

.....January 2024 Climate Summary for the Denver Area.....



Strong winds causing snow to blow off the Flatirons near Boulder, CO. on the afternoon of January 16th

The mild and dry December weather carried over into early January with high temperatures in the upper 40s to mid 50s. Temperatures cooled off to mostly below normal values from the 4th through the 12th as a series of upper level troughs and associated cold fronts moved across the region. The main weather maker of the month was a strong Arctic Cold Front which swept across Northeastern Colorado on the evening of the 12th. In the wake of the front, the foothills, Front Range Urban Corridor and Northeastern plains experienced bitterly cold temperatures, light snow and dangerous wind chills. Daytime temperature through this period only managed to climb into the single digits in Denver with some plains locations staying below zero on the 14th and 16th. Coldest overnight lows occurred on the 16th when the temperature at Denver International Airport dropped to -19°F. It was even colder further northeast across the plains where the temperature at the Briggsdale Cooperative Weather station plummeted to -35°F. In addition, heavy snow and windy conditions occurred in the Northern Mountains from the 12th through the 15th as a strong upper level jet combined with favorable northwesterly orographic flow and abundant Pacific moisture. One to five feet of snow was measured in the Northern Mountains during this period with wind gusts over 100 mph at times over the higher mountain peaks. The combination of the wind and snow resulted in difficult travel and road closures. Denver saw much warmer and mostly dry conditions the last half of the month as upper level high pressure dominated the Rocky Mountain Region.

TEMPERATURES:

January in Denver typically ranks as the 2nd coldest month of the year with only December averaging colder conditions during the official NCEI 1991-2020 period. The average temperature at Denver International Airport for the month of January was 28.2 degrees F, which is 3.5 degrees below the normal of 31.7 degrees. The warmest temperature of the month was 61 degrees F which occurred on the 31st, with the coldest temperature of -19 degrees F on the morning of the 16th. The max temperature of 2°F on the 15th and the low of -19°F on the 16th tied the record low max and the record low respectively on those days which were both last set in 1930.

TEN WARMEST JANUARY AVERAGE TEMPERATURES IN DENVER WEATHER HISTORY SINCE 1872: DEGREES F°

- 40.3 – 1986
- 40.1 – 1934
- 39.6 – 1953
- 39.4 – 1935
- 38.3 - 1893
- 38.2 – 1911
- 37.9 – 1923
- 37.4 – 2006
- 37.3 - 1981, 1896

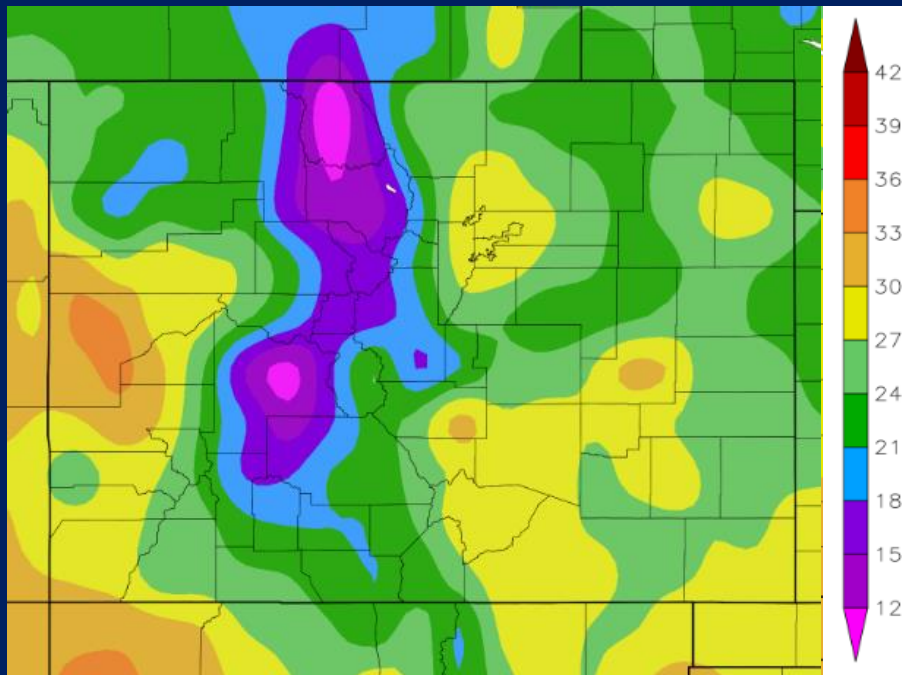
TEN COLDEST JANUARY AVERAGE TEMPERATURES IN DENVER WEATHER HISTORY SINCE 1872: DEGREES F

- 16.8 - 1930 *** COLDEST MONTH IN DENVER`S HISTORY
- 18.0 – 1979
- 18.1 – 1875
- 18.2 – 1937
- 19.1 – 1963
- 19.4 – 1949
- 19.5 – 1962
- 20.8 – 2007
- 21.7 – 1886
- 22.8 – 1916

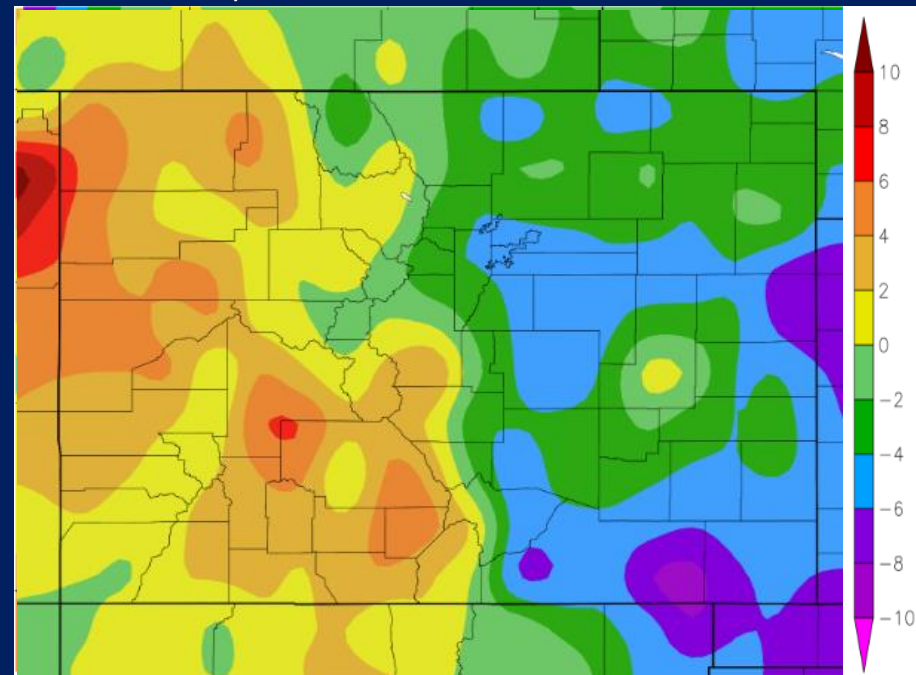
Location	County	Maximum Temperature January 14th
New Raymer 21N	Weld	-8°F
Hereford	Weld	-6°F
Julesburg	Sedgwick	-6°F
Virginia Dale 7ENE	Larimer	-6°F
Leroy 9WSW	Logan	-5°F
Sedgwick 5S	Sedgwick	-5°F
Buckhorn Mountain 1E	Larimer	-5°F
Flemming 3Sw	Logan	-4°F
Briggsdale	Weld	-4°F
Denver Central Park	Denver	-3°F
Akron 4E	Washington	-3°F
Lindon 5WNW	Washington	-3°F
Holyoke	Phillips	-2°F
Waterdale	Larimer	-2°F
Lakewood	Jefferson	-2°F
Ralston Reservoir	Jefferson	-2°F
Waterdale	Jefferson	-2°F
Longmont 2ESE	Boulder	-1°F
Loveland 2N	Larimer	-1°F
Marston Filter Plant	Denver	-1°F
Wheat Ridge	Jefferson	-1°F
Brighton 3SE	Adams	0°F
Elizabeth 2NW	Elbert	0°F
Strontia Springs	Douglas	0°F
Woodrow 6ENE	Morgan	0°F
Northglenn	Adams	2°F
Denver Water	Denver	2°F
Roxborough State Park	Douglas	2°F
Kassler	Jefferson	2°F
Castle Rock	Douglas	4°F
Fort Morgan	Morgan	4°F
Denver International Airport	Denver	6°F

Location	County	Minimum Temperature January 16th
Walden	Jackson	-39°F
Briggsdale	Weld	-35°F
Woodrow 6ENE	Morgan	-31°F
Fort Morgan	Morgan	-29°F
Grand Lake 6SSSW	Grand	-28°F
Lindon 5WNW	Washington	-25°F
Gould 4SE	Jackson	-25°F
Kassler	Jefferson	-24°F
Loveland 2N	Larimer	-24°F
Kremmling	Grand	-24°F
Grand Lake 1NW	Grand	-23°F
Hereford	Weld	-23°F
Brighton 3SE	Adams	-22°F
Sedgwick 5S	Sedgwick	-22°F
Williams Fork Dam	Grand	-21°F
Fraser	Grand	-20°F
Greeley UNC	Weld	-20°F
Holyoke	Phillips	-20°F
Karval	Lincoln	-19°F
Waterdale	Larimer	-19°F
Denver International Airport	Denver	-19°F
Estes Park	Larimer	-19°F
New Raymer 21N	Weld	-19°F
Julesburg	Sedgwick	-18°F
Flemming 3Sw	Logan	-18°F
Akron 4E	Washington	-18°F
Roxborough State Park	Douglas	-18°F
Gross Reservoir	Boulder	-18°F
Dillon 1E	Summit	-18°F
Fort Collins CSU	Larimer	-17°F
Grant	Park	-17°F
Leroy	Logan	-17°F
Elizabeth 2NW	Elbert	-16°F
Evergreen	Jefferson	-16°F
Wheat Ridge	Jefferson	-16°F
Longmont	Boulder	-15°F
Strontial Springs	Douglas	-15°F
Virginia Dale	Larimer	-15°F
Northglenn	Adams	-14°F
Boulder	Boulder	-14°F
Ralston Reservoir	Jefferson	-14°F
Denver Central Park	Denver	-13°F
Georgetown	Clear Creek	-13°F
Marston Filer Plant	Denver	-12°F

Average Temperature
January 2024 (°F)



January 2024 Temperature
Departure from Normal (°F)



Graphics generated by HPRCC using provisional data

PRECIPITATION:

January in Denver typically ranks as the 2nd driest month of the year with only December averaging drier conditions over the official NCEI 1991-2020 period. Denver received 0.28 inches of precipitation in January 2024 which is 0.10 inches below the normal of 0.38 inches. The highest daily precipitation amount of 0.09 inches was measured on the 13th and the 15th.

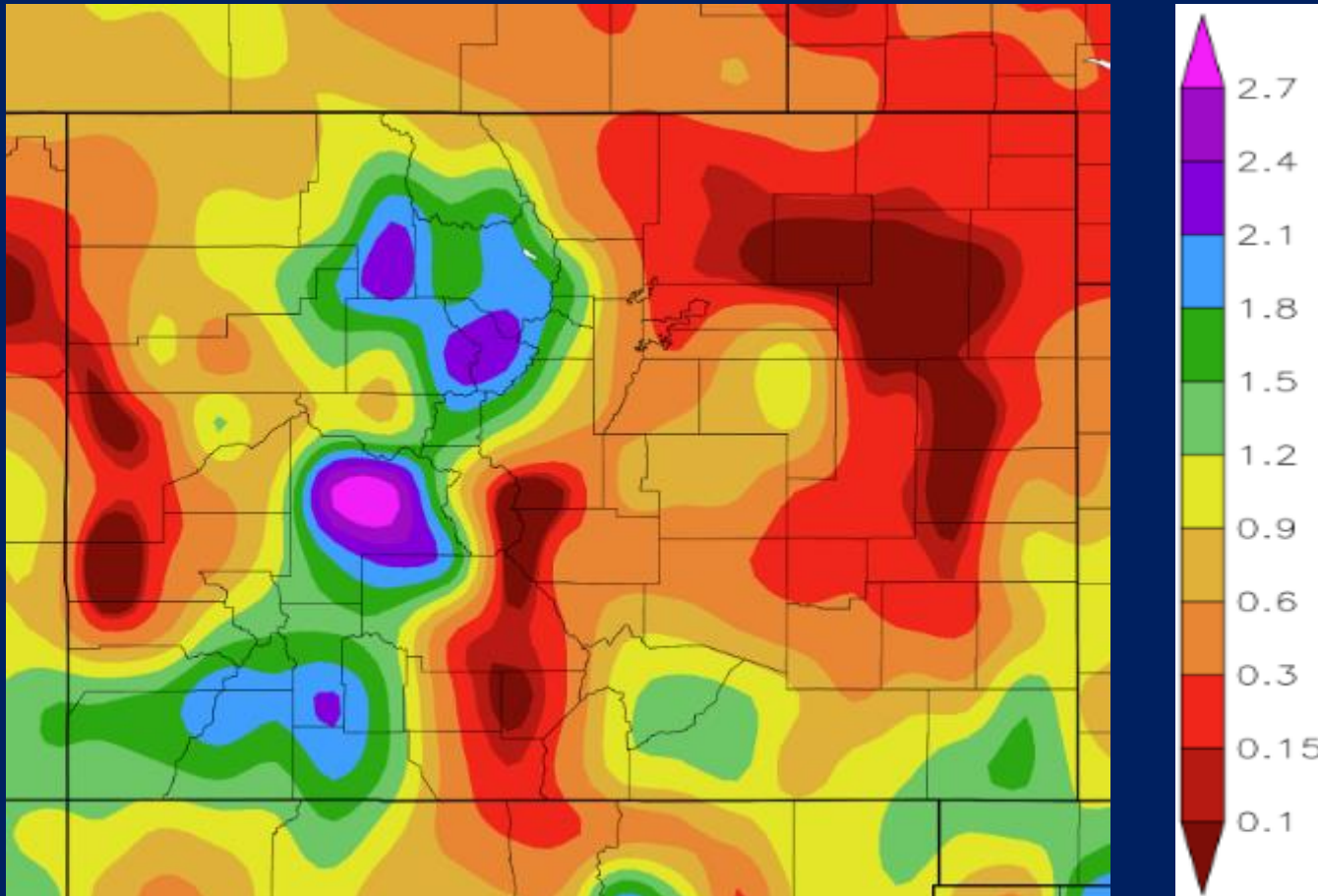
TEN WETTEST JANUARY PRECIPITATION TOTALS IN DENVER WEATHER HISTORY SINCE 1872: INCHES

2.35	–	1883
1.90	–	1877
1.60	–	1891
1.46	–	1949
1.43	–	1948
1.33	–	1962
1.31	–	1973
1.25	--	2023
1.24	–	1959
1.19	–	1992

ELEVEN DRIEST JANUARY PRECIPITATION TOTALS IN DENVER WEATHER HISTORY SINCE 1872: INCHES

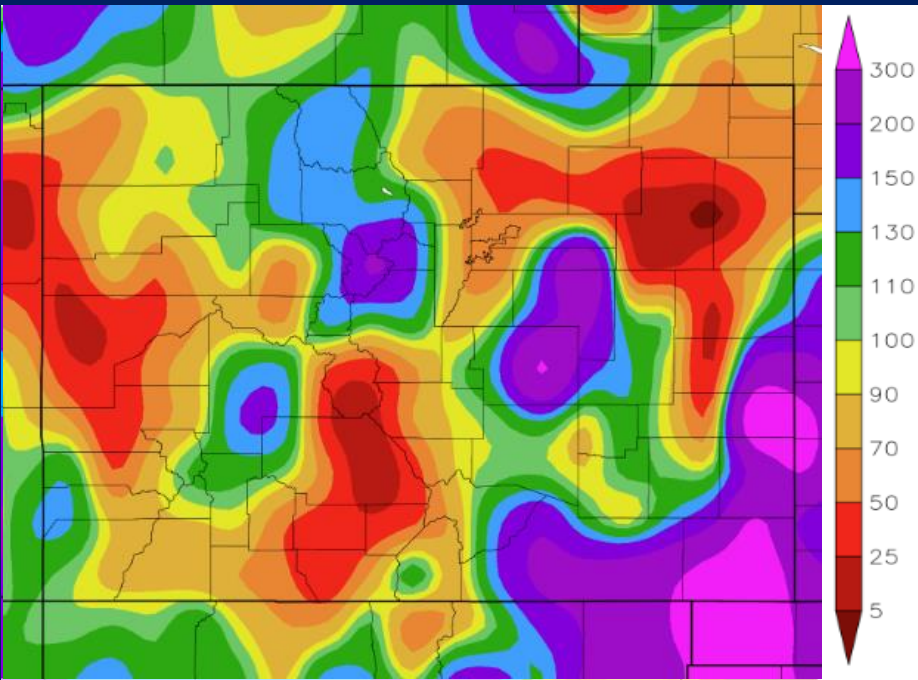
0.01	-	1952, 1934, 1933
0.02	-	1931 0.03 - 2003, 1935, 1914
0.04	-	1904 0.05 - 1998, 1901, 1893

January 2024 Precipitation (Inches)

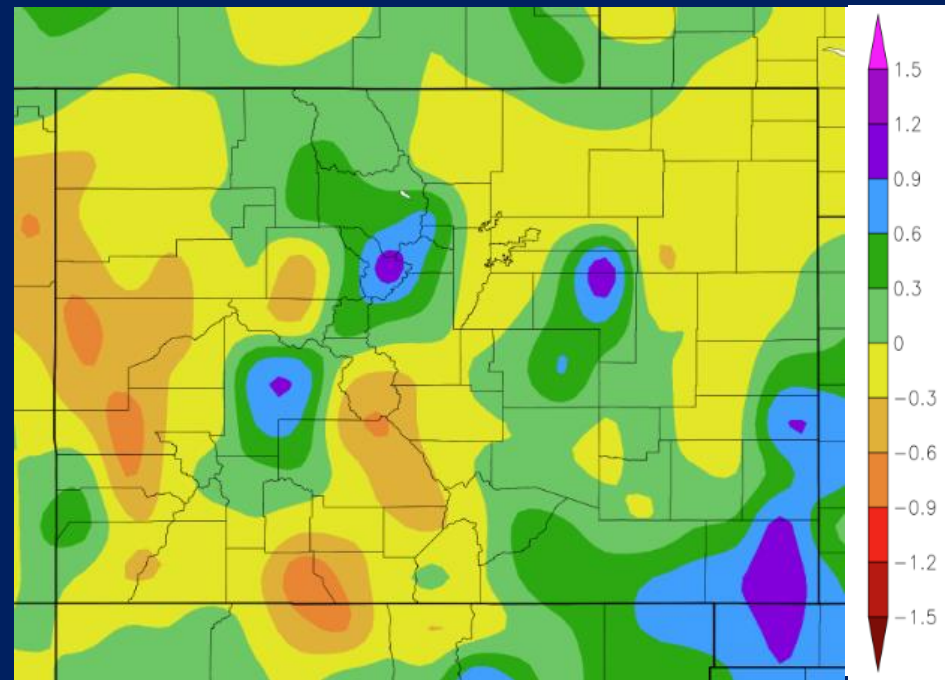


Graphic generated by HPRCC using provisional data

Percent of normal Precipitation (%)
January 2024



Departure from Normal
Precipitation 2024 (Inches)



Graphics generated by HPRCC using provisional data

SNOWFALL:

3.6 inches of snow was measured in the month of January. This is 2.8 inches below the normal of 6.4 inches. The greatest daily snowfall occurred on the 15th when 1.5 inches was measured at Denver International Airport.

TEN SNOWIEST JANUARYS IN DENVER WEATHER HISTORY SINCE 1872: INCHES

- 24.3 – 1992
- 22.2 – 1949
- 20.5 – 1883
- 19.2 - 1948
- 17.4 – 1959
- 17.2 - 1962
- 17.0 - 1987, 1891
- 15.9 – 2007
- 15.7 – 1951

ELEVEN LEAST SNOWIEST JANUARYS IN DENVER WEATHER HISTORY SINCE 1872: INCHES

- TRACE - 2003, 1934
- 0.1 – 1931
- 0.2 – 1933
- 0.3 – 1952
- 0.4 – 1914
- 0.8 – 1935
- 0.9 - 2020, 1970
- 1.0 - 1961, 1893

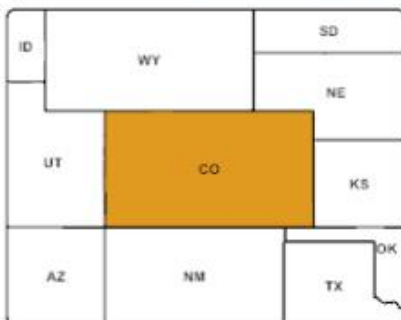
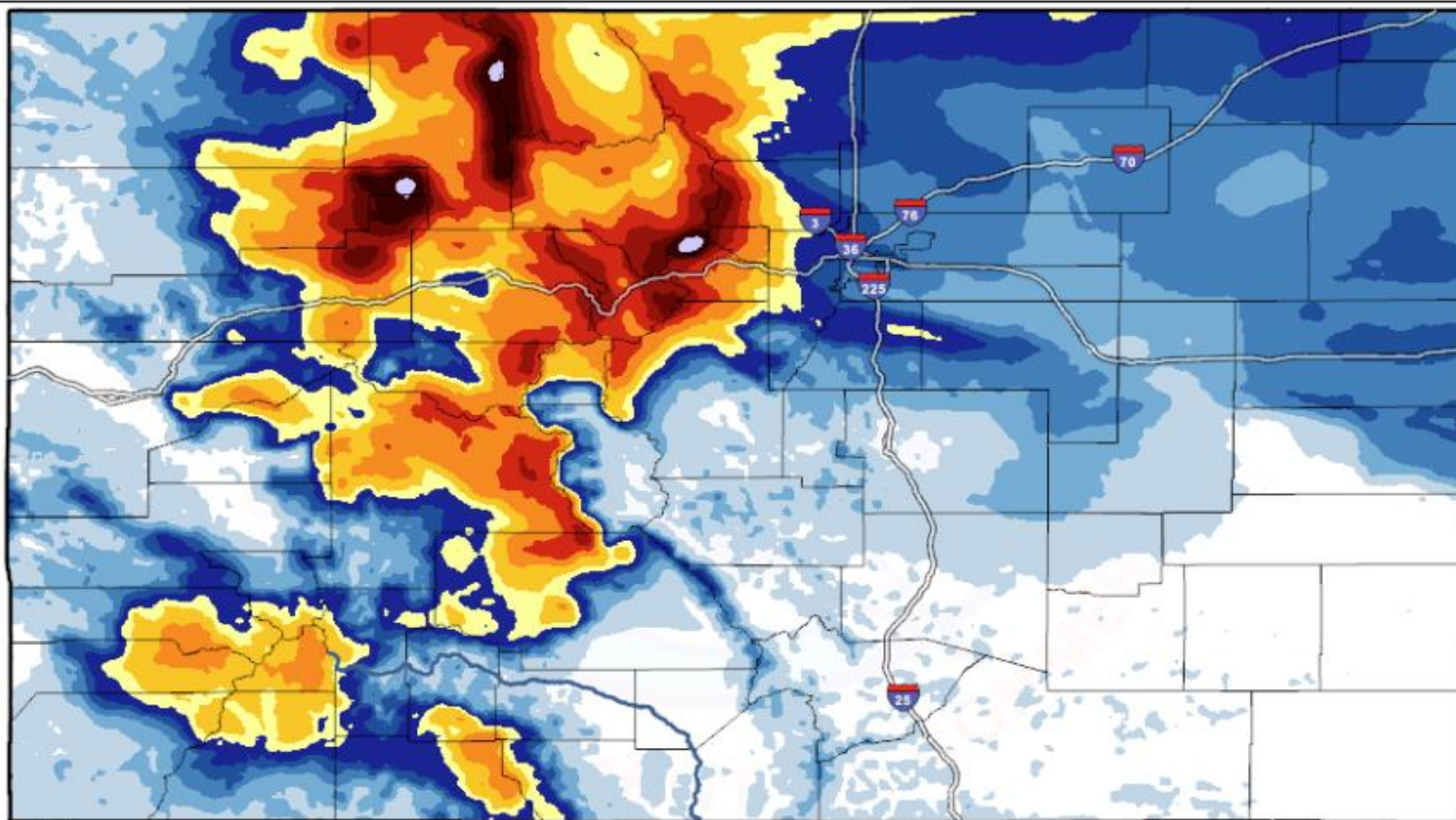
There was 1 day in which thunder was observed at Denver International Airport, and 1 day with dense fog with a visibility at or below 1/4 mile during the month. A peak wind gust of 49 mph from the west was recorded on the 10th



National Weather Service State of Colorado

Snowfall Analysis 01/12/2024 05:00AM to 01/15/2024 05:00PM MST

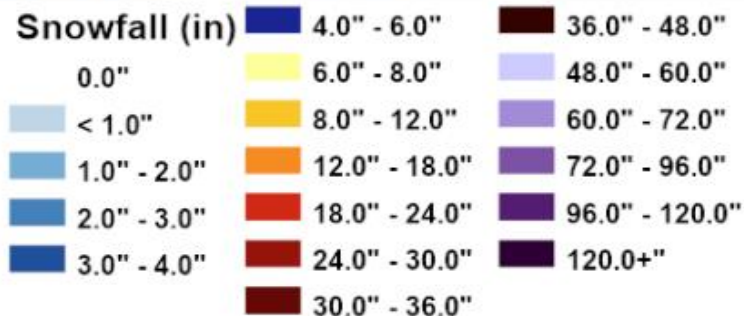
Preliminary Analysis Data Source: NOHRSC and Regional Observations (Values Estimated at Locations)



Created:
01/15/2024 09:48PM

0 36 72 144 Miles

This is an experimental product of the NWS GAZPACHO software package. Care should be taken in using the data. Unofficial observations may be plotted. Values at interpolated locations may not represent actual reports at that location.



Peak Wind Gusts January 13th 2024

Location	County	Peak Wind Gust
3 ESE Copper Mountain	Summit	119 MPH
2 E Copper Mountain	Summit	114 MPH
3 N Berthoud Pass	Grand	112 MPH
3 SW Breckenridge	Summit	107 MPH
2 S Winter Park	Grand	101 MPH
3 SE Tolland	Gilpin	82 MPH
1 S Copper Mountain	Summit	81 MPH
8 SW Tabernash	Grand	80 MPH
1 ENE Berthoud Pass	Grand	78 MPH
1 NW Loveland Pass	Clear Creek	76 MPH
3 S Loveland Pass	Summit	75 MPH
1 N Georgetown	Clear Creek	70 MPH



Difficult Travel in the Mountains on Sunday morning January 14th

