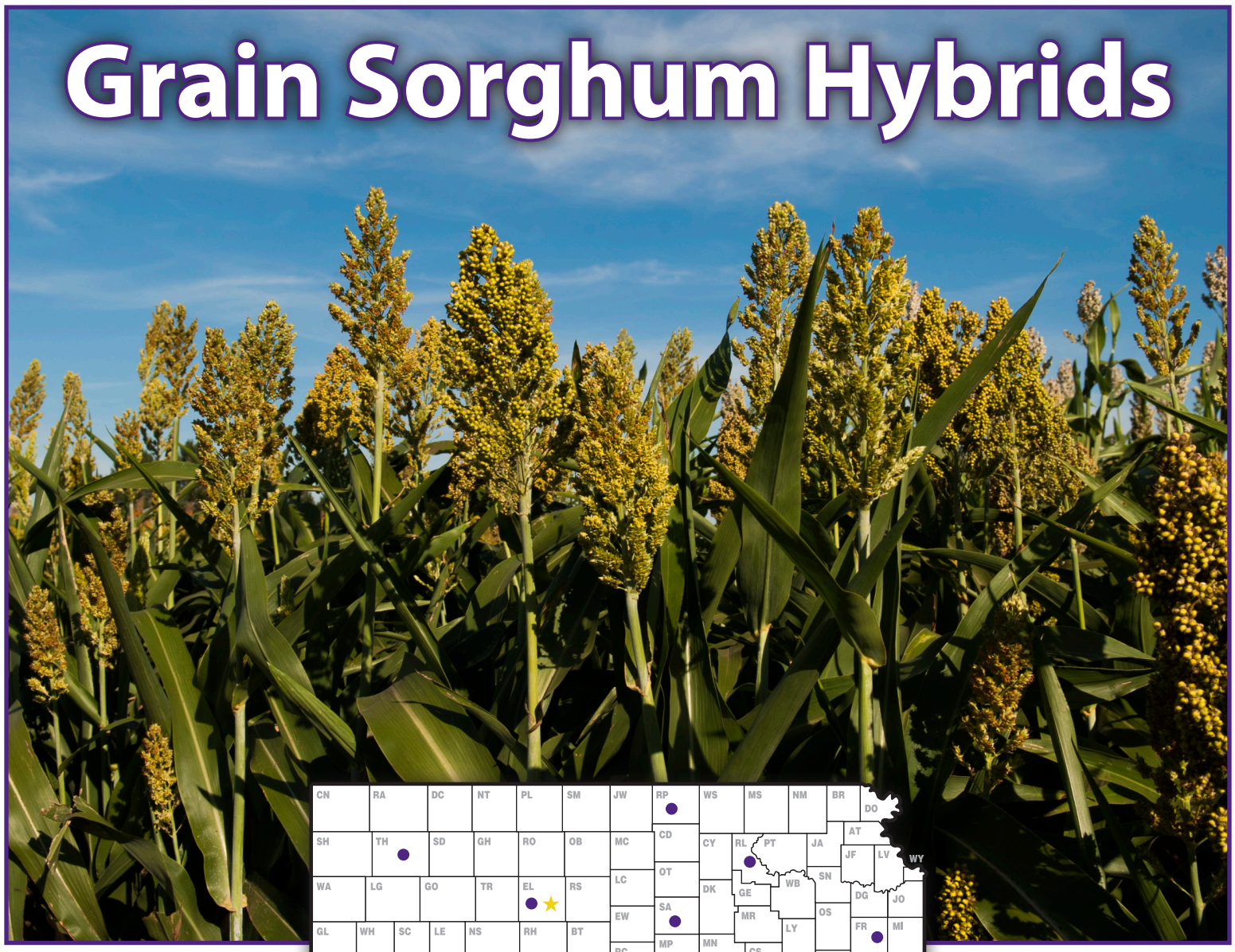
2024 Kansas Performance Tests with

Grain Sorghum Hybrids



Report of Progress 1189

K-STATE
Research and Extension

Kansas State University Agricultural Experiment Station and Cooperative Extension Service

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Contribution no. 25-164-S from the Kansas Agricultural Experiment Station.

2024 REVIEW

Statewide Growing Conditions

2024 was a warm year across Kansas. The average temperature for the year was 57.5°F or 3.4°F above normal. This ranked 2024 as the second warmest of the last 130 years (tied with 1935) according to NCEI, the National Centers for Environmental Information, whose monthly climate averages date back to 1895. A total of 17 states recorded their warmest year on record. Kansas was one of 13 states to finish as the second warmest. Nationally, it was the warmest year on record, about one-quarter degree (F) ahead of 2012's mark.

Ten of the 12 months averaged above-normal in Kansas; only January and July were below-normal. Of the 366 days in the year, 237, or 64.8%, were above normal, based on data from the Kansas Mesonet. January was farthest below-normal (statewide average departure of -5.2°F), primarily due to a bitterly cold air mass that brought sub-zero temperatures to the state.

There was a 13-day period of below-normal temperatures from January 9-21, the year's longest stretch. The year's coldest temperature (-22°F) was recorded on January 15 at the Wallace County Mesonet site and in Herington on January 16. Interestingly, this cold spell was followed by the year's longest stretch of 19 above-normal days that began on January 22 and lasted through February 9. These above-average days helped February finish as the most above-normal month of the year (+8.8°F).

All three months of meteorological spring (March, April, and May) averaged above normal in all divisions. It was the second warmest spring on record in southeast Kansas, the third warmest in east central, and the sixth warmest in northeast Kansas. The average temperature in the summer months of June, July, and August was slightly less than 1°F above normal in the state, thanks in part to a colder-than-normal July. The summer was still hot, and most locations exceeded their average number of 90-degree days. But the counts of the hottest days, when highs were at or above 100°F, were close to or fewer than normal at many locations. Medicine Lodge won the "triple crown" by having the most 90-degree days (113), the most 100-degree days (37), and the hottest reading recorded anywhere in the state: a sizzling 115°F on August 24.

Autumn was very warm, and the combined months of September, October, and November ranked as the fourth warmest meteorological fall in the state. In northwest Kansas, the average temperature of 57.4°F tied 1963 for the warmest fall on record, a departure from normal of +4.1°F. The remaining divisions in the state all ranked between fourth and sixth warmest fall of the past 130 years. December continued the above-normal trend; it was the fifth consecutive above-normal month in the state and helped to boost the year-end ranking from fourth warmest for the first 11 months of the year to tied second warmest. Northwest Kansas led the way, setting a record for their warmest December. The average December temperature of 38.0°F exceeded the old record of 37.0°F in 2021.

Monthly average temperatures and precipitation for Kansas, along with departures from normal. Source: National Centers for Environmental Information.

	Temperature		Precipitation	
Month	Average (°F)	Departure	Average (in.)	Departure
January	25.9	-5.2	1.30	0.58
February	43.8	+8.8	0.94	-0.03
March	47.1	+2.3	0.93	-0.86
April	57.3	+3.4	2.31	-0.37
May	65.3	+1.4	4.04	-0.17
June	77.2	+3.0	4.47	0.42
July	78.0	-1.0	2.88	-0.97
August	77.6	+0.5	3.47	-0.04
September	71.1	+2.3	1.62	-0.90
October	62.5	+6.3	0.91	-1.41
November	46.4	+3.1	4.33	3.03
December	38.0	+4.8	0.18	-0.89
YEAR	**57.5**	**+2.5**	**27.38**	**-1.62**

Precipitation

While annual precipitation averaged below normal in 2024, it was Kansas' wettest year since 2019. 2024 was the fifth consecutive year with below-normal precipitation, but the total was closer to normal than in the previous four years. The state's average precipitation for 2024 was 27.38 inches, or 1.62 inches below the normal amount of 29.0 inches. Only two divisions were above normal for the year: southwest (departure +0.90 inches) and west central (+0.20 inches) Kansas. Northeast Kansas was close to normal, finishing 2024 less than one-quarter inch below normal (-0.21inches).

November 2024 was the second wettest on record, averaging 4.33 inches across the state. The normal amount for November is 1.30 inches. 2024's total was 0.35 of an inch shy of the record holder, 4.68 inches in 1909. It was the wettest November on record in both northwest and west central Kansas and the second-wettest November in south central as well as in southwest Kansas, where the average of 3.26 inches was more than five times the monthly normal and finished just 0.05 inches behind the wettest November on record in 1909. The last time any location in the state had 10 inches or more of precipitation in November was in 1998.

Approximately 63% of the state had below-normal precipitation for the year. Only three months had above-normal average precipitation: January, June, and November. Of the nine months with below-normal precipitation, October had the lowest percentage of normal (39%). When combined with September, the two-month period was the tenth driest September and October on record.

Snowfall totals across Kansas for the calendar year were generally a few inches below normal. The highest amount in the state for the year, 25.6 inches at Goodland, was 4.4 inches below the normal annual amount of 30.0 inches. While it is normal for southeast Kansas to have the least snowfall on average, 2024's totals were well below normal.

Drought

Drought conditions in Kansas at the end of 2024 were better than at the start of the year at most locations. A measure of the collective improvement during the year is the Drought Severity and Coverage Index (DSCI), a single numerical value that describes the average drought condition across Kansas. It is based on the percentages of each state within each drought category and can range from 0 (the entire state is drought-free) to 500 (the entire state is in D4, the worst drought category). At the start of 2024, the DSCI was 155. The highest value during the year was 211 on October 29 and was lowest on July 9 at 69. The DSCI at year's end was 94. A total of 35% of the state was drought-free in the final drought update on December 31. The state's drought-free percentage was as high as 49% in February and fell to a low of 1.5% on November 5. There was no D2 or worse drought anywhere in the state at the end of the year; the last remaining D2 was removed on November 19. The last time Kansas had no areas in D2 or worse status before this year was in July 2021.

Severe Weather

Kansas averages 85 tornadoes a year. The preliminary count of tornadoes in 2024 in Kansas was 89. Despite the above-normal count, there was only one strong (rated EF2 or higher) tornado in the state this year. It was an EF3 that struck Westmoreland in Pottawatomie County on April 30. Sadly, there was one fatality associated with this tornado. This was the only tornado death in the state this year. There were nearly 500 reports of severe hail of 1 inch or greater in diameter during the year (495). May had the most reports in a calendar month, with 137. There were 86 reports of hail at least 2 inches in diameter during the year. Of these, the largest report was of 4.5-inch diameter hail in Gove County on May 1. (Matthew Sittel, Kansas State University Assistant State Climatologist)

Diseases

The most important and prevalent diseases of 2024 were stalk rots, depending on the growing location. Fusarium stalk rot would have given the lower nodes of the plant a tan discoloration; Gibberella stalk rot would have a reddish-brown or purple discoloration; and charcoal stalk rot had a grayish-brown discoloration. Fusarium and Gibberella stalk rots occur in dry conditions early in the season and warm, wet weather 2 to 3 weeks after pollination. Charcoal stalk rot occurs when soils are dry and temperatures are high; it is not caused by drought, but the plants are weakened and more susceptible to charcoal stalk rot in drought conditions. Lodging caused by stalk rot was reported at most of the performance trial sites.

Insects

Chinch bugs have historically affected corn, wheat, turf, and grass, but the pest has been especially prevalent in sorghum. The western two-thirds of Kansas has usually been affected the most. This was certainly true in 2024. The recent weather patterns of early, relatively hot and dry conditions in mid-April to mid-May may be good to help mature and dry down wheat; however, these conditions have proven problematic with seedling sorghum development while under chinch bug attack. Drought stress plus chinch bug feeding has played havoc with early-season plant stands. The chinch bugs don't go away but continue to feed and reproduce at the base of plants, further stressing plants to the point that many fields have lodged plants due to the combination of chinch bug feeding and drought stress.

Sugarcane aphids (sorghum aphids) continued to migrate into the state from mid-July until harvest, but no large-scale problems were noted. (Jeff Whitworth, Kansas State University Department of Entomology)

2024 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 2024 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 2 through 12 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 the 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 low-yield situations.

Table 1. Entrants in the 2024 Kansas Grain Sorghum Performance Tests

B-H Genetics
Ganado, TX
361-771-5522
bhgenetics.com

Croplan Genetics
Arden Hills, MN
855-494-6343
winfieldcustomercervice@landolakes.com

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

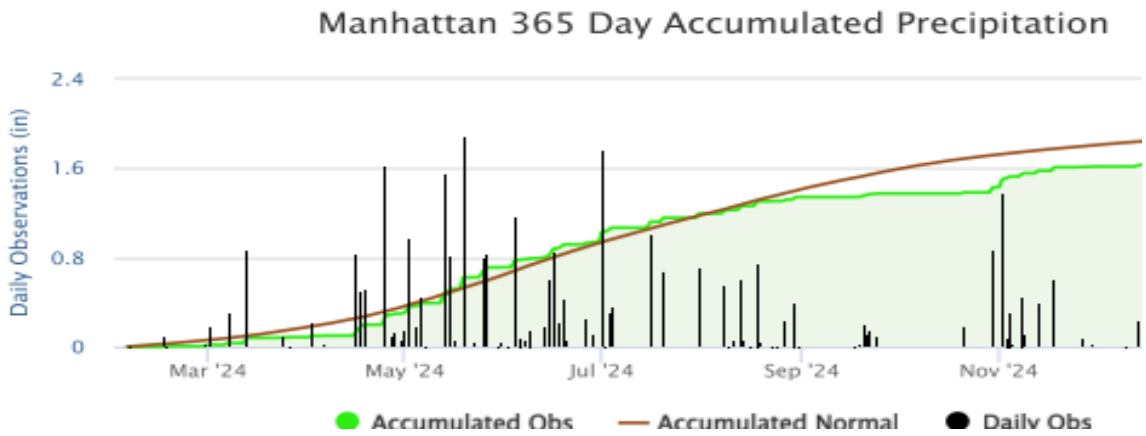
Corteva AgriSciences
Johnston, IA
800-233-7333
pioneer.com
*maturity checks

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

RAGT Semences
Winnipeg, Manitoba
Canada
+3-367-225-5830

Table 2. Manhattan, Kansas Dryland Grain Sorghum Performance Trial, Riley County, 2024

Agronomy North Farm, Kansas State University, Manhattan: Jane Lingenfelser, agronomist
Planted: 5/28/2024
Fertility: 177-60-0-0 lb/a N, P, K, S
Herbicide: 35 oz/a glyphosate, 26.5 oz/a Metolachlor, 5.4 oz/a Motif, 40 oz/a Interline, 48 oz/a atrazine, AMS
Desiccant: 48 oz/a glyphosate
The majority of plots had some degree of bird damage.
Harvest: 10/17/2024

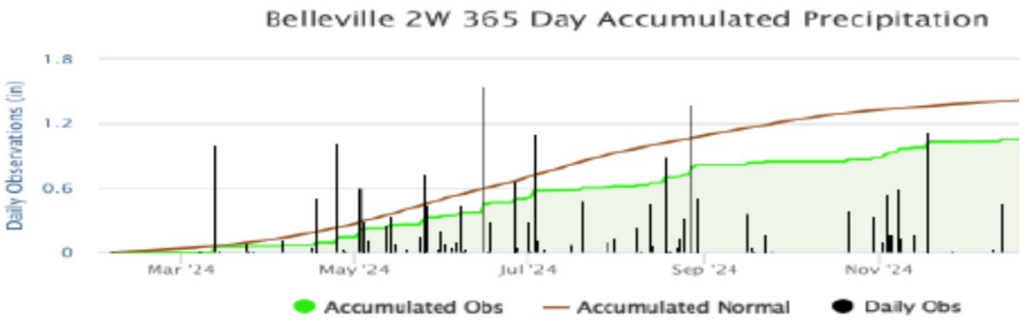


BRAND	NAME	YIELD (bu/a)	PAVG (%)	MOIST (%)	TW (lb/bu)	HT (in)
B-H GENETICS	BH 3701C	110.9	98.6	9.6	60.6	53
B-H GENETICS	BH 3818	102.9	91.5	10.0	60.8	52
B-H GENETICS	BH 3939	115.5	102.6	10.7	62.3	55
B-H GENETICS	BH 4220	137.0	121.7	10.3	62.5	52
DYNA-GRO	GX24991	96.4	85.7	10.3	60.7	46
DYNA-GRO	M54GR24	74.0	65.7	9.7	60.0	49
DYNA-GRO	M59GB94	101.8	90.5	9.8	61.6	52
DYNA-GRO	M60GB31	109.0	96.9	10.3	61.0	54
DYNA-GRO	M62GB36	135.5	120.4	11.0	62.6	52
DYNA-GRO	M62GC23	109.3	97.1	10.2	60.3	53
DYNA-GRO	M63GB78	123.0	109.3	10.3	62.0	58
DYNA-GRO	M66GR32	143.1	127.2	10.9	62.8	61
DYNA-GRO	M67GB87	146.9	130.5	10.2	60.6	60
DYNA-GRO	M70GR37	144.9	128.8	9.9	62.6	60
DYNA-GRO	M71GR91	156.5	139.1	10.3	62.8	63
DYNA-GRO	M72GB71	160.1	142.3	10.8	62.5	58
MATURITY CHECK	EARLY	99.6	88.5	10.7	60.8	48
MATURITY CHECK	LATE	153.5	136.4	10.8	61.1	55
MATURITY CHECK	MED	122.2	108.6	10.0	61.3	50
POLANSKY	5629	157.2	139.7	10.0	60.2	57
POLANSKY	5719	139.6	124.1	10.5	62.8	56
POLANSKY	6621 DT	110.4	98.2	9.1	57.7	45
RAGT	AC2103	91.2	81.0	10.5	60.7	46
RAGT	S7GO13	112.8	100.2	9.9	62.2	56
RAGT	S7GO14	90.2	80.2	10.9	60.1	66
RAGT	S7GO15	91.3	81.1	11.4	61.4	65
RAGT	S8G021	117.4	104.4	10.5	61.5	52
RAGT	S8G031	63.4	56.3	10.8	61.4	60
RAGT	S8GO32	93.9	83.4	10.7	63.5	60
RAGT	S8GO35	113.7	101.1	10.7	62.1	67
	AVERAGE	112.5	100.0	10.3	61.2	54
	CV (%)	9.4	9.4	0.7	1.0	--
	LSD (0.05)	24.4	21.7	0.5	1.2	--

*Yields must differ by more than the LSD value to be considered statistically different.

Table 3. Belleville, Kansas Dryland Grain Sorghum Performance Trial, Republic County, 2024

North Central Kansas Experiment Field, Kansas State University, Belleville; Scott Dooley, agronomist
Planted: 6/11/2024
Fertility: 130-34-0 lb/a N, P, K
Herbicide: 1.5 qt/a Makaze, 25 oz/a Salvo, 1 qt/100 Liberate, 2 qt/100 Choice Trio, 2 oz/a Sharpen, 1 qt/a Mad Dog 5.4, 2 lb/a AMS, 25 oz/a MSO, 2 qt/100 Choice Trio, 2.5 qt/a Trizmax, 1 qt/a Mad Dog 5.4, 2 lb/a AMS, 2 pt/a MSO, 2 qt/100 Choice Trio
Harvest: 10/23/2024

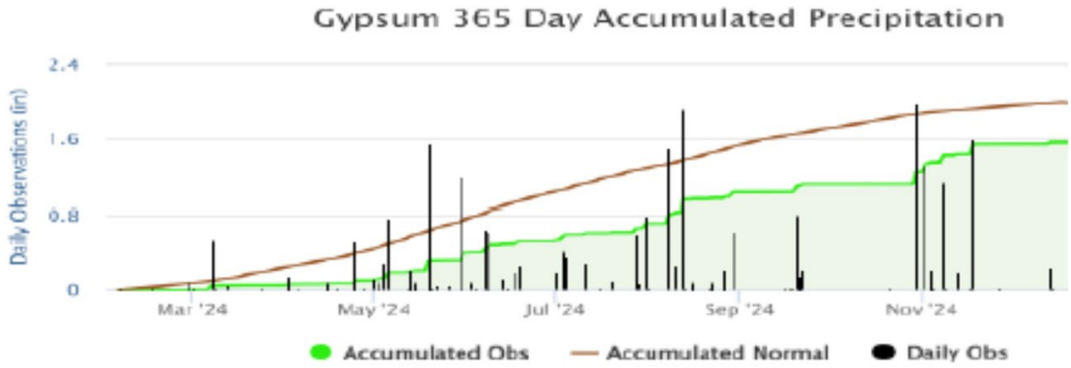


BRAND	NAME	YIELD (bu/a)	PAVG (%)	MOIST (%)	TW (lb/bu)	LODGE (%)	Bird Damage (%)
B-H GENETICS	BH 3701C	134.8	107.0	13.5	61.4	--	1.3
B-H GENETICS	BH 3818	118.3	93.9	13.8	61.6	--	5.0
B-H GENETICS	BH 3939	141.5	112.3	13.8	62.0	--	11.3
B-H GENETICS	BH 4220	128.0	101.6	13.9	61.4	1.3	13.8
CROPLAN	CP 22GS61A	119.1	94.5	13.7	61.7	--	2.5
CROPLAN	CP 22GS66A	142.1	112.8	13.9	61.4	--	5.0
CROPLAN	CP 23GS66A	139.8	110.9	14.2	62.2	--	3.8
CROPLAN	CP 23GS67A	139.5	110.7	14.0	61.3	1.3	3.8
CROPLAN	CP 23GS68A	160.2	127.2	13.4	62.3	--	2.5
CROPLAN	CP 23GS70A	108.1	85.8	14.5	61.5	16.3	3.8
CROPLAN	CP 5730 DT	108.9	86.5	14.0	61.7	--	3.8
CROPLAN	CP 5811A	98.6	78.2	13.7	61.3	1.3	6.3
CROPLAN	CP 6011	121.8	96.7	13.4	61.6	--	10.0
CROPLAN	CP 6211A	118.6	94.1	13.9	62.2	--	8.8
CROPLAN	CP 6367IG	132.1	104.9	13.7	61.7	--	8.8
CROPLAN	CP 6490 DT	127.0	100.8	14.0	62.2	--	1.3
CROPLAN	CP 6617IG	131.6	104.4	13.6	61.9	1.3	0.0
CROPLAN	CP 6811	129.2	102.5	13.8	61.3	--	3.8
CROPLAN	CP 7011A	154.3	122.5	14.1	62.8	--	5.0
CROPLAN	CP6145 DT	115.8	91.9	14.1	61.5	1.3	2.5
CROPLAN	CP6311A	134.4	106.6	13.8	61.9	3.8	3.8
DYNA-GRO	GX24991	115.3	91.6	14.1	61.7	--	2.5
DYNA-GRO	M54GR24	85.0	67.5	13.5	61.4	--	7.5
DYNA-GRO	M59GB94	138.2	109.7	13.9	62.0	10.0	1.3
DYNA-GRO	M60GB31	138.5	109.9	14.0	62.1	1.3	11.3
DYNA-GRO	M62GB36	133.5	105.9	14.3	61.3	1.3	6.3
DYNA-GRO	M62GC 23	123.7	98.2	13.6	61.7	--	5.0
DYNA-GRO	M63GB78	115.2	91.4	14.0	61.3	5.0	5.0
DYNA-GRO	M66GR32	118.3	93.9	14.0	62.6	1.3	2.5
DYNA-GRO	M67GB87	120.9	95.9	13.9	61.3	5.0	1.3
MATURITY CHECK	EARLY	115.9	92.0	13.6	61.9	--	3.8
MATURITY CHECK	LATE	119.6	95.0	15.0	61.6	8.8	1.3
MATURITY CHECK	MED	155.4	123.3	13.8	62.5	--	3.8
RAGT	AC2103	100.8	80.0	13.6	62.1	1.9	0.0
	AVERAGE	126.0	100.0	13.9	61.8	1.8	4.6
	CV	11.9	11.9	0.4	0.5	--	--
	LSD	15.4	12.2	0.3	0.4	--	--
	Heritability	0.3	--	--	--	--	--

*Yields must differ by more than the LSD value to be considered statistically different.

Table 4. Assaria, Kansas Dryland Grain Sorghum Performance Trial, Saline County, 2024

Farmer's Field, 38.66740797, -97.60917594, Assaria; Brian Yutzy, agronomist
Planted: 6/13/2024
Tillage: conventional
Harvest: 11/6/2024

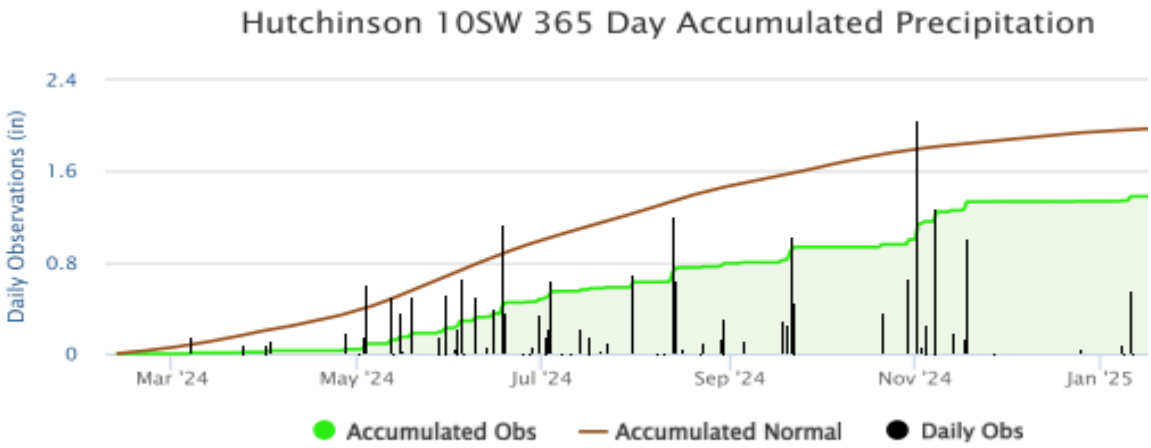


BRAND	NAME	YIELD (bu/a)	PAVG (%)	MOIST (%)	TW (lb/bu)
B-H GENETICS	BH 3701C	34.8	71.9	12.9	50.0
B-H GENETICS	BH 3818	53.7	111.1	13.6	50.0
B-H GENETICS	BH 4220	64.0	132.4	16.1	50.7
DYNA-GRO	GX24991	59.3	122.7	13.9	50.0
DYNA-GRO	M54GR24	22.2	46.0	16.9	50.0
DYNA-GRO	M59GB94	47.8	99.0	14.7	50.0
DYNA-GRO	M60GB31	30.1	62.2	15.9	50.0
DYNA-GRO	M60GB88	59.5	123.1	16.1	50.3
DYNA-GRO	M62GB36	53.4	110.5	16.3	52.4
DYNA-GRO	M62GC23	48.7	100.8	13.4	50.0
DYNA-GRO	M63GB78	45.0	93.0	15.8	50.0
DYNA-GRO	M66GR32	57.2	118.4	16.9	51.6
DYNA-GRO	M67GB87	54.1	111.9	17.2	50.0
DYNA-GRO	M70GR37	78.0	161.3	17.5	52.2
DYNA-GRO	M71GR91	69.2	143.1	18.2	51.7
DYNA-GRO	M72GB71	70.9	146.7	16.9	54.7
MATURITY CHECK	EARLY	38.6	79.8	16.7	50.0
MATURITY CHECK	LATE	49.7	102.8	15.7	50.9
MATURITY CHECK	MED	54.7	113.1	17.6	52.3
RAGT	AC2103	19.7	40.8	15.5	50.0
RAGT	S7GO13	25.7	53.1	14.8	50.0
RAGT	S7GO14	49.2	101.8	17.7	50.0
RAGT	S7GO15	46.3	95.8	16.1	50.0
RAGT	S8G021	43.3	89.6	16.3	50.0
RAGT	S8G031	39.1	80.9	17.1	50.0
RAGT	S8GO32	57.9	119.7	15.9	50.0
RAGT	S8GO35	33.1	68.6	15.6	50.0
	AVERAGE	48.3	100.0	16.0	50.6
	C.V.	7.9	7.9	0.8	--
	LSD	14.4	29.8	1.3	1.1

*Yields must differ by more than the LSD value to be considered statistically different.

Table 5. Hutchinson, Kansas Dryland Grain Sorghum Performance Trial, Reno County, 2024

Farmer's Field, 37.92845551, -97.92261339, Reno County; Brian Yutzy, agronomist
Planted: 6/14/2024
Previous crop: soybean
Tillage: no-till
Harvest: 10/28/2024



BRAND	NAME	YIELD (bu/a)	PAVG (%)	MOIST (%)	TW (lb/bu)
B-H GENETICS	BH 3701C	105.9	90.1	11.7	59.2
B-H GENETICS	BH 3818	97.8	83.2	12.8	58.8
B-H GENETICS	BH 4220	125.9	107.1	11.3	55.6
CROPLAN	CP 22GS61A	98.3	83.6	11.9	57.5
CROPLAN	CP 22GS66A	121.1	103.0	10.8	60.8
CROPLAN	CP 23GS66A	128.9	109.7	11.3	50.0
CROPLAN	CP 23GS67A	129.4	110.1	11.1	59.0
CROPLAN	CP 23GS68A	134.9	114.7	12.7	58.3
CROPLAN	CP 23GS70A	132.3	112.5	12.5	54.5
CROPLAN	CP 5730 DT	87.8	74.7	12.8	57.5
CROPLAN	CP 5811A	95.0	80.8	12.0	58.2
CROPLAN	CP 6011	114.2	97.1	9.6	57.4
CROPLAN	CP 6211A	109.4	93.0	13.2	60.0
CROPLAN	CP 6367IG	134.0	114.0	11.1	51.2
CROPLAN	CP 6490 DT	113.8	96.8	12.1	58.6
CROPLAN	CP 6617IG	109.2	92.9	12.0	60.3
CROPLAN	CP 6811	121.1	103.0	10.6	59.0
CROPLAN	CP 7011A	139.5	118.6	13.0	57.0
CROPLAN	CP6145 DT	102.1	86.8	12.4	57.6
CROPLAN	CP6311A	113.7	96.7	12.6	61.2
DYNA-GRO	GX24991	93.5	79.5	12.4	58.6
DYNA-GRO	M54GR24	92.7	78.8	13.0	58.8
DYNA-GRO	M59GB94	123.0	104.6	10.2	58.7
DYNA-GRO	M60GB31	119.9	102.0	10.9	55.3
DYNA-GRO	M60GB88	126.4	107.5	8.3	50.0

Table 5 continued. Hutchinson, Kansas Dryland Grain Sorghum Performance Trial

BRAND	NAME	YIELD (bu/a)	PAVG (%)	MOIST (%)	TW (lb/bu)
DYNA-GRO	M62GB36	128.8	109.6	10.8	60.7
DYNA-GRO	M62GC23	112.9	96.1	12.2	59.0
DYNA-GRO	M63GB78	105.8	90.0	14.1	59.5
DYNA-GRO	M66GR32	125.6	106.8	11.8	60.1
DYNA-GRO	M67GB87	136.3	116.0	10.9	58.7
DYNA-GRO	M70GR37	135.6	115.4	11.1	56.6
DYNA-GRO	M71GR91	143.1	121.7	13.1	60.8
DYNA-GRO	M72GB71	129.0	109.7	10.9	50.0
MATURITY CHECK	EARLY	100.0	85.0	12.2	57.7
MATURITY CHECK	LATE	120.9	102.8	10.6	60.8
MATURITY CHECK	MED	126.9	108.0	11.5	56.6
POLANSKY	5522	119.1	101.3	12.4	60.9
POLANSKY	5629	135.2	115.0	11.8	52.8
POLANSKY	5719	139.2	118.4	13.6	60.0
RAGT	AC2103	91.7	78.0	13.4	59.6
RAGT	S7GO13	117.0	99.6	11.0	58.7
RAGT	S7GO14	120.8	102.8	11.9	61.6
RAGT	S7GO15	114.2	97.1	11.5	59.9
RAGT	S8G021	126.5	107.6	10.0	50.0
RAGT	S8G031	105.5	89.7	12.4	59.0
RAGT	S8GO32	116.0	98.7	10.8	56.2
RAGT	S8GO35	105.7	89.9	13.3	59.7
	AVERAGE	117.6	100.0	11.8	57.7
	CV (%)	8.2	8.2	1.6	0.7
	LSD (0.05)	14.4	12.2	1.1	3.1

*Yields must differ by more than the LSD value to be considered statistically different.

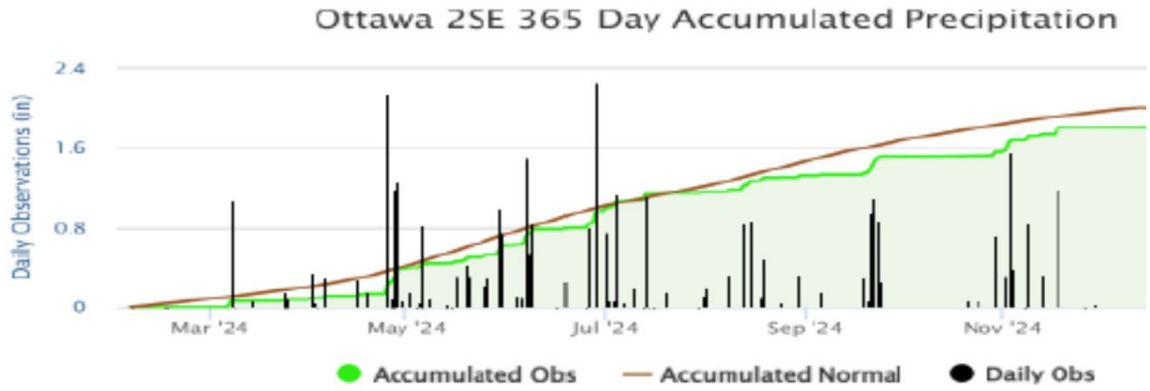
Table 6. Ottawa, Kansas Dryland Grain Sorghum Performance Test, Franklin County, 2024

East Central Kansas Experiment Field, Kansas State University, Ottawa; Eric Adee, agronomist, Darren Hibdon, research technician

Planted: 5/23/2024

Fertility: 117-28-25-20 lb/a N, P, K, S

Tillage: strip-till



BRAND	NAME	YIELD (bu/a)	PAVG (%)	MOIST (%)	TW (lb/bu)
B-H GENETICS	BH 4220	117.2	93.7	16.0	58.8
DYNA-GRO	M59GB94	131.9	105.5	15.8	59.5
DYNA-GRO	M60GB31	129.0	103.2	16.0	59.8
DYNA-GRO	M60GB88	132.9	106.3	15.9	59.5
DYNA-GRO	M62GB36	128.1	102.4	16.4	60.7
DYNA-GRO	M62GC23	114.3	91.4	16.0	59.1
DYNA-GRO	M63GB78	117.0	93.5	16.4	59.9
DYNA-GRO	M66GR32	124.6	99.7	17.1	60.3
DYNA-GRO	M67GB87	121.2	97.0	16.7	59.4
DYNA-GRO	M70GR37	129.4	103.5	16.3	59.4
DYNA-GRO	M71GR91	132.4	105.8	16.9	60.7
DYNA-GRO	M72GB71	116.3	93.0	15.8	60.5
MATURITY CHECK	EARLY	120.6	96.5	16.2	60.4
MATURITY CHECK	LATE	135.8	108.6	15.6	60.7
MATURITY CHECK	MED	122.1	97.7	16.1	58.8
POLANSKY	5522	123.7	98.9	16.7	60.3
POLANSKY	5629	127.9	102.3	16.0	58.9
POLANSKY	5719	126.3	101.0	16.4	60.8
	Average	125.1	100.0	16.2	59.8
	CV (%)	10.8	10.8	0.5	1.5
	LSD (0.05)	6.2	5.0	0.4	0.7
	Heritability	0.7	--	--	--

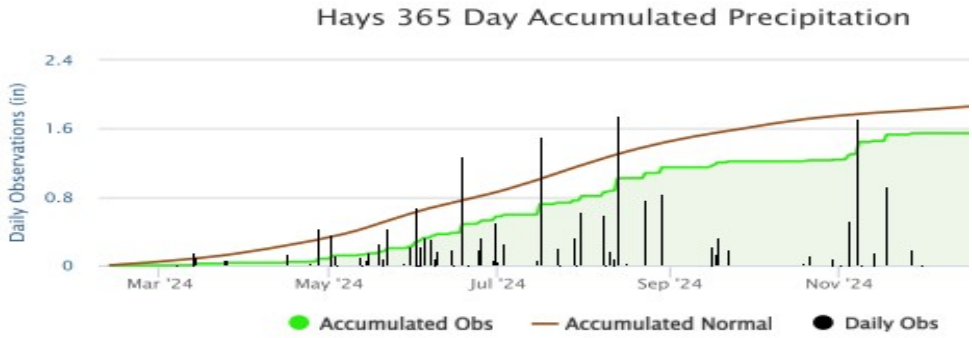
*Yields must differ by more than the LSD value to be considered statistically different.

Table 7. Hays, Kansas Dryland Grain Sorghum Performance Test, Ellis County, 2024

Western Kansas Agricultural Center, Kansas State University, Hays; Ram Perumal, agronomist

Planted: 6/13/2024

Harvest: 10/22/2024



BRAND	NAME	YIELD (bu/a)	PAVG (%)	MOIST (%)	TW (lb/bu)	DAYS (bloom)
B-H GENETICS	BH 3701C	96.3	117.5	11.1	57.3	65
B-H GENETICS	BH 3818	91.6	111.7	11.3	56.3	60
B-H GENETICS	BH 3939	71.2	86.8	11.8	58.2	55
B-H GENETICS	BH 4220	76.7	93.6	12.1	58.7	56
CROPLAN	CP 22GS61A	79.0	96.3	11.5	56.9	64
CROPLAN	CP 22GS66A	80.7	98.5	11.8	59.4	59
CROPLAN	CP 23GS66A	92.8	113.2	12.2	58.7	71
CROPLAN	CP 5302E	53.9	65.7	11.9	59.0	61
CROPLAN	CP 5730 DT	97.9	119.4	11.7	59.0	58
CROPLAN	CP 5811A	96.7	117.9	11.5	58.1	60
CROPLAN	CP 5921A	66.4	81.0	12.0	59.6	68
CROPLAN	CP 6011	100.6	122.8	11.9	59.0	60
CROPLAN	CP 6021A	59.3	72.3	11.7	58.0	61
CROPLAN	CP 6211A	73.7	89.9	11.9	57.8	62
CROPLAN	CP 6367IG	64.5	78.7	12.7	60.1	72
CROPLAN	CP 6490 DT	71.0	86.6	11.7	56.8	61
CROPLAN	CP 6617IG	76.3	93.1	11.8	57.8	70
CROPLAN	CP6145 DT	56.0	68.3	11.0	55.1	62
CROPLAN	CP6311A	107.6	131.2	11.9	58.9	70
DYNA-GRO	GX24991	112.8	137.6	11.1	56.9	69
DYNA-GRO	M54GR24	82.4	100.5	12.6	58.1	59
DYNA-GRO	M57GB35 DT	102.1	124.6	11.8	58.7	57
DYNA-GRO	M59GB57	98.7	120.4	11.2	58.3	57
DYNA-GRO	M59GB94	69.7	85.0	11.6	57.5	65
DYNA-GRO	M60GB31	80.6	98.3	12.4	57.1	72
DYNA-GRO	M62GB36	82.2	100.3	12.4	58.1	74
DYNA-GRO	M62GC23	110.1	134.4	12.0	58.6	67
DYNA-GRO	M63GB78	53.9	65.8	12.1	59.5	68
DYNA-GRO	M66GR32	76.6	93.4	12.6	59.3	69
DYNA-GRO	M67GB87	103.0	125.6	11.7	57.9	67
MATURITY CHECK	EARLY	77.9	95.1	11.8	58.5	59
MATURITY CHECK	LATE	60.7	74.1	12.0	58.5	66
MATURITY CHECK	MED	118.7	144.8	12.0	59.9	68
POLANSKY	5433	88.7	108.2	12.1	58.2	65
POLANSKY	5512	81.7	99.6	11.8	58.6	65
POLANSKY	5522	82.3	100.3	12.7	59.7	60
POLANSKY	5629	92.3	112.6	12.0	57.9	69
POLANSKY	6445 DT	63.8	77.9	12.2	58.3	62
POLANSKY	6585 DT	63.6	77.6	12.0	57.6	63
POLANSKY	X61C-A23	84.4	103.0	12.5	58.3	57
POLANSKY	X61R-A15	62.6	76.4	11.8	56.8	66
	AVERAGE	82.0	100.0	11.9	58.2	64
	CV	7.6	7.6	0.6	1.8	2
	LSD	16.9	20.6	0.4	1.0	5

*Yields must differ by more than the LSD value to be considered statistically different.

Table 8. Larned, Kansas Dryland Grain Sorghum Performance Test, Pawnee County, 2024

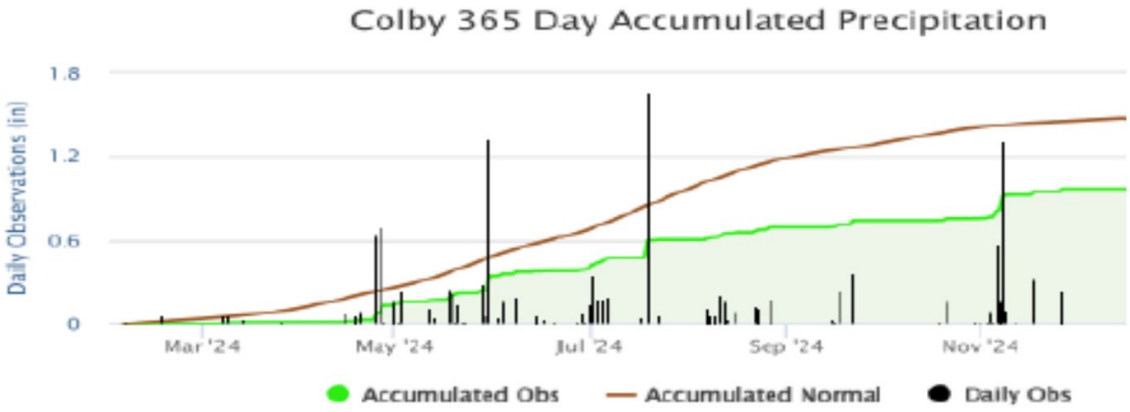
Farmer's Field, 38.19629, -99.276818, Larned; Brian Yutzy, agronomist
Planted: 6/23/2024
Previous crop: wheat
Tillage: no-till
Harvest: 10/25/2024

BRAND	NAME	YIELD (bu/a)	PAVG (%)	MOIST (%)	TW (lb/bu)
B-H GENETICS	BH 3701C	54.8	98.5	13.5	58.1
B-H GENETICS	BH 3818	47.8	85.8	13.6	58.3
B-H GENETICS	BH 4220	65.9	118.4	13.1	57.6
DYNA-GRO	GX24991	54.1	97.1	13.4	58.9
DYNA-GRO	M54GR24	46.7	83.8	13.1	58.4
DYNA-GRO	M57GB35 DT	45.8	82.2	13.2	58.3
DYNA-GRO	M59GB94	60.8	109.2	13.3	58.8
DYNA-GRO	M60GB31	61.6	110.6	13.4	57.3
DYNA-GRO	M60GB88	51.4	92.3	13.5	57.4
DYNA-GRO	M62GB36	56.9	102.2	13.7	58.3
DYNA-GRO	M62GC23	54.4	97.7	13.3	58.8
DYNA-GRO	M63GB78	57.3	102.8	13.5	58.5
DYNA-GRO	M66GR32	58.5	105.0	13.8	59.4
DYNA-GRO	M67GB87	58.6	105.3	13.2	56.1
DYNA-GRO	M70GR37	57.4	103.0	13.5	59.5
DYNA-GRO	M71GR91	55.7	100.0	13.5	58.7
DYNA-GRO	M72GB71	54.8	98.4	13.9	58.1
MATURITY CHECK	EARLY	51.6	92.7	13.0	58.1
MATURITY CHECK	LATE	67.6	121.4	13.2	57.2
MATURITY CHECK	MED	63.1	113.3	13.4	59.2
POLANSKY	5512	50.3	90.4	13.4	58.0
POLANSKY	5522	56.1	100.7	13.5	57.7
POLANSKY	5629	63.0	113.2	13.5	55.6
POLANSKY	6445 DT	52.1	93.5	13.7	58.3
POLANSKY	6585 DT	44.0	79.1	13.7	58.5
POLANSKY	X61C-A23	57.9	103.9	13.4	58.8
POLANSKY	X61R-A15	55.3	99.4	13.5	59.1
	AVERAGE	55.7	100.0	13.4	58.2
	CV	6.1	6.1	0.3	0.9
	LSD	5.8	10.4	0.2	0.9
	HERITABILITY	0.7	--	--	--

*Yields must differ by more than the LSD value to be considered statistically different.

Table 9. Colby, Kansas Dryland Grain Sorghum Performance Test, Thomas County, 2024

Farmer's Field, 39.2034774399992, -100.832631392575, Colby; Brian Yutzy, agronomist
Planted: 6/11/2024
Previous crop: corn
Tillage: no-till
Harvest: 11/5/2024



BRAND	NAME	YIELD (bu/a)	PAVG (%)	MOIST (%)	TW (lb/bu)
B-H GENETICS	BH 3520	109.4	106.6	13.8	54.6
B-H GENETICS	BH 3701C	129.5	126.1	15.2	57.5
B-H GENETICS	BH 3818	112.8	109.9	15.4	58.7
B-H GENETICS	BH 3939	104.8	102.1	15.4	59.0
CROPLAN	CP 22GS61A	103.8	101.1	14.6	56.9
CROPLAN	CP 22GS66A	108.7	105.9	15.2	60.9
CROPLAN	CP 23GS66A	109.3	106.5	15.4	60.7
CROPLAN	CP 5302E	109.8	107.0	14.9	61.9
CROPLAN	CP 5730 DT	80.3	78.3	16.0	58.7
CROPLAN	CP 5811A	113.6	110.6	14.7	55.4
CROPLAN	CP 5921A	113.5	110.5	15.0	57.8
CROPLAN	CP 6011	108.0	105.2	15.4	62.7
CROPLAN	CP 6021A	113.0	110.1	14.9	56.4
CROPLAN	CP 6211A	125.9	122.6	14.5	59.0
CROPLAN	CP 6490 DT	100.0	97.5	16.1	58.1
CROPLAN	CP6145 DT	101.3	98.7	14.7	54.8
CROPLAN	CP6311A	105.1	102.4	15.6	60.2
DYNA-GRO	GX24991	96.9	94.4	14.0	59.2
DYNA-GRO	M54GR24	83.5	81.3	15.5	59.3
DYNA-GRO	M57GB35 DT	107.0	104.2	15.8	60.0
DYNA-GRO	M59GB57	108.2	105.4	13.3	55.0
DYNA-GRO	M59GB94	123.0	119.9	13.8	56.5
DYNA-GRO	M60GB31	89.0	86.7	15.9	55.5
DYNA-GRO	M62GB36	134.8	131.3	14.5	58.2
DYNA-GRO	M62GC23	126.0	122.8	14.6	57.1

Table 9 continued. Colby, Kansas Dryland Grain Sorghum Performance Test

BRAND	NAME	YIELD (bu/a)	PAVG (%)	MOIST (%)	TW (lb/bu)
MATURITY CHECK	EARLY	106.8	104.0	14.8	59.5
MATURITY CHECK	LATE	115.5	112.6	15.6	60.7
MATURITY CHECK	MED	108.6	105.8	14.9	61.8
POLANSKY	5512	99.6	97.0	15.1	53.6
POLANSKY	5522	135.9	132.4	15.2	59.5
POLANSKY	5629	102.7	100.0	14.7	58.7
POLANSKY	6445 DT	106.7	104.0	14.2	56.9
POLANSKY	6585 DT	91.9	89.6	15.9	58.5
POLANSKY	X61C-A23	116.9	113.9	15.4	59.2
POLANSKY	X61R-A15	105.3	102.6	14.2	58.0
RAGT	AC2103	104.2	101.5	15.0	62.2
RAGT	S7GO13	91.4	89.1	12.8	53.1
RAGT	S7GO14	62.0	60.4	14.0	53.2
RAGT	S7GO15	62.0	60.4	15.0	57.4
RAGT	S8G021	80.7	78.7	15.1	51.2
RAGT	S8G031	63.2	61.5	15.6	54.0
RAGT	S8GO32	72.2	70.3	16.5	59.4
RAGT	S8GO35	70.9	69.1	15.0	54.1
	AVERAGE	102.6	100.0	14.9	57.8
	CV (%)	8.0	8.0	1.0	1.5
	LSD (0.05)	18.4	17.9	0.7	2.7

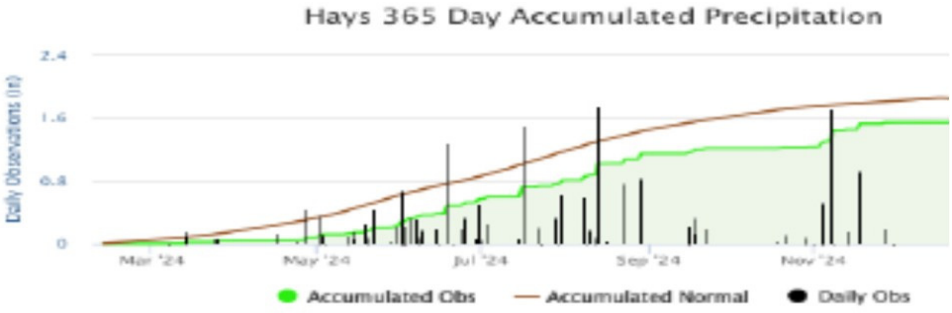
*Yields must differ by more than the LSD value to be considered statistically different.

Table 10. Hays, Kansas Irrigated Grain Sorghum Performance Trial, Ellis County, 2024

Western Kansas Agricultural Center, Kansas State University, Hays; Ram Perumal, agronomist

Planted: 6/13/2024

Harvest: 10/31/2024

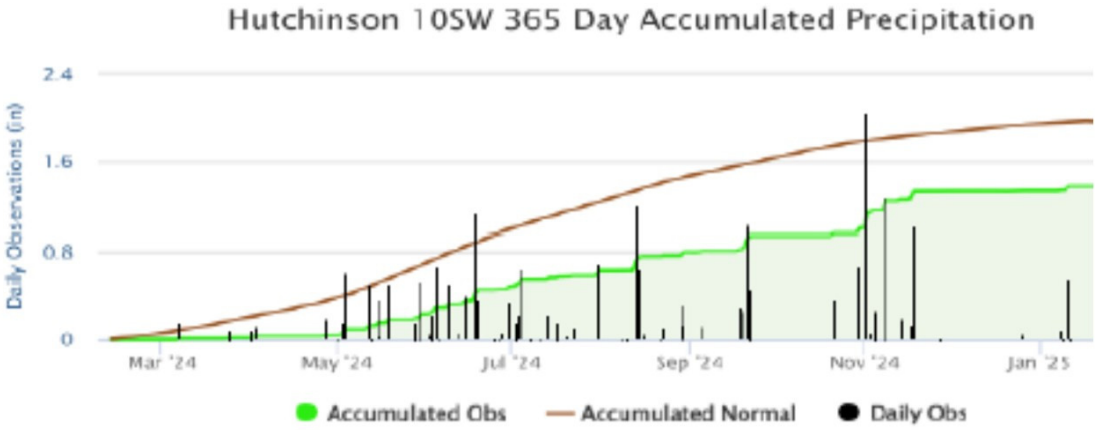


BRAND	NAME	YIELD (bu/a)	PAVG (%)	MOIST (%)	TW (lb/bu)	DAYS (bloom)
B-H GENETICS	BH 4220	89.1	120.1	14.9	59.6	71
CROPLAN	CP 22GS61A	71.8	96.8	13.6	59.8	66
CROPLAN	CP 22GS66A	59.7	80.4	12.4	59.6	66
CROPLAN	CP 23GS66A	98.1	132.3	14.5	61.5	71
CROPLAN	CP 23GS67A	80.0	107.9	15.5	60.6	70
CROPLAN	CP 23GS68A	96.7	130.3	14.2	60.6	71
CROPLAN	CP 23GS70A	64.1	86.3	15.4	59.6	72
CROPLAN	CP 5730 DT	85.2	114.8	14.0	59.6	69
CROPLAN	CP 5811A	72.8	98.1	13.4	59.2	65
CROPLAN	CP 6011	45.9	61.9	14.4	59.0	66
CROPLAN	CP 6211A	79.3	106.9	13.9	60.4	66
CROPLAN	CP 6490 DT	72.2	97.4	14.1	57.9	66
CROPLAN	CP 6811	95.2	128.3	12.1	59.7	68
CROPLAN	CP 7011A	95.8	129.1	15.5	60.0	70
CROPLAN	CP6145 DT	78.2	105.3	13.4	59.4	69
CROPLAN	CP6311A	87.8	118.3	14.4	59.6	68
DYNA-GRO	GX24991	61.5	82.9	14.0	59.8	69
DYNA-GRO	M54GR24	61.9	83.4	13.9	59.2	67
DYNA-GRO	M57GB35 DT	54.3	73.2	13.6	59.6	69
DYNA-GRO	M59GB94	69.7	94.0	14.1	59.0	66
DYNA-GRO	M60GB31	82.7	111.5	13.8	60.1	72
DYNA-GRO	M62GB36	84.7	114.1	15.1	59.6	71
DYNA-GRO	M62GC23	64.9	87.5	14.8	59.3	66
DYNA-GRO	M63GB78	69.6	93.8	14.6	59.5	67
DYNA-GRO	M66GR32	75.0	101.0	13.4	60.6	69
DYNA-GRO	M67GB87	95.6	128.9	11.5	59.6	68
DYNA-GRO	M70GR37	75.2	101.3	15.1	60.5	70
DYNA-GRO	M71GR91	95.6	128.8	15.0	61.7	74
DYNA-GRO	M72GB71	86.3	116.4	15.0	60.5	72
MATURITY CHECK	EARLY	55.9	75.3	14.5	59.8	68
MATURITY CHECK	LATE	77.2	104.0	14.9	59.2	71
MATURITY CHECK	MED	79.4	107.0	14.6	61.0	66
RAGT	AC2103	55.7	75.1	14.1	60.9	66
RAGT	S7GO13	76.9	103.6	14.1	57.9	72
RAGT	S7GO14	63.4	85.5	15.4	56.8	72
RAGT	S7GO15	63.1	85.0	15.9	59.4	72
RAGT	S8G021	61.0	82.2	14.9	58.9	71
RAGT	S8G031	34.3	46.3	15.2	55.0	68
RAGT	S8GO32	73.5	99.1	16.7	55.6	75
RAGT	S8GO35	78.5	105.8	15.4	59.2	77
	AVERAGE	74.2	100.0	14.4	59.5	69
	CV	8.3	8.3	1.3	1.3	3
	LSD	14.6	19.7	1.0	1.3	3

*Yields must differ by more than the LSD value to be considered statistically different.

Table 11. Hutchinson, Kansas Irrigated Grain Sorghum Performance Test, Reno County, 2024

Farmer's Field, 37.96589734, -97.8844599, Reno County; Brian Yutzy, agronomist
Planted: 6/24/2024
Previous crop: wheat
Irrigation: pivot
Harvest: 10/29/2024



BRAND	NAME	YIELD (bu/a)	PAVG (%)	MOIST (%)	TW (lb/bu)
B-H GENETICS	BH 3701C	118.0	93.3	15.4	59.6
B-H GENETICS	BH 3818	135.8	107.4	14.4	61.5
B-H GENETICS	BH 4220	151.6	119.9	13.0	59.7
CROPLAN	CP 22GS61A	116.7	92.3	13.9	61.1
CROPLAN	CP 22GS66A	142.4	112.7	13.3	59.9
CROPLAN	CP 23GS66A	125.6	99.3	14.2	62.5
CROPLAN	CP 23GS67A	145.0	114.7	14.3	62.3
CROPLAN	CP 23GS68A	148.9	117.8	13.9	61.9
CROPLAN	CP 23GS70A	139.7	110.5	14.4	61.9
CROPLAN	CP 5730 DT	101.0	79.9	13.7	59.2
CROPLAN	CP 5811A	104.4	82.6	13.4	58.6
CROPLAN	CP 6011	133.3	105.5	13.2	59.3
CROPLAN	CP 6211A	71.2	56.3	14.6	58.6
CROPLAN	CP 6490 DT	141.8	112.2	13.7	61.5
CROPLAN	CP 6811	138.2	109.3	13.7	62.7
CROPLAN	CP 7011A	162.7	128.7	13.7	61.5
CROPLAN	CP6145 DT	114.8	90.8	13.9	62.5
CROPLAN	CP6311A	125.5	99.3	12.4	59.0
DYNA-GRO	GX24991	120.0	94.9	14.6	61.8
DYNA-GRO	M54GR24	101.6	80.4	14.5	60.1
DYNA-GRO	M57GB35 DT	102.9	81.4	14.2	58.2
DYNA-GRO	M59GB94	105.9	83.8	13.5	58.7
DYNA-GRO	M60GB31	160.0	126.5	13.6	59.8
DYNA-GRO	M60GB88	126.3	99.9	13.6	60.2

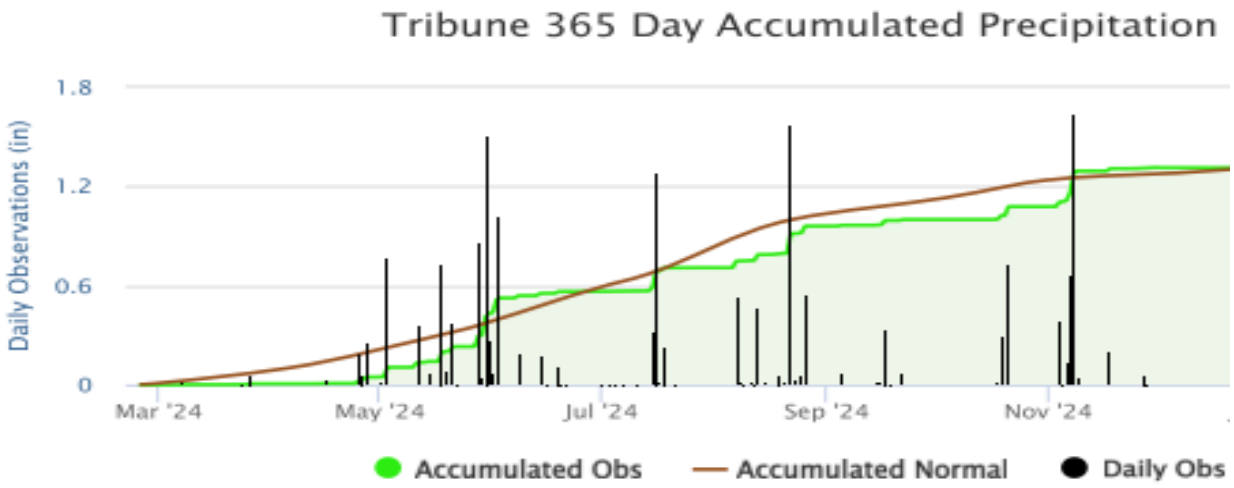
Table 11 continued. Hutchinson, Kansas Irrigated Grain Sorghum Performance Test

BRAND	NAME	YIELD (bu/a)	PAVG (%)	MOIST (%)	TW (lb/bu)
DYNA-GRO	M62GB36	145.5	115.0	14.4	60.9
DYNA-GRO	M62GC23	128.0	101.3	14.9	59.4
DYNA-GRO	M63GB78	130.0	102.8	14.6	61.7
DYNA-GRO	M66GR32	157.4	124.5	14.2	61.5
DYNA-GRO	M67GB87	100.4	79.4	14.9	55.7
DYNA-GRO	M70GR37	165.3	130.8	14.1	61.4
DYNA-GRO	M71GR91	157.4	124.5	15.4	62.9
DYNA-GRO	M72GB71	157.5	124.6	13.9	61.2
MATURITY CHECK	EARLY	105.4	83.3	14.8	61.5
MATURITY CHECK	LATE	163.2	129.1	14.2	61.3
MATURITY CHECK	MED	139.4	110.3	13.3	61.0
RAGT	AC2103	119.9	94.8	13.9	60.8
RAGT	S7GO13	106.0	83.8	13.1	56.4
RAGT	S7GO14	103.9	82.2	13.4	57.2
RAGT	S7GO15	93.3	73.8	14.1	58.5
RAGT	S8G021	106.5	84.3	13.0	60.7
RAGT	S8G031	85.2	67.4	15.0	58.2
RAGT	S8GO32	109.4	86.5	12.6	52.8
RAGT	S8GO35	129.7	102.6	14.6	59.5
	AVERAGE	126.4	100.0	14.0	60.1
	CV (%)	9.7	9.7	1.0	1.9
	LSD (0.05)	23.1	18.2	0.7	2.0

*Yield must differ by more than the LSD value to be considered statistically different.

Table 12. Tribune, Kansas Irrigated Grain Sorghum Trial, Greeley County, 2024

Northwest Agricultural Research Center, Kansas State University, Tribune; Lucas Haag, agronomist
Planted: 6/18/2024
Fertility: 180-0-0 lb/a N, P, K
Previous crop: corn



BRAND	NAME	YIELD (bu/a)	PAVG (%)	MOIST (%)	TW (lb/bu)	DAYS (1/2 bloom)	HT (in)
B-H GENETICS	BH 4220	121.1	111.7	16.4	56.4	75	54.5
DYNA-GRO	M66GR32	130.0	120.0	14.6	57.1	74	55.5
DYNA-GRO	M62GB36	127.4	117.5	16.8	57.5	75	55.5
DYNA-GRO	M62GC23	120.6	111.3	14.3	55.4	64	49.8
DYNA-GRO	M59GB94	107.9	99.6	15.6	56.4	67	54.5
DYNA-GRO	GX24991	107.8	99.5	13.5	55.7	65	45.0
DYNA-GRO	M57GB35 DT	105.8	97.6	13.6	55.6	64	52.0
DYNA-GRO	M60GB88	97.4	89.9	14.6	55.7	65	50.5
DYNA-GRO	M59GB57	89.6	82.7	13.7	55.1	59	41.8
DYNA-GRO	M60GB31	86.4	79.7	15.1	54.3	78	54.5
DYNA-GRO	M54GR24	86.3	79.7	16.2	57.2	59	44.5
MATURITY CHECK	LATE	114.9	106.0	15.2	55.1	78	50.8
MATURITY CHECK	EARLY	112.1	103.4	15.4	56.9	59	45.5
MATURITY CHECK	MED	110.0	101.5	16.2	58.0	71	51.5
	Average	108.4	100.0	15.1	56.2	68	50.4
	CV (%)	11.5	11.5	0.8	0.8	2	1.7
	LSD (0.05)	11.7	11.4	1.0	0.9	6	4.0
	Heritability	0.6	--	--	--	--	--

*Yields must differ by more than the LSD value to be considered statistically different.

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/outreach-and-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.

I understand that all results from Kansas Crop Performance Tests belong to the University and the public and shall be controlled by the University so as to produce the greatest benefit to the public. Performance data may be used in the following ways: 1) Tables may be reproduced in their entirety provided the source is referenced and data are not manipulated or reinterpreted; 2) Advertising statements by an individual company about the performance of its entries may be made as long as they are accurate statements about the data as published, with no reference to other companies' names or cultivars. In both cases, the following must be included with the reprint or ad citing the appropriate publication number and title: "See the official Kansas State University Agricultural Experiment Station and Cooperative Extension Service Report of Progress 1189, '2024 Kansas Performance Tests with Grain Sorghum Hybrids,' or the Kansas Crop Performance Test website, *www.agronomy.k-state.edu/outreach-and-services/crop-performance-tests/index. html*, for details.

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