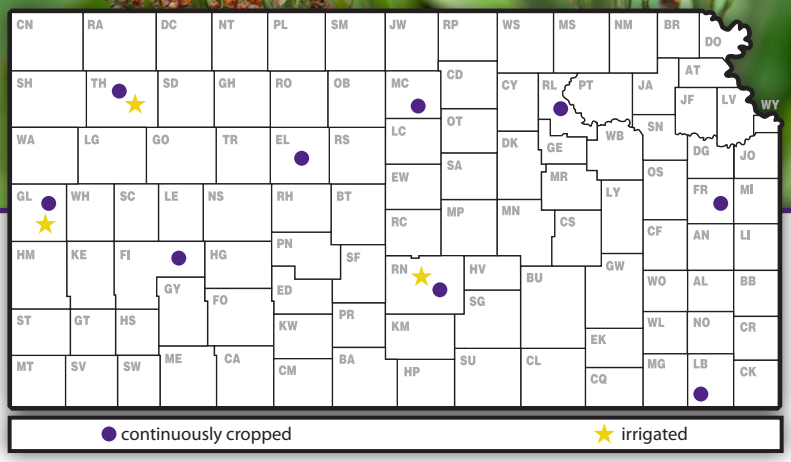
2019 Kansas Performance Tests with

Grain Sorghum Hybrids



Report of Progress 1154

K-STATE Research and Extension

Kansas State University Agricultural Experiment Station and Cooperative Extension Service

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Contribution no. 20-130-S from the Kansas Agricultural Experiment Station.

2019 GRAIN SORGHUM CROP REVIEW

Statewide Growing Conditions

The 2019 sorghum season had a very distinct weather pattern with a very challenging beginning and end of the season. Wet conditions in the spring delayed planting in specific locations, but still overall planting was just only slightly delayed relative to past years. Early growth was impacted by wet soil conditions, but this current season the large delay in planting caused reduction in yields because of a shorter duration of the growing season.

During the growing season, late planting due to saturated soils was the norm. Wet conditions early in the season saturated soils, resulting in inhibited root growth, leaf area expansion, and increased production issues related to root compaction and produced yellow leaves. For the late planted crop (June-July), cold temperatures towards the end of the season impacted the final grain weight for the late harvested sorghum crop.

Hail was a problem across the state. There were 712 reports of large hail through August 31. Of those events, 299 were reported in May. Hail has a larger impact when it occurs later in the season, September to early October during the grain filling, when the plant depends on the leaves, potentially negatively affecting seed set (both seed number and weight).

As related to the precipitation conditions, most divisions averaged above-normal for the period of April 1 through October 31. The driest area was the southwest, where the divisional average was 15.37 inches or 95% of normal. The southeast division faced the greatest excess, with an average of 47.98 inches or 158% of normal. At the Parsons station, rainfall jumped above-normal in early April and continued above-normal for the rest of the season. Tribune, in the west central division, had the most favorable moisture distribution, with near-normal conditions throughout the season.

Temperatures weren't much of a factor, although some late planted fields reached critical growth stages during the warmest part of the summer (Table 1). The warmest readings were seen in mid-July, with the highest read of 108°F reported on July 20 at Webster Dam, Rush County, and August 1 at Lakin, Kearny County. The first autumn freezes were near average, with Colby dropping to 32°F on the October 10, and Columbus reaching 27°F on October 31.

Unfortunately, the below-freezing temperatures did affect sorghum growing primarily in the northern parts of the state (primarily north central and northwest Kansas), or the late planted sorghum (early July). Harvest progress for sorghum across the state was delayed, primarily concentrated during late October and late November. Reproductive temperatures and precipitation conditions were favorable for seed filling process, but the late planted timing placed the final maturity later in the year, delaying harvest in many fields. Large parts of the sorghum growing areas in Kansas reported poor test weight and quality that were either severely discounted or outrightly refused at the elevator due to the potential for reducing in feed value.

Despite the previously mentioned challenges, in November the U.S. Department of Agriculture forecasted a sorghum yield of 86 bushels per acre for the state of Kansas for the 2019 season, down 2 bushels per acre up compared to the final yield recorded for the 2018 growing season. This stems from a reduction in both area harvested and yield per unit of area relative to the 2018 season (Ignacio A. Ciampitti, Kansas State University Cropping Systems Specialist, and Mary Knapp, Kansas State University Climatologist).

Table 1. 2019 temperatures by crop production district

Division	Extreme Tmax (°F)	Date	Avg Tmax (ºF)	Avg Tmin (ºF)	Avg Tmean (ºF)	Extreme Tmin (ºF)	Date
Northwest	107	18-Jul	78.2	49.9	64.1	3	31-Oct
North Central	108	20-Jul	78.4	54.0	66.2	10	31-Oct
Northeast	102	18-Jul	77.5	56.1	66.8	16	31-Oct
West Central	107	21-Jul	79.4	50.3	64.8	2	31-Oct
Central	107	1-Aug	79.5	54.7	67.1	10	29-Oct
East Central	102	21-Jul	78.0	57.1	67.5	15	31-Oct
Southwest	108	1-Aug	82.0	52.9	67.5	4	31-Oct
South Central	106	1-Aug	80.2	56.3	68.2	11	31-Oct
Southeast	100	12-Aug	79.2	58.6	68.9	13	31-Oct

Diseases

Due to an extended dry period in late June and July, disease pressure in grain sorghum was well below average. Sooty stripe was present as usual, but it came on later in the season and had minimal effects on yield in most fields.

Sorghum rust could be found near the end of the season, but it rarely impacts yield due to its late arrival. The most significant disease, as in most years, was Fusarium stalk rot.

While there is always some lodging associated with stalk rot in grain sorghum, reports of significant amounts of lodged sorghum were not received. Sorghum harvest was ahead of the five-year average. Less time standing in the field reduced problems with head molds.

Other diseases observed include rough spot, target spot, and northern corn leaf blight. (Doug Jardine, Kansas State University Department of Plant Pathology)

Insects

Chinch bugs were common throughout the state early in the spring of 2019. Timely moisture, however provided relatively good growing conditions for most of the state, thus, this early chinch bug feeding did not cause as much negative impact as it often does under more stressful conditions.

"Ragworms", mainly corn earworms but also some fall armyworms and cattail caterpillars, were also common and widespread. These generally have little to no impact on yield but can be the springboard generation for "headworms" which are the same species as the "ragworms" however, now they feed directly on the kernels. This results in a 5% loss/worm/head, and many fields were treated to prevent this damage.

Sugarcane aphids again migrated into Kansas and established colonies, but only a few fields had colonies sufficient to justify an insecticide application. (Jeff Whitworth, Kansas State University Department of Entomology)

2019 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 2019 and the 30-year normal in addition to daily rainfall amounts since 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.

Explanatory information precedes data summaries for each test. Tables 3 through 20 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.

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.

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 2. Entrants in the 2019 Kansas Grain Sorghum Performance Tests

Advanta Seeds
Irving, TX
806-340-2031
altaseeds.com

Arrow Seed
Broken Bow, NE
800-622-4727
arrowseed.com

Blue River Organic Seed
Ames, IA
800-370-7979
blueriverorgseed.com

Center for Sorghum Improvement
Manhattan, KS
785-477-6018

Corteva AgriSciences
Johnston, IA
800-233-7333
pioneer.com
*Maturity checks

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

Dyna-Gro Seed
Goddard, KS
800-950-2231
cpsagu.com

Gayland Ward Seed
Hereford, TX
806-258-7394
gaylandwardseed.com

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

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

Sorghum Partners
New Deal, TX
855-767-4486
swseedco.com

S&W Seed Company
Lubbock, TX
855-767-4486
swseedco.com

NORTHEAST KANSAS DRYLAND GRAIN SORGHUM TEST

Manhattan, Riley County
Agronomy North Farm
Planted: 6/4/2019
Harvested: 10/28/2019
180-0-0 lb/a N, P, K
Reading silt loam
Previous crop: wheat

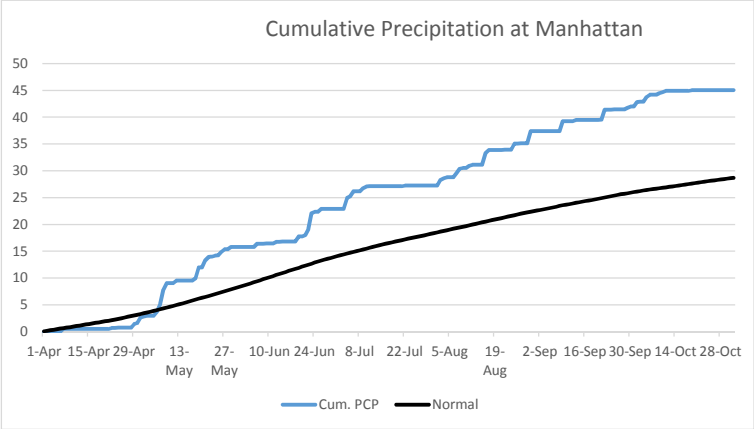

Table 3. Riley County Dryland Grain Sorghum Performance Test, 2017-2019

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			Days	Grain	Test	Plnt		Pop.
					2-yr.	3-yr.				to	moist.	wt.	ht.	Ldg	1000
BRAND	NAME	2019	2018	2017	AVG.	AVG.	2019	2018	2017	blm	%	lb/bu	in.	%	ppa
ADVANTA	ADV XG141	110	--	--	--	--	90	--	--	--	13	62	--	--	41
ADVANTA	ADV XG224	128	--	--	--	--	104	--	--	--	14	63	--	--	42
ADVANTA	ADV XG251	111	--	--	--	--	90	--	--	--	14	63	--	--	42
ADVANTA	ADV XG255	116	--	--	--	--	94	--	--	--	13	62	--	--	41
ADVANTA	ADV XG256	134	--	--	--	--	109	--	--	--	14	62	--	--	42
ADVANTA	ADV XG397	120	--	--	--	--	98	--	--	--	14	63	--	--	42
ADVANTA	ADV XG885	124	--	--	--	--	101	--	--	--	15	62	--	--	43
ADVANTA	ADV XG9127	101	--	--	--	--	82	--	--	--	13	63	--	--	41
ADVANTA	ADV G2106	110	95	--	103	--	89	93	--	--	14	62	--	--	42
ADVANTA	ADV G2275	125	89	--	107	--	102	97	--	--	14	62	--	--	42
ADVANTA	ADV G3247	135	--	--	--	--	109	--	--	--	14	62	--	--	42
ADVANTA	ADV XG093	123	--	--	--	--	100	--	--	--	14	62	--	--	42
ADVANTA	AG1203	111	98	--	105	--	90	96	--	--	14	61	--	--	42
DEKALB	DKS33-07	95	110	155	102	120	77	108	104	--	12	61	--	--	40
DEKALB	DKS38-16	120	118	137	119	125	98	116	91	--	14	63	--	--	42
DEKALB	DKS45-23	145	113	144	129	134	118	111	97	--	13	63	--	--	41
DEKALB	DKS47-07	138	132	--	135	--	112	129	--	--	14	61	--	--	42
DEKALB	DKS53-53	132	122	144	127	133	107	120	97	--	14	63	--	--	42
DEKALB	DKS54-07	154	--	--	--	--	125	--	--	--	14	63	--	--	42
DYNA-GRO	GX17973	131	--	--	--	--	106	--	--	--	13	61	--	--	41
DYNA-GRO	GX18395	134	--	--	--	--	109	--	--	--	14	62	--	--	42
DYNA-GRO	GX19981	136	--	--	--	--	110	--	--	--	14	63	--	--	42
DYNA-GRO	M60GB31	122	99	152	111	124	99	97	102	--	13	61	--	--	41
DYNA-GRO	M62GB77	111	--	--	--	--	90	--	--	--	14	62	--	--	42
DYNA-GRO	M69GB38	132	86	--	109	--	107	85		--	14	63	--	--	42
DYNA-GRO	M71GR91	139	--	--	--	--	113	--	--	--	14	64	--	--	42
DYNA-GRO	M74GB17	108	100	154	104	121	88	97	103	--	14	62	--	--	42
GOLDEN ACRES	2620C	95	--	--	--	--	77	--	--	--	12	60	--	--	40
GOLDEN ACRES	2730B	110	--	--	--	--	89	--	--	--	12	60	--	--	40
GOLDEN ACRES	2840B	131	109	--	120	--	107	107	--	--	13	62	--	--	41
GOLDEN ACRES	3960B	115	75	155	95	115	93	73	104	--	13	61	--	--	41
GOLDEN ACRES	4880R	140	--	--	--	--	114	--	--	--	14	63	--	--	42
KSU	MN05	124	--	--	--	--	101	--	--	--	13	61	--	--	41
MATURITY CHECK	DEKALB EARLY	84	101	158	92	114	68	98	106	--	12	57	--	--	40
MATURITY CHECK	DEKALB LATE	145	124	142	134	137	118	122	95	--	14	63	--	--	42
MATURITY CHECK	DEKALB MED	135	123	137	129	132	110	120	91	--	13	63	--	--	41
MATURITY CHECK	EARLY	134	118	152	126	135	109	115	102	--	13	61	--	--	41
MATURITY CHECK	LATE	106	90	145	98	114	86	88	97	--	12	62	--	--	40
MATURITY CHECK	MED	138	100	137	119	125	112	98	89	--	14	62	--	--	42
	Average	123	102	149	113	125	100	100	100	--	13	62	--	--	41
	CV (%)	8	11	**9**	--	--	8	11	9	--	5	1	--	--	--
	LSD (0.05)*	13	16	20	--	--	11	15	20	--	1	1	--	--	--

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

NORTHEAST KANSAS DRYLAND GRAIN SORGHUM TEST

Beloit, Mitchell County
Tom Deneke Farm
Planted: 6/7/2019
Harvested: 11/5/2019
100-0-0 lb/a N, P, K
Harney silt loam
Previous crop: sorghum

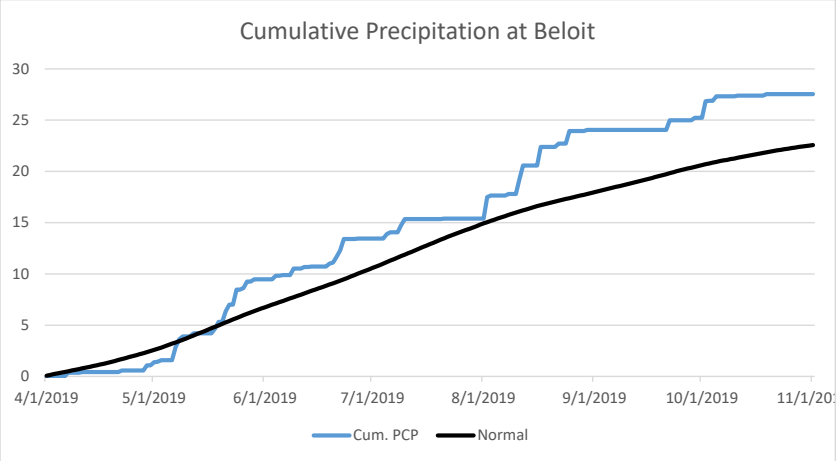

Table 4. Mitchell County Dryland Grain Sorghum Performance Test, 2017-2019

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			Days	Grain	Test	Plnt		Pop.
					2-yr.	3-yr.				to	moist.	wt.	ht.	Ldg	1000
BRAND	NAME	2019	2018	2017	AVG.	AVG.	2019	2018	2017	blm	%	lb/bu	in.	%	ppa
ADVANTA	ADV XG141	94	--	--	--	--	94	--	--	--	13	62	--	--	41
ADVANTA	ADV XG224	90	--	--	--	--	91	--	--	--	13	62	--	--	41
ADVANTA	ADV XG251	63	--	--	--	--	63	--	--	--	14	62	--	--	41
ADVANTA	ADV XG255	99	--	--	--	--	100	--	--	--	13	63	--	--	41
ADVANTA	ADV XG256	110	--	--	--	--	111	--	--	--	13	63	--	--	41
ADVANTA	ADV XG397	84	--	--	--	--	84	--	--	--	13	63	--	--	41
ADVANTA	ADV XG885	88	--	--	--	--	89	--	--	--	14	61	--	--	41
ADVANTA	ADV XG9127	82	--	--	--	--	83	--	--	--	14	63	--	--	41
ALTA	ADV G2106	88	114	--	101	--	89	110	--	--	13	63	--	--	41
ALTA	ADV G2275	90	94	--	92	--	90	91	--	--	13	62	--	--	41
ALTA	ADV G3247	108	--	--	--	--	109	--	--	--	14	62	--	--	41
ALTA	ADV XG093	105	106	--	106	--	106	103	--	--	13	62	--	--	41
ALTA	AG1203	96	--	--	--	--	96	--	--	--	13	62	--	--	41
DEKALB	DKS28-05	95	--	--	--	--	96	--	--	--	13	62	--	--	41
DEKALB	DKS33-07	97	100	--	98	--	97	97	--	--	14	63	--	--	41
DEKALB	DKS38-16	109	115	93	112	106	110	112	100	--	13	64	--	--	41
DEKALB	DKS45-23	104	115	75	109	98	104	112	80	--	14	63	--	--	41
DEKALB	DKS47-07	97	119	--	108	--	97	116	--	--	13	62	--	--	41
DEKALB	DKS53-53	91	110	100	101	100	92	106	107	--	14	63	--	--	41
DEKALB	DKS54-07	119	--	--	--	--	120	--	--	--	14	64	--	--	41
DYNA-GRO	GX17973	106	--	--	--	--	106	--	--	--	13	61	--	--	41
DYNA-GRO	GX18395	102	--	--	--	--	102	--	--	--	13	63	--	--	41
DYNA-GRO	GX19981	105	--	--	--	--	106	--	--	--	14	64	--	--	41
DYNA-GRO	M60GB31	103	96	80	99	93	103	93	86	--	13	62	--	--	41
DYNA-GRO	M62GB77	104	--	--	--	--	105	--	--	--	13	63	--	--	41
DYNA-GRO	M69GB38	108	106	--	107	--	108	103	--	--	13	62	--	--	41
DYNA-GRO	M71GR91	91	--	--	--	--	92	--	--	--	14	64	--	--	41
DYNA-GRO	M74GB17	90	--	--	--	--	90	--	--	--	13	62	--	--	41
KSU	MN05	101	--	--	--	--	102	--	--	--	13	61	--	--	41
MATURITY CHECK	DEKALB EARLY	93	89	111	91	98	93	86	119	--	13	62	--	--	40
MATURITY CHECK	DEKALB LATE	111	112	77	112	100	112	108	82	--	14	63	--	--	41
MATURITY CHECK	DEKALB MED	111	105	93	108	103	111	102	100	--	14	63	--	--	41
MATURITY CHECK	EARLY	119	109	70	114	99	119	106	76	--	13	62	--	--	41
MATURITY CHECK	LATE	90	90	99	90	93	90	87	107	--	14	62	--	--	42
MATURITY CHECK	MED	114	102	79	108	98	114	99	85	--	13	63	--	--	41

Table 4 continued. Mitchell County Dryland Grain Sorghum Performance Test, 2017-2019

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			Days	Grain	Test	Plnt		Pop.
					2-yr.	3-yr.				to	moist.	wt.	ht.	Ldg	1000
BRAND	NAME	2019	2018	2017	AVG.	AVG.	2019	2018	2017	blm	%	lb/bu	in.	%	ppa
POLANSKY	5519	103	--	--	--	--	103	--	--	--	13	63	--	--	41
POLANSKY	5629	102	--	--	--	--	102	--	--	--	13	62	--	--	40
POLANSKY	5719	114	--	--	--	--	114	--	--	--	14	64	--	--	41
	Average	99	103	93	101	98	100	100	100	--	13	63	--	--	41
	CV (%)	7	9	7	--	--	7	9	9	--	5	1	--	--	--
	LSD (0.05)*	10	13	9	--	--	10	13	14	--	1	1	--	--	--

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

Table 5. NORTHEAST Kansas Grain Sorghum Hybrid Yield Summary (% of test avg.), 2019

BRAND/NAME	RLD	RPD	MTD	AVG.
ADVANTA				
ADV XG141	90	--	94	92
ADV XG224	104	--	91	98
ADV XG251	90	--	63	77
ADV XG255	94	--	100	97
ADV XG256	109	--	111	110
ADV XG397	98	--	84	91
ADV XG885	101	--	89	95
ADV XG9127	82	--	83	82
ALTA				
ADV G2106	89	--	89	89
ADV G2275	102	--	90	96
ADV G3247	109	--	109	109
ADV XG093	100	--	106	103
AG1203	90	--	96	93
DEKALB				
DKS28-05	--	--	96	--
DKS33-07	77	--	97	87
DKS38-16	98	--	110	104
DKS45-23	118	--	104	111
DKS47-07	112	--	97	105
DKS53-53	107	--	92	100
DKS54-07	125	--	120	122
DYNA-GRO				
GX17973	106	--	106	106
GX18395	109	--	102	106
GX19981	110	--	106	108
M60GB31	99	--	103	101
M62GB77	90	--	105	98
M69GB38	107	--	108	108
M71GR91	113	--	92	102
M74GB17	88	--	90	89
GOLDEN ACRES				
2620C	77	--	--	--
2730B	89	--	--	--
2840B	107	--	--	--
3960B	93	--	--	--
4880R	114	--	--	--
KSU				
MN05	101	--	102	102
MATURITY CHECK				
DEKALB EARLY	68	--	93	81
DEKALB LATE	118	--	112	115
DEKALB MED	110	--	111	111
EARLY	109	--	119	114
LATE	86	--	90	88
MED	112	--	114	113
POLANSKY				
5519	--	--	103	--
5629	--	--	102	--
5719	--	--	114	--
AVERAGES (bu/a)	123	--	99	111
CV (%)	8	--	7	--
LSD (0.05)	11	--	10	--

RLD= Riley Co., Manhattan

RPD= Republic Co., Belleville. Abandoned: heavy weed pressure and variability

MTD= Mitchell Co., Beloit

SOUTHEAST KANSAS DRYLAND GRAIN SORGHUM TEST

Ottawa, Franklin County
East Central Experiment Field
Planted: 6/3/2019
Harvested: 11/6/2019
144-48-31-10 lb/a N, P, K, S
Woodson silt loam
Previous crop: soybean

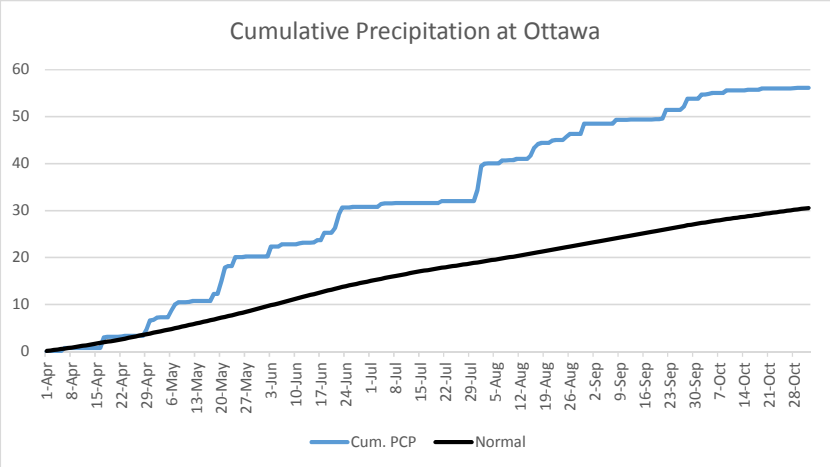

Table 6. Franklin County Dryland Grain Sorghum Performance Test, 2017-2019

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			Days	Grain	Test	Plnt		Pop.
					2-yr.	3-yr.				to	moist.	wt.	ht.	Ldg	1000
BRAND	NAME	2019	2018	2017	AVG.	AVG.	2019	2018	2017	blm	%	lb/bu	in.	%	ppa
ADVANTA	ADV XG141	**135**	--	--	--	--	104	--	--	64	12	60	--	--	38
ADVANTA	ADV XG256	92	--	--	--	--	71	--	--	64	13	61	--	--	38
ADVANTA	ADV XG397	118	--	--	--	--	91	--	--	65	12	61	--	--	34
ADVANTA	ADV XG9127	121	--	--	--	--	93	--	--	65	12	62	--	--	32
ADVANTA	ADV XG255	**134**	--	--	--	--	104	--	--	66	11	62	--	--	38
ADVANTA	ADV XG224	126	--	--	--	--	97	--	--	68	12	62	--	--	29
ADVANTA	ADV XG251	**134**	--	--	--	--	104	--	--	70	11	63	--	--	39
ADVANTA	ADV XG885	**145**	--	--	--	--	112	--	--	70	12	61	--	--	35
ADVANTA	ADV G2106	**144**	98	--	121	--	111	84	--	61	11	61	--	--	28
ADVANTA	ADV G2275	124	99	--	111	--	96	85	--	65	12	62	--	--	35
ADVANTA	AG1203	**131**	105	--	118	--	101	90	--	67	11	58	--	--	32
ADVANTA	ADV XG093	**128**	103	--	115	--	99	88	--	70	12	62	--	--	37
DYNA-GRO	M62GB77	**138**	--	--	--	--	107	--	--	63	11	61	--	--	40
DYNA-GRO	GX18395	116	--	--	--	--	89	--	--	65	12	60	--	--	38
DYNA-GRO	M68GR41	**137**	--	--	--	--	105	--	--	65	11	60	--	--	39
DYNA-GRO	M60GB31	123	106	183	114	137	95	91	104	66	11	60	--	--	32
DYNA-GRO	M74GB17	106	117	186	112	136	82	101	105	67	12	60	--	--	40
DYNA-GRO	M69GB38	**135**	**143**	--	139	--	104	123	--	67	11	61	--	--	34
DYNA-GRO	GX17973	**136**	--	--	--	--	105	--	--	67	11	60	--	--	40
DYNA-GRO	M68GB18	121	123	--	122	--	93	106	--	68	12	62	--	--	35
DYNA-GRO	GX19981	**139**	--	--	--	--	107	--	--	68	12	62	--	--	32
DYNA-GRO	M71GR04	**133**	122	--	128	--	103	105	--	68	11	63	--	--	38
DYNA-GRO	M69GR88	**128**	109	--	118	--	99	93	--	69	12	60	--	--	36
DYNA-GRO	M71GR91	123	--	--	--	--	95	--	--	69	12	62	--	--	32
DYNA-GRO	M73GR55	**130**	**137**	**203**	133	157	100	118	115	72	12	61	--	--	29
KSU	MN05	**130**	--	--	--	--	100	--	--	67	12	58	--	--	39
MATURITY CHECK	DEKALB EARLY	**128**	93	168	111	130	99	80	95	59	11	57	--	--	37
MATURITY CHECK	DEKALB MED	**143**	**136**	171	139	150	110	117	97	67	11	63	--	--	37
MATURITY CHECK	DEKALB LATE	**146**	**133**	169	140	149	113	114	96	69	11	62	--	--	35
MATURITY CHECK	EARLY	118	124	176	121	139	91	106	100	62	11	60	--	--	37
MATURITY CHECK	MED	**139**	116	163	127	139	107	100	93	65	12	62	--	--	40
MATURITY CHECK	LATE	**146**	96	169	121	137	113	82	96	68	11	62	--	--	40
	Average	130	117	176	123	141	100	100	100	66	11	61	--	--	36
	CV (%)	11	11	5	--	--	11	11	5	1	4	2	--	--	12
	LSD (0.05)	19	18	13	--	--	15	15	13	1	1	2	--	--	6

*Yields in bold are not statistically different than the highest-yielding hybrid.

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

SOUTHEAST KANSAS DRYLAND GRAIN SORGHUM TEST

Parsons, Labette County
Southeast Agricultural Research Center
Planted: 6/19/2019
Harvested: 11/1/2019
150-46-60 lb/a N, P, K
Parsons silt loam
Previous crop: soybean

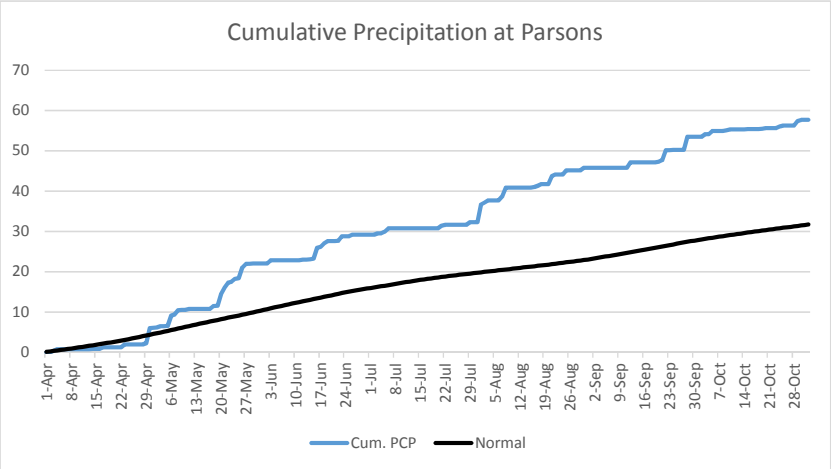

Table 7. Labette County Dryland Grain Sorghum Performance Test, 2017-2019

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			Days	Grain	Test	Plnt		Pop.
					2-yr.	3-yr.				to	moist.	wt.	ht.	Ldg	1000
BRAND	NAME	2019	2018	2017	AVG.	AVG.	2019	2018	2017	blm	%	lb/bu	in.	%	ppa
ADVANTA	ADV XG9127	87	--	--	--	--	95	--	--	54	15	55	52	--	48
ADVANTA	ADV XG397	**101**	--	--	--	--	111	--	--	55	16	50	58	--	50
ADVANTA	ADV XG141	98	--	--	--	--	107	--	--	56	15	51	52	--	47
ADVANTA	ADV XG256	**103**	--	--	--	--	113	--	--	58	16	52	54	--	51
ADVANTA	ADV XG224	92	--	--	--	--	101	--	--	60	16	60	58	--	35
ADVANTA	ADV XG255	**103**	--	--	--	--	113	--	--	60	15	51	55	--	50
ADVANTA	ADV XG251	86	--	--	--	--	95	--	--	61	16	57	58	--	59
ADVANTA	ADV XG885	97	--	--	--	--	107	--	--	63	17	55	60	--	40
ADVANTA	ADV G2106	80	47	--	63	--	88	69	--	50	15	50	49	--	50
ADVANTA	AG1203	77	62	--	69	--	84	90	--	56	15	50	55	--	45
ADVANTA	ADV G2275	**113**	78	--	96	--	125	113	--	57	16	56	57	--	53
ADVANTA	ADV XG093	98	--	--	--	--	108	--	--	59	17	51	59	--	62
DYNA-GRO	M62GB77	86	--	--	--	--	94	--	--	51	15	50	54	--	58
DYNA-GRO	M60GB31	84	50	142	67	92	92	73	105	55	15	50	55	--	55
DYNA-GRO	M60GB88	84	62	--	73	--	92	90	--	55	15	50	51	--	66
DYNA-GRO	GX18395	71	--	--	--	--	77	--	--	56	16	50	53	--	58
DYNA-GRO	M69GB38	95	84	--	89	--	104	122	--	56	16	55	60	--	52
DYNA-GRO	GX17973	94	--	--	--	--	104	--	--	57	15	62	61	--	55
DYNA-GRO	M74GB17	79	53	149	66	94	87	77	110	57	16	52	56	--	65
DYNA-GRO	GX19981	**103**	--	--	--	--	113	--	--	58	16	55	54	--	53
DYNA-GRO	M71GR91	92	--	--	--	--	101	--	--	58	15	50	59	--	50
KSU	MN05	**110**	--	--	--	--	121	--	--	59	15	51	56	--	59
MATURITY CHECK	DEKALB EARLY	67	56	94	62	72	74	82	69	49	15	50	48	--	63
MATURITY CHECK	DEKALB MED	**108**	75	167	92	117	119	108	124	55	15	53	56	--	63
MATURITY CHECK	DEKALB LATE	**106**	**93**	**172**	100	124	117	136	127	57	16	54	55	--	52
MATURITY CHECK	EARLY	53	45	**181**	49	93	59	66	133	50	15	50	48	--	57
MATURITY CHECK	MED	95	45	126	70	89	105	65	93	51	15	53	54	--	62
MATURITY CHECK	LATE	85	61	91	73	79	93	88	67	57	15	50	49	--	58
	Average	91	69	135	80	98	100	100	100	56	15	53	55	--	54
	CV (%)	10	8	9	--	--	10	8	9	0	3	2	3	--	18
	LSD (0.05)	13	8	17	--	--	14	11	17	0	1	2	2	--	14

*Yields in bold are not statistically different than the highest-yielding hybrid.

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

Table 8. SOUTHEAST Kansas Grain Sorghum Hybrid Yield Summary (% of test avg.), 2019

BRAND/NAME	FRD	LBD	AVG.
ADVANTA			
ADV XG141	104	107	106
ADV XG224	97	101	99
ADV XG251	104	95	99
ADV XG255	104	113	108
ADV XG256	71	113	92
ADV XG397	91	111	101
ADV XG885	112	107	109
ADV XG9127	93	95	94
ALTA			
ADV G2106	111	88	99
ADV G2275	96	125	110
ADV XG093	99	108	103
AG1203	101	84	93
DYNA-GRO			
GX17973	105	104	104
GX18395	89	77	83
GX19981	107	113	110
M60GB31	95	92	93
M60GB88	--	92	--
M62GB77	107	94	100
M68GB18	93	--	--
M68GR41	105	--	--
M69GB38	104	104	104
M69GR88	99	--	--
M71GR04	103	--	--
M71GR91	95	101	98
M73GR55	100	--	--
M74GB17	82	87	84

BRAND/NAME	FRD	LBD	AVG.
KSU			
MN05	100	121	111
MATURITY CHECK			
DEKALB EARLY	99	74	86
DEKALB LATE	113	117	115
DEKALB MED	110	119	115
EARLY	113	93	103
LATE	91	59	75
MED	107	105	106
AVERAGES (bu/a)	130	91	110
CV (%)	11	10	--
LSD (0.05)	15	14	--

FRD= Franklin Co., Ottawa

LBD= Labette Co., Parsons

CENTRAL KANSAS DRYLAND GRAIN SORGHUM TEST

Hutchinson, Reno County
South Central Experiment Field
Planted: 6/28/2019
Harvested: 11/9/2019
150-0-0 lb/a N, P, K
Ulysses silt loam
Previous crop: soybean

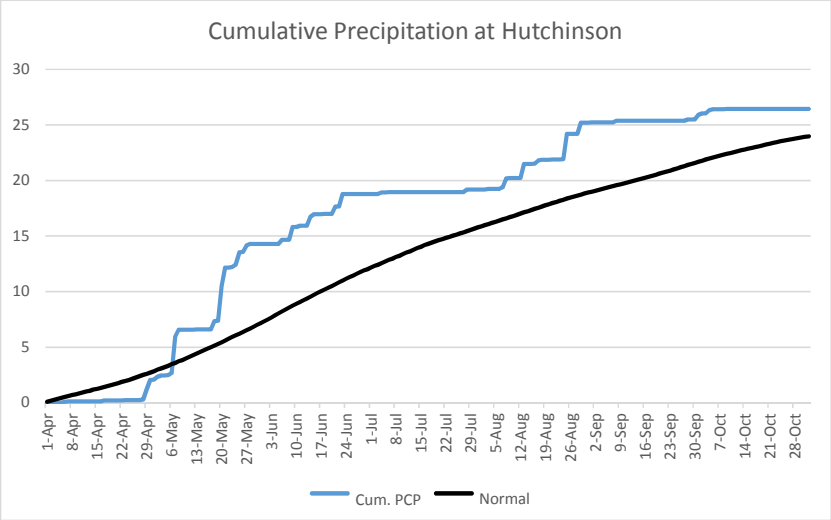

Table 9. Reno County Dryland Grain Sorghum Performance Test, 2017-2019

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			Days	Grain	Test	Plnt		Pop.
BRAND	NAME	2019	2018	2017	2-yr. AVG.	3-yr. AVG.	2019	2018	2017	to blm	moist. %	wt. lb/bu	ht. in.	Ldg %	1000 ppa
ADVANTA	ADV XG9127	107	--	--	--	--	75	--	--	--	9	57	--	--	--
ADVANTA	ADV G1150	117	114	--	115	--	82	92	--	--	11	56	--	--	--
ADVANTA	ADV G2106	133	129	--	131	--	93	104	--	--	9	53	--	--	--
ADVANTA	ADV G2275	124	121	--	123	--	87	97	--	--	10	56	--	--	--
ADVANTA	ADV XG629	93	--	--	--	--	65	--	--	--	10	53	--	--	--
ADVANTA	AG1201	106	111	--	109	--	74	89	--	--	9	56	--	--	--
ADVANTA	AG1203	155	--	--	--	--	109	--	--	--	10	58	--	--	--
DEKALB	DKS33-07	131	118	--	125	--	92	95	--	--	10	55	--	--	--
DEKALB	DKS38-16	143	133	--	138	--	100	107	--	--	10	55	--	--	--
DEKALB	DKS45-23	145	**157**	--	151	--	102	126	--	--	12	55	--	--	--
DEKALB	DKS47-07	147	**144**	--	145	--	103	116	--	--	10	61	--	--	--
DEKALB	DKS53-53	**178**	123	--	150	--	124	99	--	--	10	57	--	--	--
DEKALB	DKS54-07	154	--	--	--	--	107	--	--	--	10	58	--	--	--
DYNA-GRO	GX17973	145	--	--	--	--	101	--	--	--	10	57	--	--	--
DYNA-GRO	GX18395	**164**	--	--	--	--	115	--	--	--	10	58	--	--	--
DYNA-GRO	GX19981	**174**	--	--	--	--	121	--	--	--	10	55	--	--	--
DYNA-GRO	M60GB31	**166**	135	--	150	--	116	109	--	--	9	55	--	--	--
DYNA-GRO	M60GB88	126	122	--	124	--	88	98	--	--	9	57	--	--	--
DYNA-GRO	M62GB77	155	--	--	--	--	108	--	--	--	9	55	--	--	--
DYNA-GRO	M68GB18	**165**	**147**	--	156	--	116	118	--	--	10	58	--	--	--
DYNA-GRO	M68GR41	151	--	--	--	--	106	--	--	--	11	55	--	--	--
DYNA-GRO	M69GB38	142	**149**	--	146	--	100	120	--	--	10	58	--	--	--
DYNA-GRO	M69GR88	152	130	--	141	--	107	104	--	--	9	54	--	--	--
DYNA-GRO	M71GR04	130	**144**	--	137	--	91	116	--	--	10	56	--	--	--
DYNA-GRO	M71GR91	148	--	--	--	--	104	--	--	--	11	57	--	--	--
DYNA-GRO	M73GR55	145	91	--	118	--	101	73	--	--	10	51	--	--	--
DYNA-GRO	M74GB17	123	105	--	114	--	86	85	--	--	10	57	--	--	--
KSU	MN05	**165**	--	--	--	--	115	--	--	--	9	52	--	--	--
MATURITY CHECK	DEKALB EARLY	106	123	--	114	--	74	99	--	--	10	55	--	--	--
MATURITY CHECK	DEKALB LATE	**165**	**140**	--	152	--	115	113	--	--	9	52	--	--	--
MATURITY CHECK	DEKALB MED	144	**143**	--	144	--	101	115	--	--	11	58	--	--	--
MATURITY CHECK	EARLY	**163**	100	--	131	--	114	80	--	--	11	57	--	--	--
MATURITY CHECK	LATE	125	127	--	126	--	87	102	--	--	10	50	--	--	--
MATURITY CHECK	MED	159	**141**	--	150	--	111	113	--	--	10	58	--	--	--
POLANSKY	5519	138	--	--	--	--	96	--	--	--	11	54	--	--	--
POLANSKY	5629	146	--	--	--	--	102	--	--	--	12	52	--	--	--
POLANSKY	5719	150	--	--	--	--	105	--	--	--	12	57	--	--	--
S&W SEED	CHR0395	160	**148**	--	154	--	112	119	--	--	10	54	--	--	--
S&W SEED	CHR2042	145	--	--	--	--	101	--	--	--	11	58	--	--	--
S&W SEED	SWGS3183	143	--	--	--	--	100	--	--	--	10	55	--	--	--

Table 9 continued. Reno County Dryland Grain Sorghum Performance Test, 2017-2019

BRAND	NAME	ACRE YIELD, BUSHELS 2019	2018	2017	2-yr. AVG.	3-yr. AVG.	YIELD AS % OF TEST AVERAGE 2019	2018	2017	Days to blm	Grain moist. %	Test wt. lb/bu	Plnt ht. in.	Ldg %	Pop. 1000 ppa
SORGHUM PARTNERS	SP 43M80	139	--	--	--	--	97	--	--	--	9	58	--	--	--
SORGHUM PARTNERS	SP 68M57	141	112	--	127	--	99	90	--	--	9	55	--	--	--
SORGHUM PARTNERS	SP 74C40	137	--	--	--	--	96	--	--	--	13	57	--	--	--
SORGHUM PARTNERS	SP 74M21	148	--	--	--	--	104	--	--	--	10	56	--	--	--
SORGHUM PARTNERS	SP7715	156	119	--	138	--	109	95	--	--	11	56	--	--	--
	Average	143	124	--	134	--	100	100	--	--	10	56	--	--	--
	CV (%)	8	10	--	--	--	8	10	--	--	15	2	--	--	--
	LSD (0.05)	16	18	--	--	--	11	14	--	--	2	2	--	--	--

*Yields in bold are not statistically different than the highest-yielding hybrid.

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

Table 10. CENTRAL Kansas Grain Sorghum Hybrid Yield Summary (% of test avg.), 2019

BRAND/NAME	RND	SAD	AVG.
ADVANTA			
ADV XG9127	75	--	75
ALTA			
ADV G1150	82	--	82
ADV G2106	93	--	93
ADV G2275	87	--	87
ADV XG629	65	--	65
AG1201	74	--	74
AG1203	109	--	109
DEKALB			
DKS33-07	92	--	92
DKS38-16	100	--	100
DKS45-23	102	--	102
DKS47-07	103	--	103
DKS53-53	124	--	124
DKS54-07	107	--	107
DYNA-GRO			
GX17973	101	--	101
GX18395	115	--	115
GX19981	121	--	121
M60GB31	116	--	116
M60GB88	88	--	88
M62GB77	108	--	108
M68GB18	116	--	116
M68GR41	106	--	106
M69GB38	100	--	100
M69GR88	107	--	107
M71GR04	91	--	91
M71GR91	104	--	104
M73GR55	101	--	101
M74GB17	86	--	86
KSU			
MN05	115	--	115
MATURITY CHECK			
DEKALB EARLY	74	--	74
DEKALB LATE	115	--	115
DEKALB MED	101	--	101
EARLY	114	--	114
LATE	87	--	87
MED	111	--	111
POLANSKY			
5519	96	--	96
5629	102	--	102
5719	105	--	105
S&W SEED			
CHR0395	112	--	112
CHR2042	101	--	101
SWGS3183	100	--	100
SORGHUM PARTNERS			
SP 43M80	97	--	97
SP 68M57	99	--	99
SP 74C40	96	--	96
SP 74M21	104	--	104
SP7715	109	--	109
AVERAGES (bu/a)	143	--	143
CV (%)	8	--	8
LSD (0.05)	11	--	11

RND= Reno Co., Hutchinson

SAD= Saline Co., Assaria. Abandoned: heavy rains after planting and replanting.

WESTERN KANSAS DRYLAND GRAIN SORGHUM TEST

Hays, Ellis County
Western Kansas Research Center
Planted: 6/6/2019
Harvested: 11/1/2019
60-0-0 lb/a N, P, K
Harney clay loam
Previous crop: wheat

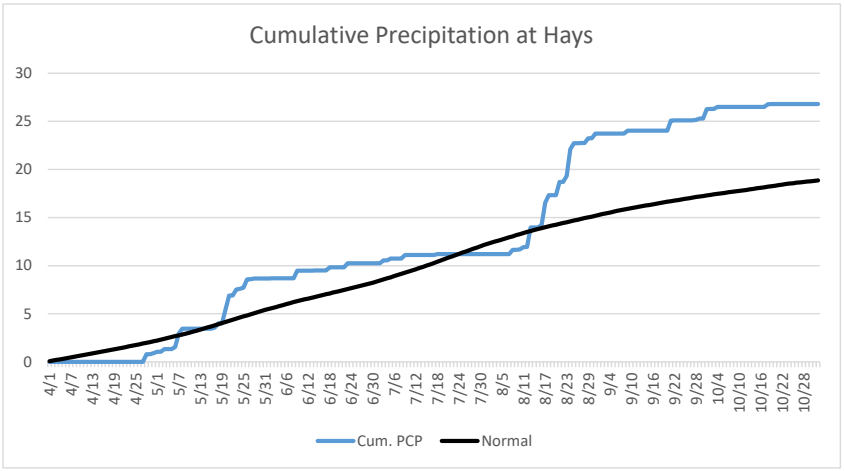

Table 11. Ellis County Dryland Grain Sorghum Performance Test, 2017-2019

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			Days	Grain	Test	Plnt		Pop.
					2-yr.	3-yr.				to	moist.	wt.	ht.	Ldg	1000
BRAND	NAME	2019	2018	2017	AVG.	AVG.	2019	2018	2017	blm	%	lb/bu	in.	%	ppa
ADVANTA	ADV XG141	85	--	--	--	--	81	--	--	--	11	55	--	--	--
ADVANTA	ADV XG251	94	--	--	--	--	90	--	--	--	12	53	--	--	--
ADVANTA	ADV XG255	**127**	--	--	--	--	122	--	--	--	10	53	--	--	--
ADVANTA	ADV XG256	108	--	--	--	--	103	--	--	--	12	57	--	--	--
ADVANTA	ADV XG9127	93	--	--	--	--	88	--	--	--	11	55	--	--	--
ALTA	ADV G1150	103	--	56	--	80	99	--	101	--	12	56	--	--	--
ALTA	ADV G2106	71	--	--	--	--	68	--	--	--	12	55	--	--	--
ALTA	ADV G2275	98	--	--	--	--	94	--	--	--	12	57	--	--	--
ALTA	ADV XG629	100	--	--	--	--	95	--	--	--	11	55	--	--	--
ALTA	AG1201	89	--	--	--	--	85	--	--	--	11	55	--	--	--
ALTA	AG1203	122	--	64	--	93	116	--	115	--	11	55	--	--	--
ARROW SEED	AS212	92	--	--	--	--	88	--	--	--	11	56	--	--	--
ARROW SEED	AS248FG	91	--	--	--	--	87	--	--	--	12	56	--	--	--
ARROW SEED	AS262	109	--	--	--	--	105	--	--	--	12	58	--	--	--
ARROW SEED	AS292FG	113	--	--	--	--	108	--	--	--	10	53	--	--	--
DEKALB	DKS28-05	113	--	52	--	83	108	--	94	--	9	53	--	--	--
DEKALB	DKS33-07	116	--		--		111	--		--	12	56	--	--	--
DEKALB	DKS38-16	**137**	--	**77**	--	107	131	--	139	--	13	59	--	--	--
DEKALB	DKS45-23	122	--	55	--	89	117	--	98	--	11	54	--	--	--
DYNA-GRO	GX17912	120	--	--	--	--	115	--	--	--	10	54	--	--	--
DYNA-GRO	GX17973	**132**	--	--	--	--	126	--	--	--	10	54	--	--	--
DYNA-GRO	GX18395	98	--	--	--	--	94	--	--	--	12	57	--	--	--
DYNA-GRO	GX18919	84	--	--	--	--	80	--	--	--	8	50	--	--	--
DYNA-GRO	GX19129	98	--	--	--	--	94	--	--	--	11	55	--	--	--
DYNA-GRO	GX19981	119	--	--	--	--	114	--	--	--	12	58	--	--	--
DYNA-GRO	M54GR24	88	--	--	--	--	84	--	--	--	11	56	--	--	--
DYNA-GRO	M57GB19	121	--	--	--	--	116	--	--	--	10	56	--	--	--
DYNA-GRO	M57GC29	92	--	--	--	--	88	--	--	--	11	55	--	--	--
DYNA-GRO	M59GB57	92	--	62	--	77	88	--	112	--	9	53	--	--	--
DYNA-GRO	M59GB94	101	--	--	--	--	96	--	--	--	11	55	--	--	--
DYNA-GRO	M60GB31	115	--	61	--	88	110	--	110	--	11	56	--	--	--
DYNA-GRO	M60GB88	102	--	66	--	84	97	--	118	--	11	55	--	--	--
DYNA-GRO	M62GB77	114	--	--	--	--	109	--	--	--	11	56	--	--	--
DYNA-GRO	M69GB38	118	--	--	--	--	113	--	--	--	11	56	--	--	--
DYNA-GRO	M71GR91	**124**	--	--	--	--	119	--	--	--	13	59	--	--	--
DYNA-GRO	M74GB17	95	--	--	--	--	91	--	--	--	12	54	--	--	--
GAYLAND WARD SEED	18044	103	--	--	--	--	99	--	--	--	11	54	--	--	--
GAYLAND WARD SEED	18057	74	--	--	--	--	71	--	--	--	12	55	--	--	--
GAYLAND WARD SEED	18068	85	--	--	--	--	81	--	--	--	12	56	--	--	--
GAYLAND WARD SEED	18083	112	--	--	--	--	107	--	--	--	11	56	--	--	--
GAYLAND WARD SEED	18084	85	--	--	--	--	81	--	--	--	11	56	--	--	--
GAYLAND WARD SEED	18087	91	--	--	--	--	87	--	--	--	11	55	--	--	--

Table 11 continued. Ellis County Dryland Grain Sorghum Performance Test, 2017-2019

BRAND	NAME	ACRE YIELD, BUSHELS 2019	2018	2017	2-yr. AVG.	3-yr. AVG.	YIELD AS % OF TEST AVERAGE 2019	2018	2017	Days to blm	Grain moist. %	Test wt. lb/bu	Plnt ht. in.	Ldg %	Pop. 1000 ppa
GAYLAND WARD SEED	18092	123	--	--	--	--	118	--	--	--	11	55	--	--	--
GAYLAND WARD SEED	18094	92	--	--	--	--	88	--	--	--	12	55	--	--	--
GAYLAND WARD SEED	18099	98	--	--	--	--	94	--	--	--	12	58	--	--	--
GAYLAND WARD SEED	18100	82	--	--	--	--	79	--	--	--	12	57	--	--	--
GAYLAND WARD SEED	18273	101	--	--	--	--	96	--	--	--	10	52	--	--	--
GAYLAND WARD SEED	18274	112	--	--	--	--	107	--	--	--	11	57	--	--	--
GAYLAND WARD SEED	18290	109	--	--	--	--	104	--	--	--	9	53	--	--	--
GAYLAND WARD SEED	18291	102	--	--	--	--	98	--	--	--	12	57	--	--	--
GAYLAND WARD SEED	19007	74	--	--	--	--	71	--	--	--	12	55	--	--	--
GAYLAND WARD SEED	19014	71	--	--	--	--	68	--	--	--	12	54	--	--	--
GAYLAND WARD SEED	19024	86	--	--	--	--	82	--	--	--	12	56	--	--	--
GOLDEN ACRES	2620C	119	--	--	--	--	114	--	--	--	9	54	--	--	--
GOLDEN ACRES	2730B	120	--	--	--	--	115	--	--	--	11	57	--	--	--
GOLDEN ACRES	2840B	96	--	--	--	--	91	--	--	--	12	59	--	--	--
KSU	MN05	120	--	--	--	--	115	--	--	--	10	54	--	--	--
MATURITY CHECK	DEKALB EARLY	104	--	--	--	--	99	--	--	--	10	53	--	--	--
MATURITY CHECK	DEKALB LATE	**137**	--	--	--	--	131	--	--	--	11	56	--	--	--
MATURITY CHECK	DEKALB MED	121	--	--	--	--	116	--	--	--	13	59	--	--	--
MATURITY CHECK	EARLY	**135**	--	57	--	96	129	--	102	--	12	57	--	--	--
MATURITY CHECK	LATE	105	--	59	--	82	100	--	107	--	10	55	--	--	--
MATURITY CHECK	MED	101	--	51	--	76	96	--	91	--	12	58	--	--	--
POLANSKY	5519	118	--	--	--	--	113	--	--	--	11	57	--	--	--
POLANSKY	5629	**126**	--	--	--	--	121	--	--	--	11	55	--	--	--
POLANSKY	5719	**126**	--	--	--	--	121	--	--	--	13	59	--	--	--
S&W SEED	CHR0395	97	--	--	--	--	93	--	--	--	12	55	--	--	--
S&W SEED	CHR2042	109	--	65	--	87	104	--	117	--	12	55	--	--	--
S&W SEED	SWGS3183	89	--	--	--	--	85	--	--	--	12	55	--	--	--
	Average	105	--	56	--	80	100	--	100	--	11	55	--	--	--
	CV (%)	9	--	12	--	--	9	--	12	--	7	2	--	--	--
	LSD (0.05)	13	--	9	--	--	13	--	17	--	1	1	--	--	--

*Yields in bold are not statistically different than the highest-yielding hybrid.

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

WESTERN KANSAS DRYLAND GRAIN SORGHUM TEST

Colby, Thomas County
K-State Northwest Research Center
Planted: 6/12/2019
Harvested: 10/26/2019
100-0-0 lb/a N, P, K
Keith silt loam
Previous crop: fallow

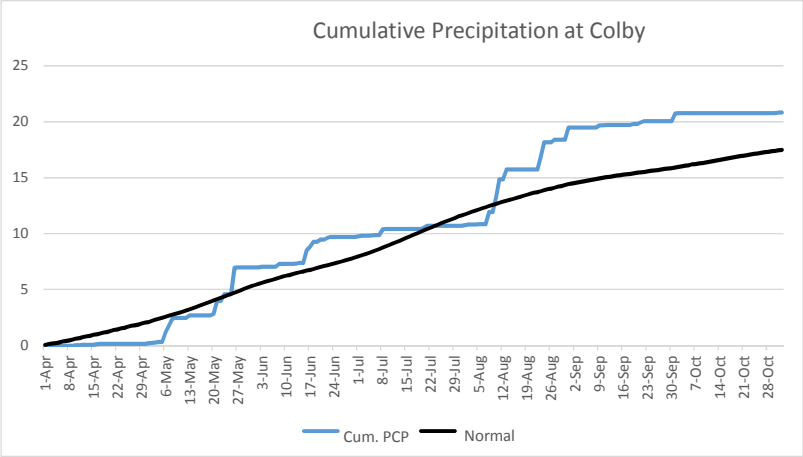

Table 12. Thomas County Dryland Grain Sorghum Performance Test, 2017-2019

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			Days	Grain	Test	Plnt		Pop.
					2-yr.	3-yr.				to	moist.	wt.	ht.	Ldg	1000
BRAND	NAME	2019	2018	2017	AVG.	AVG.	2019	2018	2017	blm	%	lb/bu	in.	%	ppa
ADVANTA	ADV XG141	51	--	--	--	--	82	--	--	73	12	58	42	--	--
ADVANTA	ADV XG255	67	--	--	--	--	108	--	--	73	12	56	41	--	--
ADVANTA	ADV XG9127	56	--	--	--	--	89	--	--	75	12	57	46	--	--
ADVANTA	ADV XG256	58	--	--	--	--	93	--	--	78	12	57	48	--	--
ADVANTA	ADV XG251	33	--	--	--	--	53	--	--	90	13	55	51	--	--
ADVANTA	AG1201	59	94	--	77	--	95	83	--	66	12	57	39	--	--
ADVANTA	ADV G2106	65	101	--	83	--	104	89	--	66	12	56	45	--	--
ADVANTA	ADV XG629	56	66	--	61	--	89	58	--	66	13	59	39	--	--
ADVANTA	ADV G2275	59	105	--	82	--	95	92	--	72	12	58	53	--	--
ADVANTA	ADV G1150	58	101	122	80	94	93	89	100	73	12	57	44	--	--
ADVANTA	AG1203	28	--	--	--	--	45	--	--	79	12	56	51	--	--
ARROW SEED	AS212	60	--	--	--	--	96	--	--	65	12	58	45	--	--
ARROW SEED	AS262	66	--	--	--	--	106	--	--	68	12	60	50	--	--
ARROW SEED	AS248FG	57	--	--	--	--	91	--	--	69	12	59	49	--	--
ARROW SEED	AS292FG	50	--	--	--	--	81	--	--	80	12	55	53	--	--
DEKALB	DKS28-05	69	143	**142**	106	118	110	126	117	63	11	56	41	--	--
DEKALB	DKS38-16	75	121	**140**	98	112	120	106	115	66	12	58	42	--	--
DEKALB	DKS45-23	71	111	121	91	101	113	98	100	71	12	57	48	--	--
DEKALB	DKS33-07	49	59	--	54	--	78	52	--	73	13	56	38	--	--
DYNA-GRO	GX17912	61	72	--	67	--	98	63	--	61	11	56	41	--	--
DYNA-GRO	GX18919	60	115	--	88	--	96	101	--	62	12	57	45	--	--
DYNA-GRO	M59GB57	71	117	101	94	96	113	103	83	64	12	56	40	--	--
DYNA-GRO	M54GR24	63	--	--	--	--	101	--	--	64	12	58	40	--	--
DYNA-GRO	M57GB19	70	--	--	--	--	112	--	--	65	12	57	41	--	--
DYNA-GRO	GX19129	59	--	--	--	--	94	--	--	66	12	58	38	--	--
DYNA-GRO	M59GB94	69	--	--	--	--	111	--	--	67	12	54	52	--	--
DYNA-GRO	M57GC29	58	--	--	--	--	92	--	--	68	12	58	38	--	--
GOLDEN ACRES	2620C	65	**160**	--	112	--	103	141	--	63	12	58	44	--	--
GOLDEN ACRES	2730B	66	**167**	--	116	--	105	147	--	64	12	57	43	--	--
GOLDEN ACRES	2840B	68	108	--	88	--	109	95	--	65	13	59	47	--	--
KSU	MN05	65	--	--	--	--	105	--	--	71	11	56	53	--	--
MATURITY CHECK	DEKALB EARLY	72	119	**142**	96	111	115	104	117	63	11	57	40	--	--
MATURITY CHECK	DEKALB MED	**97**	**169**	**140**	133	135	155	149	115	65	12	58	47	--	--
MATURITY CHECK	DEKALB LATE	62	100	113	81	92	100	88	93	73	24	57	49	--	--
MATURITY CHECK	EARLY	76	144	123	110	114	121	127	101	64	12	60	43	--	--
MATURITY CHECK	MED	73	140	**141**	107	118	117	123	116	69	13	59	46	--	--
MATURITY CHECK	LATE	61	123	**136**	92	107	98	108	112	75	12	58	42	--	--
SORGHUM PARTNERS	SP 25C10	46	107	--	76	--	73	94	--	59	11	54	36	--	--
SORGHUM PARTNERS	SP 31A15	67	144	--	106	--	108	127	--	65	11	55	42	--	--
SORGHUM PARTNERS	SP 43M80	68	--	--	--	--	108	--	--	65	12	57	48	--	--
SORGHUM PARTNERS	SP 68M57	78	104	--	91	--	125	91	--	70	12	57	46	--	--
	Average	63	114	121	88	99	100	100	100	69	12	57	44	--	--
	CV (%)	12	8	8	--	--	12	8	8	4	29	2	4	--	--
	LSD (0.05)	10	13	14	--	--	17	12	12	4	5	2	3	--	--

*Yields in bold are not statistically different than the highest-yielding hybrid.

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

WESTERN KANSAS DRYLAND GRAIN SORGHUM TEST

Tribune, Greeley County
K-State Northwest Research Center
Planted: 6/6/2019
Harvested: 10/21/2019
70-34-0 lb/a N, P, K
Ulyssess silt loam
Previous crop: wheat

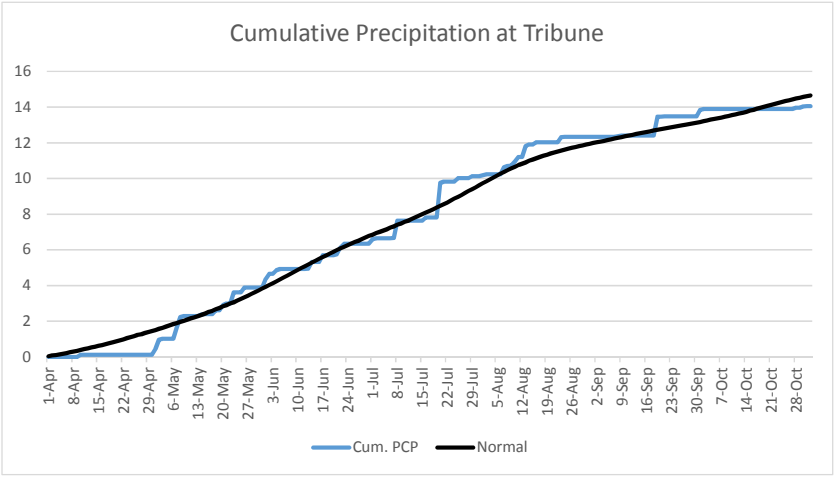

Table 13. Greeley County Dryland Grain Sorghum Performance Test, 2017-2019

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			Days	Grain	Test	Plnt		Pop.
					2-yr.	3-yr.				to	moist.	wt.	ht.	Ldg	1000
BRAND	NAME	2019	2018	2017	AVG.	AVG.	2019	2018	2017	blm	%	lb/bu	in.	%	ppa
ADVANTA	ADV XG141	108	--	--	--	--	94	--	--	69	10	58	44	--	27
ADVANTA	ADV XG256	117	--	--	--	--	101	--	--	73	13	59	49	--	31
ADVANTA	ADV XG9127	110	--	--	--	--	95	--	--	74	11	59	46	--	26
ADVANTA	ADV XG255	124	--	--	--	--	107	--	--	83	9	55	49	--	29
ADVANTA	ADV XG251	89	--	--	--	--	76	--	--	95	11	51	48	--	30
ADVANTA	ADV XG629	103	117	--	110	--	89	87	--	65	9	58	35	--	34
ADVANTA	AG1201	100	111	--	106	--	87	82	--	66	10	57	39	--	33
ADVANTA	ADV G1150	109	140	117	124	122	94	104	96	68	10	59	44	--	28
ADVANTA	AG1203	124	--	--	--	--	107	--	--	69	11	59	47	--	32
ADVANTA	ADV G2106	117	**154**	--	136	--	101	114	--	70	11	58	44	--	27
ADVANTA	ADV G2275	121	119	--	120	--	104	89	--	70	14	59	48	--	29
DEKALB	DKS28-05	122	145	**141**	133	136	105	108	116	60	10	59	46	--	33
DEKALB	DKS38-16	128	142	128	135	133	111	106	106	65	14	62	50	--	34
DEKALB	DKS45-23	139	**164**	**134**	152	146	120	122	110	72	12	59	51	--	33
DEKALB	DKS33-07	130	142	--	136	--	112	105	--	73	11	58	47	--	34
DYNA-GRO	GX18919	110	121	--	116	--	95	90	--	60	9	57	43	--	32
DYNA-GRO	M59GB57	105	122	117	113	115	90	91	96	60	10	59	38	--	32
DYNA-GRO	M54GR24	100	--	--	--	--	86	--	--	62	12	60	44	--	34
DYNA-GRO	GX17912	131	**154**	--	142	--	113	114	--	64	8	58	45	--	33
DYNA-GRO	M57GC29	103	--	--	--	--	89	--	--	64	9	57	35	--	36
DYNA-GRO	M57GB19	125	--	--	--	--	108	--	--	64	11	58	49	--	33
DYNA-GRO	GX19129	102	--	--	--	--	88	--	--	65	10	59	35	--	35
DYNA-GRO	M59GB94	126	--	--	--	--	109	--	--	65	12	60	48	--	33
GAYLAND WARD SEED	19014	114	--	--	--	--	98	--	--	67	11	57	49	--	31
GAYLAND WARD SEED	18100	106	--	--	--	--	92	--	--	67	12	60	46	--	29
GAYLAND WARD SEED	18290	137	--	--	--	--	118	--	--	67	9	58	46	--	34
GAYLAND WARD SEED	18057	118	--	--	--	--	102	--	--	68	9	57	47	--	32
GAYLAND WARD SEED	18291	111	--	--	--	--	96	--	--	68	12	59	49	--	36
GAYLAND WARD SEED	18087	99	--	--	--	--	86	--	--	68	12	58	57	--	32
GAYLAND WARD SEED	18099	105	--	--	--	--	91	--	--	68	12	61	42	--	36
GAYLAND WARD SEED	19024	113	--	--	--	--	97	--	--	68	12	58	45	--	33
GAYLAND WARD SEED	18274	116	--	--	--	--	100	--	--	68	14	59	47	--	35
GAYLAND WARD SEED	19007	112	--	--	--	--	96	--	--	68	10	57	51	--	30
GAYLAND WARD SEED	18094	124	--	--	--	--	107	--	--	68	10	58	50	--	36
GAYLAND WARD SEED	18083	112	--	--	--	--	96	--	--	69	11	59	52	--	38
GAYLAND WARD SEED	18092	139	--	--	--	--	120	--	--	69	9	58	47	--	36
GAYLAND WARD SEED	18084	100	--	--	--	--	86	--	--	69	12	60	51	--	32
GAYLAND WARD SEED	18273	106	--	--	--	--	92	--	--	70	14	57	48	--	35
GAYLAND WARD SEED	18044	110	--	--	--	--	95	--	--	71	13	56	50	--	31
GAYLAND WARD SEED	18068	106	--	--	--	--	92	--	--	71	14	58	53	--	33

Table 13 continued. Greeley County Dryland Grain Sorghum Performance Test, 2017-2019

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			Days	Grain	Test	Plnt		Pop.
					2-yr.	3-yr.				to	moist.	wt.	ht.	Ldg	1000
BRAND	NAME	2019	2018	2017	AVG.	AVG.	2019	2018	2017	blm	%	lb/bu	in.	%	ppa
GOLDEN ACRES	2840B	123	138	--	131	--	106	103	--	63	13	62	47	--	34
GOLDEN ACRES	2620C	133	144	--	139	--	115	107	--	64	9	59	45	--	33
GOLDEN ACRES	2730B	125	149	--	137	--	108	110	--	65	10	58	47	--	32
KSU	MN05	126	--	--	--	--	109	--	--	71	12	57	51	--	29
MATURITY CHECK	DEKALB EARLY	123	--	--	--	--	106	--	--	60	10	59	45	--	33
MATURITY CHECK	DEKALB MED	128	--	--	--	--	111	--	--	65	12	61	47	--	34
MATURITY CHECK	DEKALB LATE	127	--	--	--	--	110	--	--	75	13	58	51	--	30
MATURITY CHECK	EARLY	108	129	122	119	120	93	96	101	62	11	59	43	--	35
MATURITY CHECK	LATE	133	159	128	146	140	114	118	105	73	11	59	49	--	36
MATURITY CHECK	MED	119	135	129	127	128	102	100	106	75	12	59	49	--	36
SORGHUM PARTNERS	SP 25C10	95	103	--	99	--	82	77	--	60	8	57	40	--	31
SORGHUM PARTNERS	SP 43M80	110	--	--	--	--	95	--	--	63	14	60	48	--	34
SORGHUM PARTNERS	SP 68M57	121	143	--	132	--	104	106	--	65	11	59	45	--	29
SORGHUM PARTNERS	SP 31A15	115	129	--	122	--	99	96	--	66	10	57	44	--	34
	Average	116	135	122	125	124	100	100	100	68	11	58	46	--	33
	CV (%)	4	7	6	--	--	4	7	6	1	14	1	3	--	5
	LSD (0.05)	7	13	10	--	--	6	10	9	1	2	1	2	--	2

*Yields in bold are not statistically different than the highest-yielding hybrid.

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

WESTERN KANSAS DRYLAND GRAIN SORGHUM TEST

Garden City, Finney County
K-State Southwest Research Center
Planted: 6/4/2019
Harvested: 10/20/2019
100-0-0 lb/a N, P, K
Keith silt loam
Previous crop: wheat

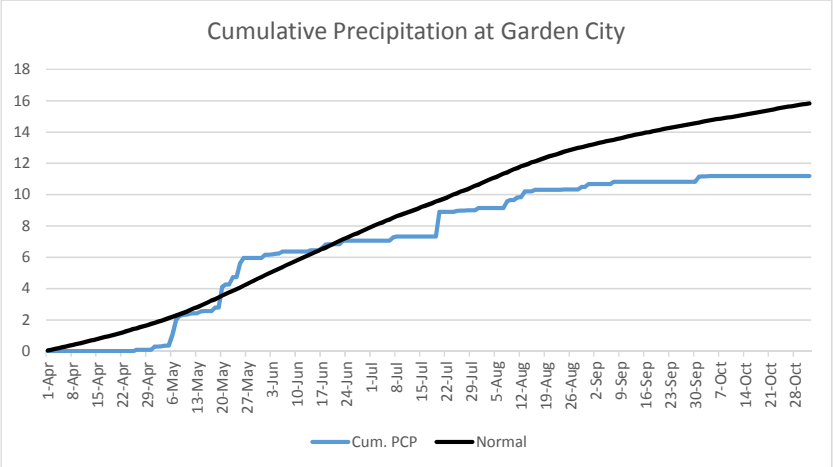

Table 14. Finney County Dryland Grain Sorghum Performance Test, 2017-2019

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			Days	Grain	Test	Plnt		Pop.
					2-yr.	3-yr.				to	moist.	wt.	ht.	Ldg	1000
BRAND	NAME	2019	2018	2017	AVG.	AVG.	2019	2018	2017	blm	%	lb/bu	in.	%	ppa
ADVANTA	ADV XG141	**107**	--	--	--	--	123	--	--	--	10	56	--	--	--
ADVANTA	ADV XG251	44	--	--	--	--	51	--	--	--	11	57	--	--	--
ADVANTA	ADV XG255	92	--	--	--	--	106	--	--	--	11	55	--	--	--
ADVANTA	ADV XG256	87	--	--	--	--	100	--	--	--	12	54	--	--	--
ADVANTA	ADV XG9127	101	--	--	--	--	117	--	--	--	11	54	--	--	--
ADVANTA	ADV G1150	94	50	91	72	78	108	86	95	--	11	58	--	--	--
ADVANTA	ADV G2106	102	50	--	76	--	117	85	--	--	9	58	--	--	--
ADVANTA	ADV G2275	73	66	--	70	--	84	112	--	--	13	56	--	--	--
ADVANTA	ADV XG629	82	55	--	69	--	95	94	--	--	10	56	--	--	--
ADVANTA	AG1201	82	60	--	71	--	94	103	--	--	10	56	--	--	--
ADVANTA	AG1203	**115**	--	--	--	--	133	--	--	--	10	57	--	--	--
DEKALB	DKS28-05	57	52	110	54	73	66	89	114	--	9	53	--	--	--
DEKALB	DKS33-07	**112**	44	--	78	--	129	75	--	--	11	57	--	--	--
DEKALB	DKS38-16	**112**	52	109	82	91	129	89	113	--	12	60	--	--	--
DEKALB	DKS45-23	**112**	**78**	106	95	99	129	134	111	--	11	55	--	--	--
DYNA-GRO	GX17973	89	--	--	--	--	102	--	--	--	12	56	--	--	--
DYNA-GRO	GX18395	81	--	--	--	--	93	--	--	--	12	53	--	--	--
DYNA-GRO	GX19981	97	--	--	--	--	112	--	--	--	12	58	--	--	--
DYNA-GRO	M54GR24	72	--	--	--	--	83	--	--	--	10	57	--	--	--
DYNA-GRO	M57GB19	95	--	--	--	--	109	--	--	--	10	56	--	--	--
DYNA-GRO	M59GB57	64	65	72	64	67	74	112	75	--	11	55	--	--	--
DYNA-GRO	M60GB31	**114**	61	107	87	94	131	104	111	--	10	58	--	--	--
DYNA-GRO	M62GB77	101	--	--	--	--	116	--	--	--	12	57	--	--	--
DYNA-GRO	M69GB38	97	--	--	--	--	112	--	--	--	10	57	--	--	--
DYNA-GRO	M71GR91	78	--	--	--	--	90	--	--	--	11	57	--	--	--
DYNA-GRO	M74GB17	72	--	--	--	--	83	--	--	--	13	56	--	--	--
GAYLAND WARD SEED	18044	102	--	--	--	--	118	--	--	--	10	53	--	--	--
GAYLAND WARD SEED	18057	94	--	--	--	--	109	--	--	--	10	55	--	--	--
GAYLAND WARD SEED	18068	95	--	--	--	--	110	--	--	--	11	56	--	--	--
GAYLAND WARD SEED	18083	92	--	--	--	--	107	--	--	--	11	57	--	--	--
GAYLAND WARD SEED	18084	65	--	--	--	--	75	--	--	--	13	57	--	--	--
GAYLAND WARD SEED	18087	81	--	--	--	--	93	--	--	--	11	55	--	--	--
GAYLAND WARD SEED	18092	101	--	--	--	--	116	--	--	--	9	54	--	--	--
GAYLAND WARD SEED	18094	91	--	--	--	--	105	--	--	--	10	55	--	--	--
GAYLAND WARD SEED	18099	89	--	--	--	--	102	--	--	--	12	58	--	--	--
GAYLAND WARD SEED	18100	65	--	--	--	--	75	--	--	--	13	57	--	--	--
GAYLAND WARD SEED	18273	89	--	--	--	--	102	--	--	--	12	55	--	--	--
GAYLAND WARD SEED	18274	**105**	--	--	--	--	121	--	--	--	14	58	--	--	--
GAYLAND WARD SEED	18290	90	--	--	--	--	104	--	--	--	9	52	--	--	--
GAYLAND WARD SEED	18291	68	--	--	--	--	79	--	--	--	12	57	--	--	--
GAYLAND WARD SEED	19007	75	--	--	--	--	87	--	--	--	11	55	--	--	--
GAYLAND WARD SEED	19014	89	--	--	--	--	102	--	--	--	11	53	--	--	--
GAYLAND WARD SEED	19024	94	--	--	--	--	108	--	--	--	10	55	--	--	--
GOLDEN ACRES	2620C	75	54	--	65	--	87	92	--	--	12	56	--	--	--
GOLDEN ACRES	2730B	85	52	--	68	--	98	89	--	--	11	55	--	--	--
GOLDEN ACRES	2840B	92	59	--	76	--	106	100	--	--	12	59	--	--	--
KSU	MN05	88	--	--	--	--	101	--	--	--	10	52	--	--	--
MATURITY CHECK	DEKALB EARLY	69	**79**	110	74	86	79	134	114	--	10	56	--	--	--
MATURITY CHECK	DEKALB LATE	80	43	100	61	74	92	73	104	--	11	54	--	--	--
MATURITY CHECK	DEKALB MED	98	50	109	74	86	112	85	113	--	11	60	--	--	--
MATURITY CHECK	EARLY	102	65	80	84	82	118	111	83	--	11	55	--	--	--
MATURITY CHECK	LATE	81	49	103	65	78	93	83	107	--	10	56	--	--	--
MATURITY CHECK	MED	82	59	100	71	80	95	101	104	--	13	57	--	--	--

Table 14 continued. Finney County Dryland Grain Sorghum Performance Test, 2017-2019

BRAND	NAME	ACRE YIELD, BUSHELS 2019	2018	2017	2-yr. AVG.	3-yr. AVG.	YIELD AS % OF TEST AVERAGE 2019	2018	2017	Days to blm	Grain moist. %	Test wt. lb/bu	Plnt ht. in.	Ldg %	Pop. 1000 ppa
SORGHUM PARTNERS	SP 25C10	29	56	--	43	--	34	95	--	--	6	50	--	--	--
SORGHUM PARTNERS	SP 31A15	76	50	--	63	--	87	86	--	--	10	53	--	--	--
SORGHUM PARTNERS	SP 43M80	79	--	--	--	--	92	--	--	--	11	56	--	--	--
SORGHUM PARTNERS	SP 68M57	93	**72**	--	83	--	100	122	--	--	11	57	--	--	--
	Average	87	58	96	72	80	100	100	100	--	11	56	--	--	--
	CV (%)	10	9	9	--	--	10	9	9	--	16	2	--	--	--
	LSD (0.05)	12	9	12	--	--	14	15	13	--	2	1	--	--	--

*Yields in bold are not statistically different than the highest-yielding hybrid.

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

Table 15. WESTERN Kansas Grain Sorghum Hybrid Yield Summary (% of test avg.), 2019

BRAND/NAME	ELD	THD	GRD	FND	AVG.
ADVANTA					
ADV XG141	81	82	94	123	95
ADV XG251	90	53	76	51	67
ADV XG255	122	108	107	106	111
ADV XG256	103	93	101	100	99
ADV XG9127	88	89	95	117	97
ALTA					
ADV G1150	99	93	94	108	99
ADV G2106	68	104	101	117	97
ADV G2275	94	95	104	84	94
ADV XG629	95	89	89	95	92
AG1201	85	95	87	94	90
AG1203	116	45	107	133	100
ARROW SEED					
AS212	88	96	--	--	92
AS248FG	87	91	--	--	89
AS262	105	106	--	--	105
AS292FG	108	81	--	--	94
DEKALB					
DKS28-05	108	110	105	66	97
DKS33-07	111	78	112	129	107
DKS38-16	131	120	111	129	122
DKS45-23	117	113	120	129	120
DYNA-GRO					
GX17912	115	98	113	--	109
GX17973	126	--	--	102	114
GX18395	94	--	--	93	94
GX18919	80	96	95	--	90
GX19129	94	94	88	--	92
GX19981	114	--	--	112	113
M54GR24	84	101	86	83	89
M57GB19	116	112	108	109	111
M57GC29	88	92	89	--	90

BRAND/NAME	ELD	THD	GRD	FND	AVG.
DYNA-GRO					
M59GB57	88	113	90	74	91
M59GB94	96	111	109	--	105
M60GB31	110	--	--	131	121
M60GB88	97	--	--	--	--
M62GB77	109	--	--	116	113
M69GB38	113	--	--	112	112
M71GR91	119	--	--	90	104
M74GB17	91	--	--	83	87
GAYLAND WARD					
18044	99	--	95	118	104
18057	71	--	102	109	94
18068	81	--	92	110	94
18083	107	--	96	107	103
18084	81	--	86	75	81
18087	87	--	86	93	89
18092	118	--	120	116	118
18094	88	--	107	105	100
18099	94	--	91	102	96
18100	79	--	92	75	82
18273	96	--	92	102	97
18274	107	--	100	121	109
18290	104	--	118	104	109
18291	98	--	96	79	91
19007	71	--	96	87	85
19014	68	--	98	102	89
19024	82	--	97	108	96
GOLD. ACRES					
2620C	114	103	115	87	105
2730B	115	105	108	98	106
2840B	91	109	106	106	103
KSU					
MN05	115	105	109	101	107

Table 15 continued. WESTERN Kansas Grain Sorghum Hybrid Yield Summary (% of test avg.), 2019

BRAND/NAME	ELD	THD	GRD	FND	AVG.
MATURITY CHECK					
DEKALB EARLY	99	115	106	79	100
DEKALB LATE	131	100	110	92	108
DEKALB MED	116	155	111	112	124
EARLY	129	98	114	118	115
LATE	100	121	93	93	102
MED	96	117	102	95	103
POLANSKY					
5519	113	--	--	--	--
5629	121	--	--	--	--
5719	121	--	--	--	--
S&W SEED					
CHR0395	93	--	--	--	--
CHR2042	104	--	--	--	--
SWGS3183	85	--	--	--	--
SORGHUM PARTNERS					
SP 25C10	--	73	82	34	63
SP 31A15	--	108	99	87	98
SP 43M80	--	108	95	92	98
SP 68M57	--	125	104	108	112
AVERAGES (bu/a)	105	63	116	87	92
CV (%)	9	12	4	10	--
LSD	13	17	6	14	--

ELD= Ellis Co., Hays

THD= Thomas Co., Colby

GRD=Greeley Co., Tribune

FND= Finney Co., Garden City

SOUTH CENTRAL KANSAS IRRIGATED GRAIN SORGHUM TEST

Hutchinson, Reno County
South Central Experiment Field
Planted: 6/21/2019
Harvested: 10/31/2019
144-0-0 lb/a N, P, K
Punkin silt loam
Previous crop: wheat

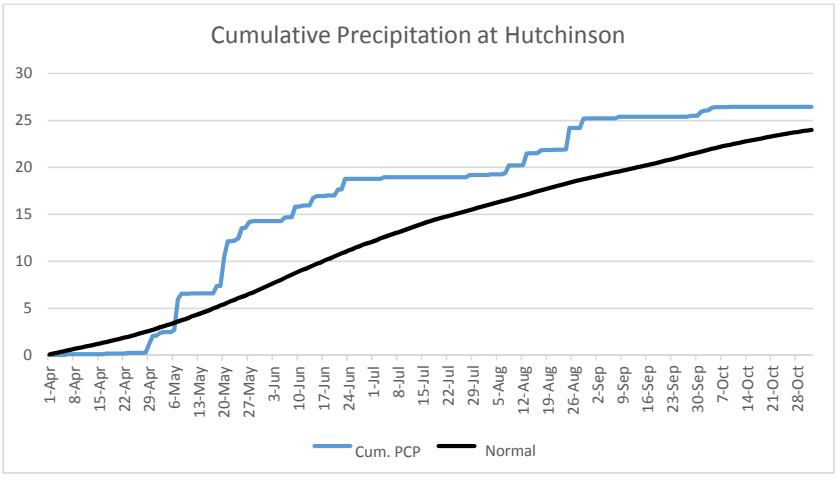

Table 16. Reno County Irrigated Grain Sorghum Performance Test, 2017-2019

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			Days	Grain	Test	Plnt		Pop.
					2-yr.	3-yr.				to	moist.	wt.	ht.	Ldg	1000
BRAND	NAME	2019	2018	2017	AVG.	AVG.	2019	2018	2017	blm	%	lb/bu	in.	%	ppa
ADVANTA	ADV XG224	147	--	--	--	--	105	--	--	--	16	57	--	--	--
ADVANTA	ADV XG251	139	--	--	--	--	99	--	--	--	13	59	--	--	--
ADVANTA	ADV XG397	130	--	--	--	--	93	--	--	--	12	57	--	--	--
ADVANTA	ADV XG885	103	--	--	--	--	73	--	--	--	18	56	--	--	--
ADVANTA	ADV G2275	114	--	--	--	--	81	--	--	--	17	57	--	--	--
ADVANTA	ADV G3247	147	--	--	--	--	105	--	--	--	14	58	--	--	--
ADVANTA	ADV XG093	143	--	--	--	--	102	--	--	--	14	55	--	--	--
ADVANTA	AG1203	149	--	103	--	126	106	--	80	--	12	58	--	--	--
DEKALB	DKS38-16	145	--	**145**	--	145	103	--	112	--	14	57	--	--	--
DEKALB	DKS45-23	143	--	**137**	--	140	102	--	106	--	12	58	--	--	--
DEKALB	DKS47-07	132	--	--	--	--	94	--	--	--	14	54	--	--	--
DEKALB	DKS53-53	**150**	--	**141**	--	145	107	--	109	--	12	55	--	--	--
DEKALB	DKS54-07	143	--	--	--	--	102	--	--	--	14	59	--	--	--
DYNA-GRO	GX17973	148	--	--	--	--	106	--	--	--	14	57	--	--	--
DYNA-GRO	GX18395	**152**	--	--	--	--	108	--	--	--	14	57	--	--	--
DYNA-GRO	GX19981	142	--	--	--	--	101	--	--	--	14	60	--	--	--
DYNA-GRO	M60GB31	131	--	**148**	--	140	94	--	114	--	12	58	--	--	--
DYNA-GRO	M62GB77	134	--	--	--	--	95	--	--	--	12	59	--	--	--
DYNA-GRO	M68GB18	**150**	--	--	--	--	107	--	--	--	15	58	--	--	--
DYNA-GRO	M68GR41	**151**	--	113	--	132	108	--	87	--	13	58	--	--	--
DYNA-GRO	M69GB38	**165**	--	--	--	--	117	--	--	--	13	56	--	--	--
DYNA-GRO	M69GR88	140	--	--	--	--	100	--	--	--	13	56	--	--	--
DYNA-GRO	M71GR04	**166**	--	--	--	--	118	--	--	--	13	61	--	--	--
DYNA-GRO	M71GR91	143	--	--	--	--	102	--	--	--	15	60	--	--	--
DYNA-GRO	M73GR55	117	--	**138**	--	128	83	--	107	--	15	58	--	--	--
DYNA-GRO	M74GB17	129	--	**139**	--	134	92	--	108	--	14	57	--	--	--
GOLDEN ACRES	2840B	**155**	--	--	--	--	110	--	--	--	15	58	--	--	--
GOLDEN ACRES	3960B	142	--	**139**	--	141	102	--	108	--	13	58	--	--	--
GOLDEN ACRES	4880R	**156**	--	--	--	--	111	--	--	--	16	60	--	--	--
KSU	MN05	**151**	--	--	--	--	108	--	--	--	13	52	--	--	--
MATURITY CHECK	DEKALB EARLY	106	--	--	--	--	76	--	--	--	15	56	--	--	--
MATURITY CHECK	DEKALB LATE	**150**	--	--	--	--	107	--	--	--	12	56	--	--	--
MATURITY CHECK	DEKALB MED	148	--	--	--	--	106	--	--	--	13	59	--	--	--
MATURITY CHECK	EARLY	**155**	--	113	--	134	111	--	88	--	12	58	--	--	--
MATURITY CHECK	LATE	115	--	89	--	102	82	--	69	--	13	58	--	--	--
MATURITY CHECK	MED	145	--	101	--	123	103	--	78	--	16	59	--	--	--
S&W SEED	CHR0395	**154**	--	--	--	--	110	--	--	--	13	58	--	--	--
S&W SEED	CHR2042	**156**	--	104	--	130	111	--	81	--	14	57	--	--	--
S&W SEED	SWGS3183	114	--	--	--	--	81	--	--	--	18	55	--	--	--
SORGHUM PARTNERS	SP 43M80	103	--	--	--	--	73	--	--	--	18	52	--	--	--
SORGHUM PARTNERS	SP 68M57	140	--	--	--	--	100	--	--	--	13	56	--	--	--
SORGHUM PARTNERS	SP 74C40	126	--	--	--	--	90	--	--	--	21	56	--	--	--
SORGHUM PARTNERS	SP 74M21	**158**	--	--	--	--	113	--	--	--	13	57	--	--	--
SORGHUM PARTNERS	SP7715	147	--	--	--	--	105	--	--	--	14	58	--	--	--
	Average	140	--	129	--	135	100	--	100	--	14	57	--	--	--
	CV (%)	8	--	12	--		8	--	12	--	19	5	--	--	--
	LSD (0.05)	16	--	21	--		11	--	16	--	4	4	--	--	--

*Yields in bold are not statistically different than the highest-yielding hybrid.

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

WESTERN KANSAS IRRIGATED GRAIN SORGHUM TESTS

Colby, Thomas County
K-State Northwest Research Center
Planted: 6/13/2019
Harvested: 11/7/2019
260-50-0 lb/a N, P, K
Keith silt loam
Previous crop: fallow

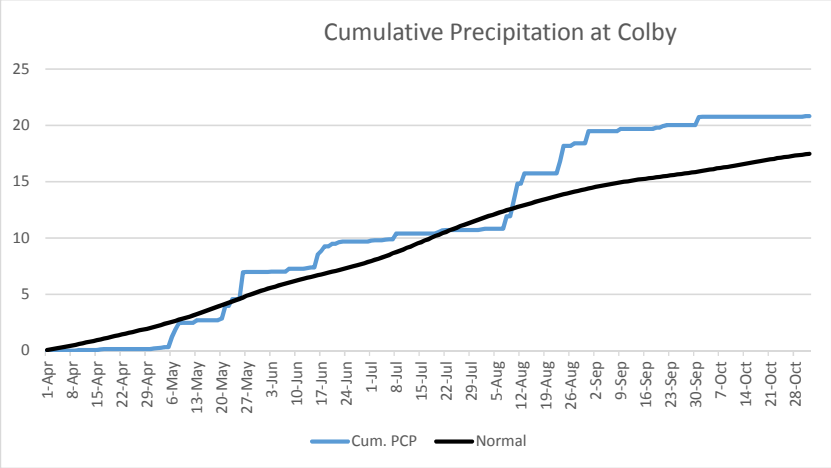

Table 17. Thomas County Irrigated Grain Sorghum Performance Test, 2017-2019

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			Days	Grain	Test	Plnt		Pop.
					2-yr.	3-yr.				to	moist.	wt.	ht.	Ldg	1000
BRAND	NAME	2019	2018	2017	AVG.	AVG.	2019	2018	2017	blm	%	lb/bu	in.	%	ppa
ADVANTA	ADV XG397	103	--	--	--	--	100	--	--	61	15	57	55	--	--
ADVANTA	ADV XG224	109	--	--	--	--	106	--	--	63	15	59	54	--	--
ADVANTA	ADV XG885	110	--	--	--	--	107	--	--	66	15	59	54	--	--
ADVANTA	ADV XG251	110	--	--	--	--	107	--	--	70	15	57	56	--	--
ADVANTA	ADV G2275	108	108	--	108	--	105	75	--	61	15	61	52	--	--
ADVANTA	ADV G3247	**114**	153	--	134	--	111	106	--	62	14	60	58	--	--
ADVANTA	ADV XG093	**112**	157	--	135	--	109	109	--	62	15	60	53	--	--
ADVANTA	AG1203	93	--	--	--	--	90	--	--	63	14	58	47	--	--
ARROW SEED	AS212	90	--	--	--	--	87	--	--	55	15	59	47	--	--
ARROW SEED	AS248FG	90	--	--	--	--	88	--	--	61	14	58	51	--	--
ARROW SEED	AS262	96	--	--	--	--	93	--	--	61	15	59	57	--	--
ARROW SEED	AS292FG	102	--	--	--	--	99	--	--	66	14	57	63	--	--
BLUE RIVER ORGANIC	63C5	101	--	--	--	--	99	--	--	61	15	58	52	--	--
BLUE RIVER ORGANIC	63WT6	91	--	--	--	--	89	--	--	61	14	59	50	--	--
BLUE RIVER ORGANIC	76WT4	94	--	--	--	--	92	--	--	67	15	59	58	--	--
DEKALB	DKS38-16	110	146	**186**	128	147	107	101	113	58	14	61	49	--	--
DEKALB	DKS45-23	90	140	**180**	115	137	87	97	110	61	15	60	54	--	--
DEKALB	DKS47-07	**126**	117	--	121	--	122	81	--	61	15	57	55	--	--
DEKALB	DKS53-53	**127**	**176**	**172**	151	158	123	122	105	61	14	58	57	--	--
DEKALB	DKS54-07	97	--	--	--	--	94	--	--	63	14	62	55	--	--
DYNA-GRO	M57GB19	98	--	--	--	--	95	--	--	54	15	57	49	--	--
DYNA-GRO	M59GB57	90	121	134	106	115	88	84	82	54	14	54	43	--	--
DYNA-GRO	M54GR24	90	--	--	--	--	87	--	--	55	15	58	48	--	--
DYNA-GRO	M57GC29	65	--	--	--	--	64	--	--	57	14	59	42	--	--
DYNA-GRO	M60GB88	**123**	148	155	135	142	119	103	95	60	14	57	50	--	--
DYNA-GRO	M62GB77	**114**	--	--	--	--	110	--	--	60	14	57	50	--	--
DYNA-GRO	M60GB31	100	**170**	166	135	145	97	118	101	61	14	59	53	--	--
DYNA-GRO	GX18395	98	--	--	--	--	95	--	--	61	14	61	51	--	--
DYNA-GRO	M69GB38	106	--	--	--	--	103	--	--	61	15	59	51	--	--
DYNA-GRO	GX17973	**116**	--	--	--	--	113	--	--	62	15	57	62	--	--
DYNA-GRO	M69GR88	96	--	--	--	--	94	--	--	62	15	58	50	--	--
DYNA-GRO	GX19981	**117**	--	--	--	--	114	--	--	62	14	61	50	--	--
DYNA-GRO	M68GR41	105	--	--	--	--	102	--	--	63	15	57	55	--	--
DYNA-GRO	M74GB17	99	--	--	--	--	97	--	--	63	14	59	57	--	--
DYNA-GRO	M71GR91	96	--	--	--	--	93	--	--	63	15	62	54	--	--
DYNA-GRO	M68GB18	**114**	--	--	--	--	111	--	--	67	14	61	58	--	--
DYNA-GRO	M71GR04	**121**	--	--	--	--	118	--	--	67	15	58	60	--	--
DYNA-GRO	M73GR55	**121**	--	--	--	--	118	--	--	68	15	59	51	--	--
GOLDEN ACRES	2730B	104	--	--	--	--	101	--	--	54	16	54	51	--	--
GOLDEN ACRES	2840B	108	147	--	128	--	105	102	--	57	15	61	52	--	--
GOLDEN ACRES	3960B	110	**170**	164	140	148	107	118	100	61	14	57	46	--	--
GOLDEN ACRES	4880R	84	--	--	--	--	82	--	--	62	15	60	52	--	--
KSU	MN05	**113**	--	--	--	--	110	--	--	61	14	55	52	--	--

Table 17 continued. Thomas County Irrigated Grain Sorghum Performance Test, 2017-2019

BRAND	NAME	ACRE YIELD, BUSHELS 2019	2018	2017	2-yr. AVG.	3-yr. AVG.	YIELD AS % OF TEST AVERAGE 2019	2018	2017	Days to blm	Grain moist. %	Test wt. lb/bu	Plnt ht. in.	Ldg %	Pop. 1000 ppa
MATURITY CHECK	DEKALB EARLY	87	114	149	100	117	84	79	91	54	14	53	50	--	--
MATURITY CHECK	DEKALB MED	110	**163**	**186**	136	153	107	113	113	59	14	60	52	--	--
MATURITY CHECK	DEKALB LATE	94	144	**172**	119	137	92	100	105	65	14	58	54	--	--
MATURITY CHECK	EARLY	99	130	167	115	132	96	90	102	56	14	58	47	--	--
MATURITY CHECK	MED	107	108	**182**	107	132	104	75	111	62	15	60	50	--	--
MATURITY CHECK	LATE	79	**166**	**172**	122	139	77	115	105	64	15	62	53	--	--
	Average	103	144	164	123	137	100	100	100	61	15	59	52	--	--
	CV (%)	10	8	8	--	--	10	8	8	2	4	3	3	--	--
	LSD (0.05)	15	16	18	--	--	14	11	11	1	1	2	2	--	--

*Yields in bold are not statistically different than the highest-yielding hybrid.

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

WESTERN KANSAS IRRIGATED GRAIN SORGHUM TEST

Tribune, Greeley County
K-State Northwest Research Center
Planted: 6/7/2019
Harvested: 10/25/2019
250-40-0 lb/a N, P, K
Ulyssess silt loam
Previous crop: fallow

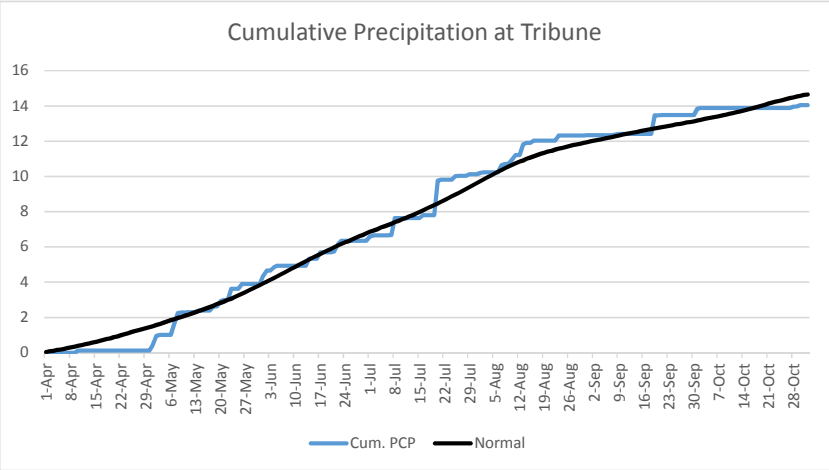

Table 18. Greeley County Irrigated Grain Sorghum Performance Test, 2017-2019

		ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			Days	Grain	Test	Plnt		Pop.
					2-yr.	3-yr.				to	moist.	wt.	ht.	Ldg	1000
BRAND	NAME	2019	2018	2017	AVG.	AVG.	2019	2018	2017	blm	%	lb/bu	in.	%	ppa
ADVANTA	ADV XG224	**141**	--	--	--	--	146	--	--	77	141	57	51	16	63
ADVANTA	ADV XG397	83	--	--	--	--	86	--	--	78	83	54	51	61	54
ADVANTA	ADV XG885	98	--	--	--	--	101	--	--	83	98	54	55	35	67
ADVANTA	ADV XG251	102	--	--	--	--	106	--	--	98	102	55	54	19	68
ADVANTA	ADV G2275	86	92	--	89	--	88	81	--	80	86	56	51	54	58
ADVANTA	AG1203	78	--	--	--	--	81	--	--	80	78	56	50	41	71
ADVANTA	ADV G3247	57	119	--	88	--	58	105	--	82	57	59	49	73	76
ADVANTA	ADV XG093	74	112	--	93	--	77	99	--	82	74	55	51	46	73
DEKALB	DKS38-16	105	126	140	116	124	109	111	103	67	105	60	51	29	77
DEKALB	DKS45-23	**142**	**144**	152	143	146	147	128	111	74	142	56	52	3	72
DEKALB	DKS47-07	114	**131**	--	122	--	118	116	--	76	114	54	56	56	72
DEKALB	DKS53-53	**135**	**140**	**169**	137	148	139	125	124	80	135	56	55	34	66
DEKALB	DKS54-07	115	--	--	--	--	118	--	--	81	115	57	57	53	69
DYNA-GRO	M59GB57	83	97	96	90	92	85	86	70	62	83	55	38	0	74
DYNA-GRO	M54GR24	109	--	--	--	--	113	--	--	65	109	55	46	6	73
DYNA-GRO	M57GC29	83	--	--	--	--	85	--	--	65	83	55	39	24	75
DYNA-GRO	M60GB88	86	93	--	89	--	88	82	--	66	86	55	47	14	72
DYNA-GRO	M62GB77	110	--	--	--	--	113	--	--	68	110	56	49	35	75
DYNA-GRO	GX18395	104	--	--	--	--	107	--	--	73	104	56	53	25	74
DYNA-GRO	M69GB38	108	--	--	--	--	111	--	--	73	108	54	56	45	67
DYNA-GRO	M60GB31	89	98	150	93	112	91	87	110	74	89	56	48	63	66
DYNA-GRO	M57GB19	56	--	--	--	--	57	--	--	74	56	58	48	44	69
DYNA-GRO	GX17973	101	--	--	--	--	104	--	--	75	101	55	55	58	72
DYNA-GRO	GX19981	93	--	--	--	--	96	--	--	78	93	58	52	88	71
DYNA-GRO	M74GB17	80	--	--	--	--	82	--	--	79	80	55	53	53	60
DYNA-GRO	M71GR91	116	--	--	--	--	120	--	--	80	116	56	56	40	52
DYNA-GRO	M68GR41	84	--	--	--	--	87	--	--	86	84	55	51	36	67
DYNA-GRO	M68GB18	62	--	--	--	--	64	--	--	88	62	55	52	51	69
DYNA-GRO	M71GR04	64	--	--	--	--	66	--	--	89	64	54	54	80	72
DYNA-GRO	M73GR55	75	--	--	--	--	77	--	--	92	75	54	56	3	63
DYNA-GRO	M69GR88	82	--	--	--	--	85	--	--	92	82	57	48	25	69
GOLDEN ACRES	2840B	112	**136**	--	124	--	115	120	--	64	112	59	48	36	76
GOLDEN ACRES	3960B	80	105	139	92	108	82	93	102	74	80	56	48	66	65
GOLDEN ACRES	4880R	105	--	--	--	--	109	--	--	79	105	57	57	56	65
KSU	MN05	**132**	--	--	--	--	136	--	--	70	132	55	53	39	70
MATURITY CHECK	DEKALB EARLY	86	101	118	94	102	89	90	86	62	86	54	48	24	78
MATURITY CHECK	DEKALB MED	117	116	140	116	124	121	103	103	68	117	59	50	18	73
MATURITY CHECK	DEKALB LATE	121	113	138	117	124	125	100	101	82	121	57	53	19	71
MATURITY CHECK	EARLY	102	110	148	106	120	106	98	109	63	102	57	45	0	78
MATURITY CHECK	MED	80	121	126	100	109	82	107	93	83	80	55	52	26	81
MATURITY CHECK	LATE	94	**141**	110	118	115	97	125	81	83	94	56	48	28	77

Table 18. continued. Greeley County Irrigated Grain Sorghum Performance Test, 2017-2019

BRAND	NAME	ACRE YIELD, BUSHELS 2019	2018	2017	2-yr. AVG.	3-yr. AVG.	YIELD AS % OF TEST AVERAGE 2019	2018	2017	Days to blm	Grain moist. %	Test wt. lb/bu	Plnt ht. in.	Ldg %	Pop. 1000 ppa
S&W SEED	SWGS3183	109	--	--	--	--	112	--	--	66	109	57	53	18	72
S&W SEED	CHR0395	96	--	--	--	--	100	--	--	72	96	57	53	33	69
S&W SEED	CHR2042	116	--	--	--	--	119	--	--	77	116	58	53	69	66
	Average	97	113	136	105	115	100	100	100	76	97	56	51	37	70
	CV (%)	7	10	7	--	--	7	10	7	6	7	3	5	60	13
	LSD (0.05)	9	16	14	--	--	9	16	14	6	9	2	4	31	13

*Yields in bold are not statistically different than the highest-yielding hybrid.

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

Table 19. IRRIGATED Kansas Grain Sorghum Hybrid Yield Summary (% of test avg.), 2019

BRAND/NAME	RNI	THI	GRI	FNI	AVG.
ADVANTA					
ADV XG224	105	106	146	--	119
ADV XG251	99	107	106	--	104
ADV XG397	93	100	86	--	93
ADV XG885	73	107	101	--	94
ALTA					
ADV G2275	81	105	88	--	91
ADV G3247	105	111	58	--	91
ADV XG093	102	109	77	--	96
AG1203	106	90	81	--	93
ARROW SEED					
AS212	--	87	--	--	--
AS248FG	--	88	--	--	--
AS262	--	93	--	--	--
AS292FG	--	99	--	--	--
BLUE RIVER					
63C5	--	99	--	--	--
63WT6	--	89	--	--	--
76WT4	--	92	--	--	--
DEKALB					
DKS38-16	103	107	109	--	106
DKS45-23	102	87	147	--	112
DKS47-07	94	122	118	--	111
DKS53-53	107	123	139	--	123
DKS54-07	102	94	118	--	105
DYNA-GRO					
GX17973	106	113	104	--	108
GX18395	108	95	107	--	103
GX19981	101	114	96	--	104
M54GR24	--	87	113	--	100
M57GB19	--	95	57	--	76
M57GC29	--	64	85	--	75

BRAND/NAME	RNI	THI	GRI	FNI	AVG.
DYNA-GRO					
M59GB57	--	88	85	--	86
M60GB31	94	97	91	--	94
M60GB88	--	119	88	--	104
M62GB77	95	110	113	--	106
M68GB18	107	111	64	--	94
M68GR41	108	102	87	--	99
M69GB38	117	103	111	--	110
M69GR88	100	94	85	--	93
M71GR04	118	118	66	--	101
M71GR91	102	93	120	--	105
M73GR55	83	118	77	--	93
M74GB17	92	97	82	--	90
GOLDEN ACRES					
2730B	--	101	--	--	--
2840B	110	105	115	--	110
3960B	102	107	82	--	97
4880R	111	82	109	--	101
KSU					
MN05	108	110	136	--	118
MATURITY CHECK					
DEKALB EARLY	76	84	89	--	83
DEKALB LATE	107	92	125	--	108
DEKALB MED	106	107	121	--	111
EARLY	111	77	97	--	95
LATE	82	96	106	--	95
MED	103	104	82	--	96
S&W SEED					
CHR0395	110	--	100	--	105
CHR2042	111	--	119	--	115
SWGS3183	81	--	112	--	97

Table 19. IRRIGATED Kansas Grain Sorghum Hybrid Yield Summary (% of test avg.), 2019

BRAND/NAME	RNI	THI	GRI	FNI	AVG.
SORGHUM PARTNERS					
SP 43M80	73	--	--	--	--
SP 68M57	100	--	--	--	--
SP 74C40	90	--	--	--	--
SP 74M21	113	--	--	--	--
SP 7715	105	--	--	--	--
AVERAGES (bu/a)	140	103	97	--	113
CV (%)	8	10	7	--	--
LSD (0.05)	11	14	9	--	--

RNI= Reno Co., Hutchinson

THI= Thomas Co., Colby

GRI= Greeley Co., Tribune

FNI= Finney Co., Garden City. Abandoned: extensive lodging.

Table 20. Entries in the 2019 Kansas Grain Sorghum Performance Tests

BRAND	GC	EC	PC	Mat.	Days	GB	SCA
ADVANTA							
ADV XG141	R	--	P	M	67	--	--
ADV XG224	R	--	P	ML	70	--	--
ADV XG251	R	--	P	M	68	--	--
ADV XG255	R	--	P	M	67	--	--
ADV XG256	R	--	P	M	66	--	--
ADV XG397	R	--	P	ML	68	--	--
ADV XG885	R	--	P	ML	68	--	--
ADV XG9127	R	--	P	ME	63	--	--
ADV G1150	B	W	R	ME	63	--	--
ADV G2106	R	--	P	M	66	--	--
ADV G2275	B	--	R	M	66	--	--
ADV G3247	B	--	R	ML	70	--	R
ADV XG093	B	--	P	ML	72	--	--
ADV XG629	C	--	P	E	58	--	R
AG1201	B	--	P	E	60	--	R
AG1203	B	W	R	ME	63	--	R
ARROW SEED							
AS212	R	W	P	VE	52	--	--
AS248FG	W	W	T	ME	59	C,E	--
AS262	R	W	P	M	67	C,E	R
AS292FG	W	W	T	ML	70	--	R
BLUE RIVER ORGANIC							
63C5	C	--	--	E	63	C	--
63WT6	W	--	T	E	63	C	--
76WT4	C	--	T	N	76	C	--
DEKALB							
DKS28-05	B	HY	P	E	57	--	--
DKS33-07	B	--	P	ME	61	--	R
DKS38-16	B	HY	P	E	62	--	--
DKS45-23	B	HY	P	M	68	--	--
DKS47-07	B	--	P	M	68	--	R
DKS53-53	B	HY	P	L	72	I	--
DKS54-07	B	--	P	ML	73	--	--
DYNA-GRO							
GX17912	C	Y	P	E	59	C,E	--
GX17973	B	HY	P	M	69	C,E	--
GX18395	B	HY	P	MF	70	C,E	--
GX18919	C	Y	P	E	58	C,E	--
GX19129	B	HY	P	E	57	C,E	--
GX19981	B	HY	P	MF	70	C,E	--

BRAND	GC	EC	PC	Mat.	Days	GB	SCA
DYNA-GRO							
M54GR24	R	HY	P	E	54	C,E	--
M57GB19	B	HY	P	E	57	C,E	--
M57GC29	--	--	--	--	--	--	--
M59GB57	B	HY	P	E	59	C,E	--
M59GB94	B	HY	P	E	59	C,E	--
M60GB31	B	HY	T	ME	60	C,E	R
M60GB88	B	HY	T	ME	60	C,E	--
M62GB77	B	HY	P	ME	62	C,E	--
M68GB18	B	HY	P	M	67	C,E	--
M68GR41	R	HY	P	M	68	C,E	--
M69GB38	B	HY	P	MF	70	C,E	--
M69GR88	R	HY	P	MF	69	C,E	--
M71GR04	R	HY	T	ML	70	C,E	--
M71GR91	B	HY	P	MF	70	C,E	--
M73GR55	R	HY	T	ML	73	C,E	R
M74GB17	B	HY	T	ML	74	C,E	R
GAYLAND WARD SEED							
18035	--	--	--	--	--	--	--
18036	--	--	--	--	--	--	--
18044	--	--	--	--	--	--	--
18057	--	--	--	--	--	--	--
18068	--	--	--	--	--	--	--
18083	--	--	--	--	--	--	--
18084	--	--	--	--	--	--	--
18087	--	--	--	--	--	--	--
18092	--	--	--	--	--	--	--
18093	--	--	--	--	--	--	--
18094	--	--	--	--	--	--	--
18099	--	--	--	--	--	--	--
18100	--	--	--	--	--	--	--
18102	--	--	--	--	--	--	--
18273	--	--	--	--	--	--	--
18274	--	--	--	--	--	--	--
18290	--	--	--	--	--	--	--
18291	--	--	--	--	--	--	--
19007	--	--	--	--	--	--	--
19014	--	--	--	--	--	--	--
19016	--	--	--	--	--	--	--
19017	--	--	--	--	--	--	--
19024	--	--	--	--	--	--	--
19152	--	--	--	--	--	--	--

Table 20 continued. Entries in the 2019 Kansas Grain Sorghum Performance Tests

BRAND	GC	EC	PC	Mat.	Days	GB	SCA
GOLDEN ACRES							
2620C	C	Y	P	ME	59	--	--
2730B	B	Y	P	ME	59	--	--
2840B	B	Y	P	ME	61	--	R
3960B	B	Y	P	M	68	C,E	R
4880R	R	Y	P	ML	69	--	R
KSU							
MN05	--	--	--	--	--	--	--
MATURITY CHECK							
DEKALB EARLY	--	--	--	--	57	--	--
DEKALB LATE	--	--	--	--	--	--	--
DEKALB MED	--	--	--	--	62	--	--
EARLY	--	--	--	--	--	--	--
LATE	--	--	--	--	--	--	--
MED	R	W	P	M	69		
POLANSKY							
5519	B	--	--	ME	62	--	R
5629	B	--	--	M	65	--	R
5719	R	--	--	ML	70	--	R
S&W SEED							
CHR0395	B	--	P	M	65	--	MR
CHR2042	B	--	P	ML	72	C	R
SWGS3183	B	--	P	M	68	--	R
SORGHUM PARTNERS							
SP 25C10	C	--	P	E	51	--	--
SP 31A15	B	--	P	ME	57	--	--
SP 43M80	B	--	P	ME	60	--	R
SP 68M57	B	--	P	M	68	--	MR
SP 74C40	C	--	P	ML	72	--	R
SP 74M21	B	--	P	ML	72	--	R
SP7715	B	--	P	ML	72	--	R

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.

SCA = resistance to Sugarcane Aphids

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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