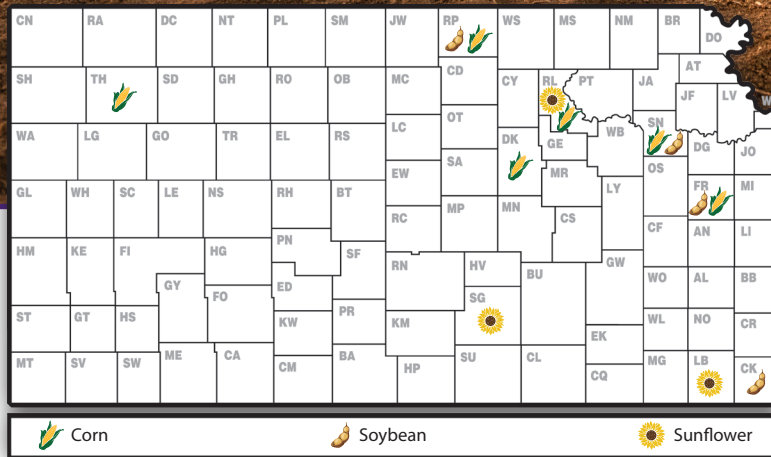


# 2024 Kansas Performance Tests with

# Corn, Soybean, and Sunflower Varieties



## Report of Progress 1187



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## 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.**

Month	Temperature		Precipitation	
	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
<b>YEAR</b>	<b>57.5</b>	<b>+2.5</b>	<b>27.38</b>	<b>-1.62</b>

### 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 (-0.21 inches).



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

Corn: Corn stunt spiroplasma (CSS, *Spiroplasma kunkelii*) and its associated vector (corn leafhopper, *Dalbulus maidis*) were deemed an emerging threat to the Kansas corn crop. Corn stunt spiroplasma was confirmed in 26 counties and scouting efforts across Kansas confirmed active leaf hoppers in many additional counties. Although most of the positive reports are from field corn, corn stunt spiroplasma was also confirmed in sweet corn. High levels of disease were found in late-planted and double-cropped corn, leading to potential yield reduction.

Tar spot was confirmed in low levels in five counties in the northeast corner of the state. Southern rust and bacterial leaf streak thrived during the many 90°F+ days and warm nights of 2024.

Soybean: Diseases of note in 2024 included sudden death syndrome (SDS) and frogeye leaf spot. Soybeans in waterlogged soils were prone to Pythium root rot and Phytophthora root rot.

Sunflower: Diseases of note in 2024 included Rhizopus head rot, red rust, and white mold. (Rodrigo Onofre, Kansas State University Department of Plant Pathology)

## Insects

Corn: Corn pests have been well managed in the past few years with seed treatments, BT varieties targeted for specific pests, planting date manipulation and/or crop rotations. However, a few minor infestations by western bean cutworms have been reported in northwest Kansas. Also, a few instances of adult

Japanese beetles clipping silks were reported from the northeast quadrant of Kansas.

Corn leafhoppers were officially identified for the first time on record in 2024. No problems were noted due to the pest in 2024, but sampling programs should be initiated to monitor for them in 2025.

Soybean: Overall, soybeans were not as affected by pests as in some years. No infestations over large areas were noted. However, many fields throughout the state were filling pods just as populations of corn earworms (soybean podworms) were depositing eggs. Thus, podworm infestations were still evident but not as widespread as in some years. Spider mites infested many acres in 2024, and these, coupled with drought conditions, contributed to reduced yields in many dryland fields throughout north central Kansas.

Sunflower: Sunflowers have seen fewer pest problems the last 5 years. The sunflower head moth has been the number one insect pest in sunflowers for the past 20 years. However, for the last 5-6 years, the head moth has not been as problematic, but infestations have been common. In most cases, the head moth damage has not been severe enough to exceed the treatment threshold. Sampling should continue to monitor for the presence of head moths throughout the vulnerable period of sunflower development. (Jeff Whitworth, Kansas State University Department of Entomology)

## **2024 PERFORMANCE TESTS**

### **Objectives and Procedures**

The Kansas 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 hybrids marketed in the state. Entry fees from private seed companies finance the tests. Because entry selection and location are voluntary, not all hybrids or varieties grown in the state are included in tests, and the same group of hybrids or varieties is not grown uniformly at all test locations. Companies submit seed treated with systemic insecticides, which can affect yield in some situations.

Three to four plots (replications) of each hybrid or variety were grown at each location in a randomized complete-block design. Each harvested plot consisted of two rows trimmed to a specific length, ranging from 20 to 30 feet at the different locations.

Explanatory information is given in summaries preceding data for each test. A summary of growing season precipitation data is given for individual test discussions. General trends in precipitation relative to normal are readily observed in the graphs.

Corn grain yields are reported as bushels per acre of shelled grain (56 lb/bushel) adjusted to a moisture content of 15.5%. Soybean yields are recorded as bushels per acre of shelled grain (60 lb/bushel) adjusted to 13% moisture content. Sunflower yields are expressed as pounds of seed per acre adjusted to 10% moisture content.

Yields also are presented as percentage of test average to speed recognition of highest-yielding hybrids. Hybrids yielding more than 100% of the test average year after year merit consideration. Adaptation to individual farms for appropriate maturity, stalk strength, and other factors also must be considered.

Small differences in yield should not be overemphasized. Relative hybrid ranking and large differences are better indicators of performance. Least significant differences (LSD) are shown at the bottom of each table. Unless two hybrids differ by at least the LSD shown, little confidence can be placed in one being superior to the other. Yield values in the top LSD group in each test are displayed in bold. The coefficient of variability (CV) can be used with the LSD to estimate the degree of confidence one can have in published data from replicated tests.

**Table 1. Companies entering hybrids in the 2024 Kansas Corn Performance Tests**

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<b>Corteva AgriSciences</b> Johnston, IA 800-233-7333 pioneer.com *maturity checks	<b>Lewis Hybrids</b> Ursa, IL 800-252-7851 lewishybrids.com	<b>Phillips Seed Farm</b> Hope, KS 785-949-2204 phillipsseed.com
<b>Golden Harvest Brand Seed</b> Minnetonka, MN 800-455-0956 syngentaseeds.com	<b>Monsanto (DeKalb)</b> St. Louis, MO 314-694-1000 monsanto.com	<b>Renk Seed</b> Sun Prairie, WI 800-289-7365 renkseed.com

## Table 2. Manhattan, Kansas Dryland Corn Performance Trial, Riley County, 2024

Agronomy North Farm, Kansas State University, Manhattan; Jane Lingenfelter, agronomist

Planted: 4/24/2024 at 28K seeds/a

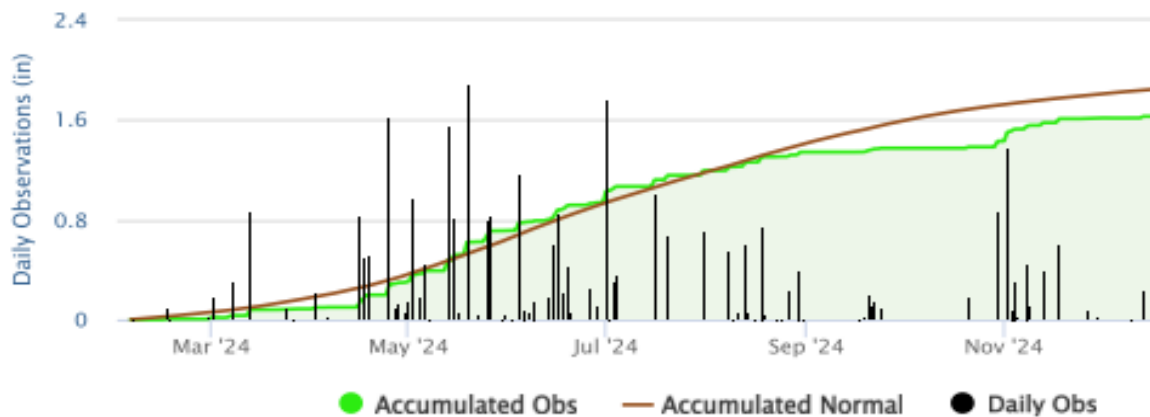
Fertility: 177-60-0 lbs/a N, P, K

Herbicide: 26 oz/a glyphosate, 2.3 oz/a Motif, 2.5 lbs/a AMS, 8.0 oz/a COC

24 oz/a atrazine 4L, 26 oz/a glyphosate, 5.4 oz/a Motif, 28 oz/a Visor 5-MOC, 2.5 lbs/a AMS

Harvest: 9/16/2024

### Manhattan 365 Day Accumulated Precipitation



BRAND	NAME	YIELD (bu/a)	PAVG (%)	MOIST (%)	TW (lb/bu)
DEKALB	DKC111-33	248.3	102.0	14.3	58.3
LEWIS	14DT603	258.5	106.2	18.1	57.8
LEWIS	15DP899	262.0	107.6	16.7	58.3
LEWIS	15DT664	247.4	101.6	22.1	58.1
LEWIS	16DP850	252.7	103.8	19.5	57.6
MATURITY CHECK	FULL	261.1	107.2	16.6	58.2
MATURITY CHECK	MID	226.4	93.0	12.9	59.9
MATURITY CHECK	SHORT	209.4	86.0	13.2	60.5
NK	NK1082-DV	237.1	97.4	13.2	57.6
NK	NK1354	234.3	96.2	12.8	56.1
RENK	RK830	267.2	109.7	14.9	59.1
RENK	RK895	250.7	103.0	14.6	58.6
RENK	RK915	221.1	90.8	15.3	59.4
RENK	RK958	251.8	103.4	14.6	60.6
	AVERAGE	243.5	100.0	15.0	58.9
	CV (%)	11.8	11.8	1.1	0.4
	LSD (0.05)	25.6	10.5	4.4	2.1

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

**Table 3. Ottawa, Kansas Dryland Corn Performance Trial, Franklin County, 2024**

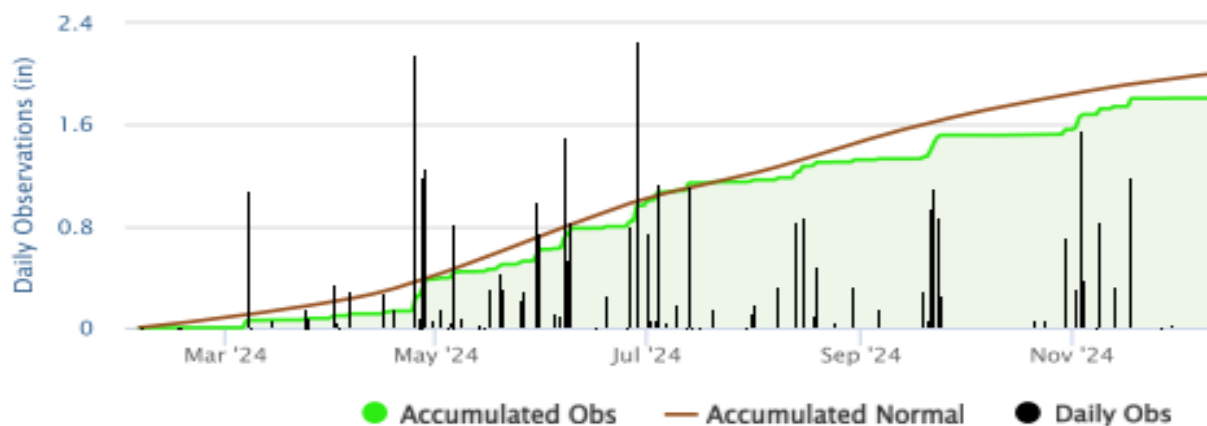
East Central Kansas Experiment Field, Kansas State University, Ottawa; Eric Adee, agronomist; Darren Hibdon, research technician

Planted: 4/24/2024

Fertility: 117-38-25-20 lbs/a N, P, ,K, S strip till; 15 gallons 28-0-0 lbs/a sidedress

Harvest: 10/1/2024

**Ottawa 2SE 365 Day Accumulated Precipitation**



BRAND	NAME	YIELD (bu/a)	PAVG (%)	MOIST (%)	TW (lb/bu)
DEKALB	DKC111-33	214.1	110.0	14.4	57.9
DEKALB	DKC115-33	218.6	112.4	14.9	60.1
LEWIS	10DP719	236.2	121.4	14.3	57.8
LEWIS	12DT302	229.8	118.1	15.0	59.1
LEWIS	14DP849	189.8	97.6	14.9	59.9
LEWIS	15DP899	209.6	107.8	16.1	58.6
LEWIS	17DP651	209.9	107.9	15.0	58.1
MATURITY CHECK	FULL	231.8	119.2	14.8	58.8
MATURITY CHECK	MID	204.5	105.1	14.8	59.6
MATURITY CHECK	SHORT	142.8	73.4	14.6	59.2
NK	NK0367-AA	123.9	63.7	14.6	60.0
NK	NK1082-DV	190.7	98.0	14.2	57.2
NK	NK1188-AA	172.0	88.4	14.7	60.1
NK	NK1701-V	195.6	100.5	14.3	57.3
NK	NK1755-DV	148.8	76.5	14.5	59.0
	AVERAGE	194.5	100.0	14.7	58.8
	CV (%)	14.0	14.0	0.2	0.6
	LSD (0.05)	23.2	16.9	0.4	1.0
	Heritability	0.5			

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



**Table 4. Topeka, Kansas Dryland Corn Performance Test, Shawnee County, 2024**

Farmer's Field, Wolf Farms, Rossville; Eric Adee, agronomist

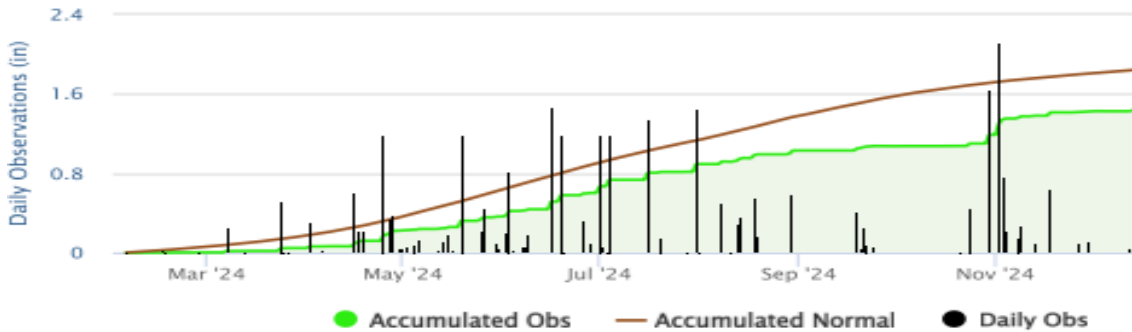
Planted: 4/23/2024 at 27K seeds/a

Fertilizer: 163-60-60-15 lbs/a N, P, K, S

Herbicide: 2 qt/a Bicep II, 3 oz/a Callisto, 1 lb/a Aatrex 90, 1 oz/a Armezon, 12 oz/a Outlook 16 oz/a Brox 2EC, 3 oz/a Callisto, 8 oz/a atrazine 4L, HCOC

Harvest: 9/20/2024

**Rossville 2SE 365 Day Accumulated Precipitation**



BRAND	NAME	YIELD (bu/a)	PAVG (%)	MOIST (%)	TW (lb/bu)	PLANTS per acre	1/2 SILK (day)	LODGE (%)
DEKALB	DKC111-33	255.8	105.2	13.0	61.1	23500	6/25/2024	0
DEKALB	DKC115-33	251.9	103.6	12.9	62.3	23500	6/26/2024	0
INDIGO	CONTROL	236.0	97.0	12.3	62.8	24000	6/28/2024	0
LEWIS	13DT644	276.4	113.6	13.7	60.6	24500	6/26/2024	0
LEWIS	14DT603	216.0	88.8	13.8	60.4	23500	6/27/2024	0.5
LEWIS	15DT664	285.5	117.4	14.5	61.5	24000	6/26/2024	0.5
LEWIS	17DP651	245.0	100.7	14.2	59.6	24500	6/29/2024	0
MATURITY CHECK	FULL	252.5	103.8	13.8	61.4	23000	6/28/2024	0
MATURITY CHECK	MID	222.5	91.5	12.6	62.2	23000	6/27/2024	0
MATURITY CHECK	SHORT	202.5	83.3	13.2	59.6	23500	6/26/2024	30.3
NK	NK0367-AA	218.3	89.8	12.5	60.0	23250	6/26/2024	4.7
NK	NK0922-V	243.4	100.1	13.8	59.9	24000	6/26/2024	25.6
NK	NK1082-DV	260.4	107.1	13.2	59.5	24500	6/26/2024	0
NK	NK1188-AA	259.4	106.7	13.5	62.5	25000	6/27/2024	0
NK	NK1701-V	263.6	108.4	13.2	60.7	25500	6/27/2024	0
NK	NK1755-DV	240.0	98.7	14.1	60.7	24000	6/28/2024	0
	AVERAGE	243.2	100.0	13.2	61.2	23912.5	6/27/2024	3.08
	CV (%)	12.3	12.3	0.4	1.2	--	--	--
	LSD (0.05)	20.1	8.3	0.7	1.1	--	--	--

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

**Table 5. Topeka, Kansas Irrigated Corn Performance Trial, Shawnee County, 2024**

Kansas River Valley Experiment Field, Kansas State University, Topeka; Eric Adee, agronomist

Planted: 4/23/2024 at 27K seeds/a

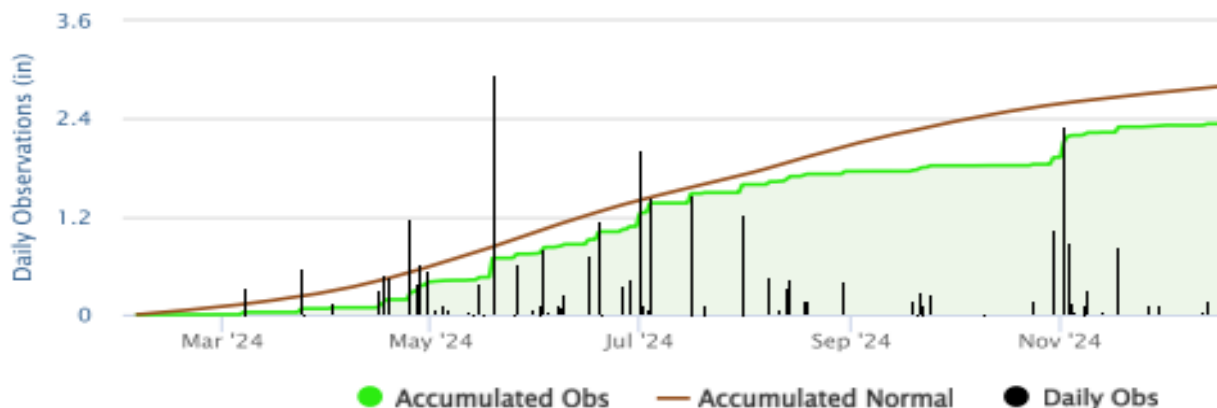
Fertility: 163-60-60-15 N, P, K, S

Herbicide: 2 qt/a Bicep II, 3 oz/a Callisto, 1 lb/a Aatrex 90, 1 oz/a Armezon, 12 oz/a Outlook 16  
oz/a Brox 2EC, 3 oz/a Callisto, 8 oz/a atrazine 4L, HCOC

Irrigation: 5.76 inches

Harvest: 9/12/2024

**Silver Lake 4E 365 Day Accumulated Precipitation**



BRAND	NAME	YIELD (bu/a)	PAVG (%)	MOIST (%)	TW (lb/bu)	PLANTS per acre	1/2 silk (day)
DEKALB	DKC115-33	257.5	97.2	15.7	62.8	27500	6/27/2024
DEKALB	DKC111-33	268.7	101.4	16.4	59.9	16500	6/26/2024
LEWIS	14DT603	293.9	110.9	17.0	62.3	29250	6/25/2024
LEWIS	13DT644	269.9	101.9	16.0	61.1	29750	6/26/2024
LEWIS	15DT664	286.1	108.0	17.7	61.4	30000	6/26/2024
LEWIS	17DP651	229.3	86.6	18.4	60.0	21750	6/28/2024
MATURITY CHECK	SHORT	227.9	86.0	14.5	62.4	27250	6/26/2024
MATURITY CHECK	MID	276.7	104.4	14.9	61.7	28000	6/26/2024
MATURITY CHECK	FULL	278.3	105.1	16.6	60.8	28250	6/27/2024
NK	NK1082-DV	275.7	104.1	15.9	59.2	29250	6/25/2024
NK	NK0922-V	262.7	99.2	16.8	59.8	26750	6/26/2024
NK	NK1188-AA	274.7	103.7	16.6	61.5	29500	6/27/2024
NK	NK1701-V	256.0	96.6	16.1	58.6	30500	6/27/2024
NK	NK1755-DV	257.2	97.1	16.9	61.0	25250	6/26/2024
NK	NK0367-AA	248.8	93.9	15.4	60.9	27500	6/26/2024
	AVERAGE	264.9	100.0	16.2	61.1	27362.5	6/27/2024
	CV (%)	12.1	12.1	0.8	0.4	--	--
	LSD (0.05)	16.0	6.0	0.9	1.1	--	--

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

**Table 6. Belleville, Kansas Dryland Corn Performance Test, Republic County, 2024**

North Central Kansas Experiment Field, Kansas State University, Belleville; Scott Dooley, agronomist

Planted: 5/17/2024 at 23K seeds/a

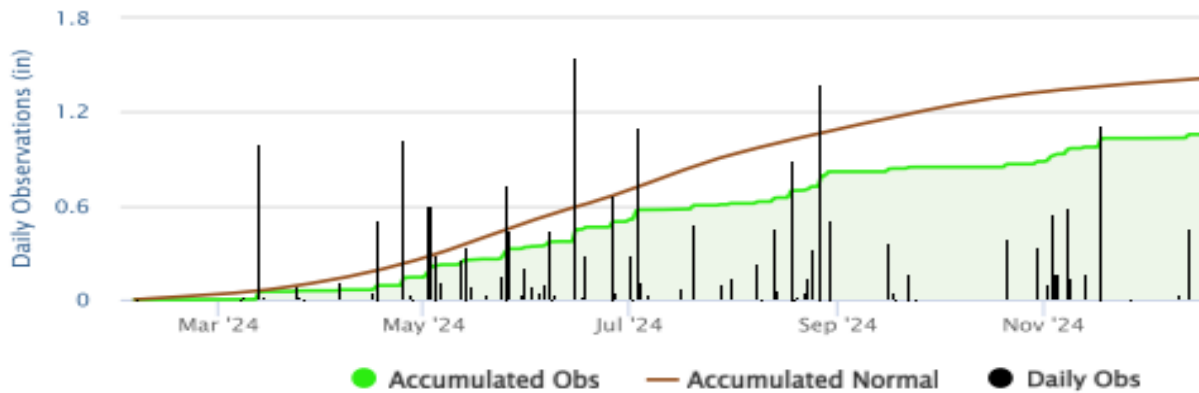
Fertility: 120-0-0 lbs/a N, P, K Fertilize

Herbicide: 1.5 qt/a Makaze, 25 oz/a Salvo, 1 qt/100 Liberate, 2 qt/100 Choice Trio,

3 qt/a Acuron, 1 qt/a Mad Dog 5.4, 1 qt/100 Choice Trio, 5 oz/a Status, 1 qt/a Mad Dog 5.4, 0.8 oz/a Armezon, 2 lb/a AMS, 12 oz/a MSO, 2 qt/100 Choice Trio

Harvest: 11/1/2024

**Belleville 2W 365 Day Accumulated Precipitation**



BRAND	NAME	YIELD (bu/a)	PAVG (%)	MOIST (%)	TW (lb/bu)	LDG/Damage** (%)
LEWIS	13DT644	144.7	116.9	14.1	60.5	11.7
LEWIS	14DT603	92.0	74.3	16.7	61.3	70.0
LEWIS	15DT664	122.3	98.7	14.6	59.7	26.7
LEWIS	17DP651	93.2	75.3	15.6	61.6	46.7
PIONEER CHECK	FULL	88.4	71.4	16.2	61.8	13.7
PIONEER CHECK	MID	122.1	98.6	14.7	61.4	11.7
PIONEER CHECK	SHORT	144.2	116.5	14.2	60.8	1.3
NK	NK0367-AA	151.5	122.3	14.5	61.3	3.0
NK	NK0922-V	114.0	92.0	15.1	61.7	1.7
NK	NK1082-DV	128.2	103.5	14.8	60.7	4.3
NK	NK1188-AA	135.1	109.1	14.5	62.0	26.2
NK	NK1701-V	154.0	124.3	14.3	62.0	11.7
NK	NK1755-DV	94.6	76.4	14.2	61.7	5.0
PHILLIPS	PS1179 A31	128.3	103.6	13.9	59.7	40.0
PHILLIPS	PS1372 TRE	145.0	117.1	13.9	60.2	3.0
	AVERAGE	123.8	100.0	14.8	61.1	18.4
	CV	11.7	11.7	0.8	0.4	--
	LSD*	14.4	11.7	0.8	0.7	--

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

\*\*estimate of lodging and animal damage

## Table 7. Scandia, Kansas Irrigated Corn Performance Trial, Republic County, 2024

North Central Kansas Experiment Field, Kansas State University, Scandia; Scott Dooley, agronomist

Planted: 5/23/2024 at 32K seeds/a

Fertility: 160-0-0 lbs/a N, P, K

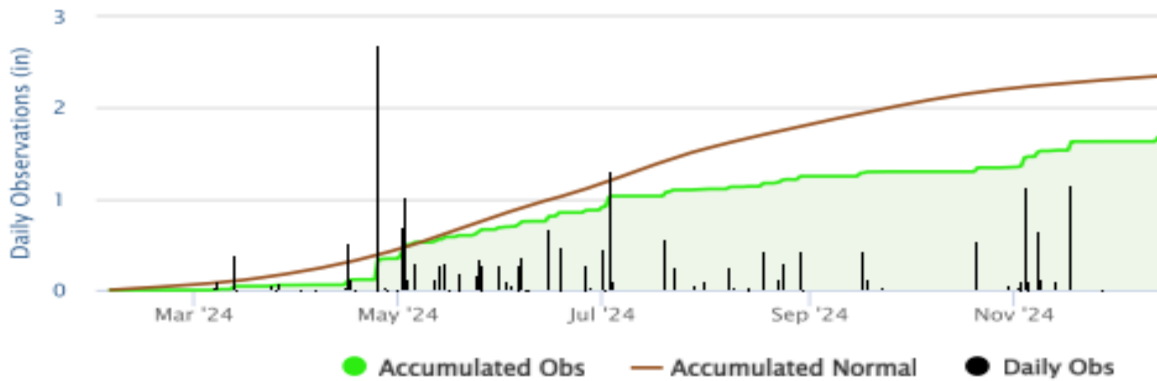
Herbicide: 1 qt/a Mad Dog 5.4, 16 oz/a Salvo, 12 oz/a Rifle, 1 pt/a MSO, 2 qt/100 Choice Trio, 1 qt/a Liberate, 3 qt/a Acuron, 1 qt/a Mad Dog 5.4, 1 qt/100 Choice Trio, 5 oz/a Status

1 qt/a Mad Dog 5.4, 0.75 oz/a Armezon, 2 lb/a AMS, 12 oz/a MSO, 2 qt/100 Choice Trio

Irrigation: 11.25 inches

Harvest: 11/12/2024

### Scandia 365 Day Accumulated Precipitation



BRAND	NAME	YIELD (bu/a)	PAVG (%)	MOIST (%)	TW (lb/bu)	LDG/Damage** (%)
LEWIS	13DT644	217.2	94.5	17.7	59.0	27.5
LEWIS	14DT603	252.5	109.9	18.4	58.8	16.7
LEWIS	15DT664	237.6	103.4	19.2	58.8	46.7
LEWIS	17DP651	226.5	98.6	20.0	59.1	60.0
PIONEER CHECK	FULL	268.7	116.9	19.4	59.7	5.0
PIONEER CHECK	MID	231.6	100.8	19.2	59.0	56.7
PIONEER CHECK	SHORT	204.5	89.0	19.1	59.9	13.3
NK	NK0367-AA	239.5	104.2	18.7	58.6	8.3
NK	NK0922-V	190.3	82.8	18.6	59.1	40.0
NK	NK1082-DV	243.4	105.9	19.0	59.3	20.0
NK	NK1188-AA	262.0	114.0	21.6	59.6	75.0
NK	NK1701-V	232.2	101.0	20.4	59.5	15.0
NK	NK1755-DV	240.3	104.6	19.4	58.7	43.3
PHILLIPS	PS1025 V32	222.5	96.9	20.9	58.6	63.3
PHILLIPS	PS1063 VPR	226.0	98.4	18.5	58.5	8.3
PHILLIPS	PS1179 A31	194.0	84.4	18.9	58.9	56.7
PHILLIPS	PS1372 TRE	217.5	94.6	18.5	59.6	23.3
	AVERAGE	229.8	100.0	19.3	59.1	34.1
	CV	12.1	12.1	1.0	1.0	--
	LSD*	12.5	5.5	0.9	0.4	--

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

\*\*estimate of lodging and animal damage

**Table 8. Abilene, Kansas Irrigated Corn Performance Trial, Dickinson County, 2024**

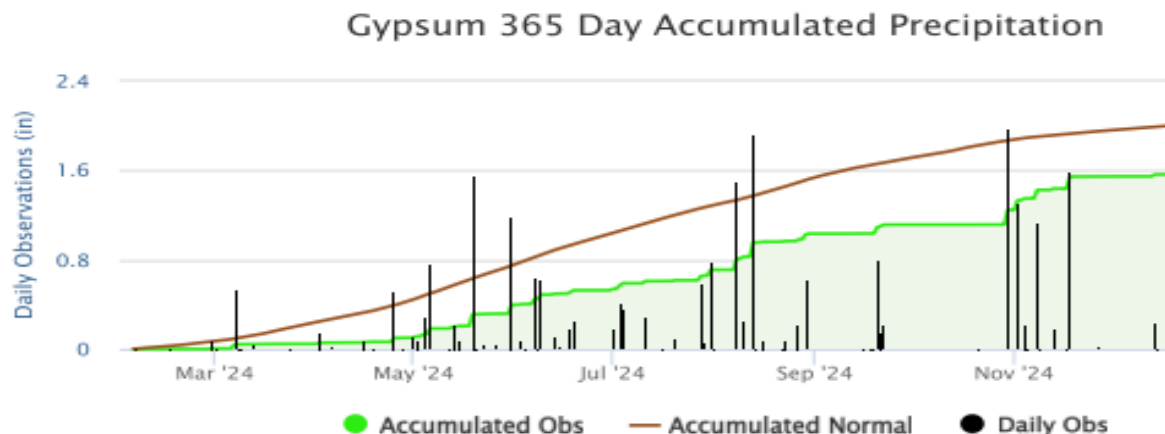
Farmer's Field, Abilene, 38.7044984199993, -97.6084387401106; Brian Yutzy, agronomist

Planted: 4/29/2024

Tillage: no-till

Previous crop: soybeans

Harvest: 9/27/2024



BRAND	NAME	YIELD (bu/a)	PAVG (%)	MOIST (%)	TW (lb/bu)
DEKALB	DKC111-33	251.9	104.1	12.5	62.9
DEKALB	DKC115-33	268.9	111.1	15.4	64.6
LEWIS	13DT644	204.9	84.7	12.9	63.0
LEWIS	14DT603	253.7	104.9	13.2	63.8
LEWIS	15DT664	274.9	113.6	17.7	65.2
LEWIS	17DP651	260.7	107.8	18.9	64.2
MATURITY CHECK	FULL	256.1	105.9	14.4	63.8
MATURITY CHECK	MID	231.1	95.5	12.3	64.5
MATURITY CHECK	SHORT	229.7	95.0	12.9	64.5
NK	NK0367-AA	246.1	101.7	13.5	63.9
NK	NK0922-V	214.7	88.8	12.9	62.5
NK	NK1082-DV	259.0	107.0	13.2	62.3
NK	NK1188-AA	232.6	96.1	12.3	64.7
NK	NK1701-V	243.0	100.4	12.6	61.6
NK	NK1755-DV	230.2	95.2	12.9	64.0
PHILLIPS	PS1025 V32	254.9	105.4	12.9	63.1
PHILLIPS	PS1063 VPR	221.4	91.5	12.3	62.7
PHILLIPS	PS1179 A31	246.8	102.0	13.2	63.1
PHILLIPS	PS1372 TRE	245.3	101.4	12.4	63.4
PIONEER	P1122AML	246.6	102.0	12.8	63.8
	AVERAGE	241.9	100.0	13.3	63.6
	CV (%)	9.9	9.9	0.3	0.7
	LSD (0.05)	16.4	6.8	1.7	0.8

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



**Table 9. Colby, Kansas Irrigated Corn Performance Test, Thomas County, 2024**

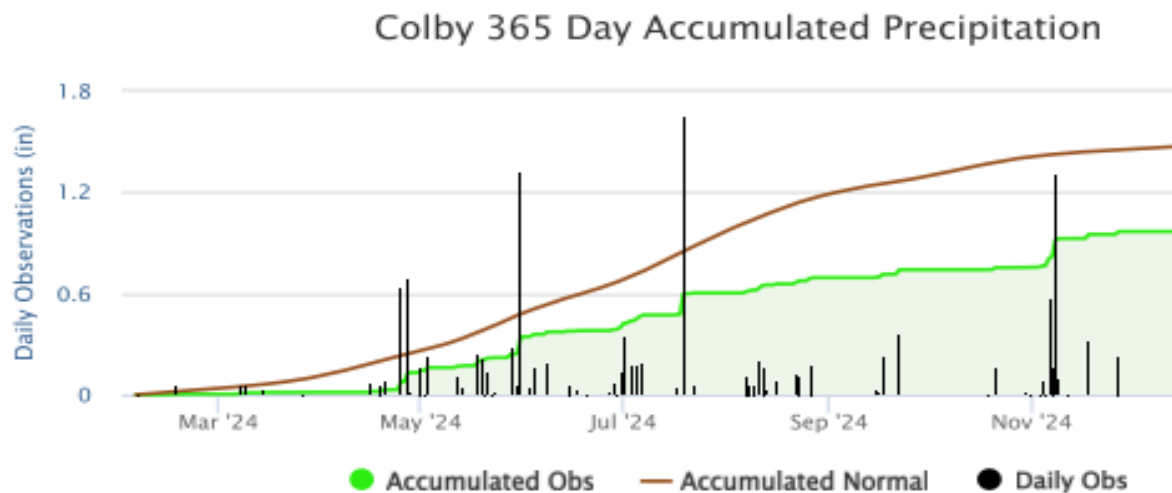
Farmer's Field, Colby, 39.19209332, -100.82823778; Brian Yutzy, agronomist

Planted: 5/8/2024

Tillage: no-till

Previous crop: wheat

Harvest: 10/14/2024



BRAND	NAME	YIELD (bu/a)	PAVG (%)	MOIST (%)	TW (lb/bu)
DEKALB	DKC111-33	203.0	106.5	21.9	56.2
DEKALB	DKC115-33	210.2	110.3	20.0	58.0
LEWIS	13DT644	155.4	81.5	24.2	54.5
LEWIS	14DT603	205.4	107.8	24.6	54.8
LEWIS	15DT664	196.4	103.0	24.3	54.9
LEWIS	17DP651	199.6	104.7	23.8	54.8
MATURITY CHECK	FULL	224.4	117.7	23.0	55.8
MATURITY CHECK	MID	200.9	105.4	23.8	55.1
MATURITY CHECK	SHORT	173.9	91.2	20.2	57.5
NK	NK0367-AA	210.0	110.1	20.0	57.5
NK	NK0922-V	170.9	89.7	20.7	56.4
NK	NK1082-DV	174.1	91.3	22.4	54.1
NK	NK1188-AA	179.5	94.2	22.3	56.8
NK	NK1701-V	102.7	53.9	23.7	53.8
NK	NK1755-DV	169.0	88.7	23.1	55.2
PIONEER	P1122AML	208.3	109.3	21.6	55.8
	AVERAGE	190.6	100.0	22.8	55.6
	CV (%)	10.6	10.6	1.8	0.9
	LSD (0.05)	26.8	14.1	1.5	1.1

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

**Table 10. Companies entering hybrids in the 2024 Kansas Soybean Performance Tests**

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**Corteva AgriSciences**

Johnston, IA  
800-233-7333  
pioneer.com

\*maturity checks

**GDM Seeds**

Champaign, IL  
816-449-0327  
gdmseeds.com

**Kansas Ag. Exp. Station (AES)**

Manhattan, KS  
785-532-7243

**University of Missouri**

Portageville, MO  
573-379-5431

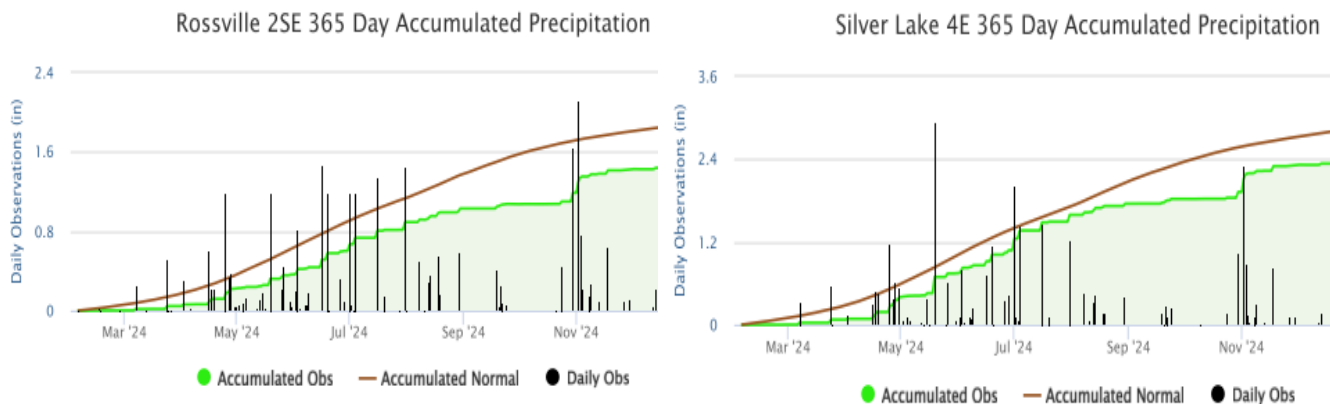
## Table 11. Rossville Dryland Soybean Performance Test, Shawnee County, 2022-2024

Farmer's Field, Wolf Farms, Rossville: Eric Adee, agronomist

Planted 5/14/2024 at 100,000 seeds/ft

Herbicide: 6.5 oz/a Authority Supreme, 1.5 pt/a Parallel (metulachlor), 1 pt/a Torment ( imazethapyr + fomesafen), Array; 3.25 oz/a Anthem Maxx , 4 oz/a Pursuit, 0.3 oz/a FirstRate, NIS

Harvest: 10/7/2024



BRAND	NAME	ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2024			
		2024	2023	2022	2-Yr. AVG.	3-Yr. AVG.	2024	2023	2022	Mat	Lodge score	Ht (in)	*AUDPC (count)
CHECK	RM3.3	<b>72.6</b>	<b>59.2</b>	<b>69.7</b>	65.9	67.2	115	115	106	9/22	2.0	37	198
CHECK	RM4.1	61.3	54.6	65.4	58.0	60.4	97	106	99	9/27	4.0	44	18
GDM	DM36F84S	<b>67.0</b>	--	--	--	--	106	--	--	9/23	2.0	43	38
GDM	DM46F54S	57.1	--	--	--	--	90	--	--	9/29	3.0	42	365
KANSAS AES	K18-1247	63.4	50.1	--	56.8	--	100	97	--	9/28	4.0	39	108
KANSAS AES	K18-1396	47.0	52.0	--	49.5	--	74	101	--	9/21	4.0	40	438
KANSAS AES	K18-1994	63.3	51.9	--	57.6	57.6	100	101	--	9/28	2.0	34	321
KANSAS AES	KS4323NS	57.9	50.3	--	54.1	--	91	98	--	9/23	4.0	37	498
KANSAS AES	KS4423N	52.5	51.4	--	52.0	52.0	83	100	--	9/27	2.0	36	503
KANSAS AES	KS4520NS	60.3	47.6	<b>66.7</b>	54.0	58.2	95	92	101	9/28	4.0	34	251
	Average	63.3	51.6	65.8	57.5	60.2	100	100	100	9/24	3.0	38	216
	C.V. (%)	7.3	6.3	6.9	--	--	--	--	--	--	--	--	--
	LSD (0.1)	5.5	3.8	4.9	--	--	--	--	--	--	--	--	--
	Heritability	0.7	--	--	--	--	--	--	--	--	--	--	--

Values in bold are in the upper LSD group.

\*AUDPC= area under the disease pressure curve. This is an assessment of the severity of Sudden Death Syndrome (SDS) in the plot. The higher the AUDPC, the more severe the SDS symptoms.

## Table 12. Topeka Irrigated Soybean Performance Test, Shawnee County, 2022-2024

Kansas River Valley Experiment Field, Kansas State University, Topeka; Eric Adee, agronomist

Planted 5/24/2024 at 100,000 seeds/ft

Pesticides: 3 oz/a Fierce, 12 oz/a Mauler, 0.3 oz/a FirstRate, 1.5 pt/a Parallel, 12 oz/a Torment, 3.25 oz/a Anthem Maxx, 4 oz/a Pursuit, 0.3 oz/a FirstRate, NIS

Irrigation: 5.7 inches

Harvest: 10/1/2024

BRAND	NAME	ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2024			
		2024	2023	2022	2-Yr. AVG.	3-Yr. AVG.	2024	2023	2022	Mat	Lodge score	Ht (in)	*AUDPC (count)
CHECK	RM3.3	<b>77.7</b>	<b>81.2</b>	58.7	79.4	72.5	98	109	93	9/19	1.0	40	275
CHECK	RM4.1	77.1	<b>90.2</b>	55.4	83.6	74.2	97	122	88	9/25	1.5	46	117
GDM	DM36F84S	<b>84.5</b>	--	--	--	--	107	--	--	9/20	1.0	42	89
GDM	DM46F54S	<b>78.0</b>	--	--	--	--	98	--	--	9/30	1.8	45	718
	Average	79.2	75.4	63.0	--	--	100	100	100	9/23	1.3	43	300
	C.V. (%)	7.6	--	--	--	--	--	--	--	--	--	--	--
	LSD (0.1)	7.3	10.1	7.5	--	--	--	--	--	--	--	--	--

Values in bold are in the upper LSD group.

\*AUDPC= area under the disease pressure curve. This is an assessment of the severity of Sudden Death Syndrome (SDS) in the plot. The higher the AUDPC, the more severe the SDS symptoms.

**Table 13. Ottawa Dryland Soybean Performance Test, Franklin County, 2022-2024**

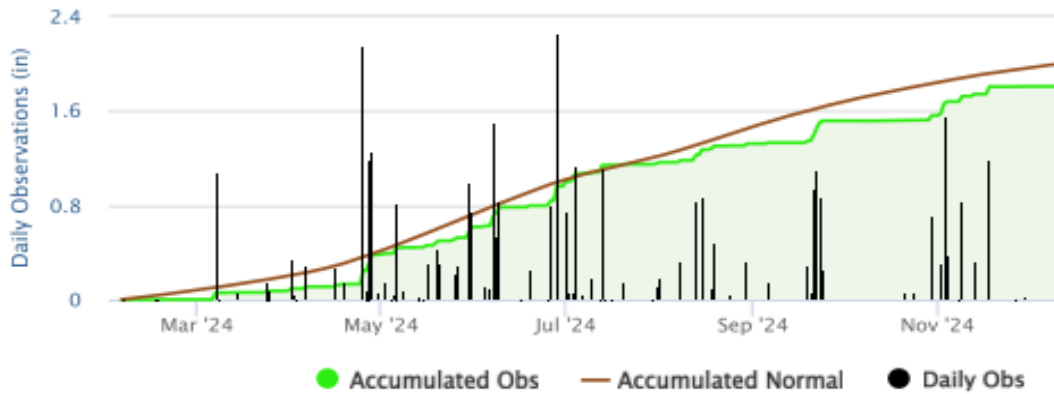
East Central Kansas Experiment Field, Kansas State University, Ottawa; Eric Adee, agronomist; Darren Hibdon, research technician

Planted: 5/24/2024 at 100,000 seeds/ft

Pesticides: 20 oz/a Metribuzin, 0.66 pt/a 2,4-D, 2 pt/a Roundup Powermax 3, 5 oz/a Zidua SC, 16 oz/a Select Max, 1.5 oz/a Basagran 5L, 0.5 oz/a Classic, 1.25 qt/a Warrant

Harvest: 10/16/2024

Ottawa 2SE 365 Day Accumulated Precipitation



BRAND	NAME	ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2024		
		2024	2023	2022	2-Yr. AVG.	3-Yr. AVG.	2024	2023	2022	Mat	Lodge score	Ht (in)
CHECK	RM3.3	56.7	17.5	49.0	37.1	41.1	104	61	105	9/29	1.0	32
CHECK	RM4.1	48.4	30.4	48.1	39.4	42.3	89	107	103	10/6	1.0	31
CHECK	RM5.1	<b>63.3</b>	34.3	--	48.8	--	116	99	--	10/11	1.0	38
GDM	DM36F84S	54.5	--	--	--	--	100	--	--	10/6	1.0	30
GDM	DM46F54S	<b>60.0</b>	--	--	--	--	110	--	--	10/7	1.0	29
MISSOURI	S20-2227	<b>61.2</b>	--	--	--	--	112	--	--	10/4	1.0	33
MISSOURI	S20-15411GT	52.4	--	--	--	--	96	--	--	10/3	1.0	31
MISSOURI	S20-141429GT	50.1	--	--	--	--	92	--	--	10/6	1.0	32
MISSOURI	S20-7117	50.6	--	--	--	--	93	--	--	10/1	1.0	35
MISSOURI	S20-13178LL55	53.3	--	--	--	--	97	--	--	10/10	1.0	40
KANSAS AES	K18-1247	49.9	25.0	--	37.5	--	91	88	--	10/7	1.0	36
KANSAS AES	K18-1396	<b>59.1</b>	<b>37.3</b>	--	48.2	--	108	131	--	10/5	1.0	31
KANSAS AES	K18-1994	52.3	<b>32.4</b>	--	42.4	--	96	114	--	10/6	1.0	28
KANSAS AES	KS4323NS	53.0	<b>32.4</b>	--	42.7	--	97	114	--	10/7	1.0	31
KANSAS AES	KS4423N	55.2	27.8	--	41.5	--	101	98	--	10/6	1.0	30
KANSAS AES	KS4520NS	51.8	27.9	44.0	39.9	41.2	95	98	94	10/6	1.0	32
	AVERAGE	54.7	28.5	46.8	41.6	43.3	100	100	100	10/5	1.0	32.5
	C.V. (%)	10.9	--	--	--	--	--	--	--	--	--	--
	LSD (0.1)	7.0	4.9	6.1	--	--	--	--	--	--	--	--
	Heritability	0.23	--	--	--	--	--	--	--	--	--	--

Values in bold are in the upper LSD group.

**Table 14. Pittsburg Soybean Performance Test, Crawford County, Maturity Groups III-V, 2022-2024**

Farmer's Field, Dale Roberds Farm, Pittsburg; Bill Schapaugh, agronomist

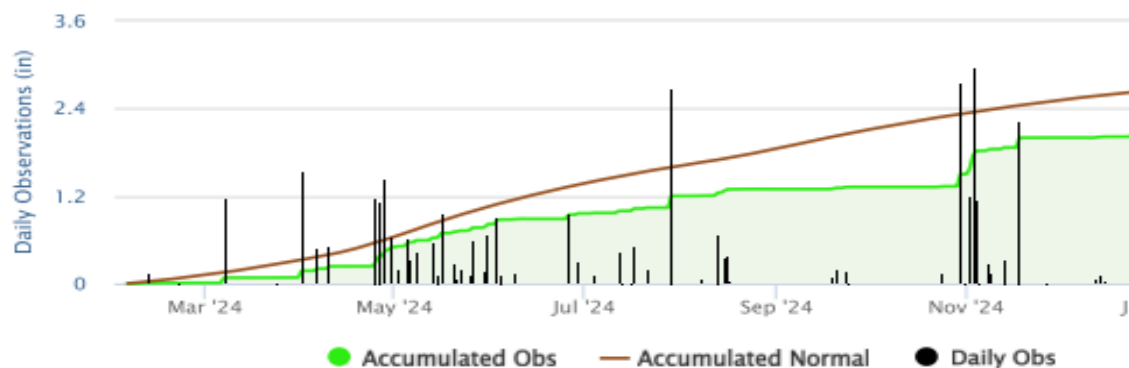
Planted: 6/18/2024 at 155,000 seeds/ft

Fertility: 2 tons turkey litter spread in April

Pesticides: 1 qt/a Paraquat, 7 oz/a Trivents

Harvest: 10/29/2024

**Cherokee 365 Day Accumulated Precipitation**



BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2024		
		2024	2023	2022	2-Yr. AVG.	3-Yr. AVG.	2024	2023	2022	Mat	Lodge score	Ht (in)
CHECK	RM5.1	43.4	44.5	--	44.0	--	108	90	--	10/10	1.0	37
GDM	DM46F54S	39.5	--	--	--	--	99	--	--	10/5	1.0	37
GDM	DM48F53	43.7	--	--	--	--	109	--	--	10/6	1.0	31
KANSAS AES	KS4822NS	41.4	51.4	44.8	46.4	45.9	103	104	100	10/8	1.0	33
KANSAS AES	KS4919N	44.5	44.7	45.8	44.6	45.0	111	90	102	10/12	1.5	36
KANSAS AES	KS5120NS	<b>48.6</b>	<b>57.2</b>	49.5	52.9	51.8	121	116	110	10/17	1.0	33
MISSOURI	S20-2227	35.5	--	--	--	--	89	--	--	10/5	1.0	32
MISSOURI	S20-15411GT	40.3	--	--	--	--	101	--	--	10/8	1.3	38
MISSOURI	S20-141429GT	33.4	--	--	--	--	83	--	--	10/3	1.0	34
MISSOURI	S20-7117	37.8	--	--	--	--	94	--	--	10/6	1.0	32
MISSOURI	S20-13178LL55	<b>46.2</b>	--	--	--	--	115	--	--	10/16	1.0	39
	AVERAGE	40.1	49.4	45.0	--	--	100	100	100	10/8	1.1	34
	C.V. (%)	7.8	6.1	5.6	--	--	--	--	--	--	--	--
	LSD (0.1)	3.7	3.6	3.0	--	--	--	--	--	--	--	--
	Heritability	0.7	--	--	--	--	--	--	--	--	--	--

Values in bold are in the upper LSD group.



**Table 15. Scandia Irrigated Soybean Performance Test, Republic County, 2022-2024**

North Central Experiment Field, Scandia, Republic County; Scott Dooley, agronomist

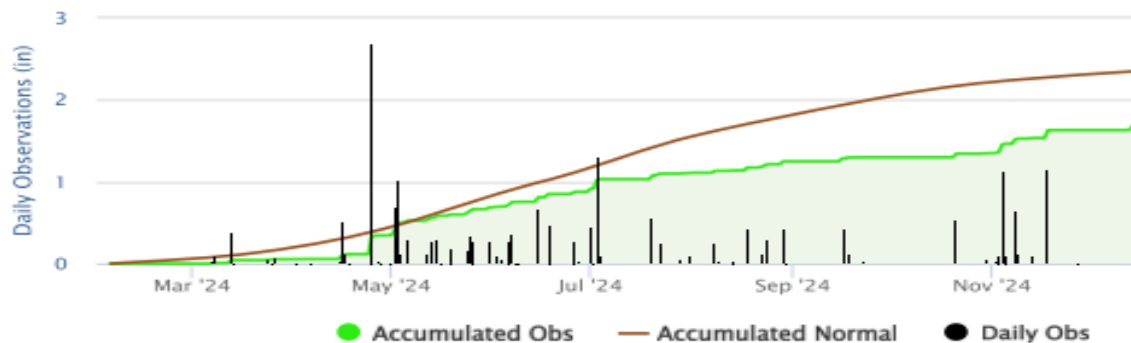
Planted 5/29/2024 at 142,000 seeds/ft

Pesticides: 5.25 oz/a Fierce XLT, 1 qt/a Mad Dog 5.4, 1 pt/a MSO 2 qt/100 Choice Trio,

1 qt/100 Liberate; 7 oz/a Marvel, 6 oz/a Fusilade DX, 25 oz/a MSO, 2 lb/a AMS, 2 qt/100 Choice Trio

Harvest: 10/17/2024

**Scandia 365 Day Accumulated Precipitation**



BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2024	
		2024	2023	2022	2-Yr. AVG.	3-Yr. AVG.	2024	2023	2022	Lodge score	Ht (in)
CHECK	RM3.3	<b>74.2</b>	56.1	63.3	65.2	64.5	104	100	101	1.0	32
CHECK	RM4.1	<b>77.6</b>	<b>63.9</b>	61.0	70.8	67.5	109	114	97	2.0	37
CHECK	RM5.1	22.1	--	--	--	--	31	--	--	4.0	44
GDM	DM36F84S	68.7	--	--	--	--	97	--	--	2.0	36
GDM	DM46F54S	<b>79.1</b>	--	--	--	--	111	--	--	2.0	47
GDM	DM48F53	<b>72.6</b>	--	--	--	--	102	--	--	2.0	36
KANSAS AES	KS4323NS	<b>80.3</b>	54.9	--	67.6	--	113	98	--	1.0	34
KANSAS AES	KS4423N	<b>76.6</b>	54.3	--	65.5	--	108	97	--	2.0	34
KANSAS AES	KS4520NS	63.3	53.9	64.5	58.6	60.6	89	96	103	2.0	33
	AVERAGE	71.1	55.9	62.8	--	--	100	100	100	2.0	37
	C.V. (%)	9.0	--	--	--	--	--	--	--	--	--
	LSD (0.1)	8.8	6.8	4.7	--	--	--	--	--	--	--
	Heritability	0.8	--	--	--	--	--	--	--	--	--

Values in bold are in the upper LSD group.

**Table 16. Yield as a Percentage of Test Average from 2024 Soybean Tests**

<b>BRAND/NAME</b>	<b>Maturity group</b>	<b>Topeka dryland</b>	<b>Topeka irrigated</b>	<b>Ottawa</b>	<b>Parsons</b>			<b>Belle-ville</b>	<b>AVG</b>
					<b>MG 3-5</b>	<b>Pittsburg</b>	<b>Scandia</b>		
<b>CHECK</b>									
RM3.3	3.3	115	98	104	--	--	104	100	104
RM4.1	4.1	97	97	89	--	--	109	80	94
RM5.1	5.1	--	--	116	--	108	31	--	85
<b>GDM</b>									
DM36F84S	3.6	106	107	100	--	--	--	--	104
DM46F54S	4.6	90	98	110	--	99	111	--	102
DM48F53	4.8	--	--	--	--	109	102	--	106
<b>KANSAS AES</b>									
K18-1247	4.0	100	--	91	--	--	--	--	96
K18-1396	4.0	74	--	108	--	--	--	--	91
K18-1994	4.0	100	--	95	--	--	--	--	98
KS4323NS	4.3	91	--	97	--	--	113	--	100
KS4423N	4.4	83	--	101	--	--	108	--	97
KS4520NS	4.5	95	--	95	--	--	89	--	93
KS4822NS	4.8	--	--	--	--	103	--	--	103
KS4919N	4.9	--	--	--	--	111	--	--	111
KS5120NS	5.1	--	--	--	--	121	--	--	121
<b>MISSOURI</b>									
S20-13178LL55	5.3	--	--	97	--	115	--	--	106
S20-141429GT	4.5	--	--	92	--	83	--	--	88
S20-15411GT	4.5	--	--	96	--	101	--	--	99
S20-2227	4.1	--	--	112	--	89	--	--	101
S20-7117	4.6	--	--	93	--	94	--	--	94

**Table 17. Companies entering hybrids in the 2024 Kansas Sunflower Performance Tests**

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**Corteva AgriSciences**

Johnston, IA  
800-233-7333  
pioneer.com

\*maturity check

**Dyna-Gro Seed**

Ralls, TX  
806-454-1288  
nutrien.com

**Croplan- Winfield Solutions**

Arden Mills, MN  
855-494-6343  
landolakes.com

**Sunrich Products**

Crookston, MN  
701-307-0184  
sunrich.com

## Table 18. Manhattan, Kansas Sunflower Performance Trial, Riley County, 2024

Agronomy North Farm, Kansas State University, Manhattan; Jane Lingenfelter, agronomist

Planted: 6/13/2024 at 22K seeds/a

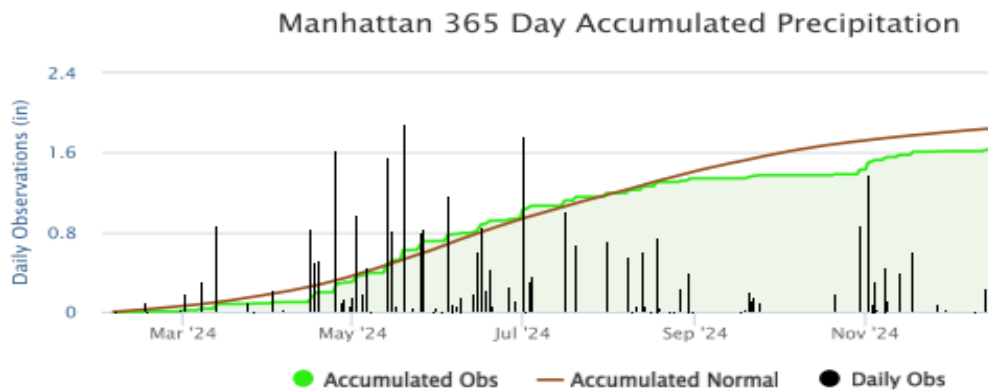
Fertility: 180-60-0 lbs/a N, P, K

Herbicide: 40 oz/a Interline, 30 oz/a glyphosate, 3 lbs/a AMS, 5 oz/a Blanket, 5 oz/a Zidua SC, 40 oz/a glyphosate, 16 oz/a MSO

Insecticide: 20 oz/a Prevathon

Harvest: 10/17/2024

\*The 2024 Manhattan sunflower trial was afflicted by extensive lodging and stalk damage caused by periodically heavy rains and high winds during the growing season. The following hybrids exhibited minimal lodging throughout 4 replications. Please keep the extenuating weather circumstances in mind when viewing the relative performance results.



Brand	Name	Yield (lb/a)	TW (lb/bu)	HT (in)	Heads per h. area
CROPLAN	CP4255E	1128	31	52	46
DYNA-GRO	H47HO11EX	1435	29	55	54
DYNA-GRO	XH4156CL	1337	30	51	50
PIONEER	P64ME01	2039	31	51	55
	Average	1485	30	52	51

**Table 19. Haysville, Kansas Sunflower Performance Trial, Sedgwick County, 2024**

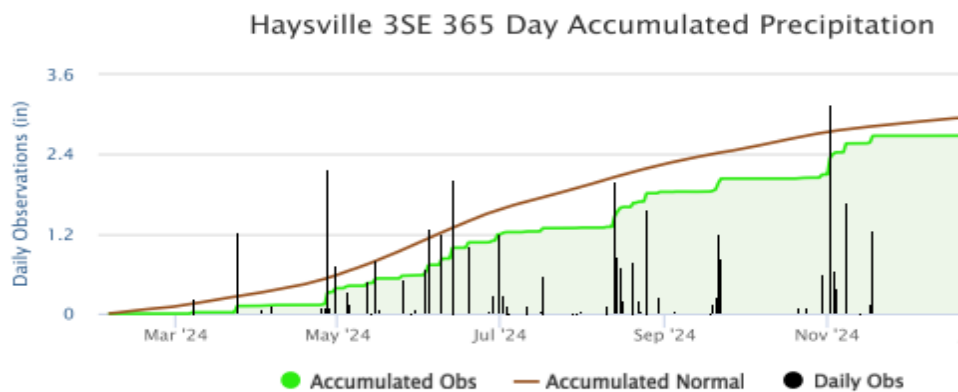
John C. Pair Horticulture Research Center, Haysville; Jason Griffin, Extension specialist

Planted: 6/18/24 at 26K seeds/a

Fertility: 91-0-0 lbs/a N, P, K

Herbicide: 2 pts/a glyphosate, 2 pts/a Prowl 3.3, 2 pt/a Poast Insecticide: 1 lb/50 gal DiPel Pro (Bt)

Harvest: 9/27/2024



BRAND	NAME	Yield (lbs/a)	PAVG (%)	Moist (%)	TW (lb/bu)	Heads per h.area	Yield (bu/a)
DYNA-GRO	H47HO11EX	1203.9	75.5	8.3	27.8	25.0	43.4
DYNA-GRO	H49HO19CL	1760.3	110.4	13.0	25.8	29.0	68.3
DYNA-GRO	XH4156CL	1373.4	86.2	8.4	27.4	35.0	49.8
PIONEER	P64ME01	2038.3	127.9	9.0	27.8	35.8	73.2
	Average	1594.0	100.0	9.7	27.2	31.2	58.7
	LSD (0.05)	326.3	20.5	--	--	--	--

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



**Table 20. Parsons, Kansas Sunflower Performance Trial, Labette County, 2024**

Southeast Agricultural Research Center, Kansas State University, Parsons; Gretchen Sassenrath, agronomist

Planted: 6/15/2024

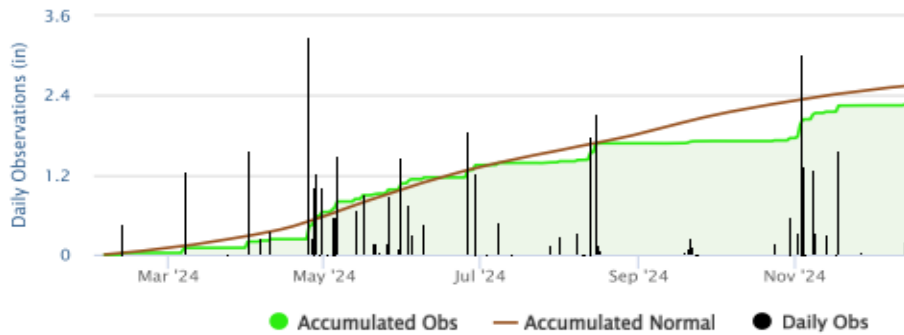
Fertility: 110-46-60 lbs/a N, P, K

Herbicide: 32 oz/a glyphosate, 24 oz/a 2,4-D, 50 oz/a Prowl H2O, 32 oz/a Brawl II

Pesticide: 80 oz/a Spartan Charge, 10 oz/a Clethodium

Harvest: 11/22/2024

Parsons 365 Day Accumulated Precipitation



Brand	Name	Yield (lbs/a)	PAvg (%)	Moist (%)	TW (lb/bu)	PLANTS per h. area	Day (flower)	HT (in)
CROPLAN	CP4255E	1307	112	10	31	53	7/29	53
CROPLAN	CP455E	1122	96	10	31	53	7/29	56
CROPLAN	CP7919CL	1398	120	11	31	52	7/29	56
DYNA-GRO	H45HO10EX	650	56	10	28	56	7/29	52
DYNA-GRO	H45NS16CL	1121	96	10	32	56	7/29	53
DYNA-GRO	H47HO11EX	1085	93	9	29	31	7/29	51
DYNA-GRO	H49HO19CL	1202	103	10	31	73	7/29	56
DYNA-GRO	H50HO20CP	1045	89	10	32	65	7/29	56
DYNA-GRO	XH4156CL	1384	118	11	32	52	7/29	47
DYNA-GRO	XH41H90EX	1261	108	10	32	66	7/29	54
PIONEER	P64ME01	1477	126	9	30	46	7/29	50
SUNRICH	4415	971	83	10	29	28	7/29	47
	AVERAGE	1169	100	10	31	53	7/29	53
	LSD	216	18	0	2	--	--	--

\*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:

***agronomy.k-state.edu/outreach-and-services/crop-performance-tests***

Excerpts from the  
University Research Policy Agreement with Cooperating Seed Companies

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

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 1187, '2024 Kansas Performance Tests with Corn, Soybean, and Sunflower Varieties' or the Kansas Crop Performance Test website, *agronomy.k-state.edu/outreach-and-services/crop-performance-tests*, for details. Endorsement or recommendation by Kansas State University is not implied."

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