



# Denver Monthly Climate Summary

## August, 2024

NWS Boulder



**NATIONAL WEATHER SERVICE**  
OCEANIC AND ATMOSPHERIC ADMINISTRATION

Issued: 9/3/2024



# Monthly Overview

## 2nd Warmest Summer (June through August) for Denver

Denver experienced it's 3rd consecutive hot and dry month in August as a large upper level ridge of high pressure dominated the Rocky Mountain Region for much of the month.

Most of North Central and Northeastern Colorado received above normal precipitation during the month due to periods of monsoonal moisture and occasional cold fronts. Many locations across the far eastern plains and Palmer Divide received over 3 inches of rain with over 6 inches across portions of Sedgwick and Phillips Counties. However, Metro Denver managed to miss out on most of the precipitation with the majority of the area only receiving between 0.50" and 1.50" of rain for the month.

As for temperatures, the month started out very hot with max readings rising above 90 degrees the first week of the month and exceeding the century mark on the 2nd and the 4th. A strong cold front brought much cooler temperatures to areas east of the mountains on the 8th and the 9th with max temperatures only climbing in the 60s and 70s with even some 50s across the far northeastern plains. Warmer temperatures returned on the 10th, with 17 out of the last 20 days, of the month having above normal temperatures. This ended up being the 2nd Warmest Summer for Denver since 1872.



A bolt of Lightning bolt hits the Flatirons near Boulder, CO. on the afternoon of August 13th. Photo taken by NWS Boulder

### Weather History: August 1875

Grasshoppers appeared in great numbers at 10:00 AM on the 19th and continued through the 30th. Thousands landed on the ground. The streets were literally covered with them. Swarms of grasshoppers were seen on each day. All gardens in the city were devastated, and in the countryside the grasshoppers were very destructive to ripened grain. On the 30th the grasshoppers were so numerous as to almost darken the sun.





# Monthly Temperature Data (August)

- Temperatures were above normal in Denver this month. Denver's mean temperature was 75.6°F, which is 2.7°F above normal.
- The highest temperature for the month was 102°F on the 4th, and the lowest temperature was 50°F which occurred on the 30th.
- A record high temperature of 102 degrees was set on the 4th with the record high of 98 degrees tied on the 17th.

Temperature	Observed	Normal	Departure
Average High	90.6	87.5	<b>+3.1</b>
Average Low	60.6	58.3	<b>+2.3</b>
Average Mean	75.6	72.9	<b>+2.7</b>

## Temperature Records set this Month:

Date	Type	Observed	Previous Record (Year)
08/04/2024	Max Temperature	102°	2022
08/17/2024	Max Temperature	98°	2020





# Monthly Precipitation/Snowfall (August)

- Precipitation for August 2024 was only 0.92" which is 0,66 inches below normal of 1.58".
- No snow was observed, which is the normal August snowfall
- No precipitation records were observed this month

Precipitation	Observed	Normal	Departure
Total Precipitation	0.92"	1.58"	-0.66"
# of Days w/ Measurable	9	7	+2

Snowfall	Observed	Normal	Departure
Total Snowfall	0.0"	0.0"	0.0"

### Precipitation Records set this Month:

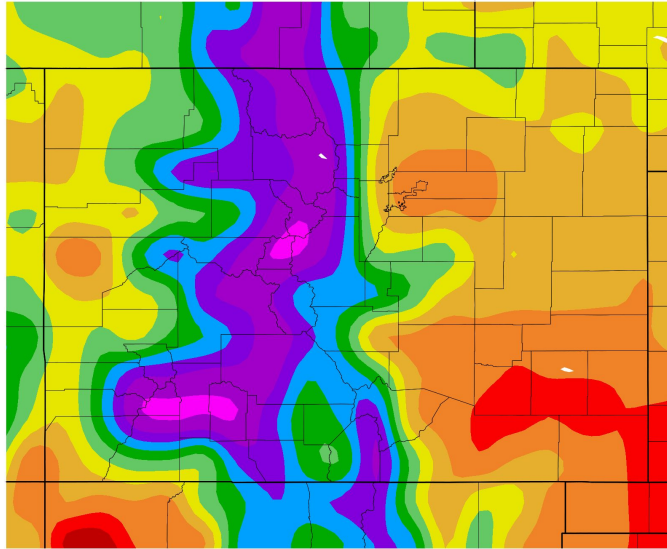
Date	Type	Observed	Previous Record (Year)
No Records Set this Month			





# Statewide Temperature August 2024

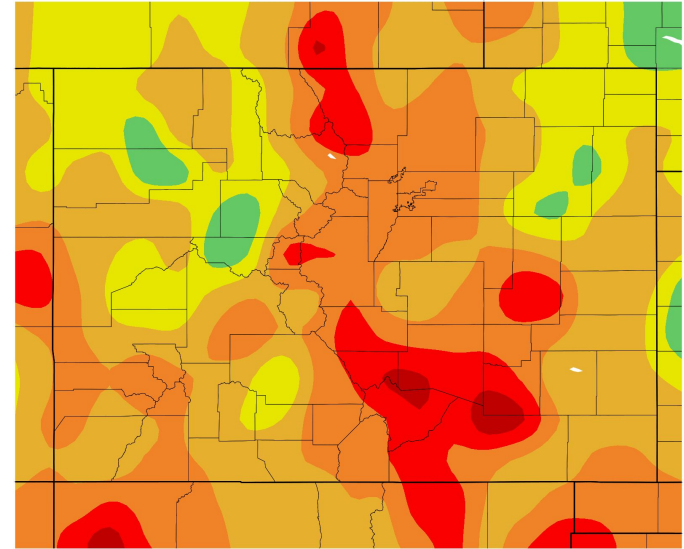
Temperature (F)  
8/1/2024 - 8/31/2024



Generated 9/1/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

Departure from Normal Temperature (F)  
8/1/2024 - 8/31/2024



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# Top 10 Hi/Low Temperature Years

Average Temperatures for the Month of August (Records since 1872)

## Top Ten Warmest

Rank	Temperature (°F)	Year(s)
1	77.0	2020
	77.0	2011
3	76.8	1937
4	76.1	2022
<b>5</b>	<b>75.6</b>	<b>2024</b>
6	75.4	2021
	75.4	2019
	75.4	2007
9	75.3	1995
10	75.0	2012

## Top Ten Coldest

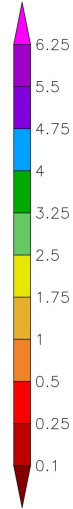
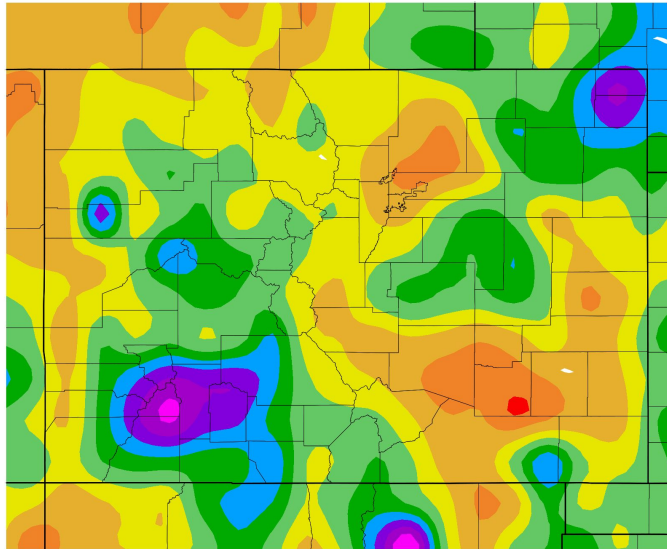
Rank	Temperature (°F)	Year(s)
1	66.5	1915
2	66.6	1927
3	67.7	1920
4	67.8	1884
5	68.0	1888
6	68.1	1968
7	68.2	2004
	68.2	1967
9	68.4	1992
10	68.4	1923, 1917



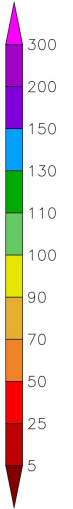
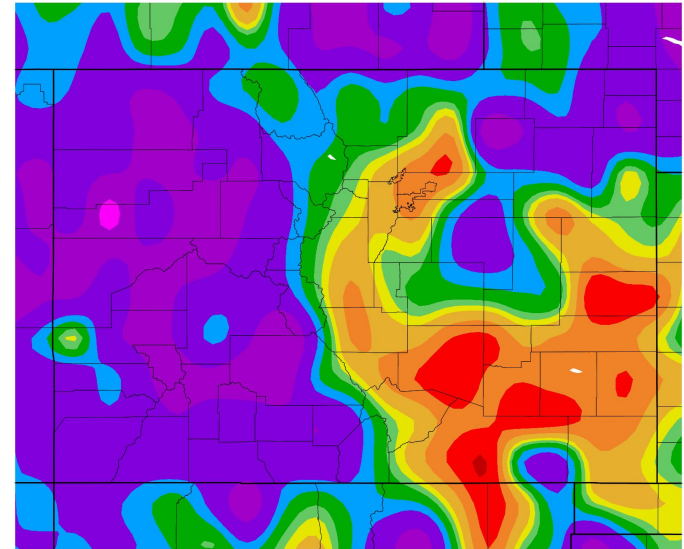


# Statewide Precipitation August 2024

Precipitation (in)  
8/1/2024 - 8/31/2024



Percent of Normal Precipitation (%)  
8/1/2024 - 8/31/2024



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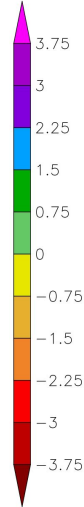
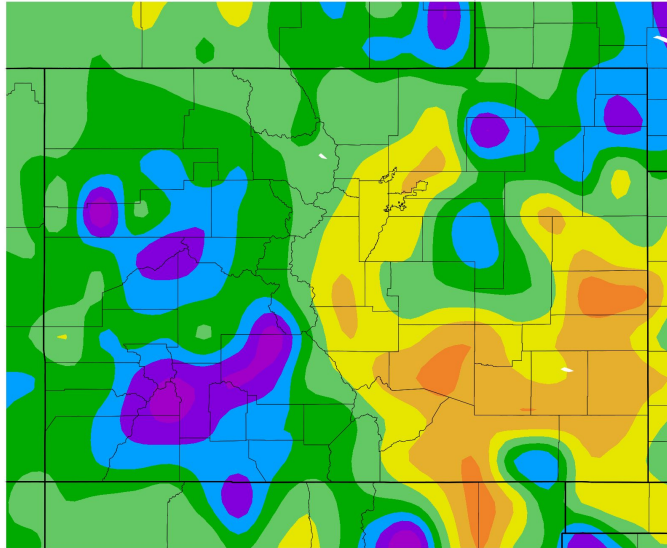
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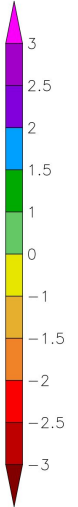
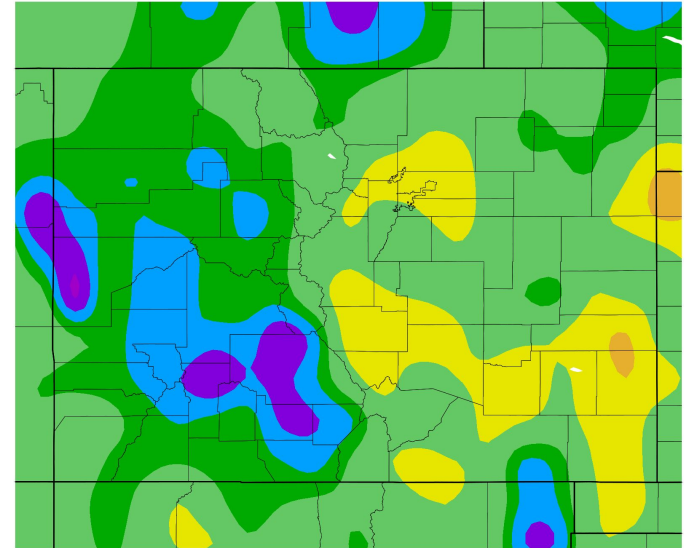


# Statewide Precipitation August 2024

Departure from Normal Precipitation (in)  
8/1/2024 – 8/31/2024



Monthly SPI  
8/1/2024 – 8/31/2024



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# Top 10 Hi/Low Precipitation Years

Precipitation during the month of August (Records since 1872)

## Top Ten **Wettest**

Rank	Precipitation (in.)	Year(s)
1	5.85"	1979
2	4.47"	1951
3	4.03"	2008
4	3.87"	1923
5	3.69"	1991
6	3.52"	1997
7	3.49"	1921
8	3.22"	1999
9	3.20"	1936
10	3.19"	1984

## Top Ten **Driest**

Rank	Precipitation (in.)	Year(s)
1	0.02"	1924
2	0.05"	1917
3	0.05"	1900
4	0.06"	1960
5	0.11"	2012
6	0.16"	1974
7	0.19"	1948
8	0.22"	2016
9	0.23"	1907
10	0.25"	1959





# Top 10 Hi/Low Snowfall Years

Snowfall during the month of August (Records since 1882)

**No Snow has been observed at Denver in the month of August**



National Oceanic and  
Atmospheric Administration

U.S. Department of Commerce

National Weather Service  
Denver/Boulder, CO