



Denver Monthly Climate Summary October, 2024

NWS Boulder



NATIONAL WEATHER SERVICE
OCEANIC AND ATMOSPHERIC ADMINISTRATION

Issued: 11/1/2024



Monthly Overview

October 2024 2nd Warmest October on Record



Beautiful Fall Colors in Boulder October 22nd

Very dry weather and much above normal temperatures continued across North Central and Northeastern Colorado through much of October as upper level high pressure and a dry westerly flow aloft remained over the region. There were only two days with measurable precipitation during the month and twenty six days with above normal temperatures. We were on pace to be the warmest October on record; however, we slipped into second place as an upper level trough of low pressure and associated cold front brought much colder temperatures to the region the last two days of the month.



National Oceanic and
Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Denver/Boulder, CO



Monthly Temperature Data (October)

- Temperatures were much above normal in Denver this month. Denver's mean temperature was 59.1°F, which is 8.0°F above normal. This makes September 2024 the 2nd warmest October on record
- The highest temperature for the month was 89°F on the 2nd, and the lowest temperature was 24°F which occurred on the 30th.

| Temperature | Observed | Normal | Departure |
|--------------|----------|--------|---------------|
| Average High | 75.1 | 65.3 | +9.8°F |
| Average Low | 43.2 | 37.0 | +6.2°F |
| Average Mean | 59.1 | 51.1 | +8.0°F |

Temperature Records set this Month:

| Date | Type | Observed | Previous Record (Year) |
|------------|-------------------------|----------|------------------------|
| 10/01/2024 | High Min Temperature | 58° | 2023 |
| 10/02/2024 | Max Temperature | 89° | 2005 |
| 10/04/2024 | Max Temperature Equaled | 87° | 1997 |
| 10/05/2024 | Max Temperature | 87° | 1997 |
| 10/20/2024 | Max Temperature | 86° | 2023 |
| 10/28/2024 | Max Temperature Equaled | 82° | 2016 |





Monthly Precipitation/Snowfall (October)

- Precipitation for October 2024 was only 0.11" which is 0.88 inches below normal of 0.99".
- No snow was observed, which is 3.9" below the normal October snowfall
- No precipitation records were observed this month

| Precipitation | Observed | Normal | Departure |
|-------------------------|----------|--------|---------------|
| Total Precipitation | 0.11" | 0.99" | -0.88" |
| # of Days w/ Measurable | 2 | 6 | -4 |

| Snowfall | Observed | Normal | Departure |
|----------------|----------|--------|--------------|
| Total Snowfall | 0.0" | 3.9" | -3.9" |

Precipitation Records set this Month:

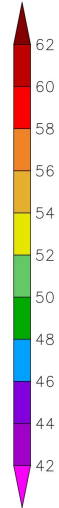
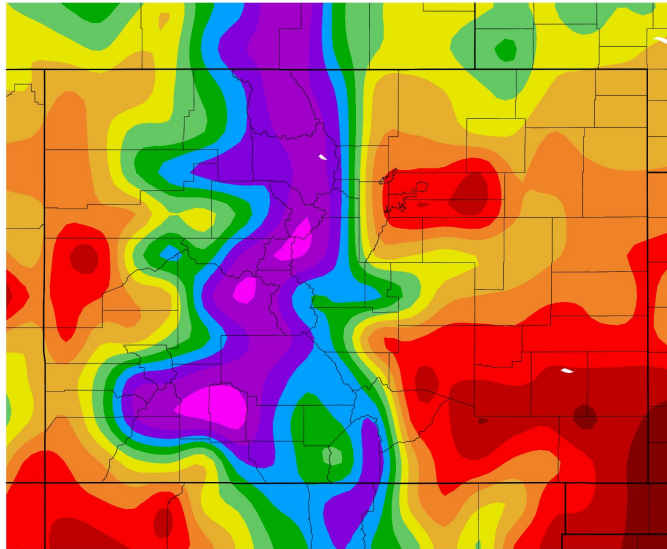
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|---------------------------|------|----------|------------------------|
| No Records Set this Month | | | |



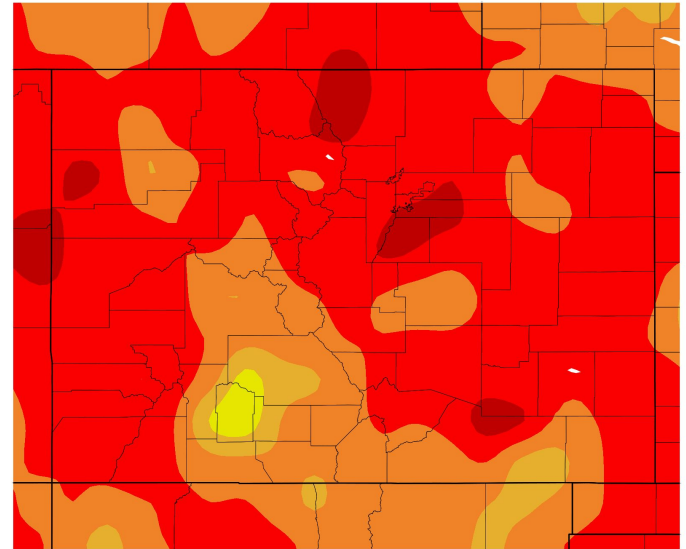


Statewide Temperature October 2024

Temperature (F)
10/1/2024 - 10/31/2024



Departure from Normal Temperature (F)
10/1/2024 - 10/31/2024



Generated 11/1/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

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NOAA Regional Climate Centers





Top 10 Hi/Low Temperature Years

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

Top Ten Warmest

| Rank | Temperature (°F) | Year(s) |
|------|------------------|-------------|
| 1 | 59.9 | 1950 |
| 2 | 59.1 | 2024 |
| 3 | 57.9 | 1963 |
| | 57.9 | 1934 |
| 5 | 57.8 | 2016 |
| 6 | 57.4 | 1933 |
| 7 | 57.0 | 1947 |
| 8 | 56.5 | 2015 |
| 9 | 56.3 | 1875 |
| 10 | 55.9 | 1956, 1940 |

Top Ten Coldest

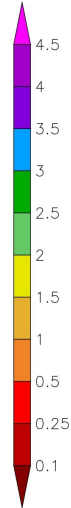
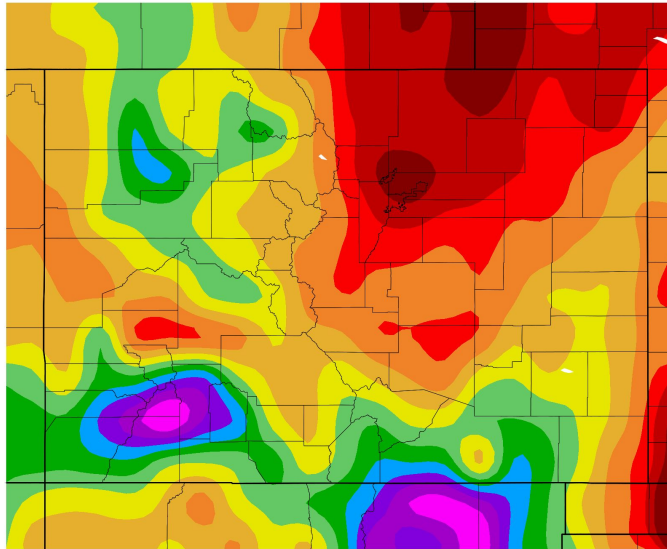
| Rank | Temperature (°F) | Year(s) |
|------|------------------|------------|
| 1 | 38.9 | 1969 |
| 2 | 42.9 | 2009 |
| 3 | 43.3 | 1925 |
| 4 | 43.7 | 2019 |
| 5 | 43.9 | 2002 |
| 6 | 44.3 | 1923 |
| 7 | 44.7 | 1984 |
| 8 | 45.9 | 1970 |
| 9 | 46.3 | 1877 |
| 10 | 46.5 | 1919, 1913 |



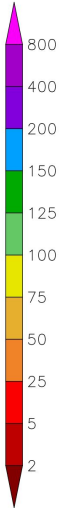
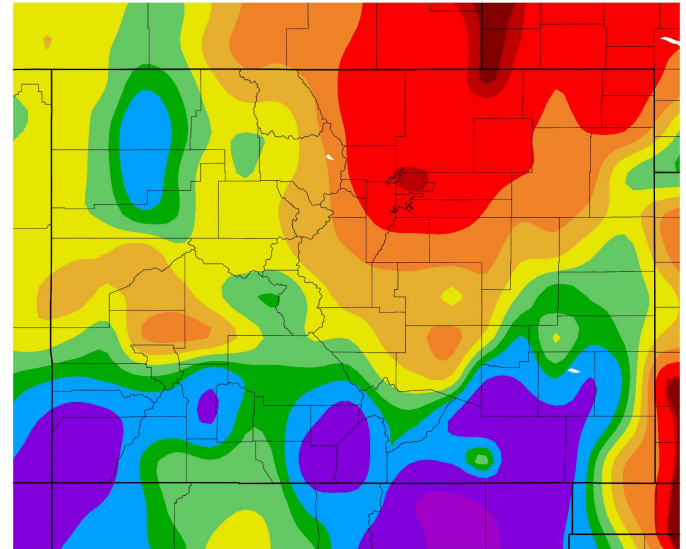


Statewide Precipitation October 2024

Precipitation (in)
10/1/2024 - 10/31/2024



Percent of Normal Precipitation (%)
10/1/2024 - 10/31/2024



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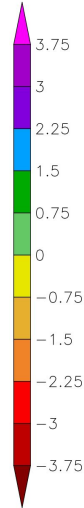
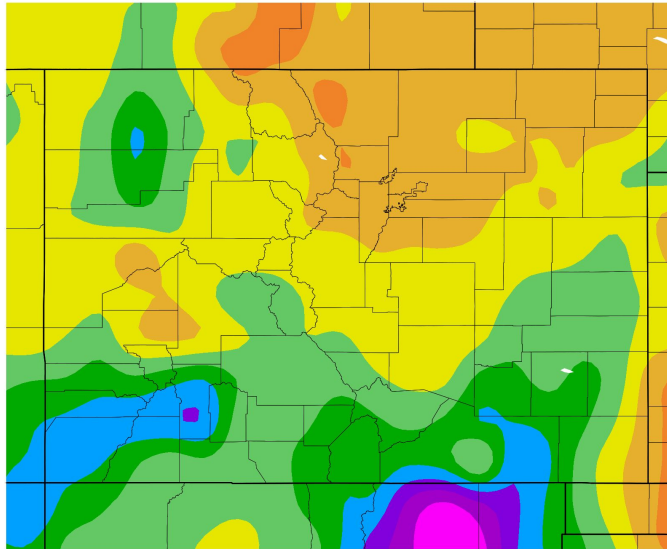
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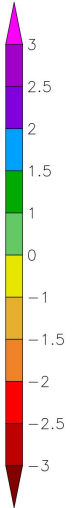
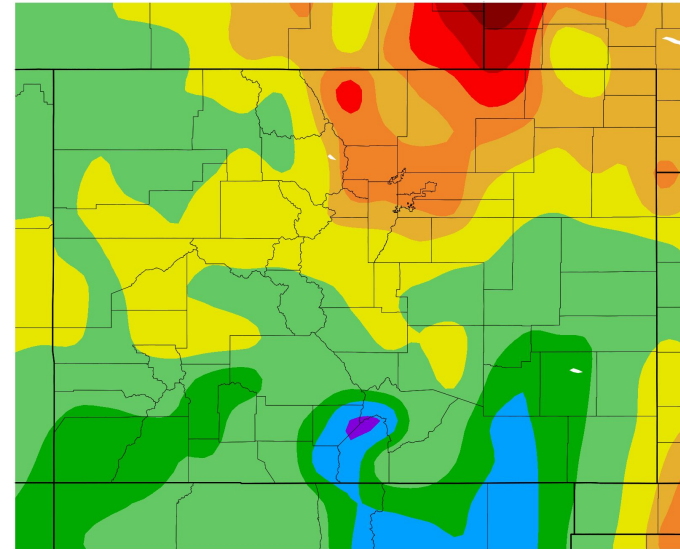


Statewide Precipitation October 2024

Departure from Normal Precipitation (in)
10/1/2024 – 10/31/2024



Monthly SPI
10/1/2024 – 10/31/2024



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Top 10 Hi/Low Precipitation Years

Precipitation during the month of October (Records since 1872)

Top Ten **Wettest**

| Rank | Precipitation (in.) | Year(s) |
|------|---------------------|------------|
| 1 | 4.17" | 1969 |
| 2 | 3.92" | 1892 |
| 3 | 3.72" | 1942 |
| 4 | 3.50" | 1923 |
| 5 | 3.47" | 1984 |
| 6 | 3.05" | 1914 |
| 7 | 3.03" | 2007 |
| 8 | 2.84" | 1947 |
| 9 | 2.62" | 1957 |
| 10 | 2.46" | 1960, 1959 |

Top Ten **Driest**

| Rank | Precipitation (in.) | Year(s) |
|------|---------------------|---------|
| 1 | T | 1934 |
| 2 | 0.01 | 1933 |
| 3 | 0.05" | 1962 |
| | 0.05" | 1944 |
| 5 | 0.06" | 1988 |
| | 0.06" | 1954 |
| | 0.06" | 1948 |
| 8 | 0.08" | 2021 |
| | 0.08" | 2003 |
| | 0.08" | 2001 |





Top 10 Hi/Low Snowfall Years

Snowfall during the month of October (Records since 1882)

Top Ten Snowiest

| Rank | Snowfall (in.) | Year(s) |
|------|----------------|---------|
| 1 | 31.2" | 1969 |
| 2 | 22.7" | 1906 |
| 3 | 22.1" | 1997 |
| 4 | 17.8" | 1923 |
| 5 | 17.2" | 2009 |
| 6 | 16.4" | 1897 |
| 7 | 16.2" | 1929 |
| 8 | 14.0" | 1889 |
| 9 | 13.8" | 1905 |
| 10 | 13.6" | 1908 |

Top Ten Least Snowiest

| Rank | Precipitation (in.) | Year(s) |
|------|---------------------|---------|
| 1 | 0.0 | Several |

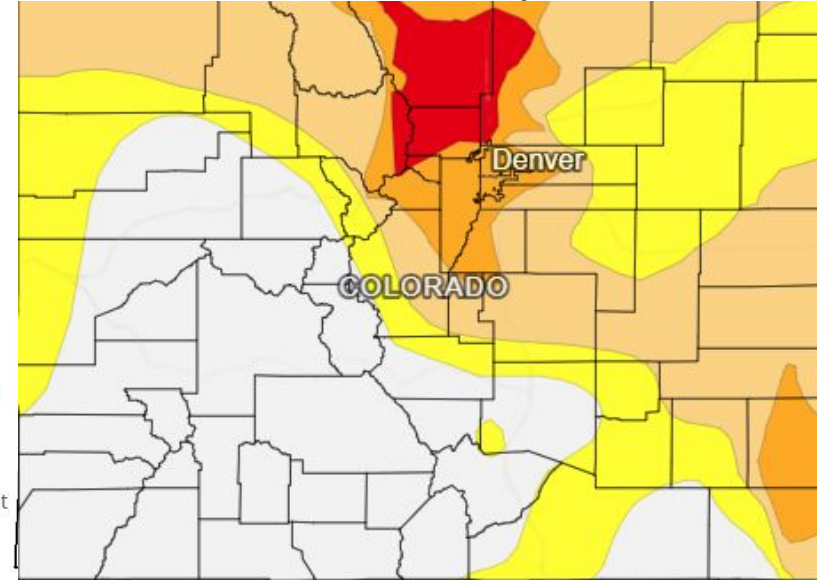
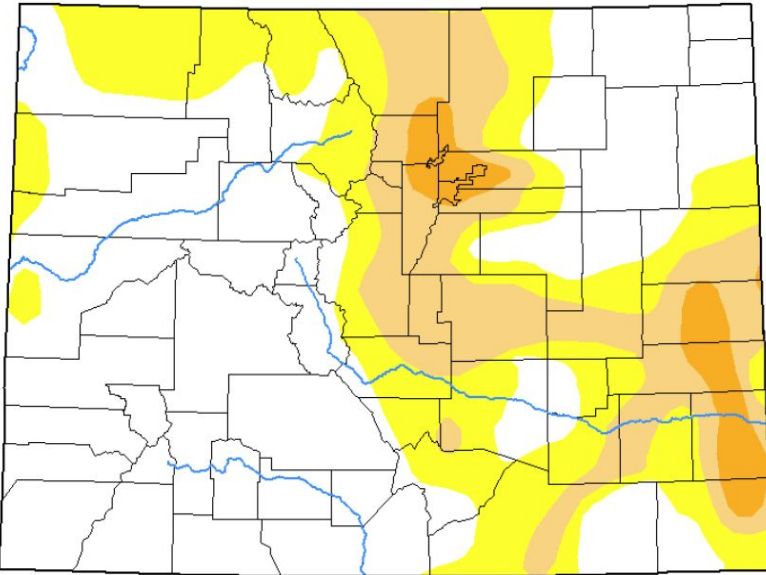




Drought Conditions Colorado

September 24, 2024

October 29, 2024



Intensity

- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)

With very dry conditions over the past month, drought conditions have worsened across portions of North Central and Northeastern Colorado. As of October 22nd, the worst conditions stretched from the Northern Front Range Mountains across the Northern Foothills into the Northern Front Range Urban Corridor.

