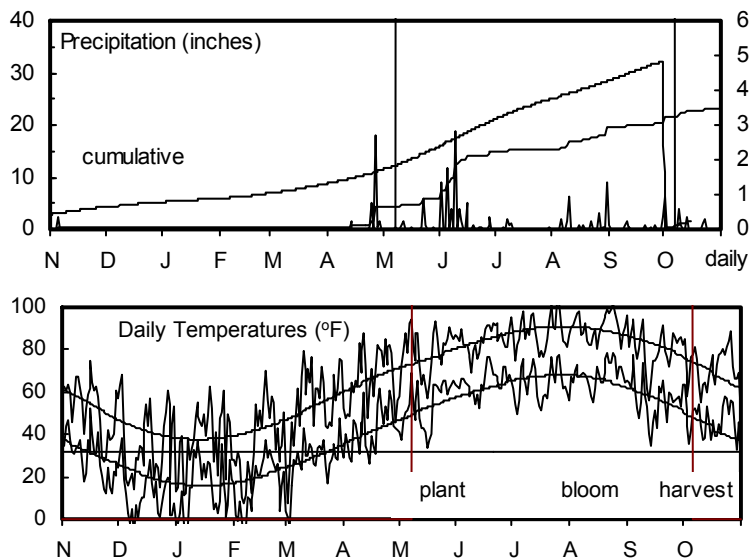
Reading silt loam; soybean in 2013

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

Planted on 5/8/2014; Harvested on 10/5/2014

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

Good rainfall and cooler temperatures in June could not quite offset dry weather during the bloom period in July.



Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	0.4	6.0	32	35		
April	4.0	2.6	55	53	736	575
May	1.5	4.5	66	64	1003	918
June	8.8	5.1	75	73	1166	1158
July	0.7	4.0	77	79	1215	1369
August	4.0	3.5	80	78	1298	1317
Sept.	1.2	3.8	69	70	1010	1035
Oct.	2.5	1.4	59	60	821	387
Totals:	23.0	30.9	53	54	7,249	6,759

Table 2. Riley County Dryland Grain Sorghum Performance Test, 2012-2014

BRAND	NAME	YIELD AS % 2013-2014															
		ACRE YIELD, BUSHELS				YIELD AS % OF TEST			Days Grain		Days Grain		Test		Plnt		Pop.
		2014	2013	2-yr. 3-yr.		AVERAGE			to moist.	to moist.	lb/bu	in.	%	Ldg	1000		
				2012	AVG.	2014	2013	2012								blm	%
DEKALB	DKS29-28	109	--	--	--	103	--	--	--	--	67	13	58	--	--	47	
DYNA-GRO	772B	108	--	--	--	102	--	--	--	--	67	13	58	--	--	49	
HEARTLAND GENETICS	HG48-B	101	--	--	--	96	--	--	--	--	67	12	58	--	--	44	
DEKALB	DKS53-53	107	--	--	--	101	--	--	--	--	68	14	60	--	--	47	
MATURITY CHECK	MEDIUM (DKS38-88)	109	129	--	119	--	104	97	--	66	16	68	13	58	--	--	49
ALTA	AG2104	104	131	--	117	--	98	98	--	64	17	69	13	59	--	--	47
ALTA	AG2105	112	--	--	--	106	--	--	--	--	69	12	60	--	--	42	
DEKALB	DKS41-50	116	--	--	--	110	--	--	--	--	69	14	60	--	--	45	
DEKALB	DKS44-20	107	143	97	125	116	101	107	98	69	21	69	13	61	--	--	45
DYNA-GRO	M77GB52	103	--	--	--	98	--	--	--	--	69	13	59	--	--	48	
ALTA	AG2115	97	132	--	114	--	92	99	--	66	16	70	13	60	--	--	43
DYNA-GRO	GX13355	99	--	--	--	94	--	--	--	--	70	13	59	--	--	44	
DYNA-GRO	GX14452	104	--	--	--	99	--	--	--	--	70	13	59	--	--	41	
HEARTLAND GENETICS	HG52-B	123	--	--	--	117	--	--	--	--	70	14	61	--	--	42	
POLANSKY	GS761	112	--	--	--	107	--	--	--	--	70	13	61	--	--	51	
ALTA	AG1203	112	--	--	--	106	--	--	--	--	71	13	60	--	--	37	
ALTA	AG2101	108	119	--	114	--	103	89	--	69	19	71	13	60	--	--	45
ALTA	AG2102	109	150	--	129	--	103	112	--	69	18	71	13	59	--	--	52
ALTA	XG30003	101	--	--	--	96	--	--	--	--	71	13	59	--	--	44	
DYNA-GRO	GX13501	97	--	--	--	92	--	--	--	--	71	13	59	--	--	44	
DYNA-GRO	M75GB39	105	--	--	--	100	--	--	--	--	71	13	58	--	--	57	
DYNA-GRO	M75GR47	102	--	--	--	97	--	--	--	--	71	14	60	--	--	48	
DYNA-GRO	766B	102	--	--	--	97	--	--	--	--	71	13	60	--	--	40	
MATURITY CHECK	LATE (DKS54-00)	116	--	--	--	110	--	--	--	--	71	13	61	--	--	44	
RICHARDSON	0413	118	128	--	123	--	112	96	--	70	18	71	13	60	--	--	49
RICHARDSON	92123	107	121	--	114	--	101	90	--	69	16	71	13	60	--	--	47
DEKALB	DKS51-01	108	130	100	119	113	102	97	101	71	18	72	13	58	--	--	40
POLANSKY	GS665W	110	--	--	--	104	--	--	--	--	72	13	59	--	--	43	
RICHARDSON	96173	113	134	--	123	--	107	100	--	70	18	72	13	60	--	--	48
RICHARDSON	68653	86	132	--	109	--	81	99	--	74	19	73	12	58	--	--	42
RICHARDSON	06173	107	144	--	126	--	102	108	--	74	19	73	13	59	--	--	46
DYNA-GRO	M72GW14	105	--	--	--	99	--	--	--	--	74	13	61	--	--	37	
MATURITY CHECK	EARLY (MY. 1G557)	100	--	--	--	95	--	--	--	--	75	13	58	--	--	44	
HEARTLAND GENETICS	HGX5000	79	--	--	--	75	--	--	--	--	75	13	60	--	--	39	
DYNA-GRO	GX13363	91	--	--	--	87	--	--	--	--	76	13	60	--	--	40	
ALTA	AG2103	109	133	--	121	--	103	99	--	71	19	78	13	59	--	--	69
	Average	105	134	99	120	113	100	100	100	69	18	71	13	59	--	--	46
	CV (%)	10	8	10	--	--	10	8	10	--	--	2	8	3	--	--	13
	LSD (0.05)	14	16	14	--	--	13	12	14	--	--	2	1	2	--	--	8

*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 Exp. Field, Belleville; Michael Larson and Doug Stensaas, technicians

Crete silt loam; wheat in 2013

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

Planted on 5/9/2014; Harvested on 10/8/2014

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

Test recovered from erratic stands caused by cool temperatures at planting.

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	1.4	4.8	30	32		
April	0.7	2.3	52	52	699	534
May	0.4	3.7	64	63	968	886
June	5.2	4.6	73	73	1120	1149
July	1.4	3.4	75	78	1169	1368
August	5.5	3.4	76	77	1224	1310
Sept.	3.4	3.5	66	68	941	987
Oct.	1.5	0.8	56	59	792	375
Totals:	19.5	26.5	51	52	6,914	6,609

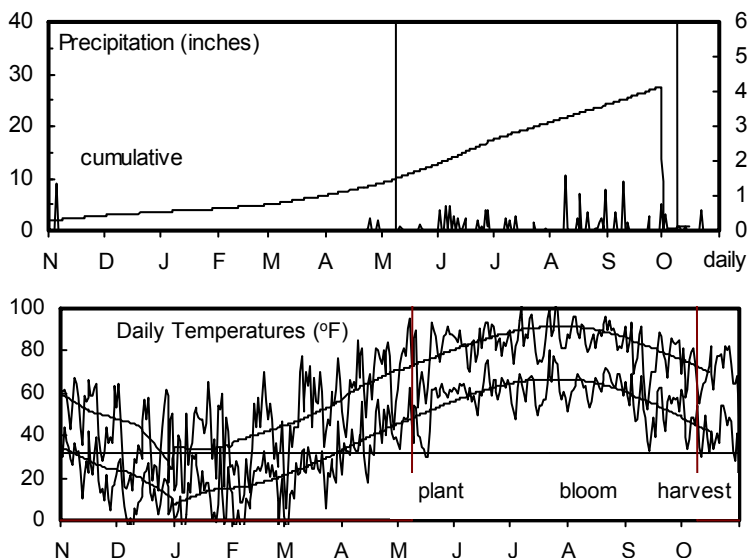


Table 3. Republic County Dryland Grain Sorghum Performance Test, 2012-2014

BRAND	NAME	ACRE YIELD, BUSHELS		YIELD AS %			2013-2014		Days Grain to moist.	Days Grain to moist.	Test wt. lb/bu	Plnt ht. in.	Ldg %	Pop. 1000 ppa	
		2014	2013	2-yr. 3-yr.		OF TEST									
		2012	2012	AVG.	AVG.	2014	2013	2012							blm
ALTA	AG1203	130	--	--	--	117	--	--	--	14	59	--	--	--	
ALTA	AG2102	128	121	--	124	--	115	107	--	--	14	59	--	--	
ALTA	AG2103	113	124	--	118	--	102	110	--	--	15	58	--	--	
ALTA	AG2105	91	--	--	--	82	--	--	--	--	13	58	--	--	
ALTA	AG2115	115	106	--	--	104	94	--	--	--	14	59	--	--	
DEKALB	DKS29-28	101	--	--	--	91	--	--	--	--	13	57	--	--	
DEKALB	DKS41-50	113	--	--	--	102	--	--	--	--	16	58	--	--	
DEKALB	DKS44-20	120	125	122	122	122	108	110	115	65	15	59	--	--	
DEKALB	DKS51-01	150	121	108	136	126	135	107	101	72	14	59	--	--	
DEKALB	DKS53-53	133	--	--	--	120	--	--	--	--	14	59	--	--	
DEKALB	DKS53-67	121	148	89	134	119	109	131	84	78	14	59	--	--	
DYNA-GRO	722B	103	--	--	--	93	--	--	--	--	12	57	--	--	
DYNA-GRO	766B	123	--	--	--	111	--	--	--	--	13	59	--	--	
DYNA-GRO	772B	128	--	--	--	115	--	--	--	--	14	59	--	--	
DYNA-GRO	GX13355	101	--	--	--	91	--	--	--	--	11	57	--	--	
DYNA-GRO	GX13363	121	--	--	--	109	--	--	--	--	13	59	--	--	
DYNA-GRO	GX13501	97	--	--	--	87	--	--	--	--	17	57	--	--	
DYNA-GRO	GX14452	109	--	--	--	98	--	--	--	--	14	58	--	--	
DYNA-GRO	M71GB01	110	--	--	--	99	--	--	--	--	12	56	--	--	
DYNA-GRO	M72GW14	60	--	--	--	54	--	--	--	--	16	58	--	--	
DYNA-GRO	M75GB39	107	--	--	--	96	--	--	--	--	18	58	--	--	
DYNA-GRO	M75GR47	111	--	--	--	100	--	--	--	--	12	60	--	--	
DYNA-GRO	M77GB52	108	--	--	--	97	--	--	--	--	12	59	--	--	
GOLDEN ACRES	3545	130	133	115	131	126	117	118	108	71	16	58	--	--	
GOLDEN ACRES	3552	103	--	--	--	93	--	--	--	--	14	58	--	--	
GOLDEN ACRES	3637	103	--	--	--	93	--	--	--	--	12	58	--	--	
GOLDEN ACRES	GA 5556	102	107	104	104	104	92	95	98	71	16	58	--	--	
GOLDEN ACRES	GA 5613	81	111	--	96	--	73	98	--	--	14	56	--	--	
GOLDEN ACRES	H-390W	91	--	--	--	82	--	--	--	--	15	57	--	--	
HEARTLAND GENETICS	HG48-B	121	--	--	--	109	--	--	--	--	11	58	--	--	
HEARTLAND GENETICS	HG52-B	118	--	--	--	106	--	--	--	--	13	59	--	--	
HEARTLAND GENETICS	HGX5000	111	--	--	--	100	--	--	--	--	14	59	--	--	
MATURITY CHECK	EARLY (MY. 1G557)	109	--	--	--	99	--	--	--	--	17	58	--	--	
MATURITY CHECK	LATE (DKS54-00)	145	--	--	--	131	--	--	--	--	14	58	--	--	
MATURITY CHECK	MEDIUM (DKS38-88)	97	--	--	--	87	--	--	--	--	13	58	--	--	
POLANSKY	GS 679	111	--	--	--	100	--	--	--	--	14	58	--	--	
POLANSKY	GS761	106	113	--	110	--	96	100	--	--	15	57	--	--	
RICHARDSON	0413	125	122	--	123	--	113	109	--	--	15	58	--	--	
RICHARDSON	06173	104	118	--	111	--	94	105	--	--	15	59	--	--	
RICHARDSON	68653	88	119	--	103	--	79	106	--	--	17	57	--	--	
RICHARDSON	92123	106	96	--	101	--	95	85	--	--	14	59	--	--	
RICHARDSON	96173	122	132	--	127	--	110	117	--	--	15	59	--	--	
WARNER SEEDS	W-7012	104	--	--	--	94	--	--	--	--	14	58	--	--	
	Average	111	113	107	112	110	100	100	100	71	15	58	--	--	
	CV (%)	9	8	10	--	--	9	8	10	--	--	21	2	--	--
	LSD (0.05)	17	15	19	--	--	15	13	17	--	--	5	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 4. NORTHEAST Kansas Grain Sorghum Hybrid Yield Summary (% of test avg.), 2014.

BRAND/NAME	RLD	RPD	MTD	AVG.	BRAND/NAME	RLD	RPD	MTD	AVG.
ALTA					GOLDEN ACRES				
AG1203	106	117	--	111	3545	--	117	--	--
AG2101	103	--	--	--	3552	--	93	--	--
AG2102	103	115	--	109	3637	--	93	--	--
AG2103	103	102	--	102	GA 5556	--	92	--	--
AG2104	98	--	--	--	GA 5613	--	73	--	--
AG2105	106	82	--	94	H-390W	--	82	--	--
AG2115	92	104	--	98	HEARTLAND GENETICS				
XG30003	96	--	--	--	HG48-B	96	109	--	102
DEKALB					HG52-B	117	106	--	111
DKS29-28	103	91	--	97	HGX5000	75	100	--	87
DKS41-50	110	102	--	106	POLANSKY				
DKS44-20	101	108	--	105	GS 679	--	100	--	--
DKS51-01	102	135	--	119	GS665W	104	--	--	--
DKS53-53	101	120	--	111	GS761	107	96	--	101
DKS53-67	--	109	--	--	RICHARDSON				
DYNA-GRO					0413	112	113	--	112
722B	--	93	--	--	06173	102	94	--	98
766B	97	111	--	104	68653	81	79	--	80
772B	102	115	--	109	92123	101	95	--	98
GX13355	94	91	--	92	96173	107	110	--	108
GX13363	87	109	--	98	WARNER SEEDS				
GX13501	92	87	--	89	W-7012	--	94	--	--
GX14452	99	98	--	99	MATURITY CHECK				
M71GB01	--	99	--	--	EARLY (MY. 1G557)	95	99	--	97
M72GW14	99	54	--	77	LATE (DKS54-00)	110	131	--	120
M75GB39	100	96	--	98	MEDIUM (DKS38-88)	104	87	--	95
M75GR47	97	100	--	99	AVERAGES (bu/a)				
M77GB52	98	97	--	98		105	111	--	108
					CV (%)				
						10	9	--	--
					LSD (0.05)				
						13	15	--	--

* RLD = Riley Co., Manhattan RPD = Republic Co., Belleville MTD = Mitchell Co., Beloit; abandoned.

SOUTHEAST KANSAS DRYLAND GRAIN SORGHUM TEST

East Central Kansas Experiment Field, Ottawa; Eric Adee, agronomist; Jim Kimball, technician

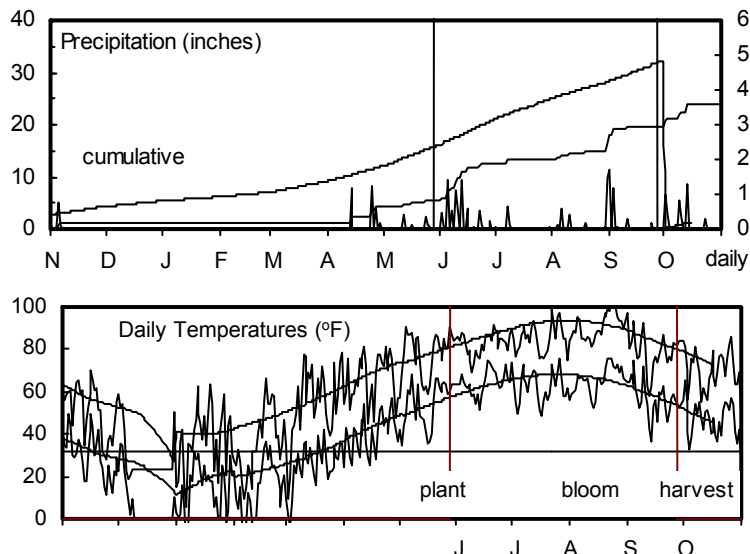
Woodson silt loam; corn in 2013

120 - 40 - 13 lb/a N, P, K

Planted on 5/29/2014; Harvested on 9/26/2014

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

Head emergence was a struggle for most hybrids due to minimal rainfall during bloom period.



Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	1.0	6.4	30	37		
April	3.3	2.9	53	56	704	634
May	1.2	4.1	66	65	1004	953
June	7.1	4.9	74	74	1148	1186
July	0.8	4.0	74	80	1169	1401
August	2.9	3.2	79	79	1268	1362
Sept.	3.4	4.0	68	71	989	1062
Oct.	4.4	1.2	58	62	792	416
Totals:	24.1	30.8	52	56	7,074	7,014

Table 5. Franklin County Dryland Grain Sorghum Performance Test, 2012-2014

BRAND	NAME	ACRE YIELD, BUSHELS		YIELD AS %			2013-2014		Days Grain to moist.	Days Grain to moist.	Test wt. lb/bu	Plnt ht. in.	Ldg %	Pop. 1000 ppa		
		2014	2013	OF TEST			Days Grain	Days Grain								
		2012	2012	AVERAGE			to moist.	to moist.								
		2-yr. AVG.	3-yr. AVG.	2014	2013	2012	blm %	blm %								
MATURITY CHECK	EARLY (MY. 1G557)	102	--	--	--	88	--	--	--	58	16	53	--	--	55	
DEKALB	DKS29-28	110	--	--	--	95	--	--	--	60	17	56	--	--	55	
DEKALB	DKS44-20	124	153	56	139	111	107	103	134	65	16	64	18	56	--	55
MATURITY CHECK	MEDIUM (DKS38-88)	110	143	--	126	--	95	96	--	66	15	65	18	55	--	59
DEKALB	DKS49-45	110	158	27	134	98	95	106	63	69	16	66	18	53	--	55
DEKALB	DKS41-50	115	--	--	--	--	99	--	--	--	--	66	18	57	--	54
DEKALB	DKS53-53	128	--	--	--	--	110	--	--	--	--	67	19	55	--	54
MATURITY CHECK	LATE (DKS54-00)	127	--	--	--	--	110	--	--	--	--	70	19	53	--	44
	Average	116	149	42	132	102	100	100	100	67	16	65	18	55	--	54
	CV (%)	6	6	11	--	--	6	6	11	--	--	1	2	1	--	10
	LSD (0.05)	10	13	7	--	--	8	9	7	--	--	0	1	1	--	8

*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

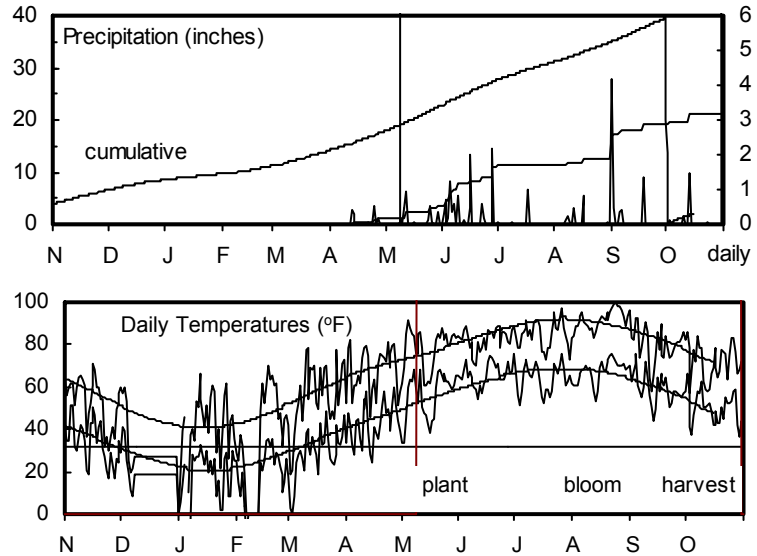
Parsons silt loam; wheat in 2013

120 - 16 - 12 lb/a N, P, K

Planted on 5/9/2014; Harvested on 10/29/2014

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

Summer was cool and wet. Drydown was delayed by the presence of suckerheads.



Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	0.0	10.3	33	39		
April	1.5	3.7	56	57	744	668
May	2.8	5.0	67	65	1037	952
June	9.7	4.8	74	74	1169	1178
July	1.1	3.6	75	80	1198	1385
August	1.8	3.8	80	79	1294	1345
Sept.	6.7	4.5	70	71	1034	1075
Oct.	1.8	1.9	60	63	836	421
Totals:	25.6	37.5	54	57	7,312	7,022

Table 6. Labette County Dryland Grain Sorghum Performance Test, 2012-2014

BRAND	NAME	YIELD AS %										2013-2014				Pop. 1000 ppa		
		ACRE YIELD, BUSHELS					OF TEST					Days Grain to moist. blm %	Days Grain to moist. blm %	Test wt. lb/bu	Plnt ht. in.		Ldg %	
		2014	2013	2012	2012	AVG. AVG.	2014	2013	2012	2012	AVERAGE							
		2-yr.	3-yr.															
MATURITY CHECK	EARLY (MY. 1G557)	82	--	--	--	--	75	--	--	--	--	--	50	13	--	44	--	54
DEKALB	DKS29-28	90	--	--	--	--	82	--	--	--	--	--	51	13	--	42	--	57
ALTA	AG2104	103	105	--	104	--	94	83	--	59	14	56	13	--	47	--	55	
ALTA	AG2115	114	126	--	120	--	104	100	--	60	14	57	13	--	49	--	54	
MATURITY CHECK	MEDIUM (DKS38-88)	146	135	--	141	--	133	107	--	58	14	57	13	--	58	--	51	
DEKALB	DKS38-88	133	--	--	--	--	121	--	--	--	--	58	14	--	56	--	53	
ALTA	AG1203	107	--	--	--	--	98	--	--	--	--	59	13	--	49	--	52	
ALTA	XG30003	130	--	--	--	--	119	--	--	--	--	60	14	--	49	--	48	
DEKALB	DKS41-50	131	--	--	--	--	120	--	--	--	--	60	14	--	55	--	49	
ALTA	AG2105	48	--	--	--	--	44	--	--	--	--	61	14	--	50	--	50	
DEKALB	DKS53-67	146	148	35	147	110	134	117	137	63	14	61	13	--	53	--	48	
ALTA	AG2102	124	126	--	125	--	113	100	--	62	14	62	13	--	49	--	57	
DEKALB	DKS53-53	128	--	--	--	--	117	--	--	--	--	62	14	--	54	--	48	
WARNER SEEDS	W-7012	68	--	--	--	--	62	--	--	--	--	62	13	--	56	--	46	
DEKALB	DKS51-01	140	--	--	--	--	128	--	--	--	--	63	14	--	57	--	41	
MATURITY CHECK	LATE (DKS54-00)	61	--	--	--	--	56	--	--	--	--	63	13	--	49	--	7	
	Average	110	126	26	118	87	100	100	100	60	14	59	13	--	51	--	48	
	CV (%)	11	8	13	9	11	11	8	13	--	--	2	4	--	5	--	7	
	LSD (0.05)	17	14	5	15	12	16	11	18	--	--	2	1	--	4	--	5	

*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 7. SOUTHEAST Kansas Grain Sorghum Hybrid Yield Summary (% of test avg.), 2014

BRAND/NAME	FRD	LBD	AVG.
ALTA			
AG1203	--	98	--
AG2102	--	113	--
AG2104	--	94	--
AG2105	--	44	--
AG2115	--	104	--
XG30003	--	119	--
DEKALB			
DKS29-28	95	82	89
DKS38-88	--	121	--
DKS41-50	99	120	110
DKS44-20	107	--	--
DKS49-45	95	--	--
DKS51-01	--	128	--
DKS53-53	110	117	114
DKS53-67	--	134	--
WARNER SEEDS			
W-7012	--	62	--
MATURITY CHECK			
EARLY (MY. 1G557)	88	75	82
LATE (DKS54-00)	110	56	83
MEDIUM (DKS38-88)	95	133	114
AVERAGES (bu/a)	116	110	113
CV (%)	6	11	--
LSD (0.05)	8	16	--

CENTRAL KANSAS DRYLAND GRAIN SORGHUM TEST

Clayton Short farm, Assaria; Jane Lingenfelter, agronomist

Hord silt loam; soybean in 2013

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

Planted on 5/7/2014; Harvested on 10/9/2014

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

Cooler temperatures and timely rains minimized the stresses on the sorghum crop.

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar	2.4	6.9	34	37		
April	1.3	3.0	55	55	756	593
May	4.0	5.1	68	65	1029	923
June	8.2	4.2	77	75	1197	1211
July	0.7	4.3	79	81	1259	1431
August	5.0	3.5	82	80	1316	1394
Sept.	4.1	2.5	70	71	1043	1072
Oct.	1.6	1.3	60	62	848	407
Totals:	27.3	30.9	55	56	7,447	7,031

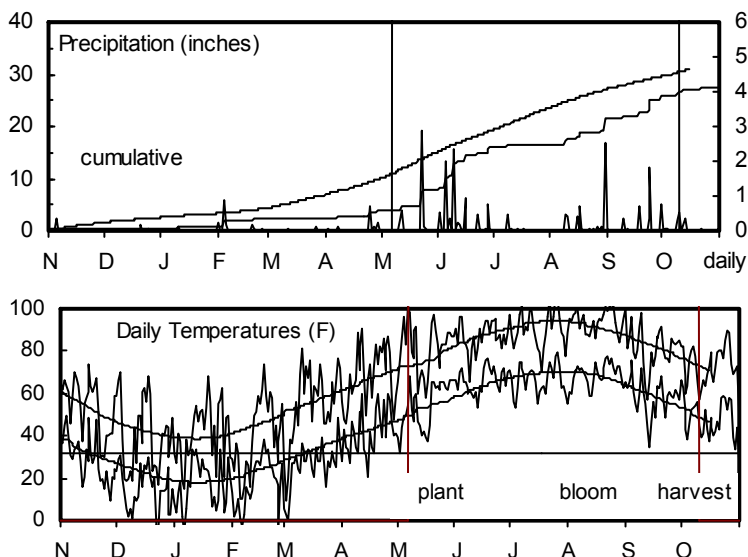


Table 8. Saline County Dryland Grain Sorghum Performance Test, 2012-2014

BRAND	NAME	ACRE YIELD, BUSHELS		YIELD AS % OF TEST			2013-2014		Plnt	Pop.			
		2014	2013	AVERAGE			Days to moist.	Days Grain					
				2012	2012	2013					2012	blm	%
				2-yr. AVG.	3-yr. AVG.		blm	%	lb/bu	in.	Ldg %	1000 ppa	
ARMOR	3108	109	--	--	--	103	--	--	16	59	--	49	
ARMOR	3197R	93	--	--	--	88	--	--	21	59	--	48	
ARMOR	AXM11043	108	--	--	--	102	--	--	16	56	--	46	
ARMOR	AXM12423	89	--	--	--	84	--	--	16	55	--	46	
ARMOR	AXM68653	86	--	--	--	81	--	--	17	55	--	48	
ARMOR	AXM8041	112	--	--	--	105	--	--	16	59	--	53	
ARMOR	AXM9010	94	--	--	--	89	--	--	16	57	--	49	
ARMOR	AXM9033	103	--	--	--	97	--	--	17	57	--	48	
ARMOR	AXM9058	113	--	--	--	107	--	--	14	59	--	50	
ARMOR	AXM91743	104	--	--	--	98	--	--	17	55	--	53	
ARMOR	AXM9813	105	--	--	--	99	--	--	17	61	--	52	
ARMOR	BANDIT	108	--	--	--	102	--	--	17	60	--	59	
ARMOR	LSB50	100	--	--	--	94	--	--	16	57	--	56	
DEKALB	DKS29-28	100	--	--	--	94	--	--	14	52	--	56	
DEKALB	DKS41-50	110	--	--	--	104	--	--	21	60	--	52	
DEKALB	DKS51-01	111	--	--	--	105	--	--	18	59	--	52	
DEKALB	DKS53-53	114	--	--	--	107	--	--	16	59	--	47	
DEKALB	DKS53-67	126	144	--	135	119	117	--	20	16	60	--	62
HEARTLAND GENETICS	HG48-B	118	--	--	--	111	--	--	15	58	--	55	
HEARTLAND GENETICS	HG52-B	122	--	--	--	115	--	--	14	57	--	63	
HEARTLAND GENETICS	HGX5000	104	--	--	--	98	--	--	15	59	--	55	
MATURITY CHECK	EARLY (MY. 1G557)	101	--	--	--	95	--	--	12	61	--	57	
MATURITY CHECK	LATE (DKS54-00)	118	--	--	--	111	--	--	16	59	--	54	
MATURITY CHECK	MEDIUM (DKS38-88)	113	114	--	114	107	92	--	19	16	59	--	54
POLANSKY	GS718	111	--	--	--	104	--	--	17	60	--	49	
POLANSKY	GS761	102	--	--	--	96	--	--	18	60	--	50	
WARNER SEEDS	W-7012	90	--	--	--	85	--	--	16	59	--	54	
	Average	106	124	--	--	100	100	--	20	16	58	--	53
	CV (%)	9	6	--	--	9	6	--	--	12	3	--	7
	LSD (0.05)	14	11	--	--	13	9	--	--	3	2	--	5

*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 DRYLAND GRAIN SORGHUM TEST

South Central Kansas Experiment Field, Hutchinson; Gary Cramer, agronomist; Keith Thompson, technician

Ost loam; soybean in 2013

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

Planted on 5/16/2014; Harvested on 10/24/2014

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

Extensive lodging throughout test.

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	0.7	4.4	30	37		
April	0.8	2.6	54	55	731	617
May	3.8	3.8	67	65	1002	927
June	6.9	4.3	75	75	1163	1196
July	2.9	3.5	76	81	1197	1416
August	2.8	3.1	79	79	1271	1361
Sept.	1.5	3.3	70	70	1041	1053
Oct.	3.0	1.1	60	62	850	407
Totals:	22.3	26.1	53	56	7,255	6,977

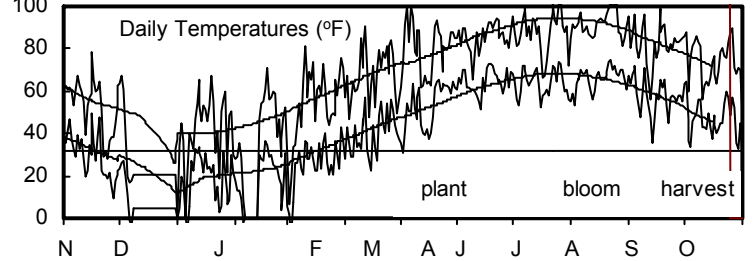
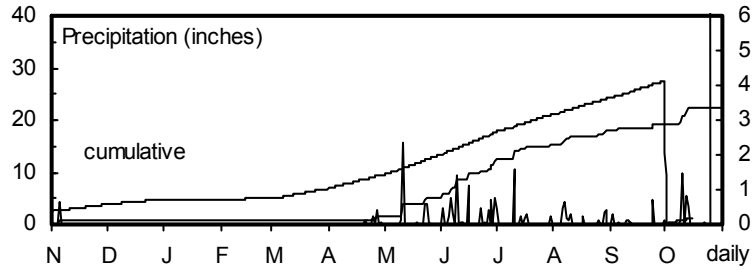


Table 9. Reno County Dryland Grain Sorghum Performance Test, 2012-2014

BRAND	NAME	ACRE YIELD, BUSHEL		YIELD AS %		OF TEST		Days Grain		Days Grain		Test	Plnt	Ldg	Pop.
		2014	2013	2012	2011	2014	2013	2012	to moist.	to moist.	wt.				
		2-yr. AVG.	3-yr. AVG.	AVERAGE		blm	%	blm	%	lb/bu	in.	%	ppa		
ALTA	AG1203	56	--	--	--	71	--	--	--	17	60	--	78	--	
ALTA	AG2101	82	100	--	91	104	103	--	--	16	17	60	--	49	--
ALTA	AG2102	69	107	--	88	87	110	--	--	14	14	57	--	42	--
ALTA	AG2103	92	97	--	95	117	100	--	--	16	17	61	--	88	--
ALTA	AG2104	86	76	--	81	109	79	--	--	16	16	60	--	38	--
ALTA	AG2105	84	--	--	--	106	--	--	--	--	16	61	--	59	--
ALTA	AG2115	93	94	--	94	118	98	--	--	16	16	60	--	60	--
ALTA	AG3101	87	--	--	--	111	--	--	--	--	16	61	--	75	--
ALTA	AG3201	109	--	--	--	139	--	--	--	--	16	60	--	80	--
ARMOR	3108	69	--	--	--	88	--	--	--	--	17	59	--	50	--
ARMOR	3197R	71	--	--	--	91	--	--	--	--	20	59	--	31	--
ARMOR	AXM11043	79	--	--	--	101	--	--	--	--	16	60	--	85	--
ARMOR	AXM12423	83	--	--	--	106	--	--	--	--	16	60	--	60	--
ARMOR	AXM68653	65	--	--	--	83	--	--	--	--	17	57	--	34	--
ARMOR	AXM8041	79	--	--	--	101	--	--	--	--	16	59	--	90	--
ARMOR	AXM9010	63	--	--	--	80	--	--	--	--	16	58	--	89	--
ARMOR	AXM9033	81	--	--	--	103	--	--	--	--	16	60	--	78	--
ARMOR	AXM9058	69	--	--	--	88	--	--	--	--	18	60	--	79	--
ARMOR	AXM91743	86	--	--	--	110	--	--	--	--	15	59	--	80	--
ARMOR	AXM9813	77	--	--	--	98	--	--	--	--	16	60	--	65	--
ARMOR	BANDIT	114	--	--	--	145	--	--	--	--	17	60	--	78	--
ARMOR	LSB50	86	--	--	--	109	--	--	--	--	15	60	--	38	--
BROWNING	775W	76	--	--	--	97	--	--	--	--	15	59	--	80	--
BROWNING	CHALLENGER BMX	70	--	--	--	88	--	--	--	--	17	60	--	14	--
DEKALB	DKS29-28	72	--	--	--	92	--	--	--	--	16	60	--	29	--
DEKALB	DKS38-88	64	100	--	82	81	103	--	--	17	17	60	--	48	--
DEKALB	DKS41-50	100	--	--	--	128	--	--	--	--	16	61	--	80	--
DEKALB	DKS51-01	81	--	--	--	103	--	--	--	--	17	60	--	36	--
DEKALB	DKS53-53	79	--	--	--	101	--	--	--	--	18	61	--	18	--
DEKALB	DKS53-67	66	119	--	93	84	123	--	--	18	19	59	--	40	--
DYNA-GRO	766B	102	--	--	--	130	--	--	--	--	16	61	--	46	--
DYNA-GRO	772B	53	--	--	--	68	--	--	--	--	17	60	--	90	--
DYNA-GRO	GX13363	86	--	--	--	110	--	--	--	--	15	61	--	68	--
DYNA-GRO	GX13364	69	--	--	--	88	--	--	--	--	17	60	--	85	--
DYNA-GRO	GX13501	63	--	--	--	80	--	--	--	--	15	59	--	80	--
DYNA-GRO	GX14171	75	--	--	--	95	--	--	--	--	16	61	--	44	--
DYNA-GRO	GX14452	77	--	--	--	98	--	--	--	--	16	59	--	65	--
DYNA-GRO	GX14577	62	--	--	--	79	--	--	--	--	18	58	--	20	--
DYNA-GRO	M72GW14	75	--	--	--	96	--	--	--	--	17	61	--	34	--
DYNA-GRO	M75GB39	92	--	--	--	117	--	--	--	--	16	60	--	90	--
DYNA-GRO	M75GR47	109	--	--	--	138	--	--	--	--	16	60	--	53	--
DYNA-GRO	M77GB52	79	--	--	--	101	--	--	--	--	16	60	--	73	--
HEARTLAND GENETICS	HG48-B	100	--	--	--	128	--	--	--	--	15	61	--	67	--
HEARTLAND GENETICS	HG52-B	75	--	--	--	96	--	--	--	--	15	59	--	33	--
HEARTLAND GENETICS	HGX5000	75	--	--	--	96	--	--	--	--	16	59	--	39	--
MATURITY CHECK	EARLY (MY. 1G557)	88	--	--	--	111	--	--	--	--	16	60	--	85	--
MATURITY CHECK	LATE (DKS54-00)	70	--	--	--	88	--	--	--	--	17	57	--	65	--
MATURITY CHECK	MEDIUM (DKS38-88)	72	100	--	--	92	103	--	--	17	17	60	--	44	--

Table 9 continued. Reno County Dryland Grain Sorghum Performance Test, 2012-2014

BRAND	NAME	ACRE YIELD, BUSHELS					YIELD AS %			2013-2014							
		2014	2013	2012	2-yr.	3-yr.	OF TEST			Days to blm	Grain to %	Days to blm	Grain to %	Test wt. lb/bu	Plnt ht. in.	Ldg %	Pop. 1000 ppa
					AVG.	AVG.	2014	2013	2012								
POLANSKY	GS665W	74	--	--	--	--	94	--	--	--	--	--	18	60	--	85	--
POLANSKY	GS761	97	--	--	--	--	123	--	--	--	--	--	16	60	--	83	--
RICHARDSON	0413	74	--	--	--	--	95	--	--	--	--	--	15	58	--	75	--
RICHARDSON	06173	64	--	--	--	--	82	--	--	--	--	--	21	58	--	34	--
RICHARDSON	68653	48	--	--	--	--	61	--	--	--	--	--	20	57	--	30	--
RICHARDSON	92123	80	--	--	--	--	102	--	--	--	--	--	15	60	--	53	--
RICHARDSON	96173	75	--	--	--	--	95	--	--	--	--	--	17	61	--	45	--
	Average	79	97	--	88	--	100	100	--	--	16	--	17	60	--	59	--
	CV (%)	12	11	--	11	--	12	11	--	--	--	--	12	2	--	--	--
	LSD (0.05)	13	15	--	14	--	17	15	--	--	--	--	3	2	--	--	--

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

Top LSD group in bold.

Table 10. CENTRAL Kansas Sorghum Hybrid Yield Summary (% of test avg.), 2014

BRAND/NAME	SAD	RND	AVG.	BRAND/NAME	SAD	RND	AVG.	
ALTA				DYNA-GRO				
AG1203	--	71	--	766B	--	130	--	
AG2101	--	104	--	772B	--	68	--	
AG2102	--	87	--	GX13363	--	110	--	
AG2103	--	117	--	GX13364	--	88	--	
AG2104	--	109	--	GX13501	--	80	--	
AG2105	--	106	--	GX14171	--	95	--	
AG2115	--	118	--	GX14452	--	98	--	
AG3101	--	111	--	GX14577	--	79	--	
AG3201	--	139	--	M72GW14	--	96	--	
ARMOR				M75GB39				
3108	103	88	96	M75GR47	--	138	--	
3197R	88	91	89	M77GB52	--	101	--	
AXM11043	102	101	101	HEARTLAND GENETICS				
AXM12423	84	106	95	HG48-B	111	128	119	
AXM68653	81	83	82	HG52-B	115	96	105	
AXM8041	105	101	103	HGX5000	98	96	97	
AXM9010	89	80	84	POLANSKY				
AXM9033	97	103	100	GS665W	--	94	--	
AXM9058	107	88	97	GS718	104	--	--	
AXM91743	98	110	104	GS761	96	123	109	
AXM9813	99	98	98	RICHARDSON				
BANDIT	102	145	124	0413	--	95	--	
LSB50	94	109	102	06173	--	82	--	
BROWNING				68653				
775W	--	97	--	92123	--	102	--	
CHALLENGER BMX	--	88	--	96173	--	95	--	
DEKALB				WARNER SEEDS				
DKS29-28	94	92	93	W-7012	85	--	--	
DKS38-88	--	81	--	MATURITY CHECK				
DKS41-50	104	128	116	EARLY (MY. 1G557)	95	111	103	
DKS51-01	105	103	104	LATE (DKS54-00)	111	88	100	
DKS53-53	107	101	104	MEDIUM (DKS38-88)	107	92	99	
DKS53-67	119	84	102	AVERAGES (bu/a)				
					106	79	92	
					CV (%)	9	12	--
					LSD (0.05)	13	17	--

SAD = Saline Co., Assaria

RND = Reno Co., Hutchinson

WESTERN KANSAS FALLOW GRAIN SORGHUM TEST

Agricultural Research Center, Hays; Wayne Aschwege, technician

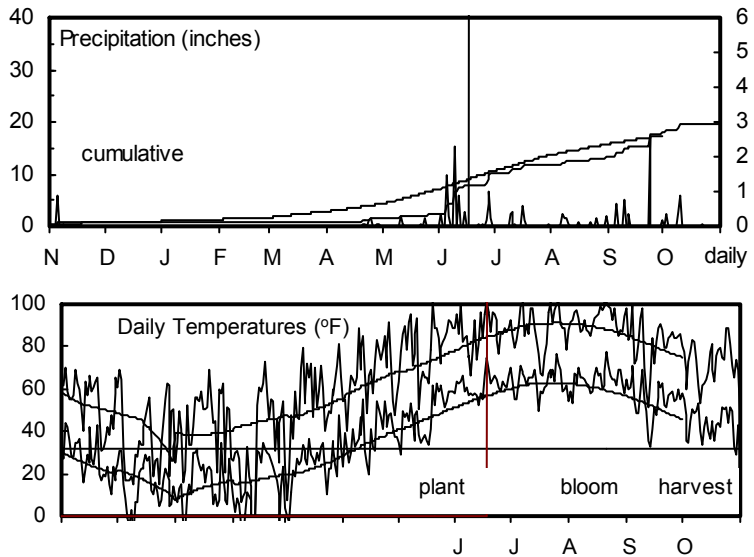
Harney silt loam; wheat in 2013

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

Planted on 6/18/2014; Harvested on 11/4/2014

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

Cooler temperatures and wetter summer than normal.



Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	0.9	2.4	32	32		
April	0.7	1.4	53	49	724	478
May	0.6	2.9	64	59	957	833
June	7.9	3.4	75	70	1127	1109
July	1.7	3.1	76	76	1194	1344
August	1.6	2.1	79	74	1248	1286
Sept.	4.6	1.6	69	66	1001	984
Oct.	1.8	0.7	58	28	807	454
Totals:	19.7	21.3	53	50	7,058	6,488

Table 11. Ellis County Dryland Grain Sorghum Performance Test, 2012-2014

BRAND	NAME	YIELD AS %													Pop. 1000 ppa	
		ACRE YIELD, BUSHEL				OF TEST			2013-2014							
		2-yr.		3-yr.		AVERAGE			Days Grain to moist.		Days Grain to moist.		Test wt.	Plant ht.		Ldg
		2014	2013	2012	AVG.	2014	2013	2012	blm	%	blm	%	lb/bu	in.		%
DEKALB	DKS29-28	73	--	--	--	92	--	--	--	--	55	10	57	43	--	33
MATURITY CHECK	EARLY (MY. 1G557)	60	--	--	--	75	--	--	--	--	55	10	56	42	--	36
DEKALB	DKS28-05	66	61	--	64	83	90	--	60	11	56	10	57	46	--	28
DEKALB	DKS37-07	88	73	--	80	110	108	--	66	13	59	12	59	51	--	38
POLANSKY	GS524	81	60	--	70	101	88	--	69	11	61	10	56	46	--	27
DEKALB	DKS41-50	81	--	--	--	101	--	--	--	--	62	15	59	49	--	32
BROWNING	775W	65	--	--	--	81	--	--	--	--	63	10	56	44	--	30
MATURITY CHECK	MEDIUM (DKS38-88)	89	58	--	74	112	86	--	70	13	63	12	58	49	--	33
DEKALB	DKS44-20	84	59	--	72	106	87	--	70	13	63	13	60	48	--	36
HEARTLAND GENETICS	HG48-B	91	--	--	--	114	--	--	--	--	63	12	60	47	--	24
HEARTLAND GENETICS	HG52-B	89	--	--	--	112	--	--	--	--	64	12	58	50	--	36
POLANSKY	GS665W	101	76	--	88	126	112	--	75	13	65	12	59	51	--	30
BROWNING	CHALLENGER BMX	69	--	--	--	86	--	--	--	--	65	15	57	43	--	25
MATURITY CHECK	LATE (DKS54-00)	81	--	--	--	102	--	--	--	--	66	13	57	40	--	14
	Average	80	68	--	74	100	100	--	68	12	61	12	58	46	--	34
	CV (%)	9	13	--	11	9	13	--	--	--	1	11	2	9	--	3
	LSD (0.05)	10	12	--	11	12	18	--	--	--	1	2	1	6	--	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.

WESTERN KANSAS FALLOW GRAIN SORGHUM TEST

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

Keith silt loam; fallow in 2013

50 - 20 - 0 lb/a N, P, K

Planted on 5/30/2014; Harvested on 10/16/2014

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

Summer was cooler and wetter than recent years.

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	0.4	2.4	32	32		
April	0.2	1.4	50	49	688	421
May	2.6	2.9	60	59	891	762
June	5.0	3.4	70	70	1023	1054
July	1.8	3.1	75	76	1144	1285
August	3.4	2.1	75	74	1182	1216
Sept.	1.7	1.6	66	66	939	910
Oct.	0.4	0.2	55	56	785	324
Totals:	15.5	17.2	51	51	6,652	5,972

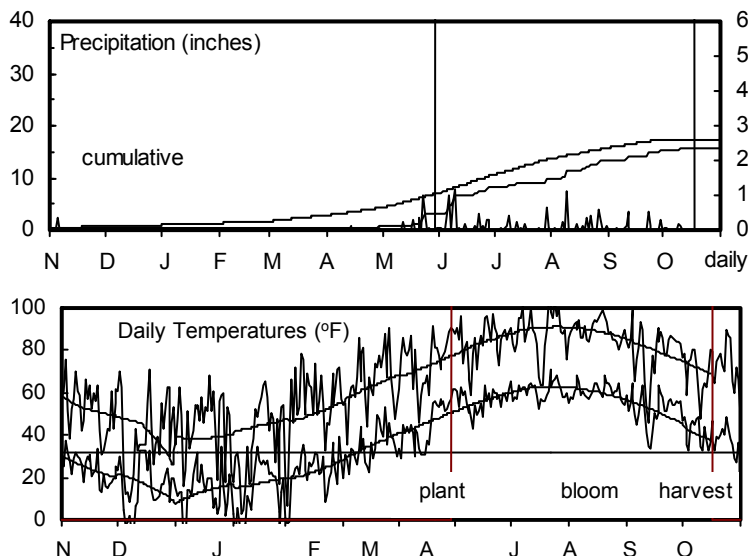


Table 12. Thomas County Dryland Grain Sorghum Performance Test, 2012-2014

BRAND	NAME	ACRE YIELD, BUSHELS		YIELD AS %		OF TEST		Days Grain		Days Grain		Test wt. lb/bu	Plnt ht. in.	Ldg %	Pop. 1000 ppa	
		2014	2013	2012	2014	2013	2012	to moist. blm	to moist. %	to moist. blm	to moist. %					
		2-yr. AVG.	3-yr. AVG.	AVERAGE	AVERAGE											
B-H GENETICS	BH 3400	95	--	--	--	90	--	--	--	59	13	57	37	1	29	
DEKALB	DKS28-05	105	50	--	78	100	128	--	67	12	66	13	55	39	2	27
MATURITY CHECK	EARLY (MY. 1G557)	96	--	--	--	92	--	--	--	--	66	13	55	37	1	30
DEKALB	DKS29-28	108	--	--	--	103	--	--	--	--	67	13	57	37	--	30
B-H GENETICS	BH 3600	86	--	--	--	82	--	--	--	--	67	14	55	34	2	29
ALTA	AG1201	86	43	--	64	82	110	--	70	13	70	14	55	35	5	28
DYNA-GRO	GX13501	85	--	--	--	81	--	--	--	--	71	14	57	41	--	12
B-H GENETICS	BH 3808	109	--	--	--	104	--	--	--	--	72	15	57	41	--	28
B-H GENETICS	BH 4200C	93	--	--	--	88	--	--	--	--	72	14	56	39	3	29
POLANSKY	GS524	120	--	--	--	114	--	--	--	--	72	15	56	40	3	28
DEKALB	DKS44-20	108	44	--	76	103	114	--	74	14	73	16	57	41	--	27
MATURITY CHECK	MEDIUM (DKS38-88)	116	46	--	81	110	118	--	73	15	73	17	55	42	--	28
ALTA	AG1401	94	37	--	65	89	95	--	74	14	74	14	56	39	1	25
ALTA	AG2104	103	32	--	67	97	82	--	76	14	74	15	56	40	--	28
DEKALB	DKS41-50	116	--	--	--	110	--	--	--	--	74	18	57	44	--	28
ALTA	AG2115	106	30	--	68	101	77	--	77	15	75	16	56	40	--	30
B-H GENETICS	BH 5224	117	--	--	--	111	--	--	--	--	75	17	57	40	--	29
DEKALB	DKS38-88	122	46	--	84	115	118	--	73	15	75	17	54	44	--	29
ALTA	AG2105	97	--	--	--	92	--	--	--	--	76	18	56	40	--	26
B-H GENETICS	BH 4100	107	--	--	--	102	--	--	--	--	76	19	56	41	--	26
ALTA	AG1203	130	--	--	--	123	--	--	--	--	77	19	57	40	--	27
RICHARDSON	92123	98	--	--	--	93	--	--	--	--	77	18	56	43	--	26
POLANSKY	GS 651 Y	104	--	--	--	99	--	--	--	--	78	21	55	42	--	20
ALTA	XG02008	115	--	--	--	109	--	--	--	--	79	20	54	41	--	26
RICHARDSON	0413	94	49	--	72	90	127	--	78	16	79	18	52	40	--	23
DYNA-GRO	722B	120	--	--	--	114	--	--	--	--	81	21	53	40	--	26
RICHARDSON	96173	126	35	--	81	120	89	--	77	16	81	20	55	43	--	27
DYNA-GRO	M72GW14	83	--	--	--	79	--	--	--	--	83	24	52	39	--	21
ALTA	AG2101	100	37	--	68	95	96	--	82	20	84	24	53	39	--	27
MATURITY CHECK	LATE (DKS54-00)	109	--	--	--	104	--	--	--	--	84	21	51	43	--	19
RICHARDSON	06173	108	32	--	70	102	82	--	82	19	84	21	52	44	--	28
RICHARDSON	68653	110	30	--	70	104	78	--	83	18	85	20	49	44	--	22
DYNA-GRO	M71GB01	107	--	--	--	102	--	--	--	--	87	23	48	43	--	27
	Average	105	39	--	72	100	100	--	76	15	75	17	55	40	1	26
	CV (%)	11	12	--	11	11	12	--	--	--	2	7	2	4	--	7
	LSD (0.05)	16	17	--	16	15	17	--	--	--	2	2	2	3	2	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.

WESTERN KANSAS FALLOW GRAIN SORGHUM TEST

Southwest Research-Extension Center, Tribune; Alan Schlegel, agronomist; DeWayne Bond, technician

Ulysses silt loam; fallow in 2013

90 - 40 - 0 lb/a N, P, K

Planted on 6/16/2014; Harvested on 11/9/2014

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

Conditions improved after June 1.

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	0.2	2.1	34	34		
April	0.6	1.3	51	49	705	430
May	0.9	2.3	62	59	909	772
June	3.3	2.5	72	70	1050	1063
July	2.7	2.6	76	76	1155	1287
August	2.9	2.3	76	74	1185	1209
Sept.	1.4	1.3	67	66	957	934
Oct.	1.8	0.3	56	57	798	340
Totals:	13.8	14.7	52	52	6,760	6,035

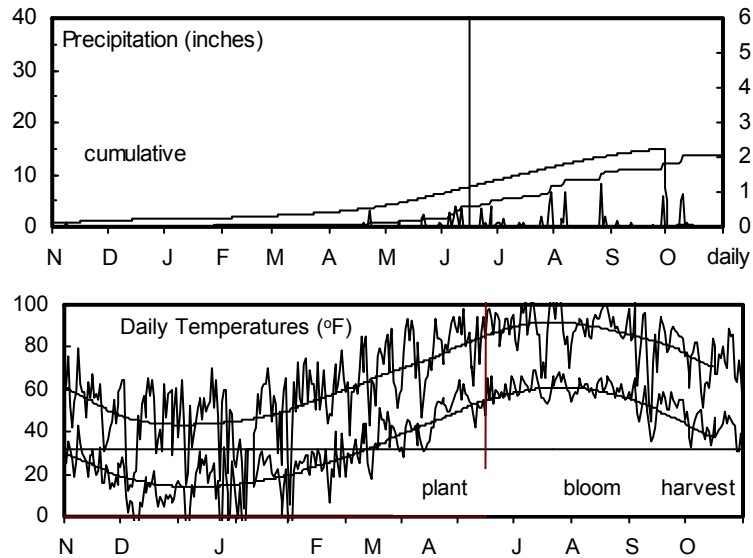


Table 13. Greeley County Dryland Grain Sorghum Performance Test, 2012-2014

BRAND	NAME	ACRE YIELD, BUSHELS		YIELD AS %		OF TEST		2013-2014		Days Grain to moist.	Days Grain to moist.	Test wt. lb/bu	Plnt ht. in.	Ldg %	Pop. 1000 ppa		
		2014	2013	2012	2012	2012	2012	2012	2012								
		2-yr. AVG.	3-yr. AVG.	AVERAGE		blm	%	blm	%								
MATURITY CHECK	EARLY (MY. 1G557)	105	--	--	--	100	--	--	--	--	64	10	59	40	--	34	
DEKALB	DKS28-05	129	118	--	124	--	123	94	--	66	11	65	9	59	49	--	34
DEKALB	DKS29-28	102	--	--	--	--	97	--	--	--	--	66	10	59	42	--	36
DEKALB	DKS37-07	113	136	--	124	--	107	109	--	75	14	71	12	56	51	--	34
DEKALB	DKS38-88	113	145	--	129	--	107	116	--	74	14	72	13	56	56	--	33
DEKALB	DKS41-50	129	--	--	--	--	123	--	--	--	--	72	13	56	60	--	36
MATURITY CHECK	MEDIUM (DKS38-88)	117	145	--	131	--	111	116	--	74	14	72	13	56	56	--	33
RICHARDSON	92123	107	--	--	--	--	102	--	--	--	--	72	13	56	54	--	30
DEKALB	DKS44-20	108	125	--	117	--	103	100	--	76	14	74	12	57	53	--	36
RICHARDSON	0413	87	--	--	--	--	83	--	--	--	--	80	12	56	52	--	27
MATURITY CHECK	LATE (DKS54-00)	92	--	--	--	--	88	--	--	--	--	83	15	54	55	--	21
RICHARDSON	96173	98	--	--	--	--	94	--	--	--	--	84	17	53	60	--	29
RICHARDSON	06173	92	--	--	--	--	88	--	--	--	--	85	17	53	61	--	33
RICHARDSON	68653	80	--	--	--	--	76	--	--	--	--	87	16	54	61	--	25
	Average	105	125	--	115	--	100	100	--	73	13	75	13	56	53	--	32
	CV (%)	6	8	--	7	--	6	8	--	--	--	2	6	1	4	--	7
	LSD (0.05)	9	13	--	11	--	9	11	--	--	--	2	1	1	3	--	3

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

Top LSD group in bold.

Table 14. WESTERN Kansas Grain Sorghum Hybrid Yield Summary (% of test avg.), 2014

BRAND/NAME	ELD	THD	GRD	FND	AVG.	BRAND/NAME	ELD	THD	GRD	FND	AVG.
ALTA						POLANSKY					
AG1201	--	82	--	--	--	GS 651 Y	--	99	--	--	--
AG1203	--	123	--	--	--	GS524	101	114	--	--	--
AG1401	--	89	--	--	--	GS665W	126	--	--	--	--
AG2101	--	95	--	--	--	RICHARDSON					
AG2104	--	97	--	--	--	0413	--	90	83	--	--
AG2105	--	92	--	--	--	06173	--	102	88	--	--
AG2115	--	101	--	--	--	68653	--	104	76	--	--
XG02008	--	109	--	--	--	92123	--	93	102	--	--
B-H GENETICS						96173	--	120	94	--	--
BH 3400	--	90	--	--	--	MATURITY CHECK					
BH 3600	--	82	--	--	--	EARLY (MY. 1G557)	75	92	100	--	89
BH 3808	--	104	--	--	--	LATE (DKS54-00)	102	104	88	--	98
BH 4100	--	102	--	--	--	MEDIUM (DKS38-88)	112	110	111	--	111
BH 4200C	--	88	--	--	--	AVERAGES (bu/a)	80	105	105	--	97
BH 5224	--	111	--	--	--	CV (%)	9	11	6	--	--
BROWNING						LSD (0.05)	12	15	9	--	--
775W	81	--	--	--	--						
CHALLENGER BMX	86	--	--	--	--						
DEKALB											
DKS28-05	83	100	123	--	102						
DKS29-28	92	103	97	--	97						
DKS37-07	110	--	107	--	--						
DKS38-88	--	115	107	--	--						
DKS41-50	101	110	123	--	111						
DKS44-20	106	103	103	--	104						
DYNA-GRO											
722B	--	114	--	--	--						
GX13501	--	81	--	--	--						
M71GB01	--	102	--	--	--						
M72GW14	--	79	--	--	--						
HEARTLAND GENETICS											
HG48-B	114	--	--	--	--						
HG52-B	112	--	--	--	--						

ELD = Ellis Co., Hays

THD = Thomas Co., Colby

GRD = Greeley Co., Tribune

FND = Finney Co., Garden City;
abandoned.

SOUTH CENTRAL KANSAS IRRIGATED GRAIN SORGHUM TEST

South Central Kansas Experiment Field, Hutchinson; Gary Cramer, agronomist; Keith Thompson, technician

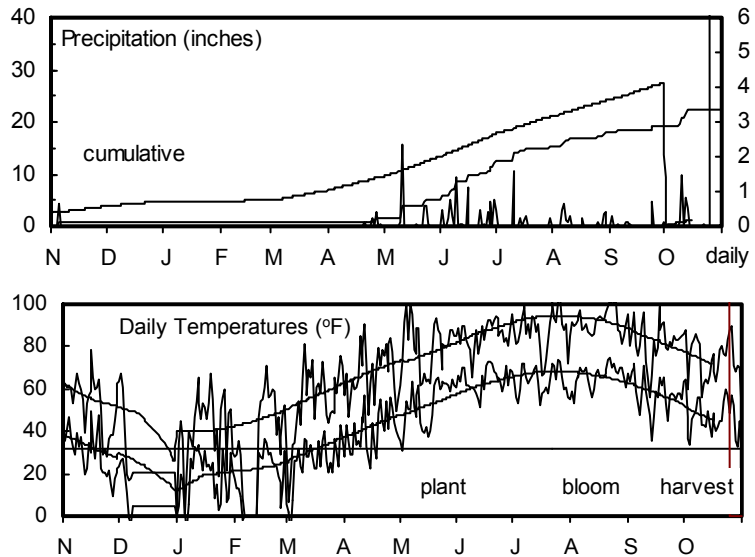
Ost loam; soybean in 2013

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

Planted on 5/16/2014; Harvested on 10/24/2014

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

Some bird feeding prior to harvest.



Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	0.7	4.4	30	37		
April	0.8	2.6	54	55	731	617
May	3.8	3.8	67	65	1002	927
June	6.9	4.3	75	75	1163	1196
July	2.9	3.5	76	81	1197	1416
August	2.8	3.1	79	79	1271	1361
Sept.	1.5	3.3	70	70	1041	1053
Oct.	3.0	1.1	60	62	850	407
Totals:	22.3	26.1	53	56	7,255	6,977

Table 15. Reno County Irrigated Grain Sorghum Performance Test, 2012-2014

BRAND	NAME	ACRE YIELD, BUSHELS		YIELD AS %		2013-2014		Days Grain to moist.	Days Grain to moist.	Test wt. lb/bu	Plnt ht. in.	Ldg %	Pop. 1000 ppa
		2014	2013	OF TEST		2013	2014						
		2012	2012	2-yr. AVG.	3-yr. AVG.	AVERAGE	AVERAGE						
ALTA	AG1203	162	--	--	--	108	--	--	--	17	58	--	--
ALTA	AG2101	144	134	--	139	96	99	--	17	18	55	--	--
ALTA	AG2102	155	129	--	142	104	96	--	15	16	56	--	--
ALTA	AG2103	111	131	--	121	75	97	--	18	20	56	--	--
ALTA	AG2104	103	122	--	113	69	90	--	17	18	55	--	--
ALTA	AG2105	95	--	--	--	63	--	--	--	20	56	--	--
ALTA	AG2115	118	130	--	124	79	96	--	17	17	56	--	--
ALTA	XG30003	163	--	--	--	109	--	--	--	18	58	--	--
ARMOR	3108	159	--	--	--	107	--	--	--	19	56	--	--
ARMOR	3197R	165	--	--	--	110	--	--	--	19	57	--	--
ARMOR	AXM11043	158	--	--	--	106	--	--	--	21	54	--	--
ARMOR	AXM12423	134	--	--	--	89	--	--	--	17	55	--	--
ARMOR	AXM68653	168	--	--	--	113	--	--	--	18	55	--	--
ARMOR	AXM8041	125	--	--	--	84	--	--	--	21	55	--	--
ARMOR	AXM9010	153	--	--	--	102	--	--	--	18	56	--	--
ARMOR	AXM9033	156	--	--	--	104	--	--	--	17	57	--	--
ARMOR	AXM9058	116	--	--	--	78	--	--	--	18	53	--	--
ARMOR	AXM91743	100	--	--	--	67	--	--	--	23	53	--	--
ARMOR	AXM9813	167	--	--	--	112	--	--	--	18	57	--	--
ARMOR	BANDIT	175	--	--	--	117	--	--	--	18	58	--	--
ARMOR	LSB50	156	--	--	--	104	--	--	--	18	54	--	--
DEKALB	DKS29-28	119	--	--	--	80	--	--	--	17	52	--	--
DEKALB	DKS49-45	176	156	--	166	118	116	--	16	16	60	--	--
DEKALB	DKS51-01	186	150	--	168	125	111	--	17	16	59	--	--
DEKALB	DKS53-53	196	--	--	--	131	--	--	--	17	58	--	--
DEKALB	DKS54-00	176	148	--	162	118	109	--	16	16	58	--	--
DYNA-GRO	766B	142	--	--	--	95	--	--	--	18	57	--	--
DYNA-GRO	772B	135	--	--	--	91	--	--	--	18	52	--	--
DYNA-GRO	GX13355	151	--	--	--	101	--	--	--	17	56	--	--
DYNA-GRO	GX13363	157	--	--	--	105	--	--	--	19	58	--	--
DYNA-GRO	GX13364	155	--	--	--	104	--	--	--	17	56	--	--
DYNA-GRO	GX13492	166	--	--	--	111	--	--	--	16	56	--	--
DYNA-GRO	GX14171	143	--	--	--	96	--	--	--	22	57	--	--
DYNA-GRO	GX14452	146	--	--	--	98	--	--	--	16	57	--	--
DYNA-GRO	GX14577	165	--	--	--	110	--	--	--	17	56	--	--
DYNA-GRO	M75GR47	131	--	--	--	88	--	--	--	16	57	--	--
DYNA-GRO	M77GB52	157	--	--	--	105	--	--	--	18	56	--	--
DYNA-GRO	M77GR61	167	--	--	--	111	--	--	--	16	55	--	--
HEARTLAND GENETICS	HG48-B	96	--	--	--	64	--	--	--	18	56	--	--
HEARTLAND GENETICS	HG52-B	178	--	--	--	119	--	--	--	16	57	--	--
HEARTLAND GENETICS	HGX5000	137	--	--	--	92	--	--	--	17	56	--	--
MATURITY CHECK	EARLY (MY. 1G557)	110	--	--	--	74	--	--	--	16	56	--	--
MATURITY CHECK	LATE (DKS54-00)	148	--	--	--	99	--	--	--	17	58	--	--
MATURITY CHECK	MEDIUM (DKS38-88)	139	--	--	--	93	--	--	--	19	56	--	--
MYCOGEN	627	137	--	--	--	92	--	--	--	17	56	--	--
MYCOGEN	737	199	--	--	--	133	--	--	--	15	58	--	--
MYCOGEN	IG588	138	--	--	--	92	--	--	--	16	59	--	--
MYCOGEN	IG688	176	--	--	--	118	--	--	--	20	55	--	--

Table 15 continued. Reno County Irrigated Grain Sorghum Performance Test, 2012-2014

BRAND	NAME	ACRE YIELD, BUSHELS					YIELD AS %			2013-2014							
		2014	2013	2012	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
					AVG.	AVG.	2014	2013	2012								
MYCOGEN	IG741	156	--	--	--	--	104	--	--	--	--	--	17	56	--	--	--
MYCOGEN	M3838	138	--	--	--	--	93	--	--	--	--	--	17	58	--	--	--
RICHARDSON	0413	160	133	--	147	--	107	98	--	--	15	--	16	55	--	--	--
RICHARDSON	06173	167	146	--	157	--	112	108	--	--	18	--	17	56	--	--	--
RICHARDSON	68653	164	125	--	144	--	110	93	--	--	19	--	19	55	--	--	--
RICHARDSON	92123	161	128	--	144	--	108	94	--	--	18	--	19	54	--	--	--
RICHARDSON	96173	159	143	--	151	--	107	106	--	--	19	--	19	56	--	--	--
WARNER SEEDS	W-7012	152	--	--	--	--	102	--	--	--	--	--	18	56	--	--	--
	Average	149	135	--	142	--	100	100	--	--	17	--	18	56	--	--	--
	CV (%)	11	6	--	9	--	11	6	--	--	--	--	12	3	--	--	--
	LSD (0.05)	24	11	--	17	--	16	8	--	--	--	--	3	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.

WESTERN KANSAS IRRIGATED GRAIN SORGHUM TEST

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

Keith silt loam; sunflower in 2013

160 - 35 - 0 lb/a N, P, K

Planted on 5/30/2014; Harvested on 10/21/2014

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

Good stands were established, and the growing season was about normal.

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	0.4	2.4	32	32		
April	0.2	1.4	50	49	688	421
May	2.6	2.9	60	59	891	762
June	5.0	3.4	70	70	1023	1054
July	1.8	3.1	75	76	1144	1285
August	3.4	2.1	75	74	1182	1216
Sept.	1.7	1.6	66	66	939	910
Oct.	0.4	0.2	55	56	785	324
Totals:	15.5	17.2	51	51	6,652	5,972

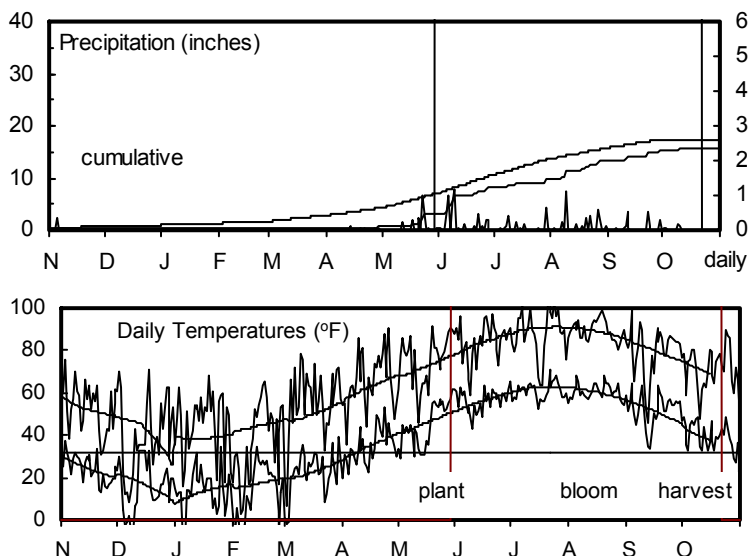


Table 16. Thomas County Irrigated Grain Sorghum Performance Test, 2012-2014

BRAND	NAME	ACRE YIELD, BUSHEL		YIELD AS %			2013-2014							Pop. 1000 ppa			
		2014	2013	OF TEST		Days to blm	Grain to moist. %	Days to blm	Grain to moist. %	Test wt. lb/bu	Plnt ht. in.	Ldg %					
				2012	2012								AVERAGE				
		2-yr. AVG.	3-yr. AVG.	2014	2013	2012	blm	%	blm	%	lb/bu	in.	%				
MATURITY CHECK	EARLY (MY. 1G557)	139	--	--	--	75	--	--	--	--	62	13	57	43	--	90	
B-H GENETICS	BH 3600	122	--	--	--	66	--	--	--	--	64	14	56	38	--	78	
DEKALB	DKS29-28	160	--	--	--	87	--	--	--	--	64	13	57	43	--	87	
B-H GENETICS	BH 3808	169	--	--	--	92	--	--	--	--	68	14	58	47	--	81	
GOLDEN ACRES	GA 5515	179	--	--	--	97	--	--	--	--	68	15	58	50	--	66	
MYCOGEN	IG588	169	--	--	--	92	--	--	--	--	68	14	59	51	--	88	
B-H GENETICS	BH 5224	206	--	--	--	112	--	--	--	--	70	16	59	55	--	55	
DYNA-GRO	GX13501	185	--	--	--	101	--	--	--	--	70	14	58	49	--	33	
GOLDEN ACRES	GA 5613	204	--	--	--	111	--	--	--	--	70	16	59	53	--	77	
MATURITY CHECK	MEDIUM (DKS38-88)	189	--	--	--	103	--	--	--	--	70	16	59	57	--	85	
MYCOGEN	627	154	--	--	--	84	--	--	--	--	70	17	57	51	--	56	
B-H GENETICS	BH 4100	189	--	--	--	103	--	--	--	--	71	16	60	51	--	81	
MYCOGEN	M3838	168	--	--	--	91	--	--	--	--	71	15	59	48	--	52	
DEKALB	DKS54-00	207	174	145	191	175	113	104	97	74	16	72	17	58	56	--	75
GOLDEN ACRES	3545	181	168	137	175	162	99	100	92	71	16	72	16	59	54	--	74
DEKALB	DKS51-01	190	172	145	181	169	104	103	97	72	16	73	17	60	60	--	61
DYNA-GRO	722B	187	--	--	--	--	102	--	--	--	--	73	17	59	54	--	69
GOLDEN ACRES	H-390W	196	--	--	--	--	107	--	--	--	--	73	16	58	50	--	67
HEARTLAND GENETICS	HG48-B	184	--	--	--	--	100	--	--	--	--	73	16	59	49	--	82
HEARTLAND GENETICS	HGX5000	175	--	--	--	--	95	--	--	--	--	73	15	59	51	--	67
RICHARDSON	0413	176	162	--	169	--	96	97	--	73	16	73	17	56	55	--	59
RICHARDSON	92123	182	161	--	171	--	99	96	--	72	15	73	16	60	56	--	82
DEKALB	DKS53-53	226	--	--	--	--	123	--	--	--	--	74	20	58	54	--	83
DEKALB	DKS53-67	201	183	165	192	183	110	109	110	74	18	74	18	59	51	--	75
MYCOGEN	737	185	161	--	173	--	101	96	--	73	15	74	16	58	49	--	85
DYNA-GRO	M72GW14	153	--	--	--	--	83	--	--	--	--	76	18	59	52	--	55
GOLDEN ACRES	3637	190	--	--	--	--	104	--	--	--	--	76	19	58	53	--	86
HEARTLAND GENETICS	HG52-B	170	--	--	--	--	93	--	--	--	--	76	19	58	54	--	81
MATURITY CHECK	LATE (DKS54-00)	212	--	--	--	--	115	--	--	--	--	76	20	57	54	--	78
MYCOGEN	IG688	190	--	--	--	--	103	--	--	--	--	76	22	56	53	--	70
MYCOGEN	IG741	213	--	--	--	--	116	--	--	--	--	76	18	58	54	--	78
RICHARDSON	06173	194	179	--	186	--	105	107	--	77	18	76	20	57	62	--	80
RICHARDSON	96173	197	176	--	186	--	107	105	--	76	18	76	19	58	60	--	69
RICHARDSON	68653	196	174	--	185	--	107	104	--	76	19	77	20	57	63	--	63
DYNA-GRO	M71GB01	190	--	--	--	--	103	--	--	--	--	79	21	57	61	--	67
	Average	184	168	150	176	167	100	100	100	74	17	72	17	58	52	--	71
	CV (%)	9	7	8	8	8	9	7	8	--	--	1	7	1	3	--	18
	LSD (0.05)	24	15	18	20	19	13	9	12	--	--	1	2	1	2	--	18

*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.

WESTERN KANSAS IRRIGATED GRAIN SORGHUM TEST

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

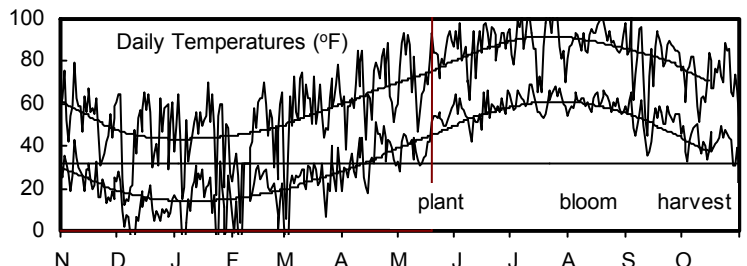
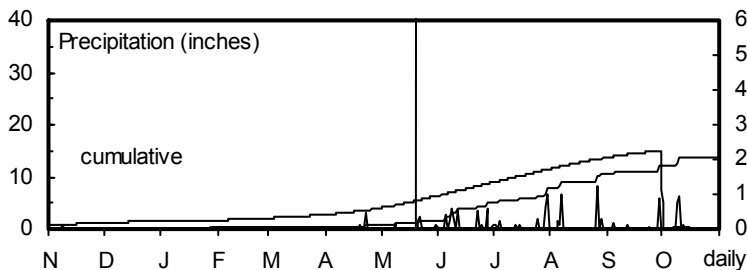
Ulysses silt loam; wheat in 2013

130 - 40 - 0 lb/a N, P, K

Planted on 5/20/2014; Harvested on 11/7/2014

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

Irrigation totaled 12.7 inches.



Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	0.2	2.1	34	34		
April	0.6	1.3	51	49	705	430
May	0.9	2.3	62	59	909	772
June	3.3	2.5	72	70	1050	1063
July	2.7	2.6	76	76	1155	1287
August	2.9	2.3	76	74	1185	1209
Sept.	1.4	1.3	67	66	957	934
Oct.	1.8	0.3	56	57	798	340
Totals:	13.8	14.7	52	52	6,760	6,035

Table 17. Greeley County Irrigated Grain Sorghum Performance Test, 2012-2014

BRAND	NAME	YIELD AS %											Pop. 1000 ppa				
		ACRE YIELD, BUSHELS					OF TEST		2013-2014		Plnt Ldg	%					
		2014	2013	2012	2012	2012	AVERAGE		Days Grain to moist.	Days Grain to moist.				Test wt. lb/bu	ht. in.		
							2-yr. AVG.	3-yr. AVG.			2014	2013				2012	blm %
MATURITY CHECK	EARLY (MY. 1G557)	101	--	--	--	--	62	--	--	--	--	69	9	59	39	--	68
DEKALB	DKS29-28	127	--	--	--	--	78	--	--	--	--	71	9	59	41	--	63
MYCOGEN	IG588	151	--	--	--	--	93	--	--	--	--	75	9	59	49	--	60
MATURITY CHECK	MEDIUM (DKS38-88)	172	--	--	--	--	105	--	--	--	--	76	10	59	53	--	68
MYCOGEN	627	143	--	--	--	--	88	--	--	--	--	78	10	59	50	--	58
DEKALB	DKS49-45	179	139	168	159	162	110	104	100	79	13	79	10	59	55	--	68
DEKALB	DKS54-00	176	143	181	160	167	108	107	108	80	13	79	10	59	57	--	61
MYCOGEN	M3838	142	--	--	--	--	87	--	--	--	--	79	11	58	48	--	49
RICHARDSON	92123	164	128	--	146	--	101	96	--	77	12	79	10	59	55	--	67
DEKALB	DKS51-01	167	139	168	153	158	103	104	100	81	13	81	11	58	59	--	67
RICHARDSON	0413	166	122	--	144	--	102	91	--	79	13	81	11	58	54	--	51
DEKALB	DKS53-53	209	--	--	--	--	128	--	--	--	--	83	11	58	55	--	69
MATURITY CHECK	LATE (DKS54-00)	169	--	--	--	--	103	--	--	--	--	83	10	59	52	--	29
MYCOGEN	IG688	179	--	--	--	--	110	--	--	--	--	85	11	58	53	--	66
RICHARDSON	96173	179	129	--	154	--	110	96	--	85	13	85	11	58	62	--	59
RICHARDSON	06173	182	153	--	167	--	112	114	--	84	13	87	10	59	62	--	62
RICHARDSON	68653	165	120	--	143	--	101	89	--	87	13	87	11	58	60	--	42
	Average	163	132	168	148	154	100	100	100	82	13	80	10	59	53	--	59
	CV (%)	9	12	8	10	10	9	12	8	--	--	2	7	1	4	--	18
	LSD (0.05)	20	27	19	24	22	12	20	11	--	--	2	1	1	3	--	15

*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.

WESTERN KANSAS IRRIGATED GRAIN SORGHUM TEST

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

Keith silt loam; wheat in 2013

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

Planted on 5/20/2014; Harvested on 10/29/2014

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

Test recovered from a hailstorm on 6/24/2014.

Irrigation totaled 18.34 inches..

Month	Precipitation		Average Temp.		GDU	
	2014	Norm.	2014	Norm.	2014	Norm.
Nov.-Mar.	0.6	2.8	34	34		
April	0.3	1.6	53	50	723	472
May	0.6	2.9	64	61	958	831
June	9.4	3.0	74	72	1099	1115
July	3.0	2.5	76	78	1179	1321
August	1.8	2.2	78	75	1238	1260
Sept.	2.5	1.6	69	68	995	973
Oct.	1.6	0.5	58	58	823	356
Totals:	19.7	17.1	54	53	7,014	6,328

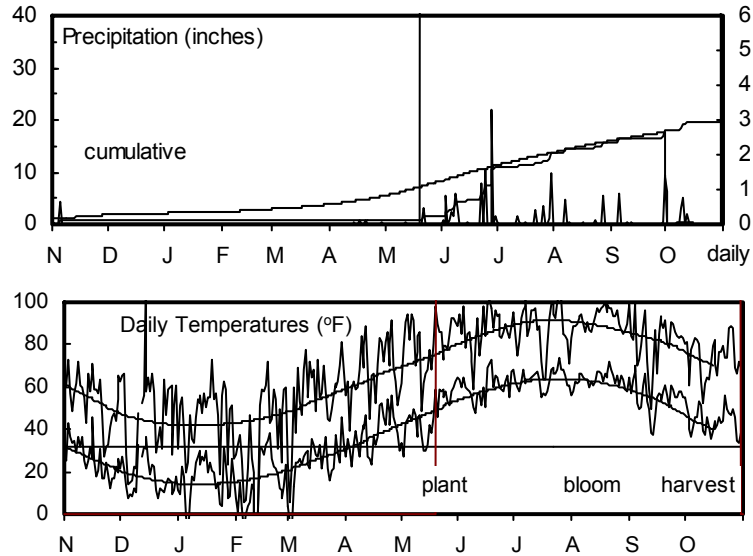


Table 18. Finney County Irrigated Grain Sorghum Performance Test, 2012-2014

BRAND	NAME	ACRE YIELD, BUSHELS		YIELD AS %			2013-2014		Days Grain to moist.	Days Grain to moist.	Test wt. lb/bu	Plnt ht. in.	Ldg %	Pop. 1000 ppa
		2014	2013	OF TEST			blm	%						
		2012	2012	AVERAGE										
ARMOR	AXM91743	138	--	--	95	--	--	--	67	13	57	57	--	56
MATURITY CHECK	EARLY (MY. 1G557)	120	--	--	82	--	--	--	67	12	56	48	--	65
DEKALB	DKS29-28	127	--	--	87	--	--	--	68	12	56	47	--	60
ARMOR	AXM11043	138	--	--	94	--	--	--	73	14	57	56	--	56
MYCOGEN	IG588	154	--	--	106	--	--	--	73	13	58	57	--	61
ALTA	AG2103	146	110	--	100	103	--	70	14	75	13	60	54	62
ARMOR	AXM9058	144	--	--	99	--	--	--	75	13	56	53	--	64
HEARTLAND GENETICS	HG48-B	146	--	--	100	--	--	--	75	13	60	56	--	63
ALTA	AG2104	139	100	--	96	94	--	72	14	76	13	57	52	59
ARMOR	AXM12423	139	--	--	96	--	--	--	76	12	58	56	--	56
GOLDEN ACRES	GA 5613	152	103	--	104	97	--	68	15	76	14	59	59	64
MYCOGEN	627	123	--	--	84	--	--	--	76	14	58	54	--	54
MYCOGEN	M3838	123	--	--	84	--	--	--	76	13	60	51	--	46
ALTA	AG1203	155	--	--	106	--	--	--	77	13	60	56	--	62
ALTA	AG2115	123	107	--	84	100	--	72	15	77	14	58	55	61
GOLDEN ACRES	GA 5515	117	107	--	80	100	--	73	15	77	14	58	54	60
MATURITY CHECK	MEDIUM (DKS38-88)	154	--	--	105	--	--	--	77	15	59	62	--	58
MYCOGEN	737	168	106	--	116	99	--	69	14	77	13	59	52	59
ALTA	AG2105	123	--	--	84	--	--	--	78	14	60	57	--	59
ALTA	XG02008	150	--	--	103	--	--	--	78	15	58	55	--	52
ARMOR	AXM8041	118	--	--	81	--	--	--	78	14	59	60	--	56
GOLDEN ACRES	H-390W	138	--	--	95	--	--	--	78	13	58	52	--	65
RICHARDSON	92123	136	101	--	93	95	--	70	15	78	15	59	59	59
ALTA	AG3101	141	123	--	97	115	--	73	16	79	15	61	62	61
ARMOR	AXM9010	143	--	--	98	--	--	--	79	15	58	61	--	50
ARMOR	LSB50	144	--	--	99	--	--	--	79	14	59	59	--	61
DEKALB	DKS49-45	148	116	159	102	109	108	74	15	79	15	59	62	62
GOLDEN ACRES	3545	151	103	150	104	96	101	72	15	79	14	59	58	58
HEARTLAND GENETICS	HGX5000	139	--	--	96	--	--	--	79	13	59	56	--	59
MYCOGEN	IG741	162	--	--	111	--	--	--	79	13	59	58	--	61
RICHARDSON	0413	135	96	--	93	90	--	72	15	79	14	56	58	48
ALTA	AG2101	140	97	--	96	91	--	77	15	80	14	59	55	60
ALTA	AG2102	149	108	--	102	101	--	71	14	80	14	58	51	62
ALTA	AG3201	161	128	--	110	120	--	72	15	80	14	59	59	62
ARMOR	AXM9033	154	--	--	105	--	--	--	80	16	60	63	--	59
DEKALB	DKS53-53	193	--	--	132	--	--	--	80	15	60	60	--	61
DEKALB	DKS54-00	156	108	162	107	102	109	78	16	80	15	58	61	63
GOLDEN ACRES	3637	157	--	--	108	--	--	--	80	13	59	57	--	63
DEKALB	DKS53-67	168	119	158	116	111	107	77	16	81	15	61	58	66
ARMOR	AXM9813	156	--	--	107	--	--	--	82	15	61	61	--	52
ARMOR	BANDIT	167	--	--	115	--	--	--	82	15	62	61	--	66
HEARTLAND GENETICS	HG52-B	154	--	--	106	--	--	--	82	14	59	57	--	62
ARMOR	3108	126	--	--	86	--	--	--	83	15	59	60	--	49
MATURITY CHECK	LATE (DKS54-00)	153	--	--	105	--	--	--	83	14	58	58	--	52
RICHARDSON	96173	156	119	--	107	111	--	77	17	83	16	60	66	56
ARMOR	3197R	164	--	--	112	--	--	--	84	16	60	66	--	57
MYCOGEN	IG688	140	--	--	96	--	--	--	84	15	58	56	--	55
RICHARDSON	06173	151	116	--	104	109	--	77	17	84	16	58	67	60

Table 18 continued. Finney County Irrigated Grain Sorghum Performance Test, 2012-2014

BRAND	NAME	ACRE YIELD, BUSHELS					YIELD AS %			2013-2014							
		2014	2013	2012	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
					AVG.	AVG.	2014	2013	2012								
ARMOR	AXM68653	157	--	--	--	--	108	--	--	--	--	86	16	58	67	--	46
RICHARDSON	68653	151	118	--	135	--	104	110	--	80	18	86	17	58	66	--	47
	Average	146	107	148	126	134	100	100	100	73	15	78	14	59	58	--	58
	CV (%)	9	7	6	8	7	9	7	6	--	--	2	5	1	3	--	7
	LSD (0.05)	18	11	13	14	14	12	10	9	--	--	2	1	1	2	--	5

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

Table 19. Kansas IRRIGATED Grain Sorghum Hybrid Yield Summary (% of test avg.), 2014

BRAND/NAME	RNI	THI	GRI	FNI	AVG.	RNI	THI	GRI	FNI	AVG.	
ALTA						DEKALB					
AG1203	108	--	--	106	--	DKS29-28	80	87	78	87	83
AG2101	96	--	--	96	--	DKS49-45	118	--	110	102	--
AG2102	104	--	--	102	--	DKS51-01	125	104	103	--	--
AG2103	75	--	--	100	--	DKS53-53	131	123	128	132	129
AG2104	69	--	--	96	--	DKS53-67	--	110	--	116	--
AG2105	63	--	--	84	--	DKS54-00	118	113	108	107	112
AG2115	79	--	--	84	--	DYNA-GRO					
AG3101	--	--	--	97	--	722B	--	102	--	--	--
AG3201	--	--	--	110	--	766B	95	--	--	--	--
XG02008	--	--	--	103	--	772B	91	--	--	--	--
XG30003	109	--	--	--	--	GX13355	101	--	--	--	--
ARMOR						GX13363	105	--	--	--	--
3108	107	--	--	86	--	GX13364	104	--	--	--	--
3197R	110	--	--	112	--	GX13492	111	--	--	--	--
AXM11043	106	--	--	94	--	GX13501	--	101	--	--	--
AXM12423	89	--	--	96	--	GX14171	96	--	--	--	--
AXM68653	113	--	--	108	--	GX14452	98	--	--	--	--
AXM8041	84	--	--	81	--	GX14577	110	--	--	--	--
AXM9010	102	--	--	98	--	M71GB01	--	103	--	--	--
AXM9033	104	--	--	105	--	M72GW14	--	83	--	--	--
AXM9058	78	--	--	99	--	M75GR47	88	--	--	--	--
AXM91743	67	--	--	95	--	M77GB52	105	--	--	--	--
AXM9813	112	--	--	107	--	M77GR61	111	--	--	--	--
BANDIT	117	--	--	115	--	GOLDEN ACRES					
LSB50	104	--	--	99	--	3545	--	99	--	104	--
B-H GENETICS						3637	--	104	--	108	--
BH 3600	--	66	--	--	--	GA 5515	--	97	--	80	--
BH 3808	--	92	--	--	--	GA 5613	--	111	--	104	--
BH 4100	--	103	--	--	--	H-390W	--	107	--	95	--
BH 5224	--	112	--	--	--	HEARTLAND					
						HG48-B	64	100	--	100	--
						HG52-B	119	93	--	106	--
						HGX5000	92	95	--	96	--

RNI = Reno Co., Hutchinson THI = Thomas Co., Colby GRI = Greeley Co., Tribune FNI = Finney Co., Garden City

Table 19 continued. Kansas IRRIGATED Grain Sorghum Hybrid Yield Summary (% of test avg.), 2014

BRAND/NAME	RNI	THI	GRI	FNI	AVG.
MYCOGEN					
627	92	84	88	84	87
737	133	101	--	116	--
IG588	92	92	93	106	96
IG688	118	103	110	96	107
IG741	104	116	--	111	--
M3838	93	91	87	84	89
RICHARDSON					
0413	107	96	102	93	99
06173	112	105	112	104	108
68653	110	107	101	104	105
92123	108	99	101	93	100
96173	107	107	110	107	108
WARNER SEEDS					
W-7012	102	--	--	--	--
MATURITY CHECK					
EARLY (MY. 1G557)	74	75	62	82	73
LATE (DKS54-00)	99	115	103	105	106
MEDIUM (DKS38-88)	93	103	105	105	102
AVERAGES (bu/a)	149	184	163	146	160
CV (%)	11	9	9	9	--
LSD (0.05)	16	13	12	12	--

RNI = Reno Co., Hutchinson

THI = Thomas Co., Colby

GRI = Greeley Co., Tribune

FNI = Finney Co., Garden City

Table 20. Entries in the 2014 Kansas Grain Sorghum Performance Tests

BRAND	GC	EC	PC	Mat.	Days	GB	BRAND	GC	EC	PC	Mat.	Days	GB
ALTA							DEKALB						
AG1201	B	-	P	E	-	-	DKS28-05	B	HY	P	E	58	-
AG1203	B	-	P	ME	-	-	DKS29-28	B	HY	P	E	58	CE
AG1401	W	-	T	ME	-	-	DKS38-88	B	HY	P	E	64	I
AG2102	R	-	P	M	-	-	DKS37-07	B	HY	P	E	67	CEI
AG2104	R	-	P	ME	-	-	DKS41-50	B	HY	P	M	67	-
AG2105	R	-	P	M	-	-	DKS44-20	B	HY	P	M	67	-
AG2115	R	-	P	M	-	-	DKS49-45	B	HY	P	M	70	E,I
AG3201	B	-	P	ML	-	-	DKS51-01	B	HY	P	M	70	E,I
XG02008	R	-	P	M	-	-	DKS53-67	B	HY	P	L	71	CEI
XG30003	R	-	P	M	-	-	DKS53-53	B	HY	P	L	72	I
AG2103	R	-	P	M	65	-	DKS54-00	B	HY	P	L	75	CEI
AG2101	R	-	P	M	67	-	DYNA-GRO						
AG3101	R	-	P	L	68	-	GX13501	R	HY	P	E	55	C,D,E
ARMOR							M71GB01	B	HY	P	E	55	C
3108	-	-	-	-	-	-	M72GW14	W	W	T	E	58	C,D,E
3197R	-	-	-	-	-	-	722B	B	HY	T	E	60	CE
AXM11043	-	-	-	-	-	-	766B	B	HY	T	ME	65	CDE
AXM12423	-	-	-	-	-	-	M75GB39	R	HY	P	M	66	C
AXM68653	-	-	-	-	-	-	GX13355	B	HY	P	M	67	C,D,E
AXM8041	-	-	-	-	-	-	M75GR47	R	HY	T	M	67	-
AXM9010	-	-	-	-	-	-	772B	B	HY	T	M	68	CE
AXM9033	-	-	-	-	-	-	GX14452	B	HY	P	M	68	C,E
AXM9058	-	-	-	-	-	-	GX13363	B	HY	P	M	70	C,E
AXM91743	-	-	-	-	-	-	M77GB52	B	HY	P	M	70	C
AXM9813	-	-	-	-	-	-	GX13364	B	HY	P	L	71	C,D,E
BANDIT	-	-	-	-	-	-	GX14171	R	HY	P	L	72	C,D,E
LSB50	-	-	-	-	-	-	GX14577	W	W	T	L	74	C,D,E
B-H GENETICS							GX13492	B	HY	P	L	75	C,D,E
BH 3400	B	-	-	VE	-	-	M77GR61	R	HY	P	L	76	C,E
BH 3600	B	-	-	E	-	C	GOLDEN ACRES						
BH 3808	R	-	-	ME	-	C	GA 5556	R	HY	P	E	62	C,E
BH 4100	B	-	-	M	-	-	H-390W	W	W	P	E	62	C,E
BH 4200C	C	-	-	ME	-	C	GA 5515	R	Y	P	M	64	C,E
BH 5224	B	-	-	M	-	C,D,E	3545	B	Y	P	M	66	CE
BROWNING							3552	B	Y	P	M	66	CE
775W	C	HY	P	M	63	N	GA 5613	B	Y	P	M	66	C,E
CHALLENGER	B	HY	P	M	67	N	3637	B	Y	P	M	67	C,E
BMX							HEARTLAND GENETICS						
							HG48-B	B	HY	P	M	67	C,E
							HGX5000	B	HY	P	M	70	C,E
							HG52-B	B	HY	P	ML	73	C,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
 G-bug = resistance to specific greenbug biotypes: C, E, I, K, etc.

Table 20 continued. Entries in the 2014 Kansas Grain Sorghum Performance Tests

BRAND	GC	EC	PC	Mat.	Days	GB
MYCOGEN						
IG688	R	W	P	L	47	E
IG741	B	HY	P	L	48	-
IG588	B	-	P	E	58	-
627	B	W	P	ME	64	-
M3838	C	-	P	ME	68	-
737	B	W	P	M	69	-
POLANSKY						
GS524	B	-	P	ME	60	C
GS 651 Y	Y	-	-	M	65	-
GS 679	B	-	P	M	65	-
GS665W	C	-	P	M	65	C
GS761	R	HY	P	M	65	C,E
GS718	R	HY	P	ML	70	C,E
RICHARDSON						
0413	-	-	-	-	-	-
06173	-	-	-	-	-	-
68653	-	-	-	-	-	-
92123	-	-	-	-	-	-
96173	-	-	-	-	-	-
WARNER SEEDS						
W-7012	B	W	P	M	69	-
MATURITY CHECK						
EARLY (MY. 1G557)	R	W	P	E	65	E
MEDIUM (DKS38-88)	W	W	P	M	69	-
LATE (DKS54-00)	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.k-state.edu/services/crop-performance-tests/index.html

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

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