

Denver Annual Climate Summary

2024

NWS Boulder



NATIONAL WEATHER SERVICE
OCEANIC AND ATMOSPHERIC ADMINISTRATION

Issued: 1/8/2025

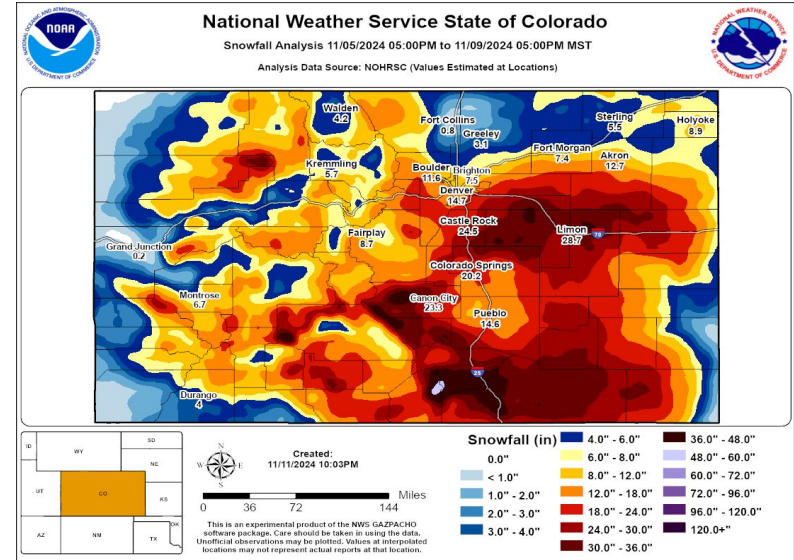


2024 Annual Overview

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:

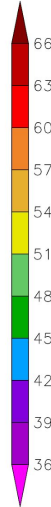
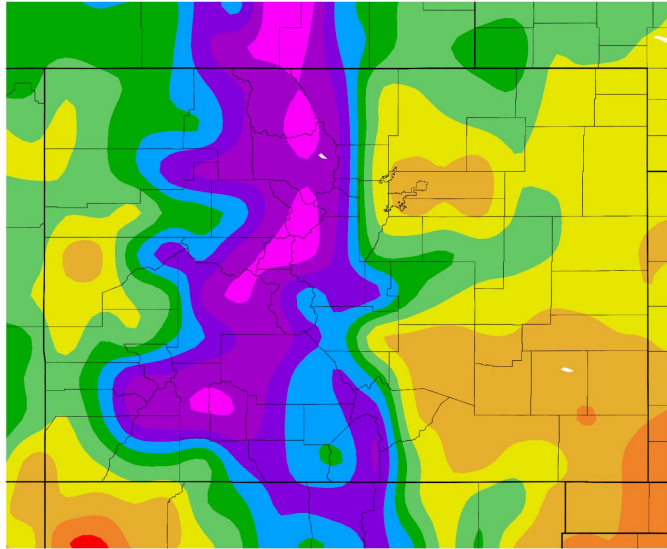
Date	Type	Observed	Previous Record (Year)
No Records Set this Year			



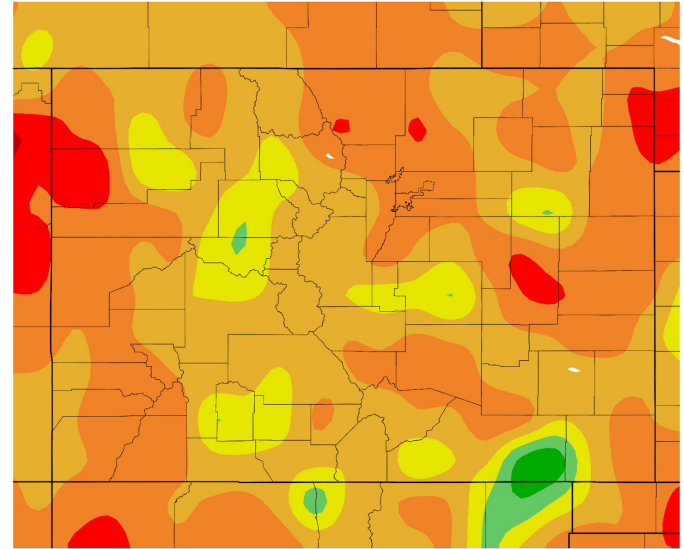


Statewide Temperature 2024

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
3	53.9	2024
	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/ Measurable	72	80	-8

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

Annual Precipitation/Snowfall Records set for the Year:

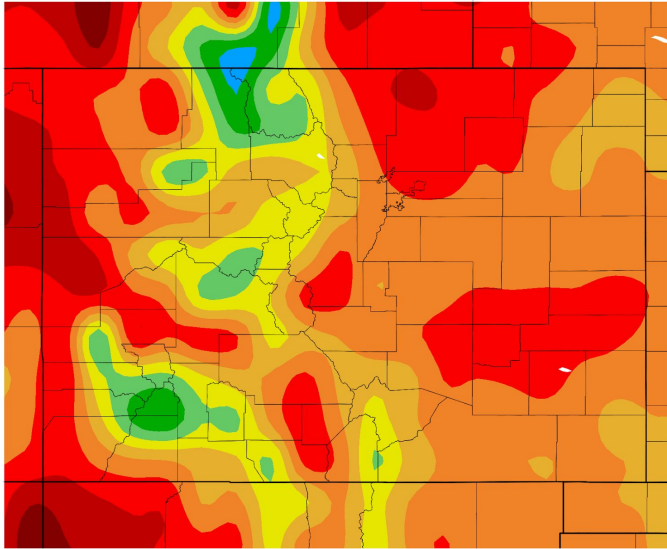
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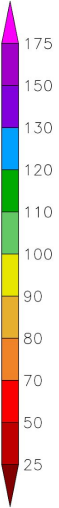
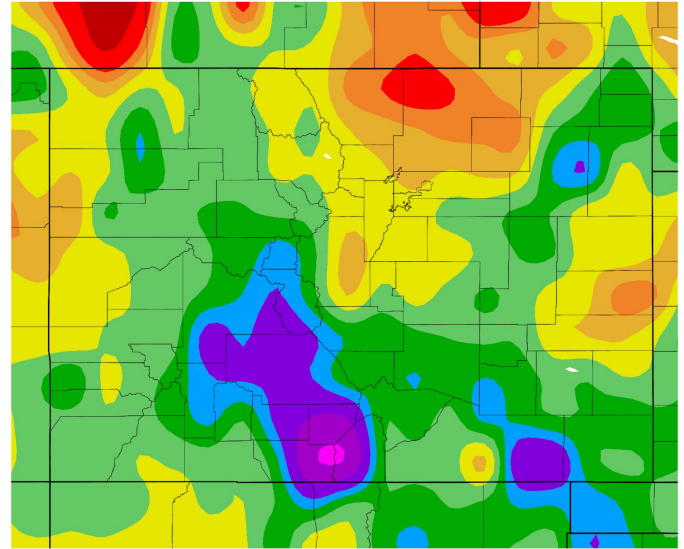


Statewide Precipitation 2024

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



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



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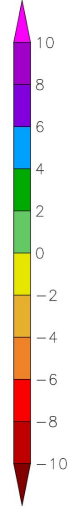
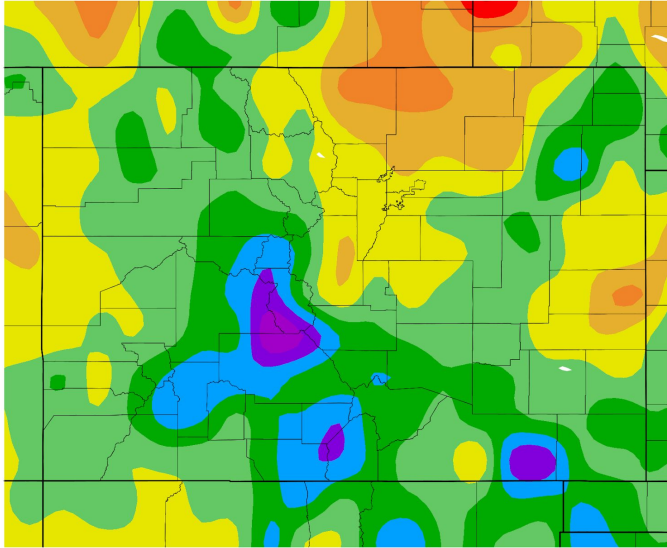
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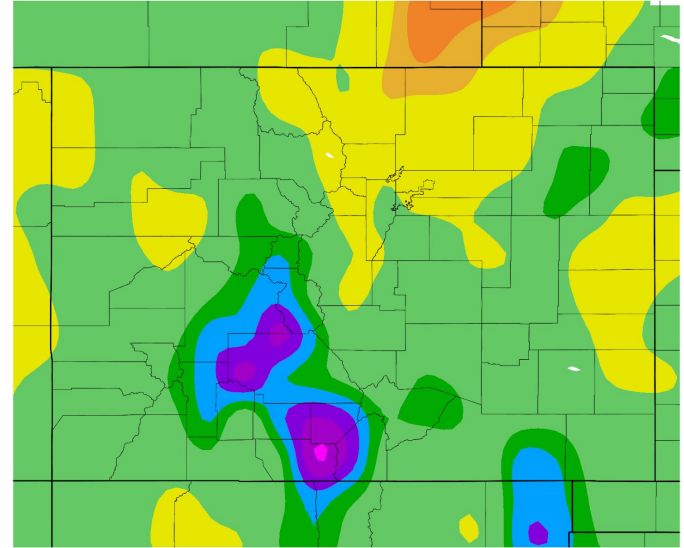


Statewide Precipitation 2024

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.

