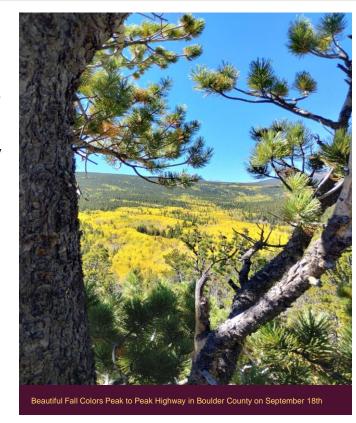




## Monthly Overview

#### September 2024 Hottest September on Record

Upper level high pressure dominated North Central and Northeastern Colorado for much of September. As a result, Denver experienced it's 4th consecutive month with above normal temperatures and below normal precipitation. Temperatures the first seventeen out of eighteen days were above normal with seven days during this stretch reaching or exceeding 90 degrees. In addition, this period was quite dry with only two days of measurable precipitation. Overall, the month was benign with the exception of a couple of events. The first was a line of showers and storms that moved across the state on the 17th. The storms produced wind gusts of 60 to 70 mph across portions of Colorado, mainly across the Palmer Divide and far eastern plains. Denver managed to miss the brunt of this activity with mainly some gusty light showers and storms during the mid afternoon. The second event was a closed upper low pressure system that tracked from the Four Corners Region across Colorado on the 21st and 22nd. This system brought beneficial precipitation to much of the state along with some light snowfall across the higher mountains. Most areas across North Central and Northeastern Colorado measured between 0.25" and 1.00" of rain with little to no rain across the far northern and northeastern sections of the plains. Denver International Airport measured 0.93" from this storm, which is the most precipitation seen in a two day period since April 27th, 2024 when 1.50" fell. In addition, much cooler temperatures accompanied this storm resulting in a daytime high of 61 degrees on the 22nd. The month ended up on a very warm note with temperatures ranging between 9 and 15 degrees above normal from the the 25th through the 30th.





## Monthly Temperature Data (September)

- → Denver's mean temperature was 70.0°F, which is 5.2°F above normal. This makes September 2024 the warmest September in Denver Weather History going back to 1872.
- → There were nine days in which the temperature reached or exceeded 90 degrees.
- → The highest temperature for the month was 94°F on the 3rd, and the lowest temperature was 44°F which occurred on the 19th.

Temperature	Observed	Normal	Departure
Average High	85.5	79.6	5.9
Average Low	54.5	50.0	4.5
Average Mean	70.0	64.8	5.2

Temperature Records Set or Equaled this Month:

Date	Туре	Observed	Previous Record (Year)
09/26/2024	Max Temperature	93°	2010
_ 09/27/2024 	High Min Temperature	60°	2001
_ 09/29/2024	Max Temperature	92°	1892



- 09/29/2024 High Min Temperature 61° National Weather Service Denver/Boulder, CO



### Monthly Precipitation/Snowfall (September)

- → Precipitation was slightly below normal in Denver this month
- → No snow was observed, which is 0.8" below the normal September snowfall
- → No precipitation records were observed this month

Precipitation	Observed	Normal	Departure
Total Precipitation	1.24"	1.35"	-0.11"
# of Days w/ Measurable	4	5	-1

Snowfall	Observed	Normal	Departure
Total Snowfall	0.0"	0.8"	-0.8"

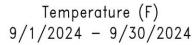
#### Precipitation Records set this Month:

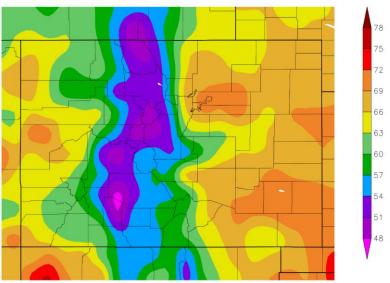
Date	Туре	Observed	Previous Record (Year)
No Records Set this Month			



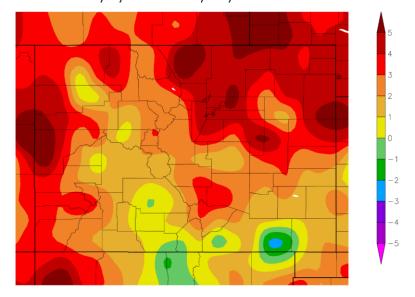


# Statewide Temperature September 2024





Departure from Normal Temperature (F) 9/1/2024 - 9/30/2024



Generated 10/1/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

Generated 10/1/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers





# Top 10 Hi/Low Temperature Years

**Average Temperatures for the Month of September (Records since 1872)** 

### **Top Ten Warmest**

Rank	Temperature (°F)	Year(s)
1	70.0	2024
2	69.4	2015
3	69.3	2019
4	69.0	2022
5	68.8	2021
6	68.3	1948
7	68.2	1981
	68.2	1931
8	68.0	1998
10	67.8	2018

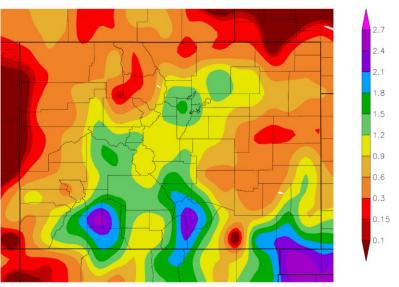
### **Top Ten Coldest**

Rank	Temperature (°F)	Year(s)
1	54.7	1912
2	55.6	1965
3	56.3	1961
4	57.5	1971
5	58.1	1918
6	58.8	1985
7	58.9	2006
	58.9	1929
9	59.2	1999
10	59.3	2003, 1913

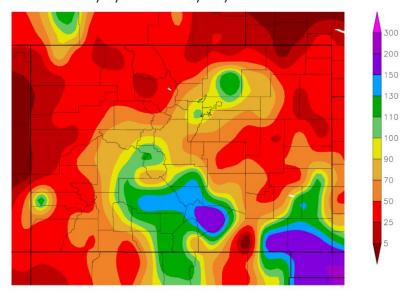


# Statewide Precipitation September 2024

Precipitation (in) 9/1/2024 - 9/30/2024



Percent of Normal Precipitation (%) 9/1/2024 - 9/30/2024



Generated 10/1/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

Generated 10/1/2024 at HPRCC using provisional data.

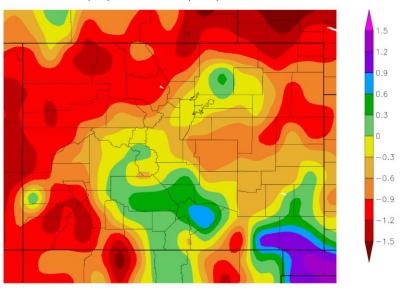
NOAA Regional Climate Centers



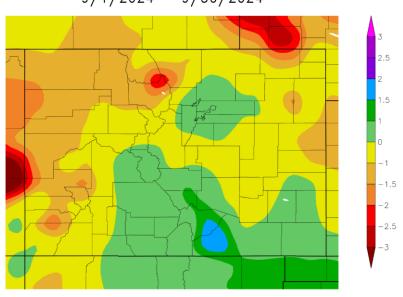


# Statewide Precipitation September 2024

Departure from Normal Precipitation (in) 9/1/2024 - 9/30/2024



Monthly SPI 9/1/2024 - 9/30/2024



Generated 10/1/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

Generated 10/1/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers





## Top 10 Hi/Low Precipitation Years

**Precipitation during the month of September (Records since 1872)** 

### **Top Ten Wettest**

Rank	Precipitation (in.)	Year(s)
1	5.61"	2013
2	4.67"	1961
3	3.78"	1909
4	3.70"	1902
5	3.42"	1938
6	2.95"	2012
7	2.89"	1936
	2.89"	1918
	2.89"	1875
10	2.85"	1973, 1971

### **Top Ten Driest**

Rank	Precipitation (in.)	Year(s)
1	Т	1944
	Т	1892
3	0.01"	1992
	0.01"	1956
5	0.02"	1921
	0.02"	1879
7	0.05"	1893
8	0.06"	2010
	0.06"	1920
	0.06"	1882



### Top 10 Hi/Low Snowfall Years

**Snowfall during the month of September (Records since 1882)** 

### **Top Ten Snowiest**

Rank	Snowfall (in.)	Year(s)
1	17.2"	1971
2	16.5"	1936
3	12.9"	1959
4	11.4"	1895
5	8.7"	1985
6	7.4"	1995
7	6.5"	1908
8	5.8"	1961
9	5.5"	1965
10	5.4"	1993

### **Top Ten Least Snowiest**

Rank	Precipitation (in.)	Year(s)
T1	None	Several