



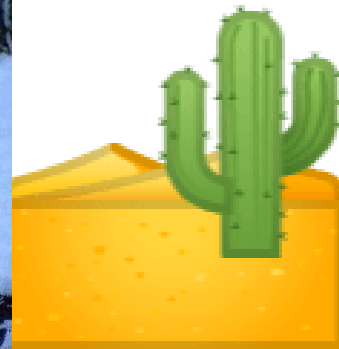
# Climate Shifts of Kansas

11/17/25

Chip Redmond - Associate Meteorologist, Mesonet Manager



# What is climate?





## WEATHER

Tells you what to wear each day



## CLIMATE

Tells you what types of clothes to have in your closet

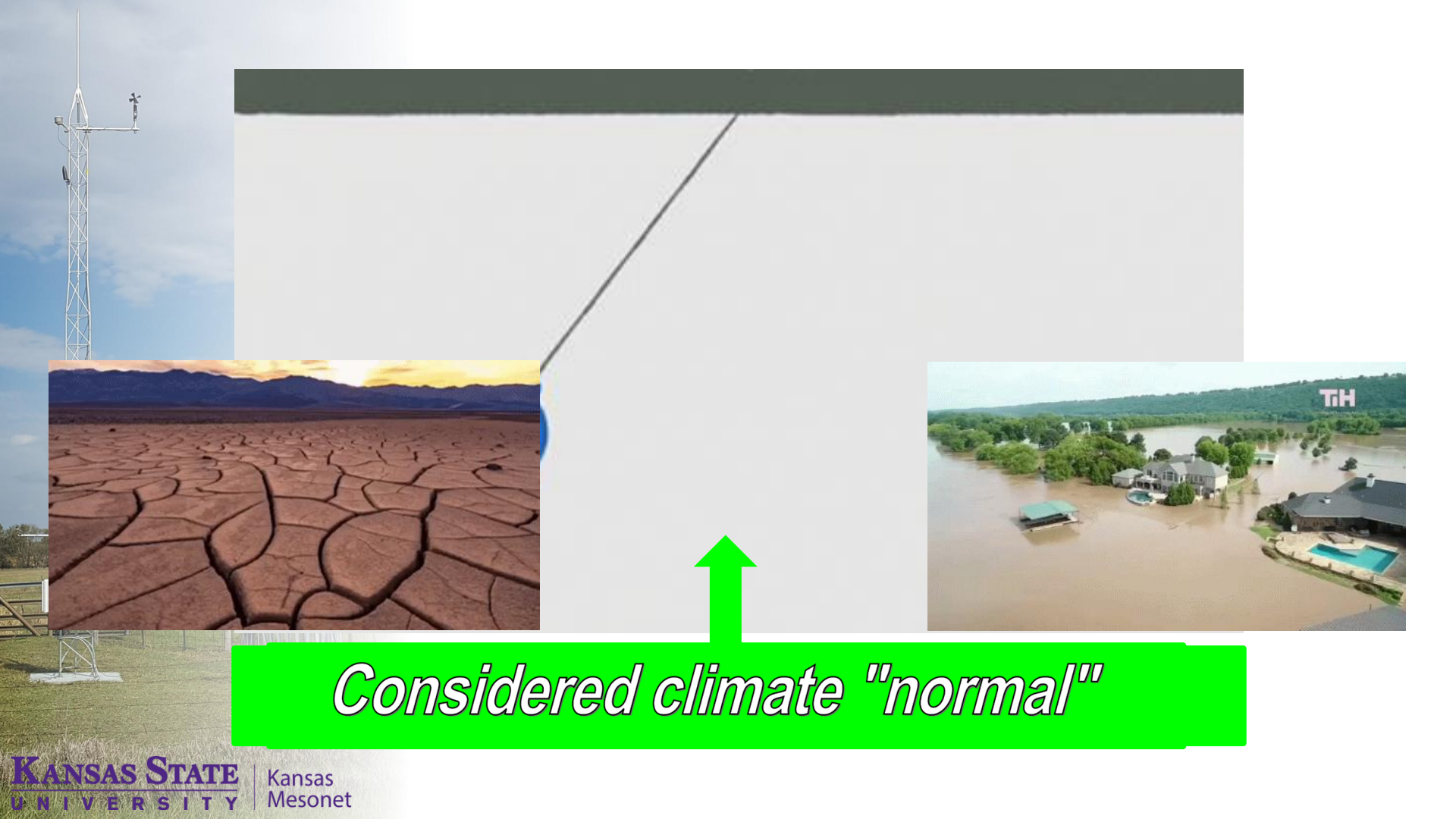


NOAA National Centers for Environmental Information

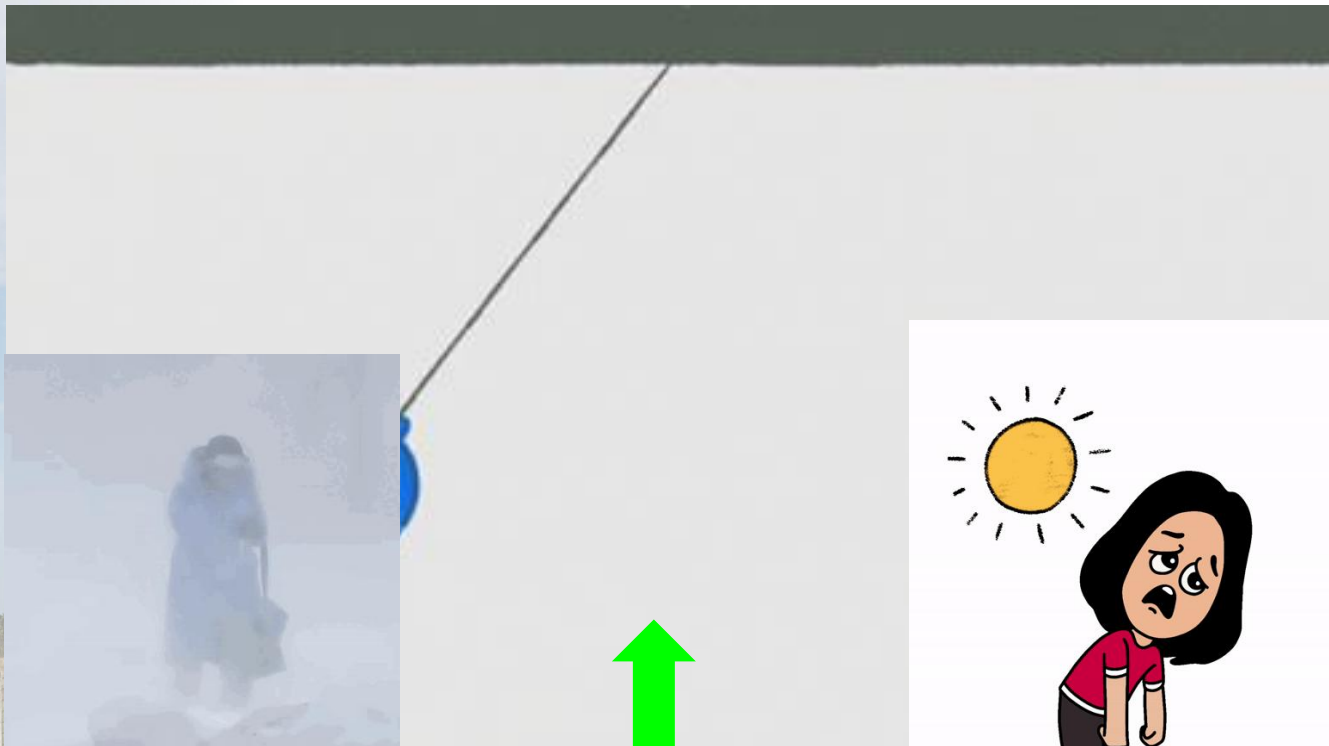
[www.ncei.noaa.gov](http://www.ncei.noaa.gov)

# WEATHER





*Considered climate "normal"*



*Considered climate "normal"*

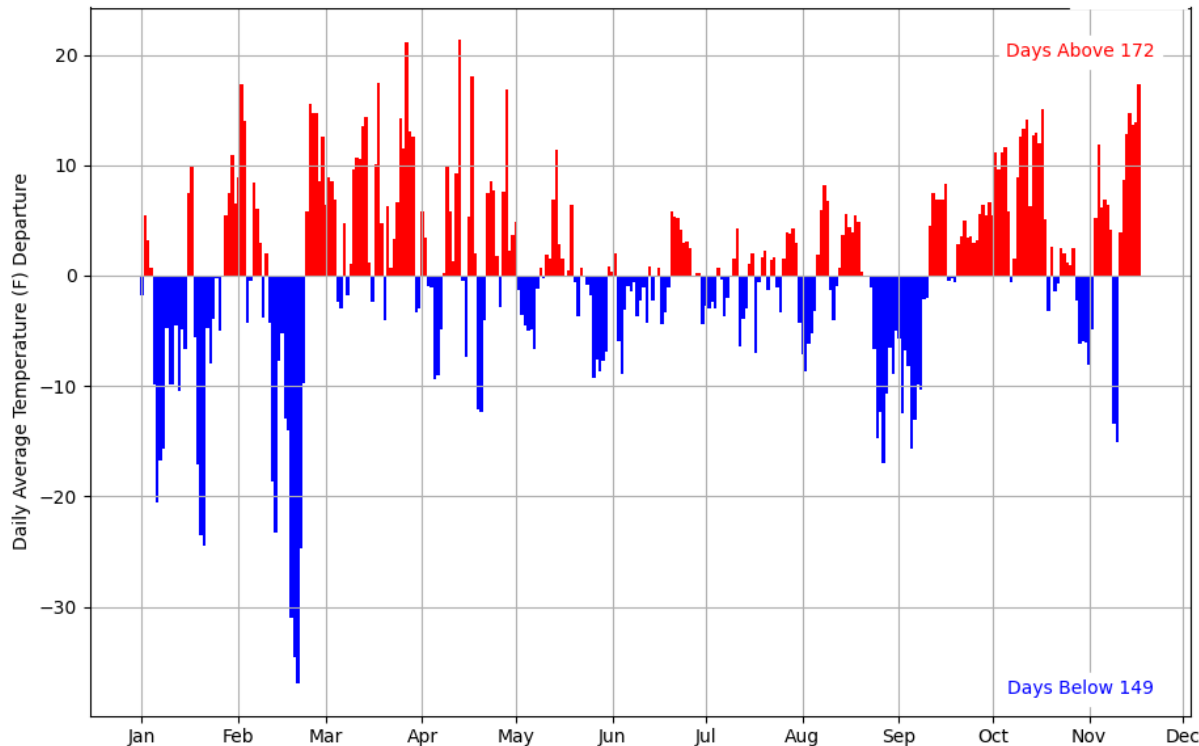




# [KS8830] Wichita Eisenhower:: Year 2025 Daily Daily Average Temperature (F) Departure

2025 data till 17 Nov 2025

Mean: 57.2



## Top 10

Rank	MonDay	Diff
#1	0413	21.4
#2	0327	21.1
#3	0417	18.0
#4	0318	17.5
#5	0202	17.4
#6	1117	17.3
#7	0428	16.8
#8	0224	15.5
#9	1017	15.1
#10	0226	14.7

## Bottom 10

Rank	MonDay	Diff
#1	0220	-36.9
#2	0219	-34.5
#3	0218	-31.0
#4	0221	-24.6
#5	0121	-24.5
#6	0120	-23.5
#7	0213	-23.3
#8	0106	-20.6
#9	0212	-18.6
#10	0119	-17.1

Generated at 18 Nov 2025 7:13 AM CST in 0.80s

IEM Autoplot App #32





This year, Kansas has been colder than normal.





It is not *True!*

South-central and southwest regions are colder than normal year to date (-0.08F and -0.11F). However, statewide, temperatures are running +0.18F.





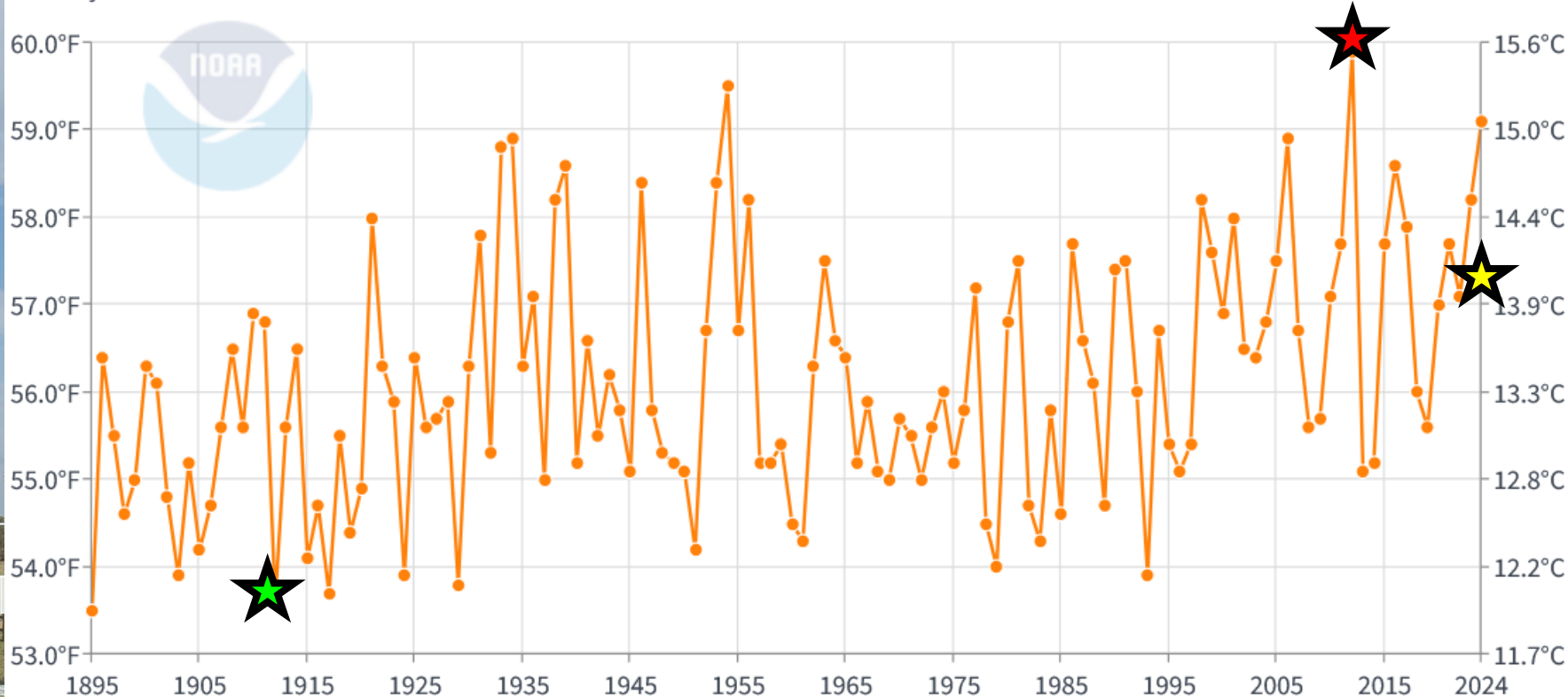
# Barely *False* !

South-central and southwest regions are colder than normal year to date (-0.08F and -0.11F). However, statewide, temperatures are running +0.18F.



# KS, CD 8 Avg Temp

January-December

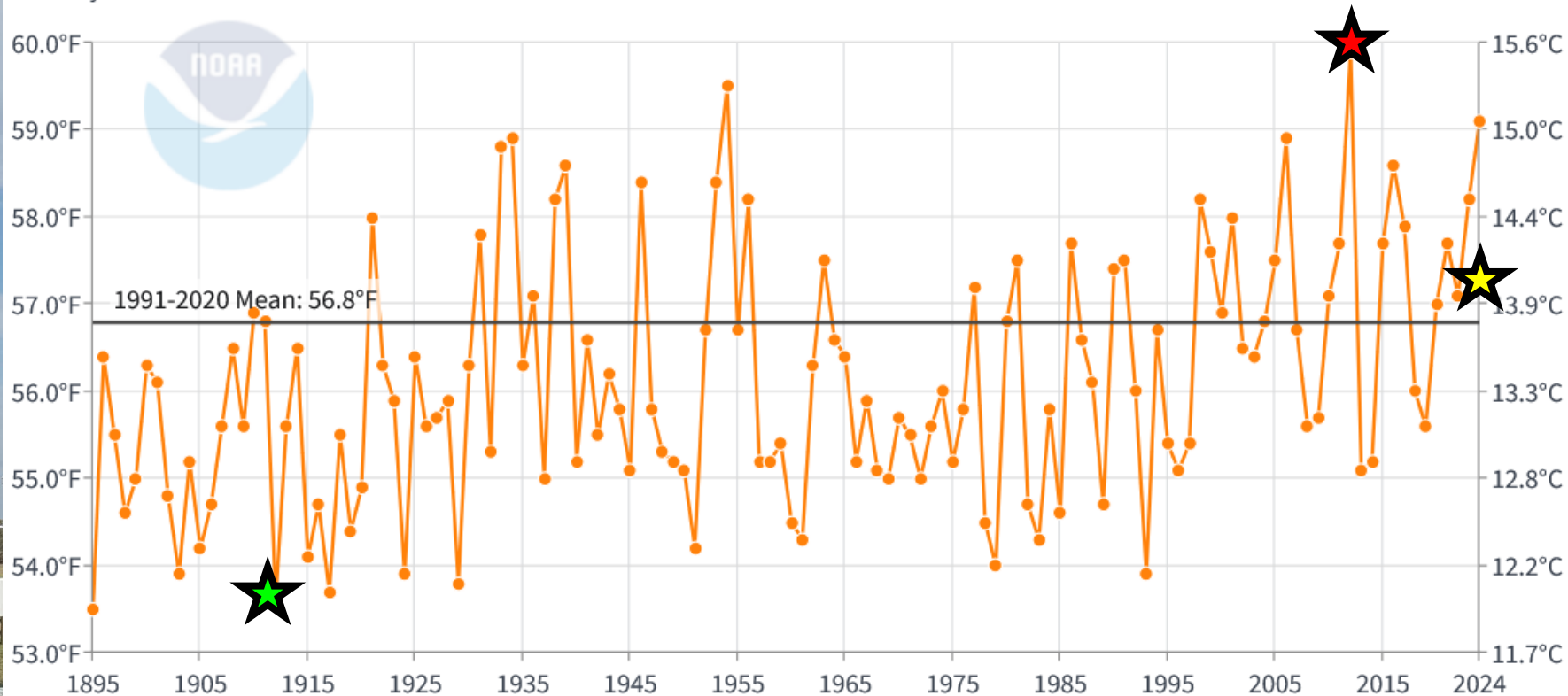


Powered by ZingChart



# KS, CD 8 Avg Temp

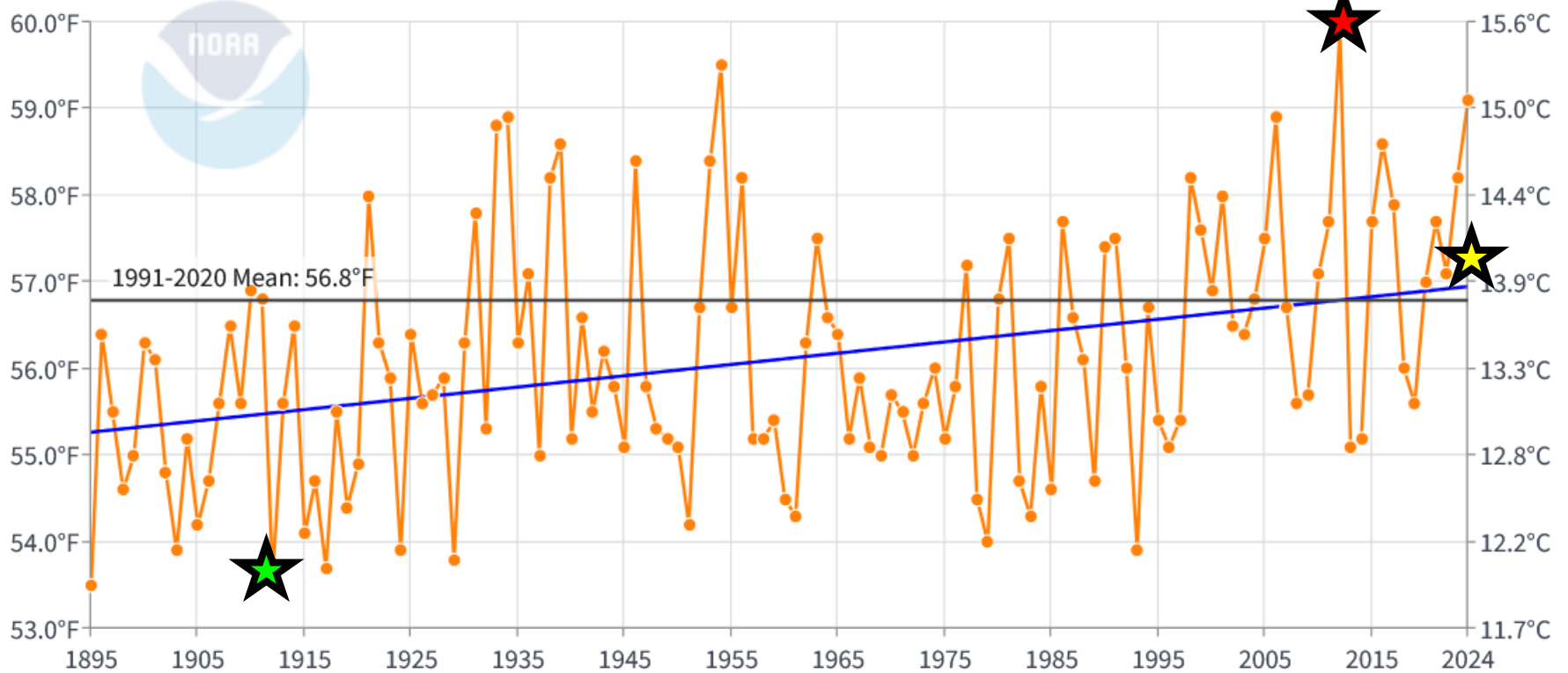
January-December



Powered by **ZingChart**

# KS, CD 8 Avg Temp

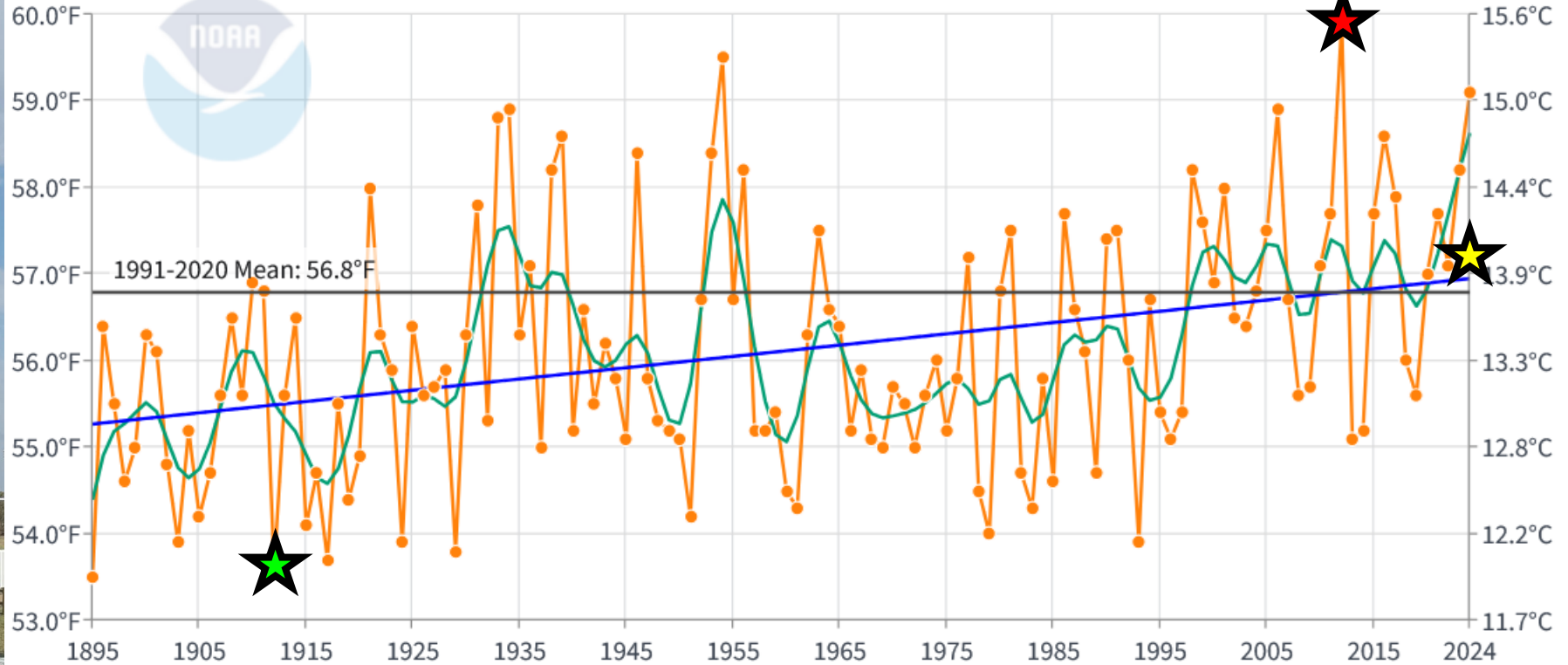
January-December



Powered by **ZingChart**

# KS, CD 8 Avg Temp

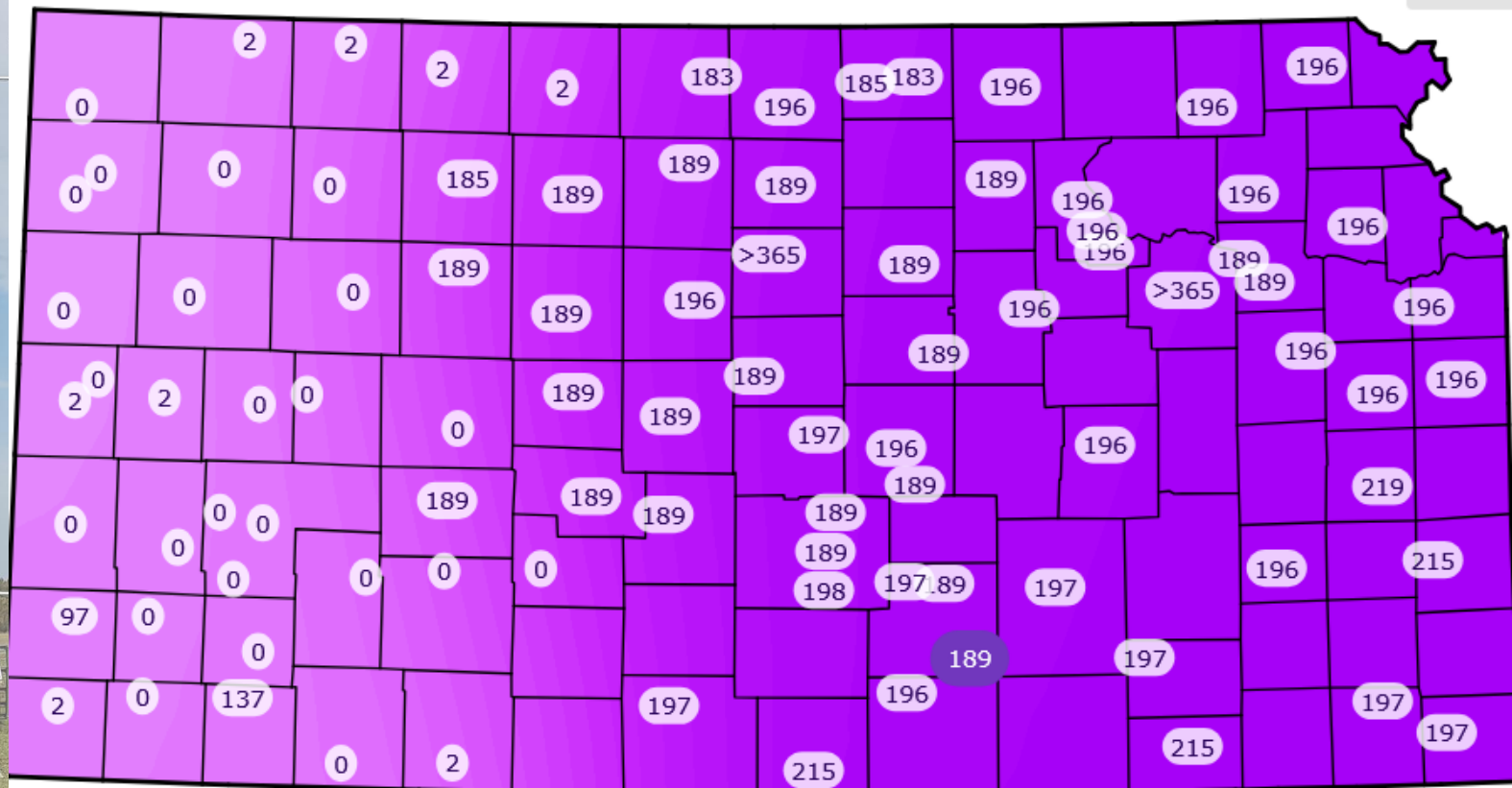
January-December



Powered by ZingChart

## A tall, white, lattice-structured tower stands in a grassy field. At the base of the tower, a solar panel is mounted on a small platform. The tower has a long, thin antenna extending from the top. The background shows a clear blue sky and a line of trees in the distance.

24 °F

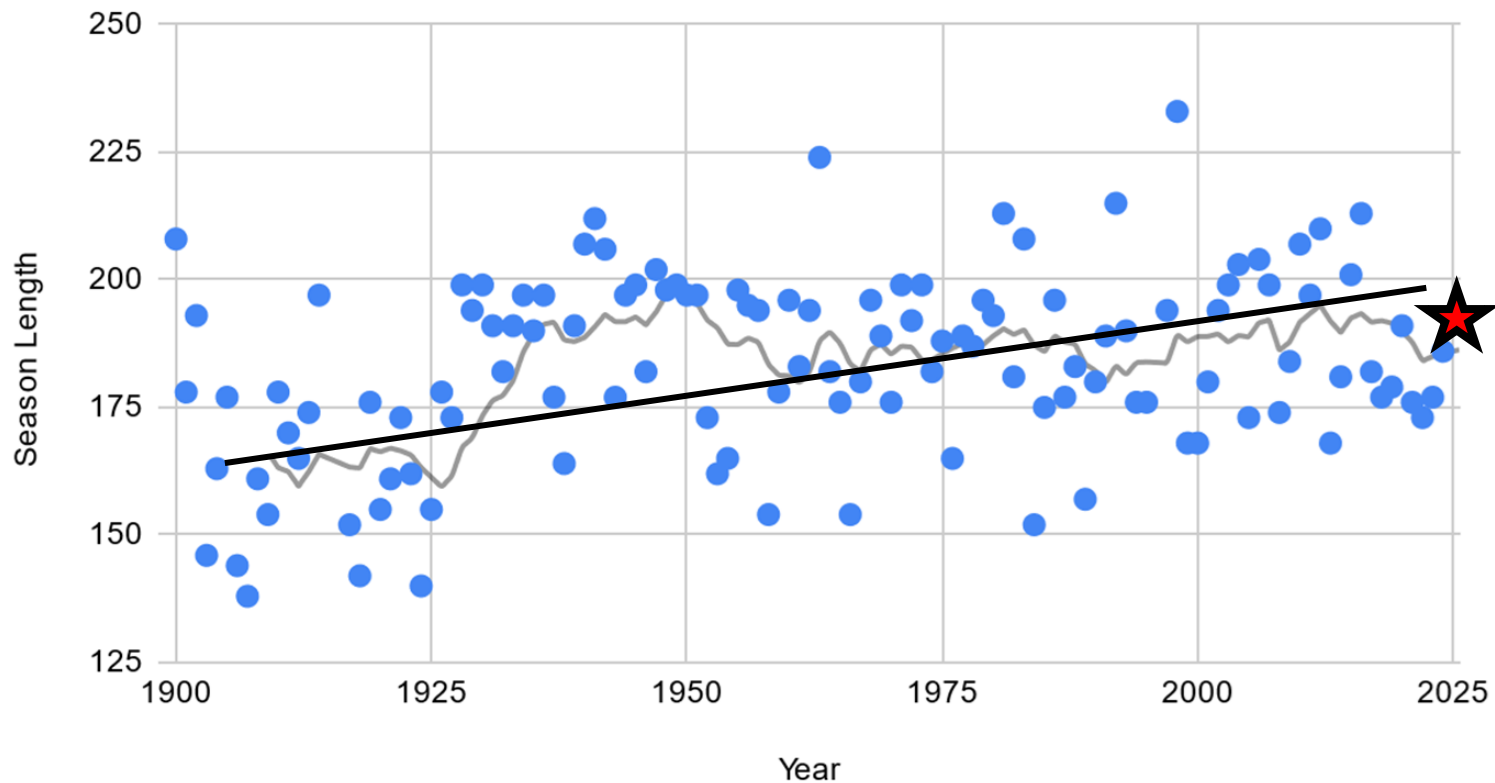


**KANSAS STATE**  
UNIVERSITY | Kansas  
Mesonet





## Growing Season Length - Salina

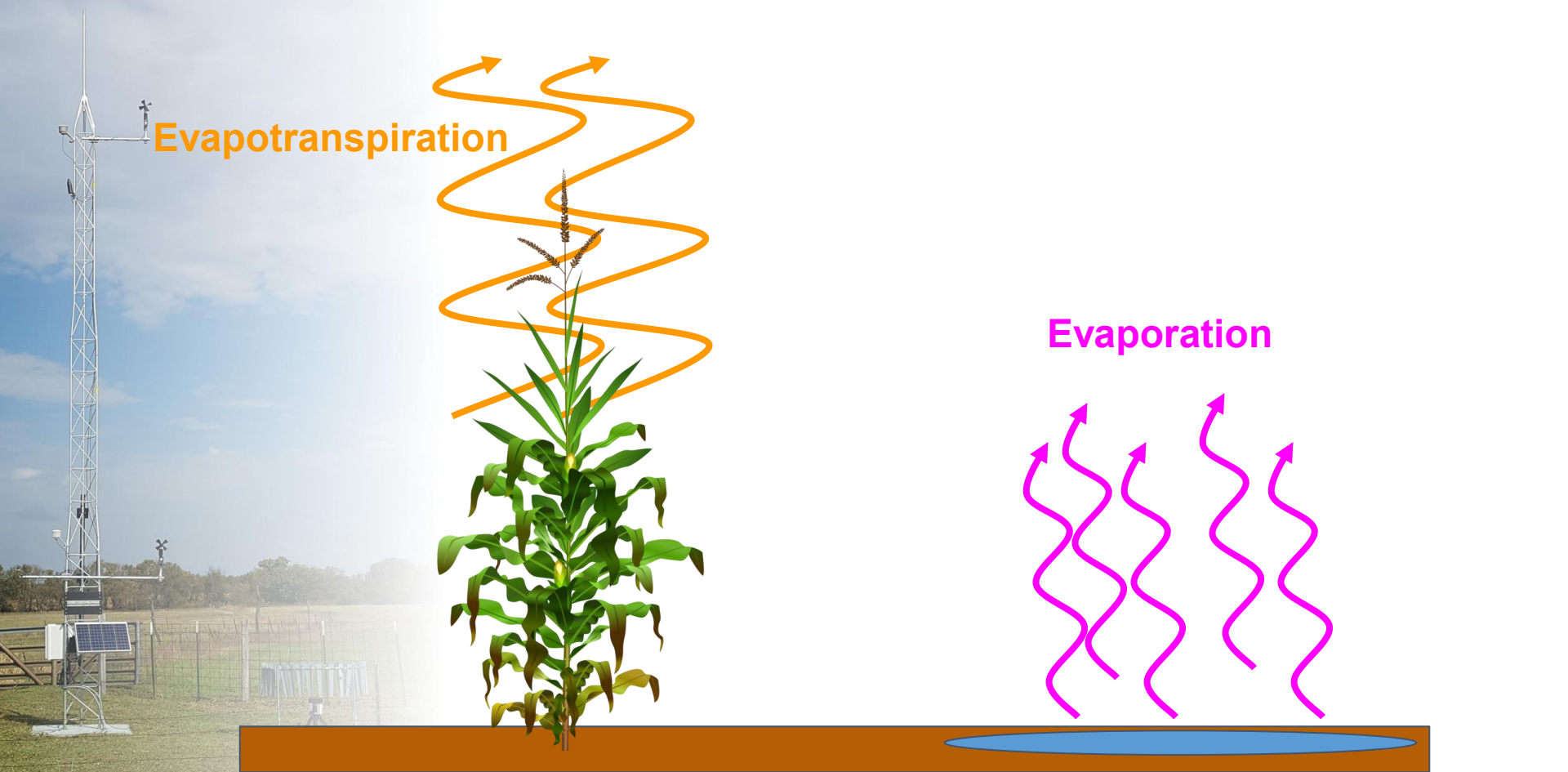






**\$3.3 million in  
Kansas Livestock  
Indemnity Claims per  
year since 2017.**



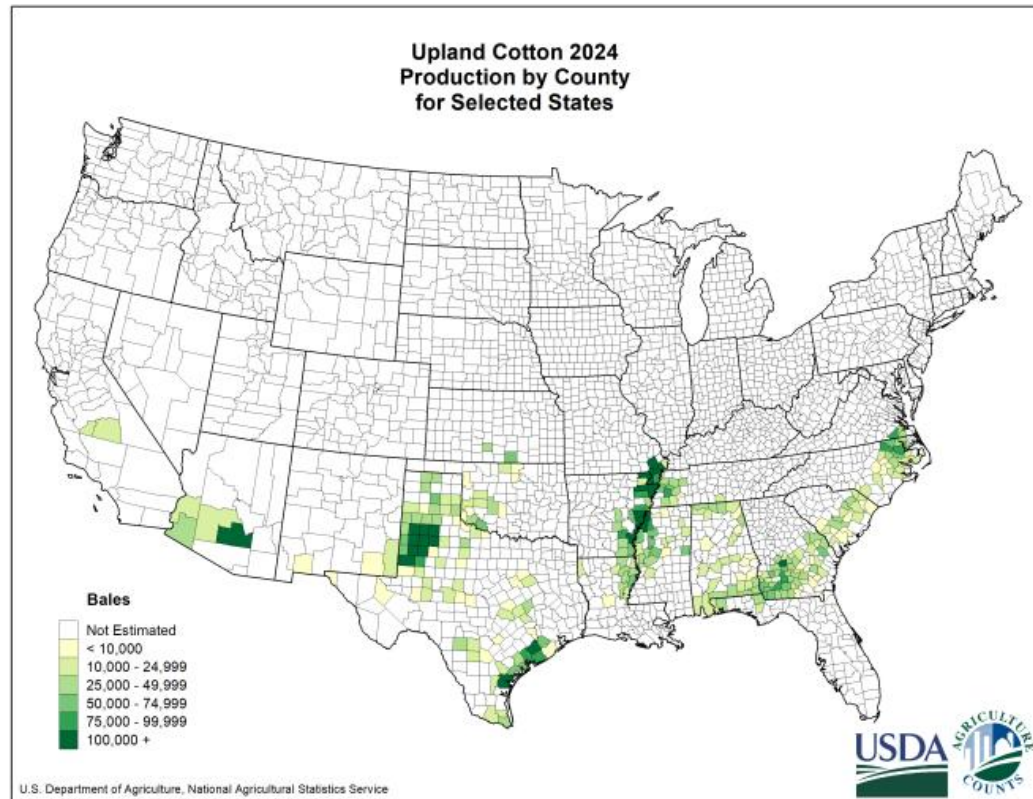


Evapotranspiration

Evaporation









This year has been wetter than normal.





Not *False* !

Kansas is running about 4" above normal statewide  
and south central Kansas is running almost 10"  
above normal!





Yes, it is **True!**

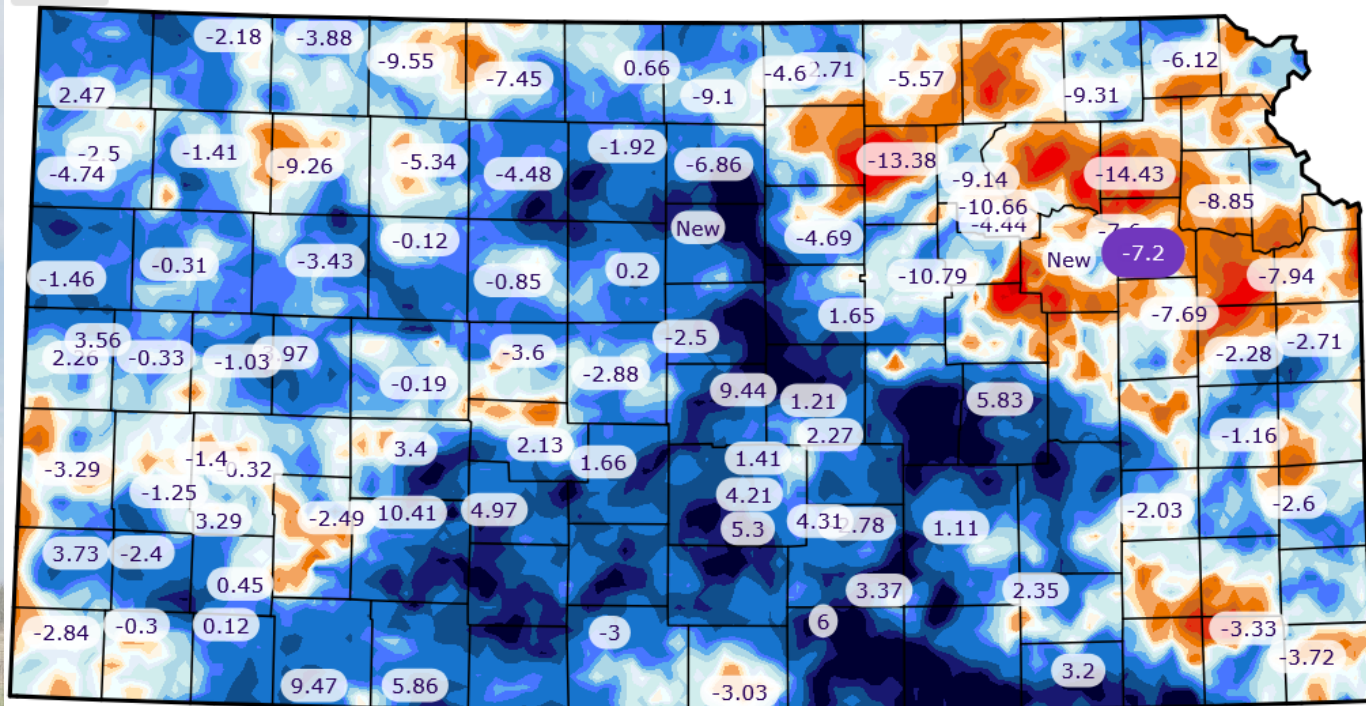
Kansas is running about 4" above normal statewide  
and south central Kansas is running almost 10"  
above normal!



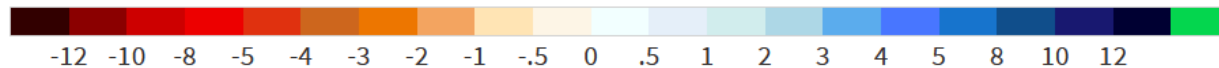


Prev

## Departure - Year To Date (Yesterday)

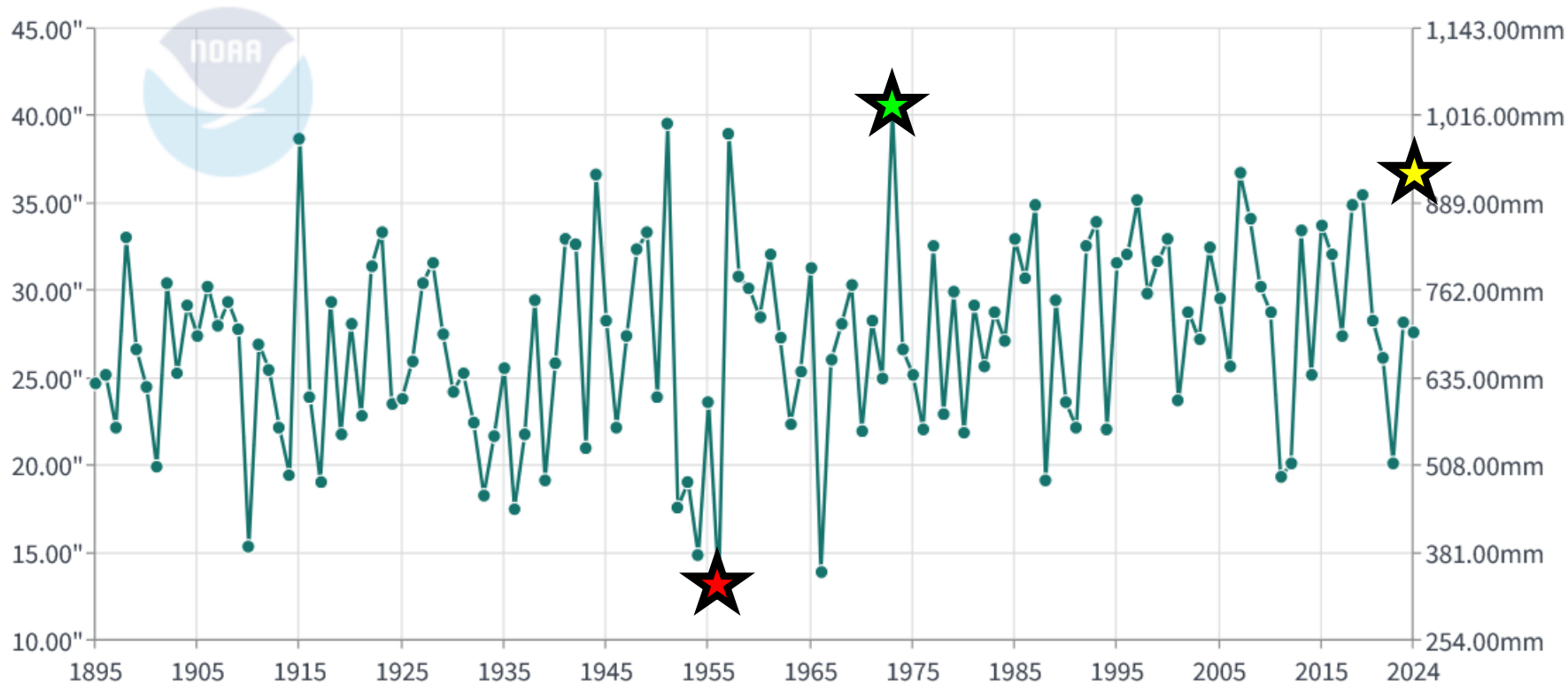


Mesonet Data - Precip (in) at Nov 17 2025 14:45 (CST)



# KS, CD 8 Precip

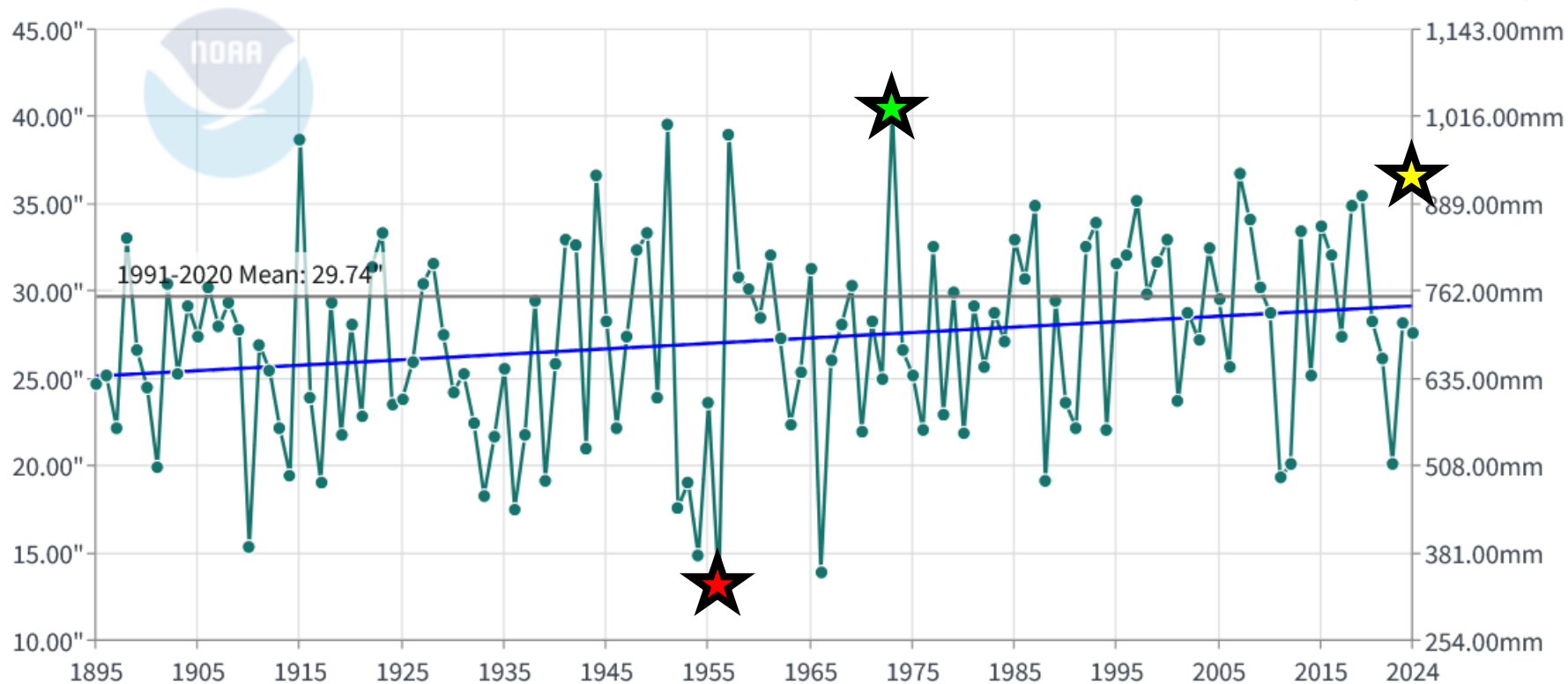
January-December



Powered by **ZingChart**

# KS, CD 8 Precip

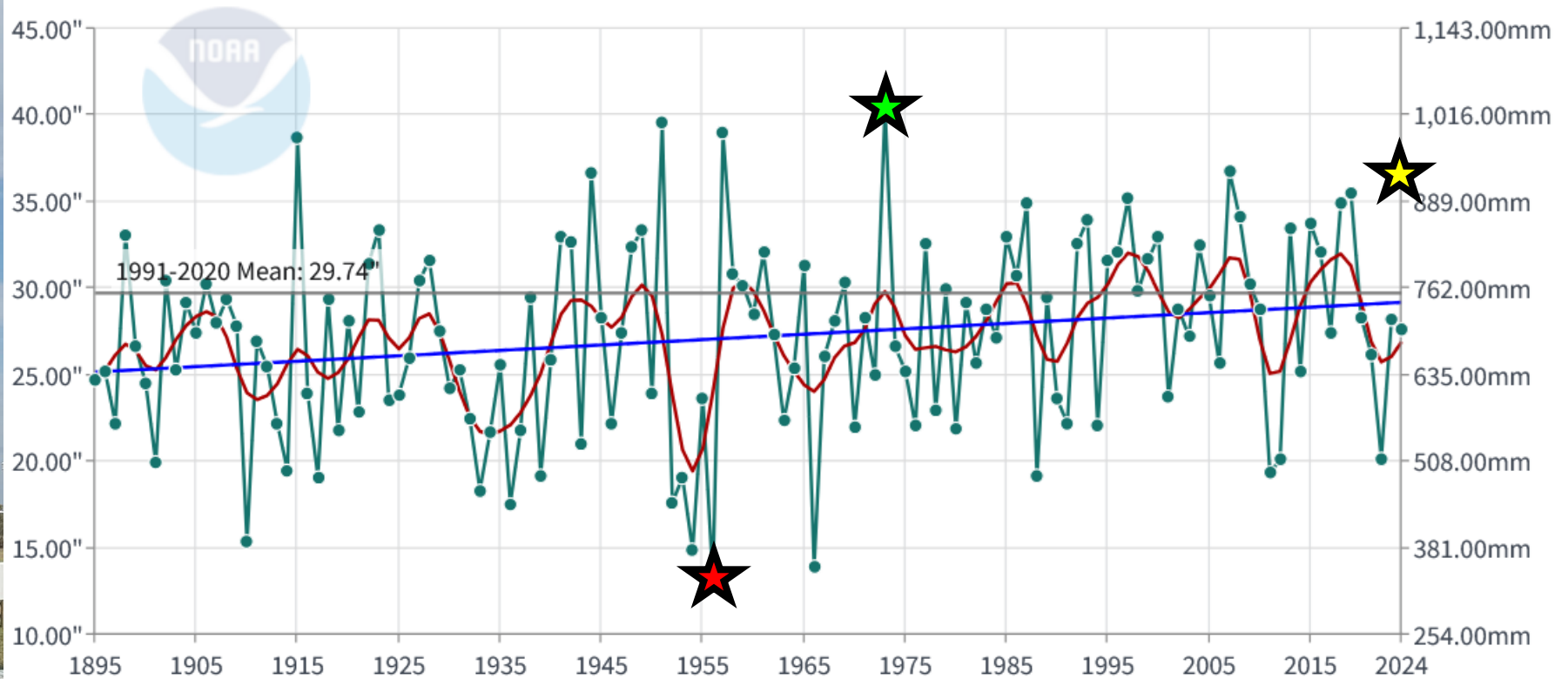
January-December



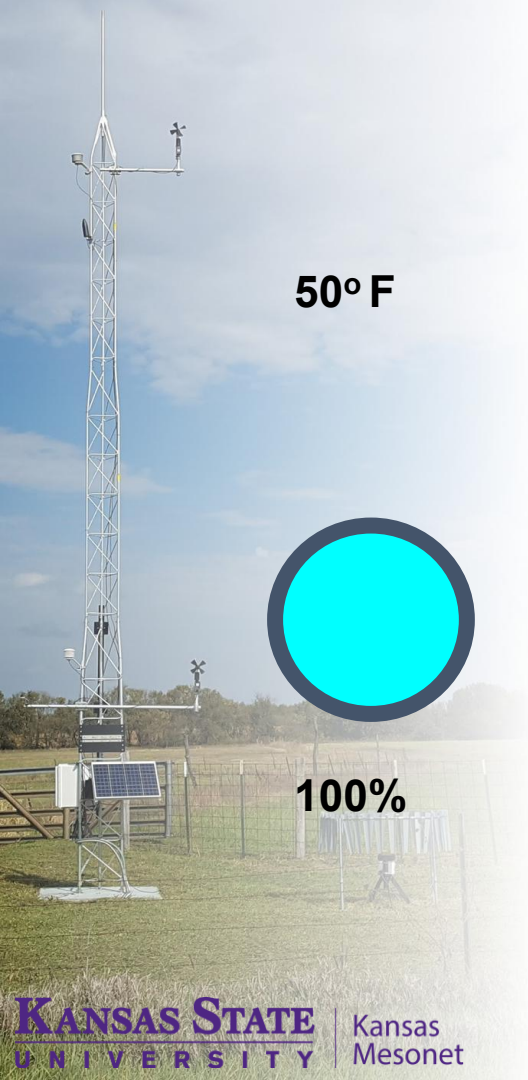
Powered by ZingChart

# KS, CD 8 Precip

January-December



Powered by ZingChart



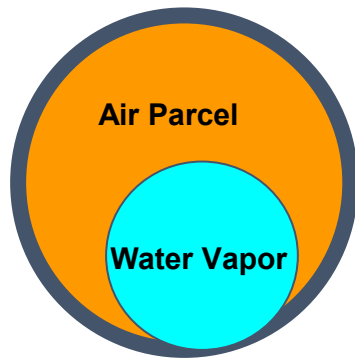
**50° F**



**100%**

**Temperature**

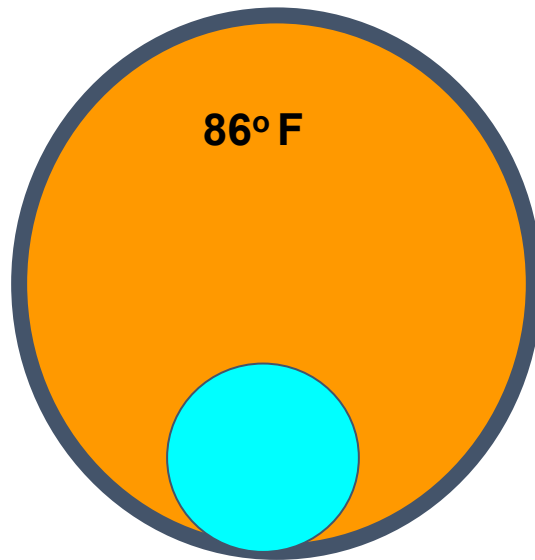
**68° F**



**52%**

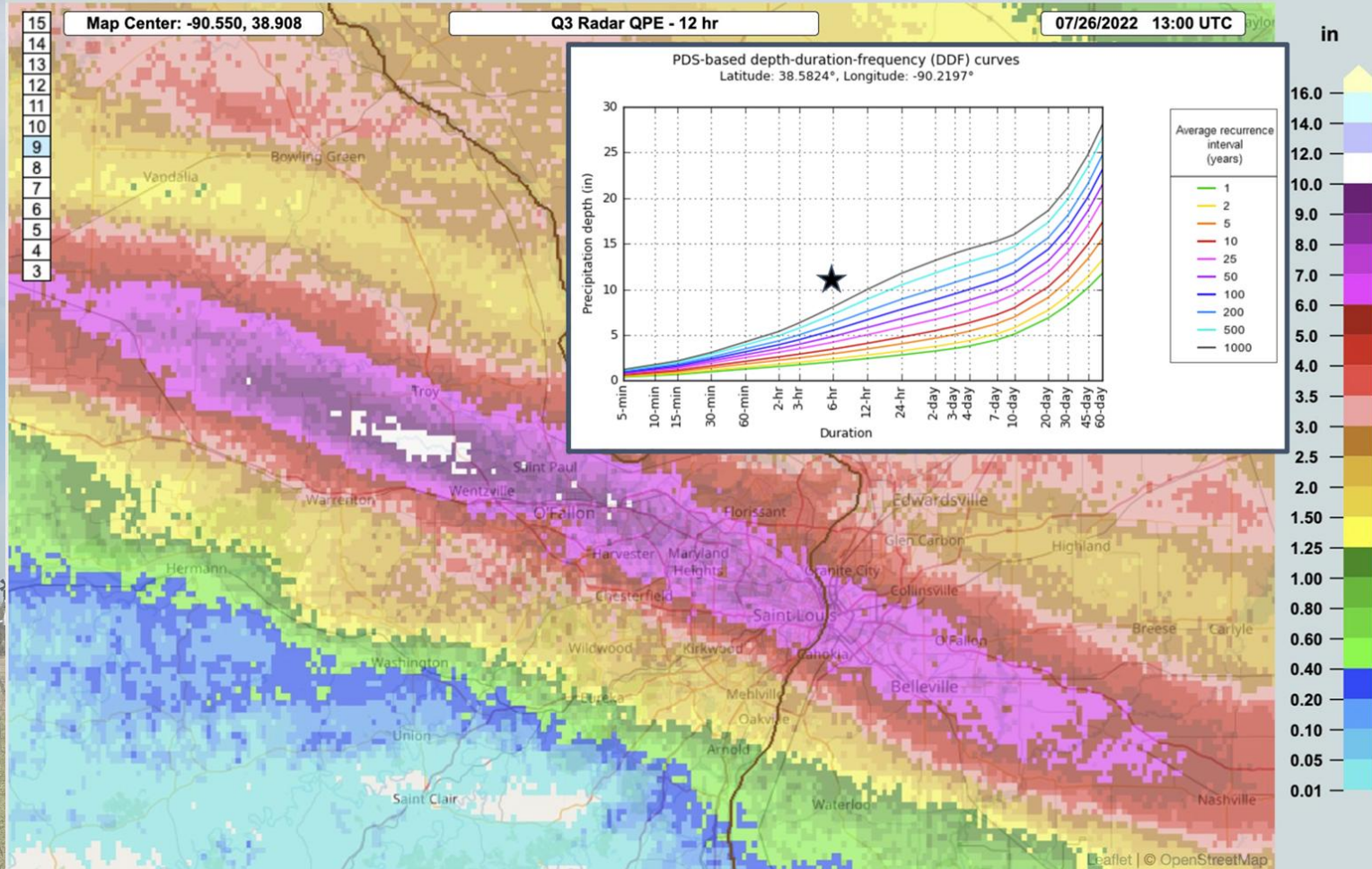
**Relative Humidity**

**86° F**



**28%**





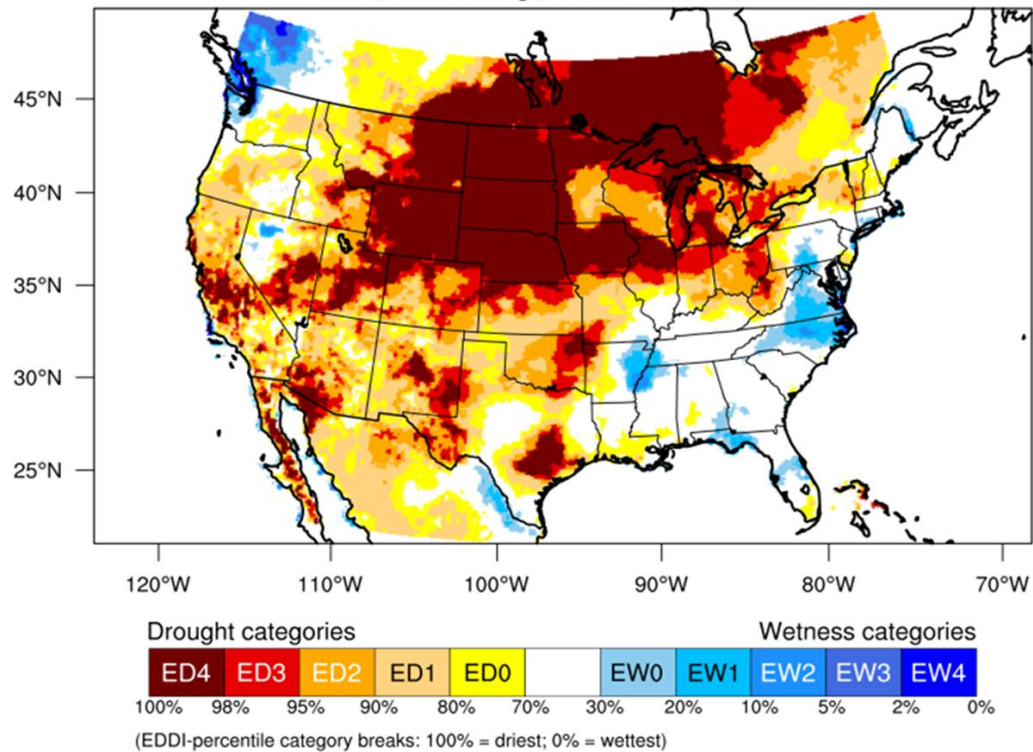




<https://medium.com/@DrDrainage/earth-day-2017-5-ways-homeowners-can-reduce-stormwater-runoff-from-their-propertyv-9b94325a4e53>

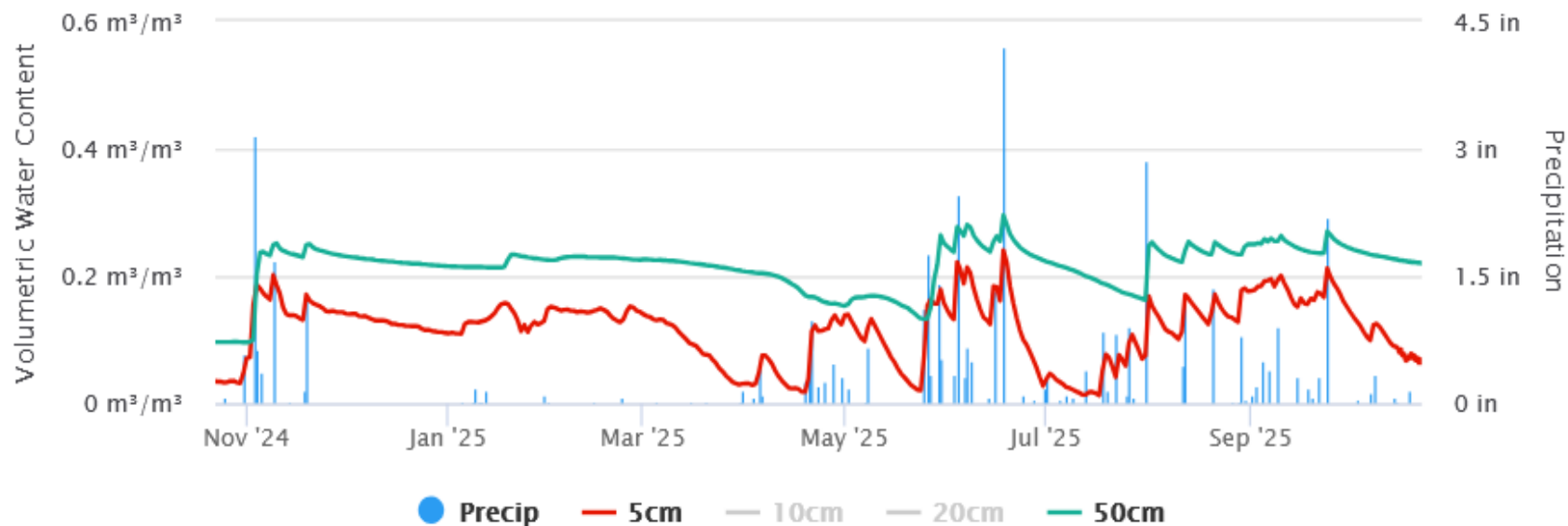


1-month EDDI categories for October 12, 2024

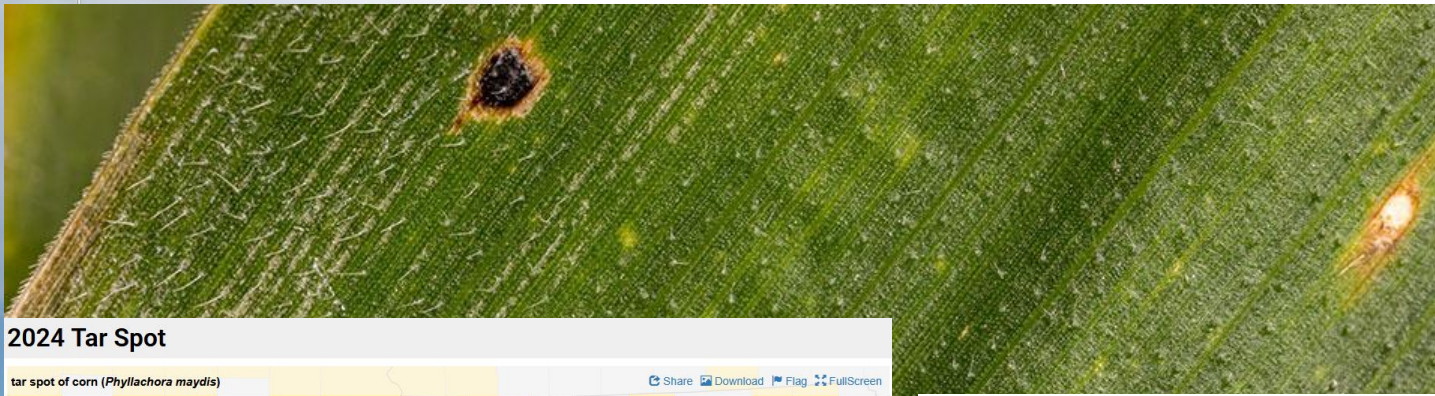


Generated by NOAA/ESRL/Physical Sciences Laboratory

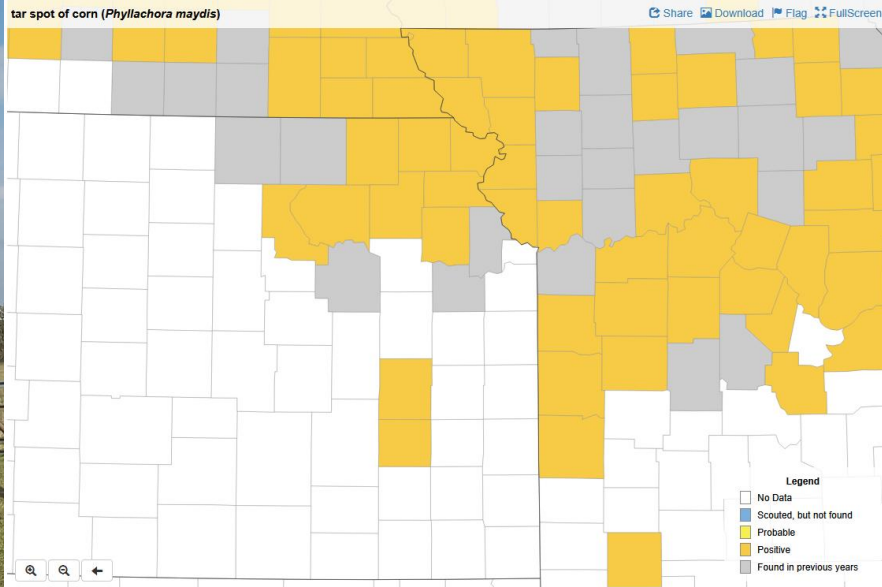
## Haysville 3SE 365 Day Soil Moisture



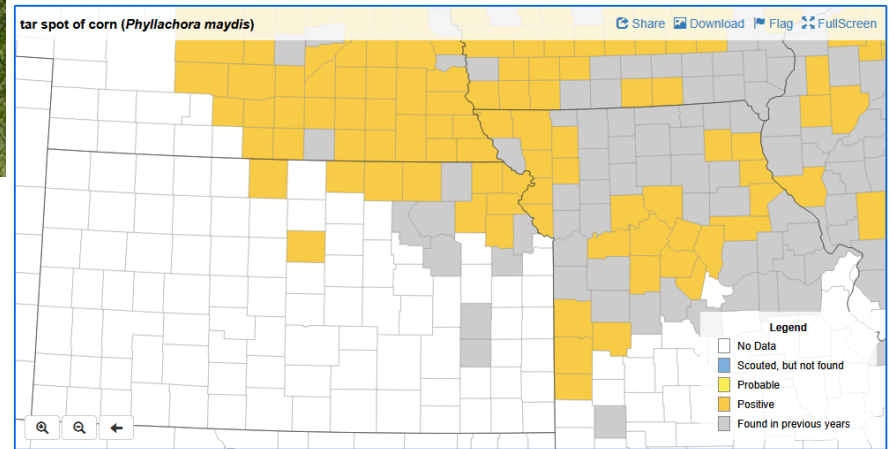




## 2024 Tar Spot



The current map displays data for 2025.







# FUSARIUM HEAD BLIGHT

## Prediction Center

**KS Commentary** last update 2019-05-07 Erick DeWolff,



Wheat in southeastern and south-central Kansas is at heading stages of development. Wheat in these areas will reach the growth stages critical for Fusarium in roughly week to 3-5 days. The model is indicating moderate or high risk of severe disease just as we head into the most vulnerable period of growth. The risk is likely to persist or increase if these regions continue to receive frequent rainfall and extended periods of high relative humidity. Growers in southeastern and south central Kansas should be monitoring situation carefully and planning to apply a fungicide if weather conditions remain favorable. Care should be taken to select an effective fungicide for management of FHB with Prosaro, Caramba and Miravis Ace being the best options. Many other fungicides are less effective or are not labeled for Fusarium suppression.

**Introduction**  
**Model Basics**  
**User Guide**  
**Fusarium**  
**Developers**  
**Login**

### 1. Choose a State

State:  [Help](#)

### 2. Choose a Model

Wheat:   ?

Susceptibility:  ?

[Link to Spring Wheat Variety Information](#)

### 3. Weather Forecast Mode

Forecast (hrs):

Assessment Date:  ?

### Advanced: Save Model and Location

Name:  [Save As New](#)

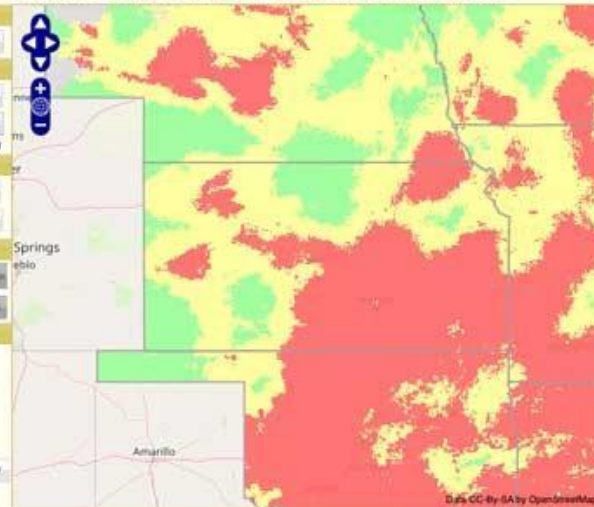
Saved Lock:  [Download](#)

### Legend

#### Blight Risk

■ High  
■ Medium  
■ Low  
■ Not Applicable  
■ No Data

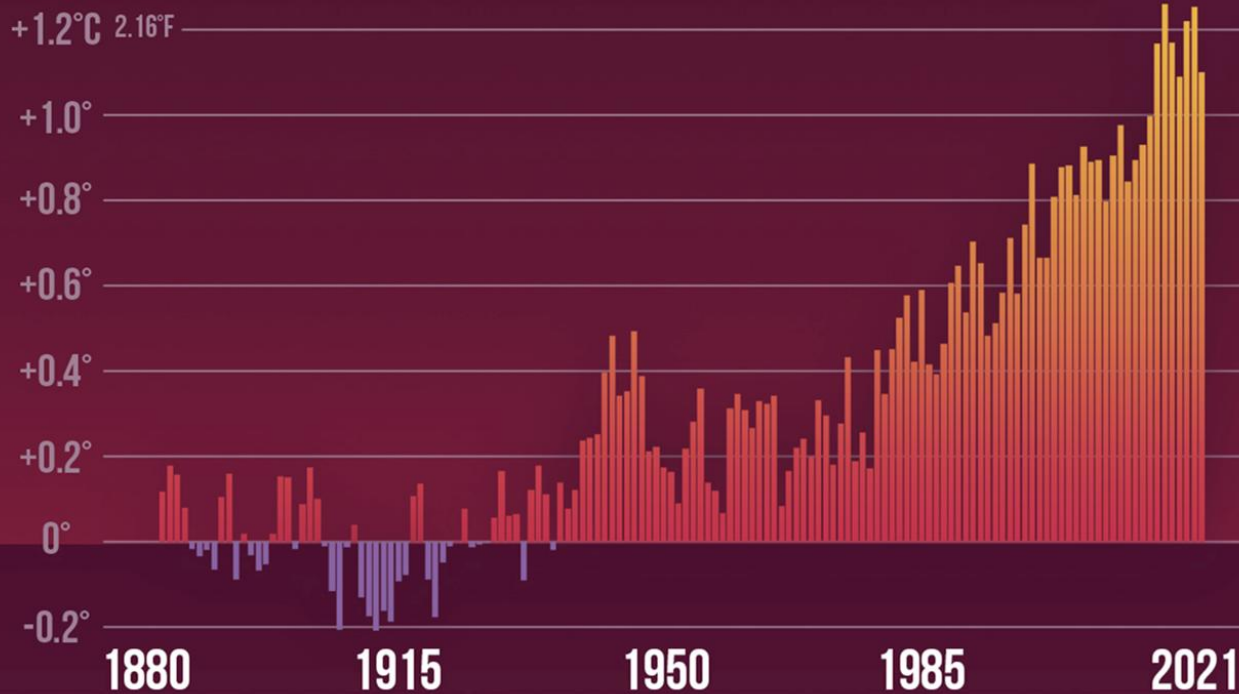
Risk Map Opacity:  [Query](#)



Disclaimer

# GLOBAL TEMPERATURE

## DEPARTURE FROM 1881-1910 AVERAGE



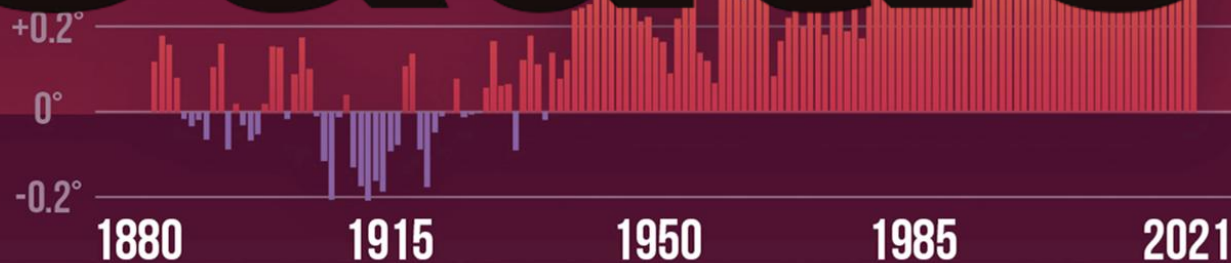
Source: NASA GISS & NOAA NCEI global temperature anomalies averaged and adjusted to early industrial baseline (1881-1910). Data as of 1/13/2022.

CLIMATE  CENTRAL

# GLOBAL TEMPERATURE DEPARTURE FROM 1881-1910 AVERAGE

+1.2°C 2.16°F

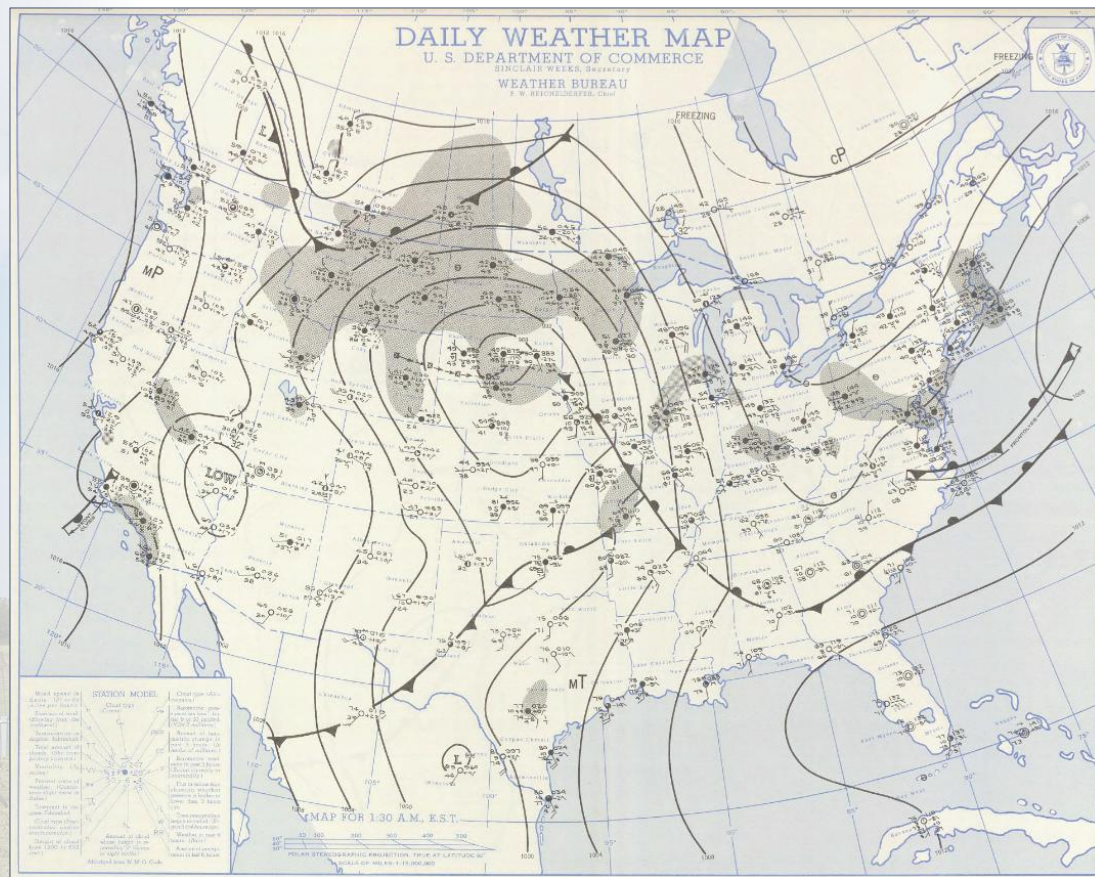
# Caution



Source: NASA GISS & NOAA NCEI global temperature anomalies averaged and adjusted to early industrial baseline (1881-1910). Data as of 1/13/2022.

CLIMATE  CENTRAL







Any weather station can be utilized for long term climate data analysis.







This is not *True*!

Weather stations for long term climate studies must meet certain location, instrumentation and metadata requirements. Many used weather stations are often influenced by bad data or siting.





Yup, it is ***False*** !

Weather stations for long term climate studies must meet certain location, instrumentation and metadata requirements. Many used weather stations are often influenced by bad data or siting.







1932-01-01 to 1992-12-01

39°04'N, 095°38'W (DDMM)

6

LAT/LON SOURCE: UNKNOWN

HORIZ. DATUM: UNKNOWN

### Description

BILLARD FIELD AIRPORT OUTSIDE AND 4.0 MI ENE OF PO AT TOPEKA, KS

### Topography

NEARLY FLAT TERRAIN. MODERATE TREE COVERAGE DUE TO CLOSE PROXIMITY TO AIRPORT

2021-11-22 to Present

39.07246, -95.62602 (DDddddd)

1

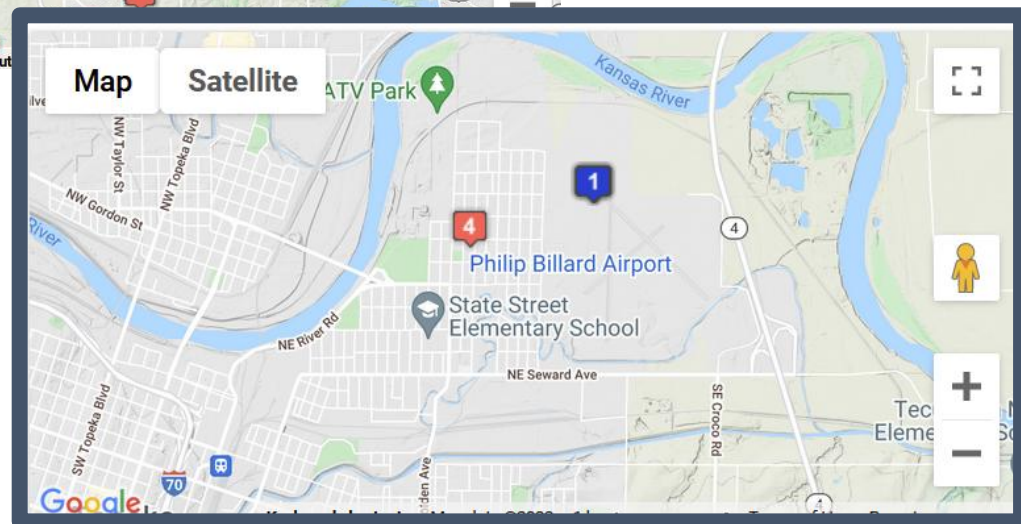
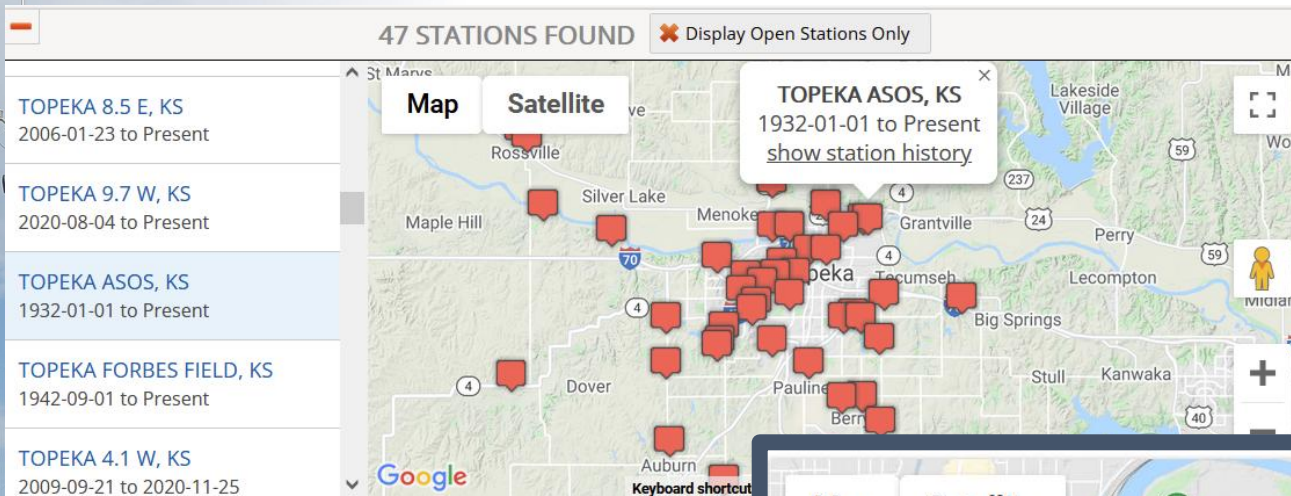
LAT/LON SOURCE: ASOS CM

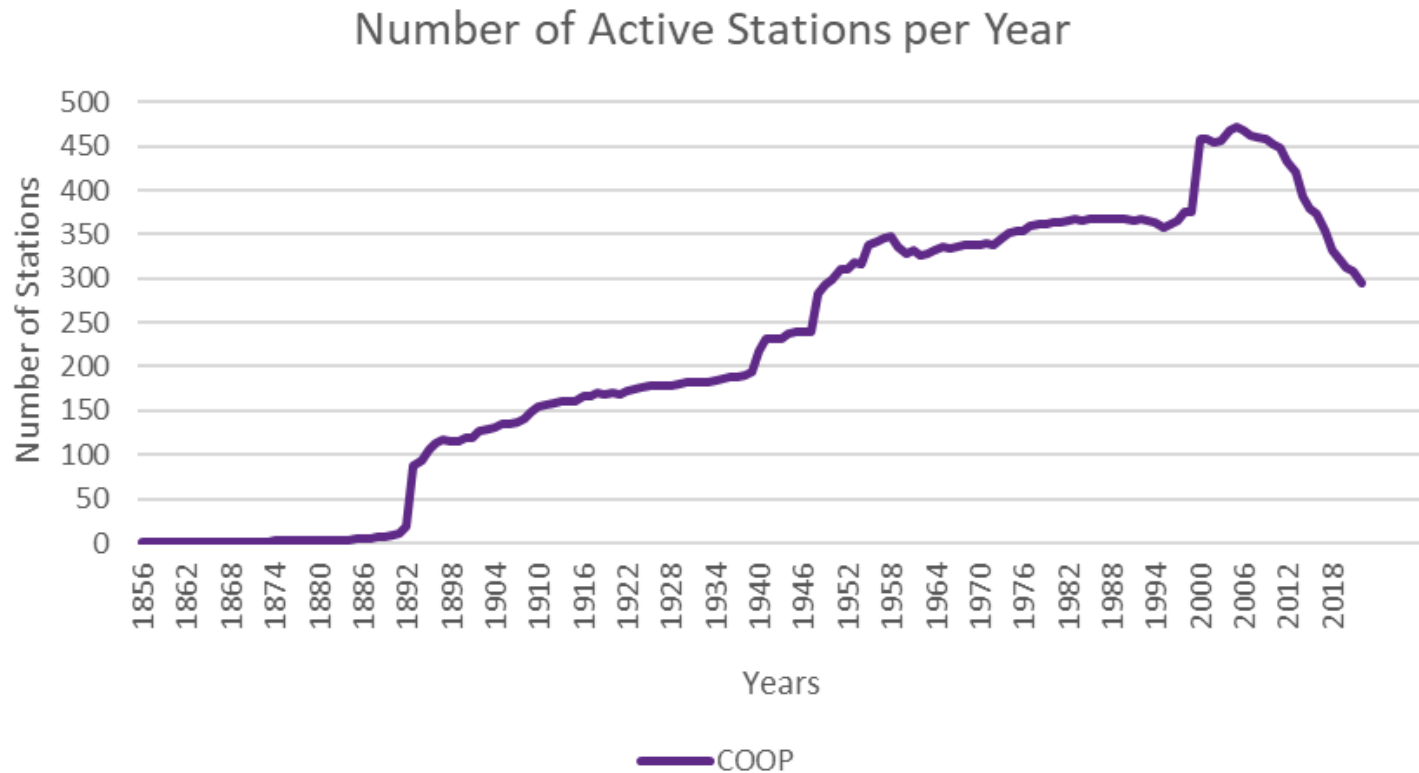
HORIZ. DATUM: WGS84

### Topography

NEARLY FLAT AGRICULTURAL LAND. MIXTURE OF CORN AND SOYBEAN CROPS ON AIRFIELD. 30' WIDE TAXIWAY RUNS NW-SE APPROXIMATELY 40 FEET FROM DCP. DCP IS LOCATED ON A 30' X 50' PATCH OF GRAVEL AND DIRT

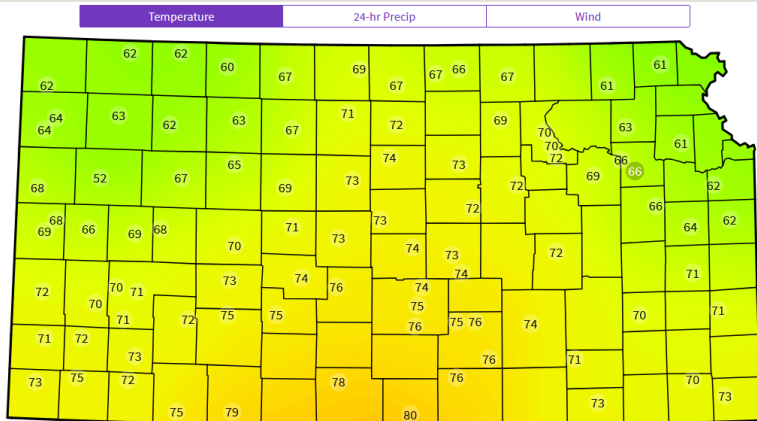






## Silver Lake 4E

Temperature	66 °F
Dewpoint	43 °F
Humidity	43%
24-hr Precip	0 inches
Wind	ESE at 11 mph
Pressure	1004.1 mb ↓
Last Observed	4:05 PM CST













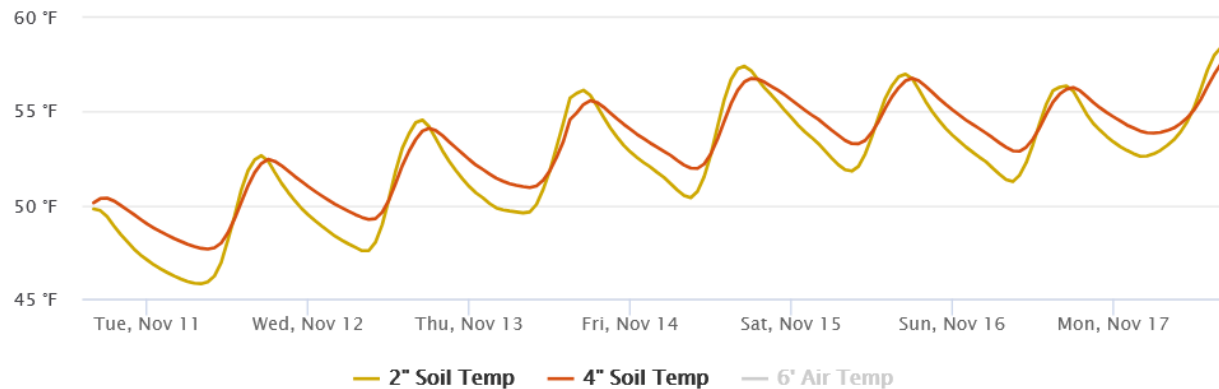




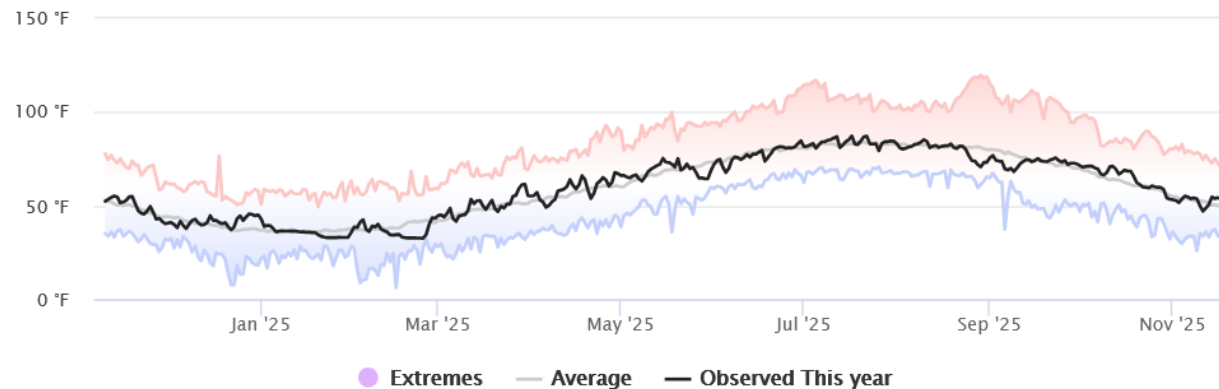




### Hutchinson 10SW 7 Day Soil Temps



### Hutchinson 10SW – 2" Soil Temps (1987 – 2021)



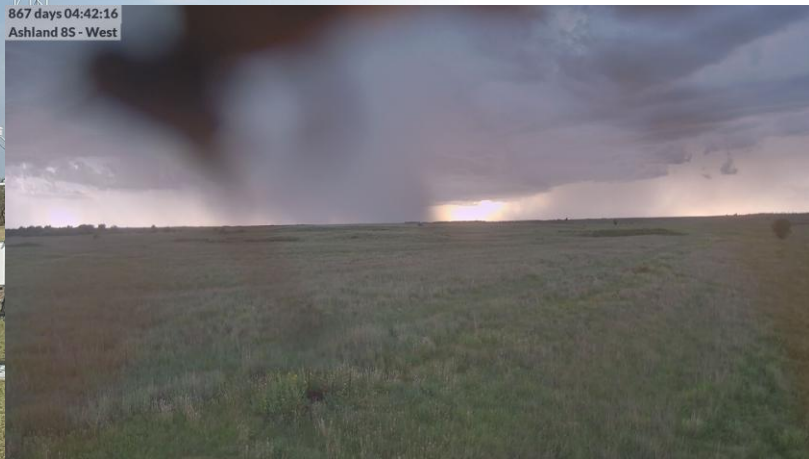




176 days 17:59:54  
Mayetta6W



867 days 04:42:16  
Ashland 8S - West



15 days 02:06:55  
Cheyenne - West



68 days 10:34:15  
RussellSprings3SW - West





294 days 21:09:02  
Ottawa 2SE



**WFLA Jeff Berardelli** is in Tampa, FL.  
1d · 🌐

**Here Comes the Polar Vortex!!**  
Can't stop. Won't stop.  
The models keep insisting on historic cold as the huge  
pays the Eastern US a visit! A pool of record breaking

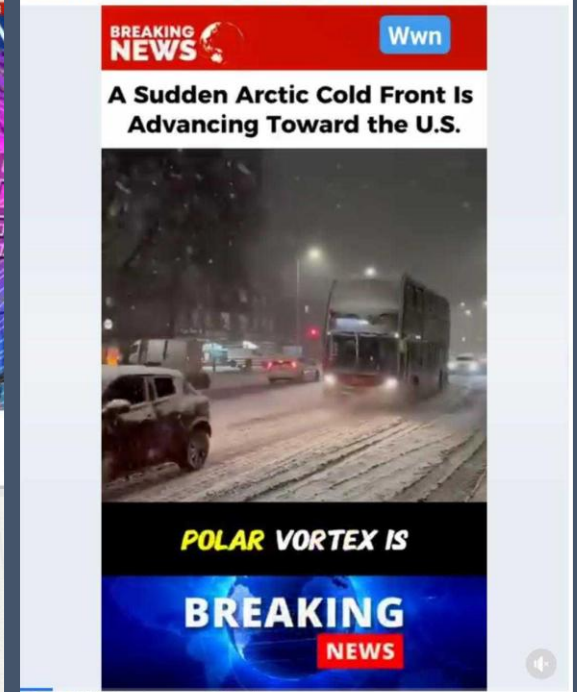


👍 331    💬 26

Ollo Robson and 330 others

**WWN**  
Reels · 1d · 🌐

**America Is About to Freeze — The Polar Vortex Has Begun** #weather #snowstorm #usa 🇺🇸 #news #breakingnewsUsa WWN  
America Is About to Freeze — The Polar Vortex Has Begun #weather #snowstorm #usa 🇺🇸 #news #breakingnewsUsa WWN



👍 19    💬 1    ➦ 11

Christine Brown and 18 others

**Meteorologist Chris Nunley** ✓  
15h · 🌐

...dance continues to show the Canadian Polar Vortex dropping into the Great  
es next week, sending Arctic air to areas east of the Rockies. Historic cold -  
the time of year - is likely for eastern parts of the country. This ... See more



👍 284    💬 16    ➦ 94

Joseph Walma and 283 others





# 2025-26 WINTER OUTLOOK

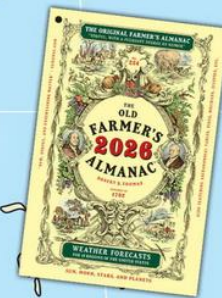
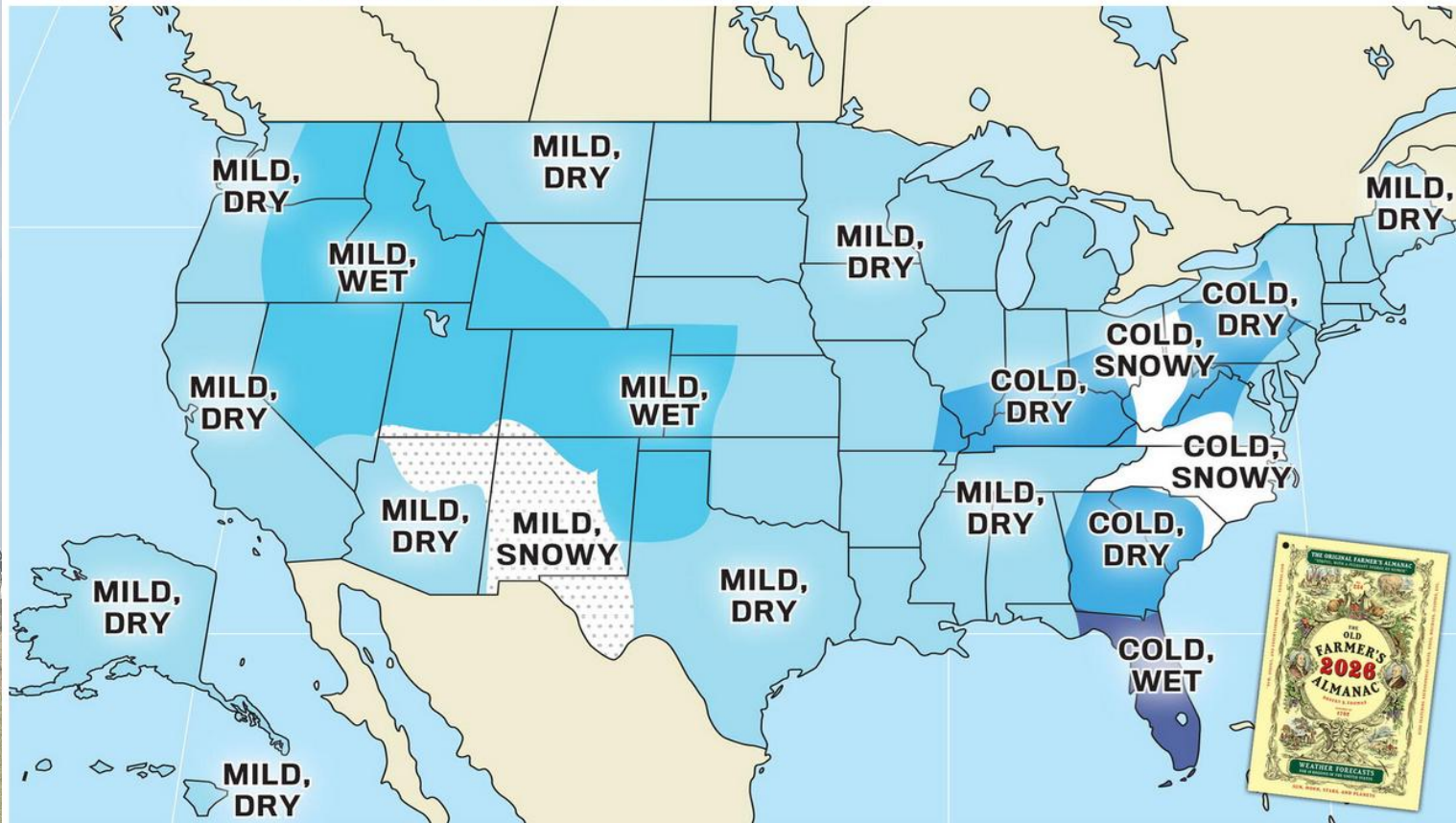
*Chill Snow Repeat*



**CHILL  
SNOW**  
Repeat

**FARMERS'  
ALMANAC**  
SINCE 1818

## 2025-2026 U.S. Winter Weather Forecast

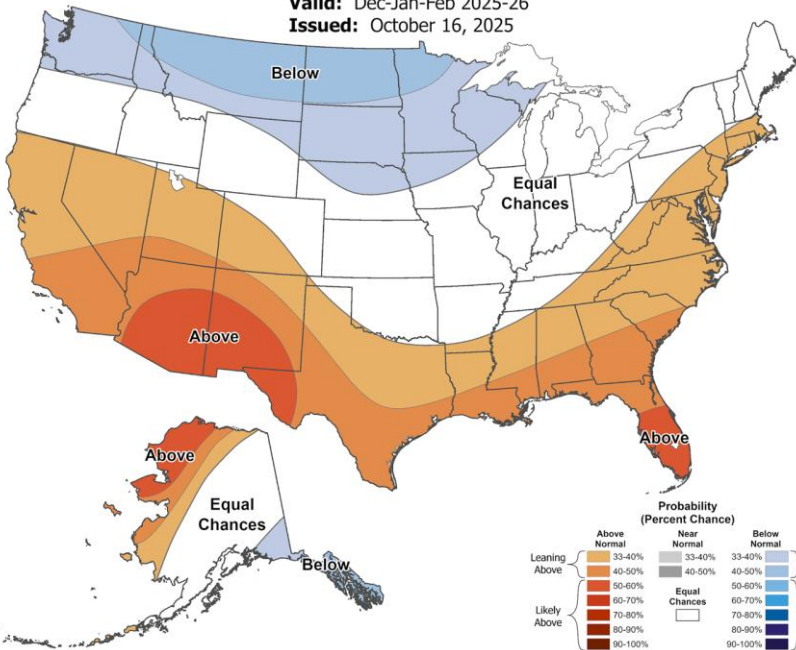




## Seasonal Temperature Outlook

Valid: Dec-Jan-Feb 2025-26

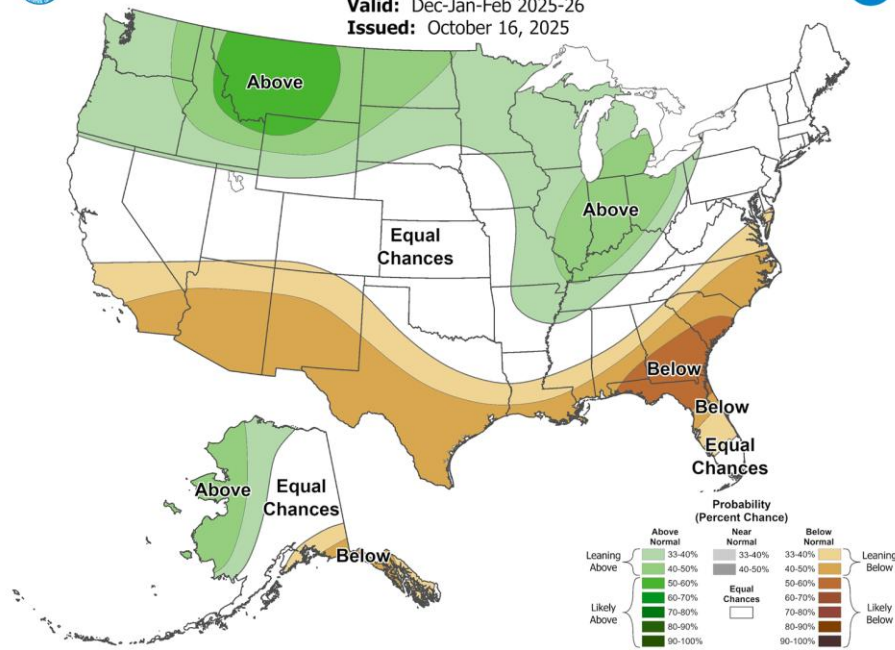
Issued: October 16, 2025



## Seasonal Precipitation Outlook

Valid: Dec-Jan-Feb 2025-26

Issued: October 16, 2025



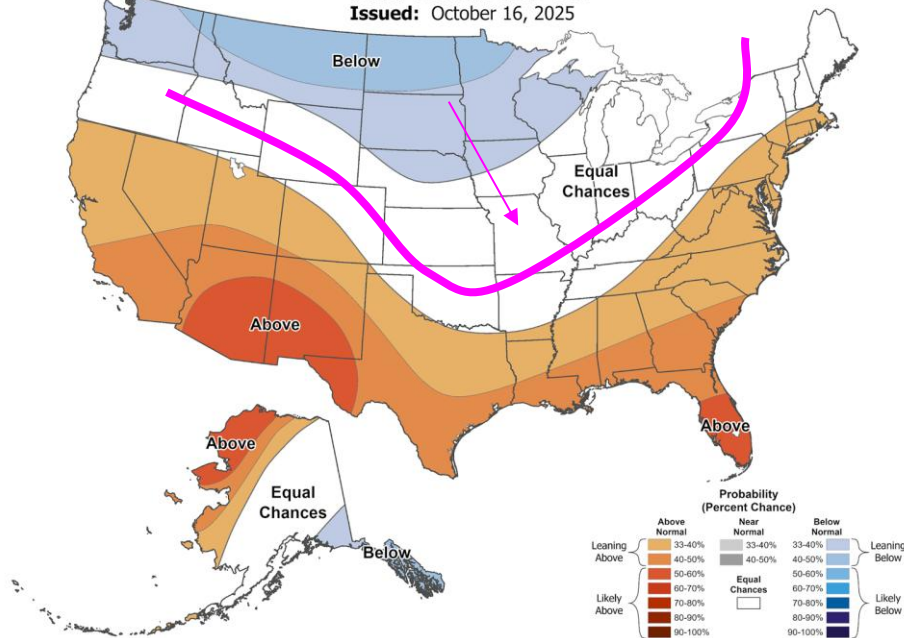




## Seasonal Temperature Outlook

Valid: Dec-Jan-Feb 2025-26

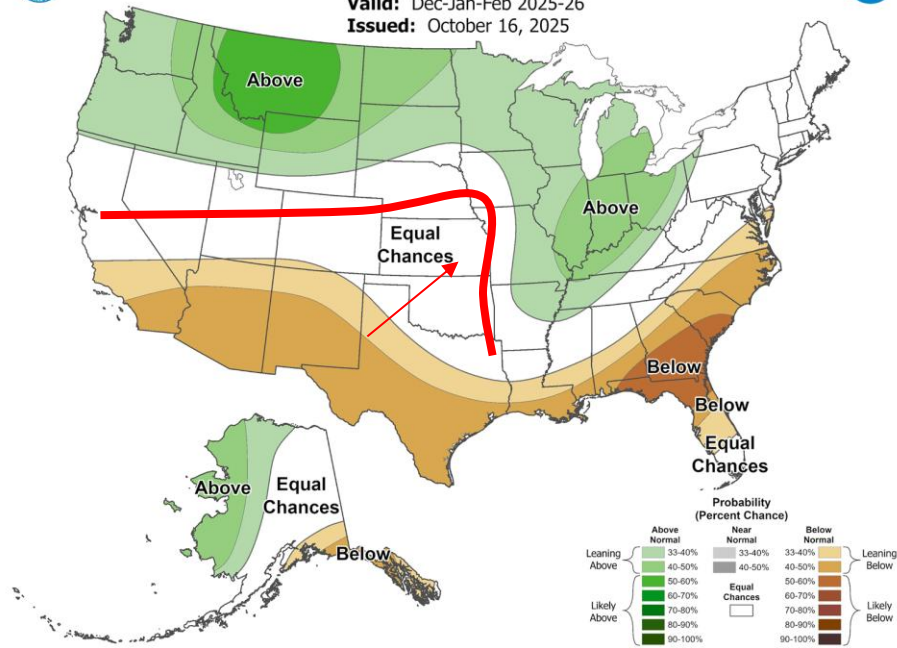
Issued: October 16, 2025



## Seasonal Precipitation Outlook

Valid: Dec-Jan-Feb 2025-26

Issued: October 16, 2025









# Resources

- CPC Forecasts

<https://www.cpc.ncep.noaa.gov/>

- Historical climate data - NCEI Climate at a Glance

[www.ncei.noaa.gov/access/monitoring/climate-at-a-glance/](http://www.ncei.noaa.gov/access/monitoring/climate-at-a-glance/)

- Fancy 2000's word art

<https://www.makewordart.com/>



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