

# Denver Annual Climate Summary

## 2024

NWS Boulder



**NATIONAL WEATHER SERVICE**  
OCEANIC AND ATMOSPHERIC ADMINISTRATION

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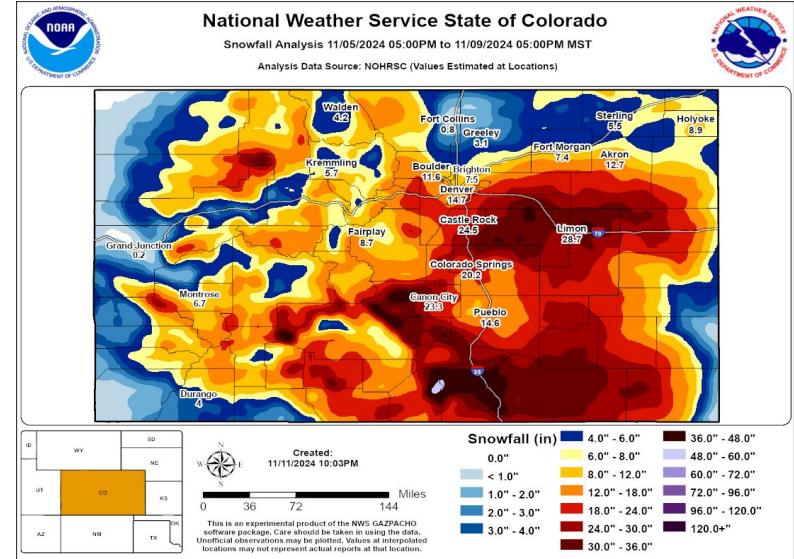


# 2024 Annual Overview

## Large Hail on May 30th



## November Snowstorm



Temperatures for the year were above normal as the Annual Mean Temperature of 53.9 degrees was the 3rd Warmest on record for Denver. Precipitation was slightly below normal as the Annual Precipitation was 14.12" which was 0.36" below normal for Denver. On May 30th, very large hail (up to baseball size) affected portions of the Denver Metro in the late evening hours. Although damage estimates are still ongoing, it's estimated totals may exceed "1" Billion Dollars. Meanwhile in early November a complex storm system brought periods of heavy snow across the area. Snowfall totals of 18" to 36" fell across portions of the Denver Metro area, Palmer Divide and southern Foothills with amounts exceeding 40" over portions of Elbert and Lincoln counties.





# Annual Temperature Data (2024)

- Temperatures were above normal in Denver for the year. Denver's mean temperature was 51.2°F, which is 2.7°F above normal.
- The highest temperature for the year was 102°F on 7/12 and 8/4, and the lowest temperature was -19°F which occurred on 1/15 and 1/16.
- 3rd Warmest Year on Record (ties 2012)

| Temperature  | Observed | Normal | Departure |
|--------------|----------|--------|-----------|
| Average High | 68.2     | 65.1   | +3.1      |
| Average Low  | 39.5     | 37.2   | +2.3      |
| Average Mean | 53.9     | 51.2   | +2.7      |

## Annual Temperature Records set for the Year:

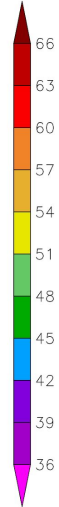
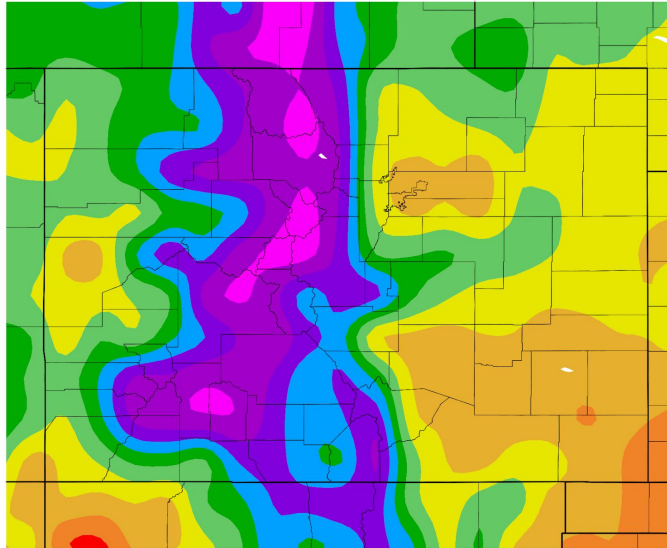
| Date                     | Type | Observed | Previous Record (Year) |
|--------------------------|------|----------|------------------------|
| No Records Set this Year |      |          |                        |



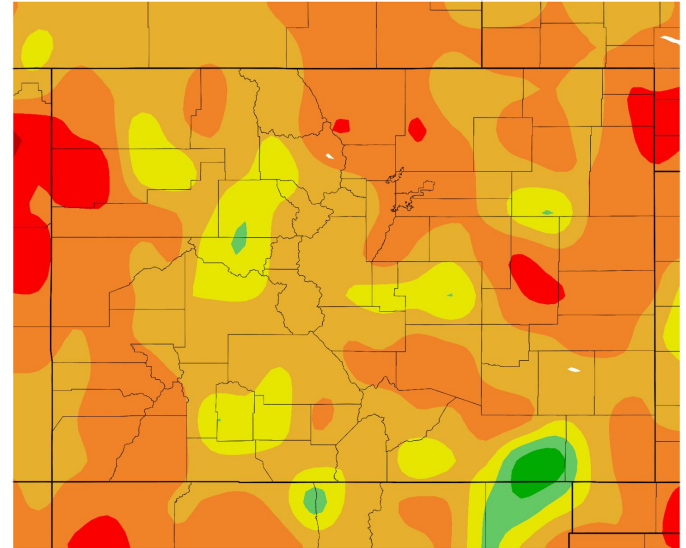


# Statewide Temperature 2024

Temperature (F)  
1/1/2024 - 12/31/2024



Departure from Normal Temperature (F)  
1/1/2024 - 12/31/2024



Generated 1/2/2025 at HPRCC using provisional data.

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# Top 10 Hi/Low Temperature Years

Average Temperatures for the Year (Records since 1872)

## Top Ten Warmest

| Rank     | Temperature (°F) | Year(s)     |
|----------|------------------|-------------|
| 1        | 54.8             | 1934        |
| 2        | 54.1             | 1981        |
| <b>3</b> | <b>53.9</b>      | <b>2024</b> |
|          | 53.9             | 2012        |
| 5        | 53.5             | 1954        |
|          | 53.5             | 1953        |
| 7        | 53.3             | 1994        |
| 8        | 52.9             | 1939        |
| 9        | 52.8             | 2017        |
| 10       | 52.7             | 2021        |

## Top Ten Coldest

| Rank | Temperature (°F) | Year(s)          |
|------|------------------|------------------|
| 1    | 47.6             | 1912             |
| 2    | 47.8             | 1872             |
| 3    | 47.9             | 1891             |
| 4    | 48.2             | 1880             |
| 5    | 48.3             | 1983             |
|      | 48.3             | 1951             |
| 7    | 48.4             | 1913             |
| 8    | 48.7             | 1997             |
|      | 48.7             | 1929             |
| 10   | 48.8             | 1961, 1923, 1899 |





# Annual Precipitation/Snowfall (2024)

- Precipitation was 0.36" below normal in Denver for the year
- 57.5" of snow occurred in Denver which was 8.3" above the long term normal.

| Precipitation              | Observed | Normal | Departure |
|----------------------------|----------|--------|-----------|
| Total Precipitation        | 14.12"   | 14.48" | -0.36"    |
| # of Days w/<br>Measurable | 72       | 80     | -8        |

| Snowfall       | Observed | Normal | Departure |
|----------------|----------|--------|-----------|
| Total Snowfall | 57.5"    | 49.2"  | +8.3"     |

## Annual Precipitation/Snowfall Records set for the Year:

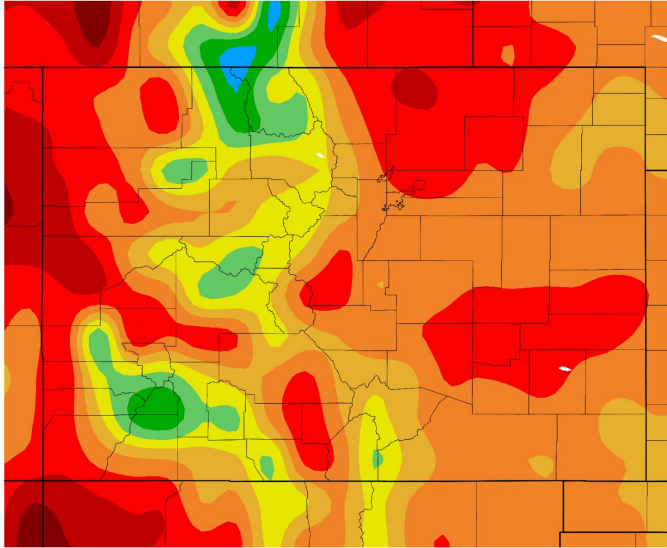
| Date                     | Type | Observed | Previous Record (Year) |
|--------------------------|------|----------|------------------------|
| No Records Set this Year |      |          |                        |



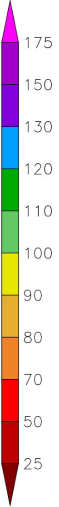
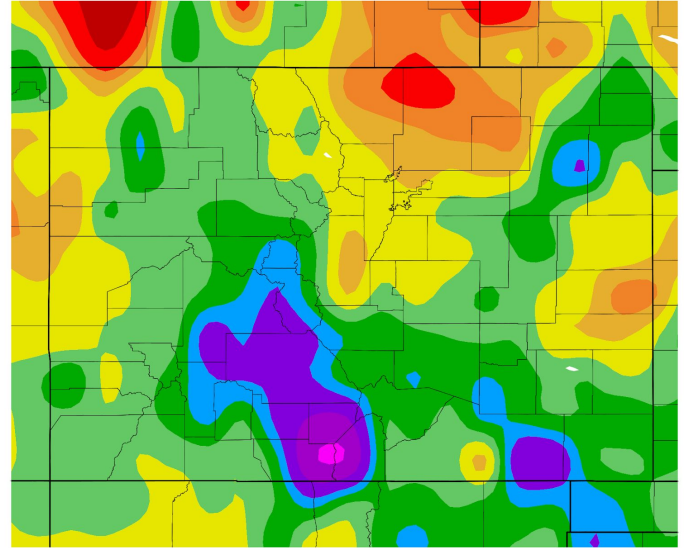


# Statewide Precipitation 2024

Precipitation (in)  
1/1/2024 - 12/31/2024



Percent of Normal Precipitation (%)  
1/1/2024 - 12/31/2024



Generated 1/2/2025 at HPRCC using provisional data.

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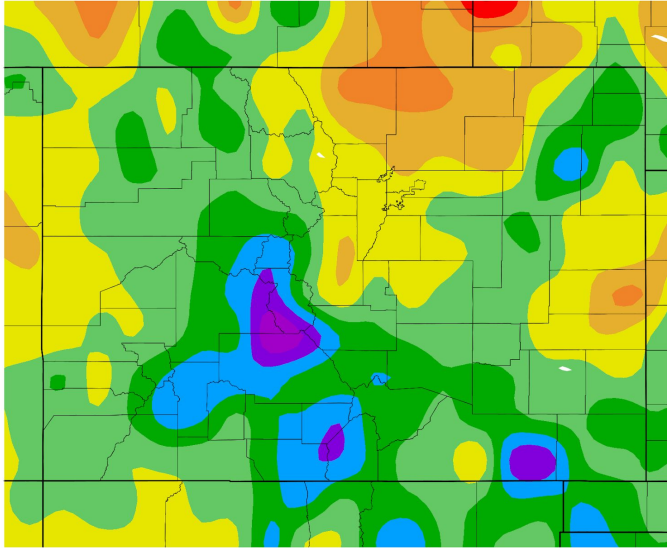
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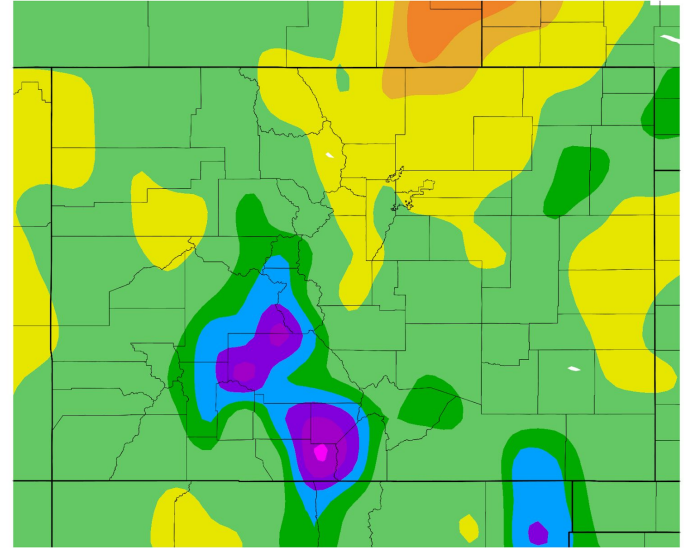


# Statewide Precipitation 2024

Departure from Normal Precipitation (in)  
1/1/2024 - 12/31/2024



12-Month SPI  
1/1/2024 - 12/31/2024



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# Top 10 Hi/Low Precipitation Years

Precipitation during the Year (Records since 1872)

## Top Ten **Wettest**

| Rank | Precipitation (in.) | Year(s) |
|------|---------------------|---------|
| 1    | 23.31"              | 1967    |
| 2    | 22.96"              | 1973    |
|      | 22.96"              | 1909    |
| 4    | 21.87"              | 1965    |
| 5    | 21.58"              | 1957    |
| 6    | 21.52"              | 1969    |
| 7    | 21.43"              | 1891    |
| 8    | 21.42"              | 1923    |
| 9    | 20.95"              | 1999    |
| 10   | 20.36"              | 1979    |

## Top Ten **Driest**

| Rank | Precipitation (in.) | Year(s) |
|------|---------------------|---------|
| 1    | 7.48"               | 2002    |
| 2    | 7.51"               | 1954    |
| 3    | 7.58"               | 1939    |
| 4    | 7.75"               | 1911    |
| 5    | 8.45"               | 1962    |
| 6    | 8.48"               | 1893    |
| 7    | 8.53"               | 2018    |
| 8    | 8.64"               | 2006    |
| 9    | 8.74"               | 2020    |
| 10   | 8.93"               | 1934    |





# Top 10 Hi/Low Snowfall Years

Period from January through December (Records since 1882)

## Top Ten Snowiest

| Rank | Snowfall (in.) | Year(s) |
|------|----------------|---------|
| 1    | 115.9"         | 1913    |
| 2    | 112.0"         | 1959    |
| 3    | 99.2"          | 1929    |
| 4    | 98.4"          | 1973    |
| 5    | 95.0"          | 1951    |
| 6    | 92.3"          | 1983    |
| 7    | 91.2"          | 1909    |
| 8    | 90.9"          | 1979    |
| 9    | 87.0"          | 1891    |
| 10   | 86.2"          | 1944    |

## Top Ten Least Snowiest

| Rank | Precipitation (in.) | Year(s) |
|------|---------------------|---------|
| 1    | 17.2"               | 2017    |
| 2    | 18.9"               | 1887    |
| 3    | 21.5"               | 1888    |
| 4    | 21.8"               | 1890    |
| 5    | 27.1"               | 2018    |
| 6    | 27.7"               | 1904    |
| 7    | 27.8"               | 2010    |
| 8    | 27.9"               | 1977    |
| 9    | 29.1"               | 1943    |
| 10   | 29.3"               | 1882    |





# Notable Weather Events in 2024

## **March 13th through March 15th Snowstorm**

A powerful winter storm struck the Front Range of Colorado March 13th and 14th, 2024, producing extremely heavy snowfall, difficult if not impossible travel conditions, and scattered power outages.

## **April 6th through April 7th High Wind Event**

An intense storm system moved across northeast Colorado on April 6th and then moved northeast into central Nebraska on April 7th. Strong and damaging winds occurred over portions of the mountains, foothills and northeast plains, from April 6th through April 7th

## **Very Large Hail across portions of the Denver Metro area on May 30th**

On May 30th, scattered severe thunderstorms developed late in the evening and moved across the Denver Metro area. Very large hail up to baseballs affected portions of northeast Denver. Other areas saw hail ranging from 1.50 to 2.25 inches in diameter. Final damage estimates will likely exceed "1" Billion Dollars.

## **November 5th through November 9th Snowstorm across portions of the Denver Metro area, Palmer Divide and southern Foothills**

A slow moving and complex storm system affected Colorado from November 5th through November 9th. In some locations of east central and southeast Colorado, historic amounts of snow fell.

