# ......March 2021 Climate Summary for the Denver Area.....



Photo taken by Russell Danielson



March 2021 was an active month with slightly below normal temperatures and much above normal precipitation and snowfall. The month started out mild and dry as upper level high pressure dominated the Rocky Mountain Region. Denver experienced cooler unsettled weather from the 10<sup>th</sup> through the 27<sup>th</sup> as a series of storm systems moved across the region. The most notable storm of the month and past several years occurred from the 13<sup>th</sup> through the 14th as a huge upper level storm system tracked across the Four Corners Region into the Central Plains States. Bands of snow developed over the northern Foothills and Mountains, on the afternoon of the 13th, and intensified during the evening hours. The heavy snow then gradually shifted south and east on the 14th and covered much of the area. The snow slowly decreased on the evening of the 14<sup>th</sup> with only some lingering light snow across the plains through the morning of the 15th. North winds increased to 25 to 35 mph, on the 14th, with gusts up to 50 mph. This produced blizzard conditions along the I-25 Corridor from Palmer Divide north to the Wyoming border. Denver International Airport runways were closed, from noon on the 14<sup>th</sup> until 2 pm on the 15th, with over 2000 flights canceled. All major Interstates were closed except for those areas around Denver and Fort Collins. Snowfall amounts along the I-25 Corridor ranged from 18" to 30" with 20" to 40" in the Foothills and Mountains. Local amounts up to 4 feet were reported in the northern Foothills and Mountains of Larimer county. The official snow for Denver was 27.1" which was the 4th largest storm on record since 1882. Dry weather and above normal temperature returned to North Central and Northeastern Colorado toward the end of the month with cooler unsettled weather the last two days of the month.

### **TEMPERATURES:**

The average temperature at Denver International Airport for the month of March was 39.4 degrees F which is 1.0 degrees below the normal of 40.4 degrees. The warmest Temperature of 75 degrees occurred on the 29th with the coldest temperature of 16 degrees on the morning of the 15<sup>th</sup>.

ELEVEN WARMEST MARCH AVERAGE TEMPERATURES IN DENVER WEATHER HISTORY SINCE 1872: DEGREES F

50.4 - 1910

49.2 - 2012

47.9 – 2017

47.2 – 1907

47.1 – 1986

47.0 - 1918

46.5 – 1879

46.4 - 2004, 1946

46.0 - 2007, 1887

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

26.4 - 1912 28.0 - 1924 29.0 - 1965 29.7 - 1906 32.1 - 1969 32.2 - 1891 32.8 - 1958 33.0 - 196433.1 - 1899

33.2 - 1917

### **PRECIPITATION:**

Denver received 3.80 inches of precipitation during the month, making it the 2<sup>nd</sup> wettest March in Denver Weather History. This is 2.88 inches above the average of 0.92 inches. The highest daily precipitation amount of 2.28 inches was measured on the 14th. This is the second greatest daily precipitation amount ever recorded in the month of March in Denver. The greatest daily amount of 2.68 inches occurred on March 5<sup>th</sup> of 1983.

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

4.56 - 1983 3.80 - 2021 3.50 - 1992 3.10 - 1990, 1891 3.07 - *1905* 3.05 - 2003 3.03 - 1909 2.85 - 1959 2.75 - 1944

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

0.03 - 2012 0.11 - 1908 0.14 - 2008, 2004 0.18 - 1982 0.19 - 1999 0.20 - 1882 0.21 - 1883, 1880 0.22 - 1945, 1873

March Precipitation & Snowfall Records Denver Area			
Year 872)	Snow (since	Year 1882)	
1983	35.2″	2003	
2021	34.0"	2021	
1992	32.5"	1944	
1990	31.3″	1891	
1891	30.5″	1983	
	Year 872) 1983 <b>2021</b> 1992 1990	Year 872) Snow (since   1983 35.2"   2021 34.0"   1992 32.5"   1990 31.3"	

\* Denver's all time snowiest month

### SNOWFALL:

34.0 inches of snow fell during March 2021 which is 23.3 inches above the average of 10.7 inches. This makes March of 2 the 2<sup>nd</sup> snowiest March and the 4<sup>th</sup> snowiest month in Denver Weather History The majority of March`s snowfall (27.1 inch fell from the 13<sup>th</sup> through the 14<sup>th</sup> as a potent winter storm moved across the region. This makes the March 13<sup>th</sup>-14<sup>th</sup> Winter Storm the 4<sup>th</sup> largest snowstorm in Denver Weather History.

TEN SNOWIEST MARCH'S IN DENVER WEATHER HISTORY SINCE 1872: INCHES

35.2 - 2003 34.0 - 2021 32.5 - 1944 31.3 - 1891 30.5 - 1983 29.2 - 1961 26.8 - 1959 25.7 - 1923 25.2 - 1952

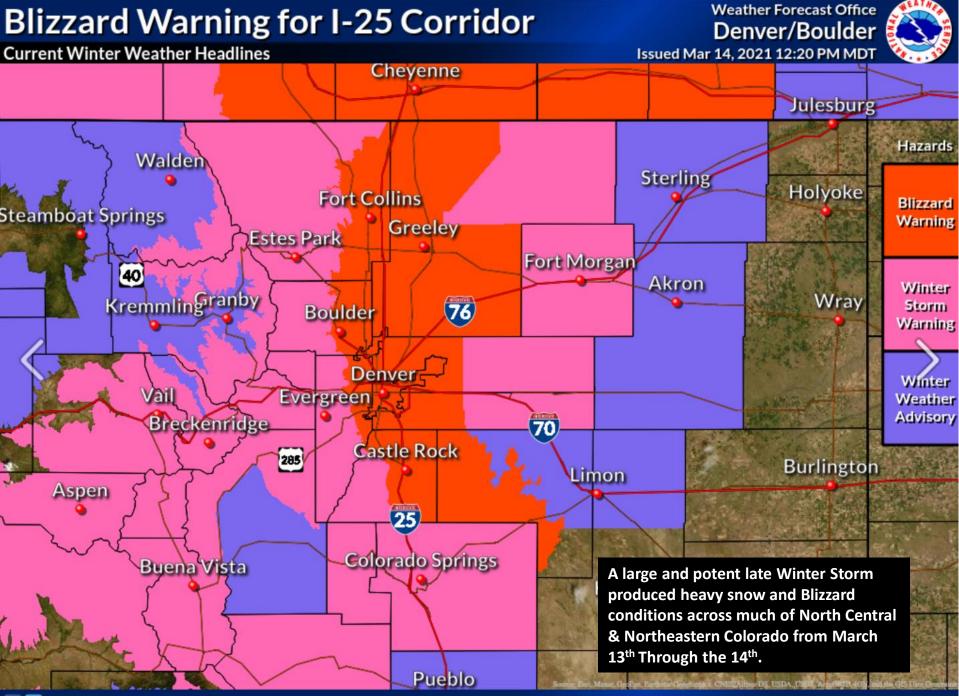
24.8 - 1929

ELEVEN LEAST SNOWIEST MARCH'S IN DENVER WEATHER HISTORY SINCE 1872: INCHES

TRACE - 2017, 2012, 1995

- 0.3 1883
- 0.4 1911
- 0.5 1885
- 1.1 1887
- 1.8 2004
- 2.0 1882
- 2.1 1982, 1908

No thunder was observed at Denver International Airport in March 2021. There were 14 days in which fog was detected and with 5 of those days experiencing dense fog with visibility restricted to below ¼ mile. A peak wind of 56 mph from the



f 💟 NWSBoulder

weather.gov/bou

### March 13<sup>th</sup> 5:00 AM

500 MB

LOW

۵

Large Storm System approaching the Four Corners Region. Bands of Heavy Snow developed in the Northern Mountains and Foothills during the afternoon of the 13th and continued through the night.

-

.

### March 14<sup>th</sup> 6:00 AM

500 MB

LOW

Large Storm System moves into South Central Colorado. Heavy Snow spreads south and east across the Front Range Urban Corridor, Palmer Divide and portions of the Northeastern Plains. Blizzard Conditions develop over the Front Range Urban Corridor & Palmer Divide during the afternoon.

## March 15<sup>th</sup> 6:00 AM

. /

8

8

A HILL

500 MB

LOW

•

Large Storm System moves into Northwestern Kansas. Lingering light snow showers end across Northeastern Colorado.

.

#### Radar Mosaic: March 14<sup>th</sup> 2021 7:35 AM MDT

**South Dakota** 

+

Cold Air

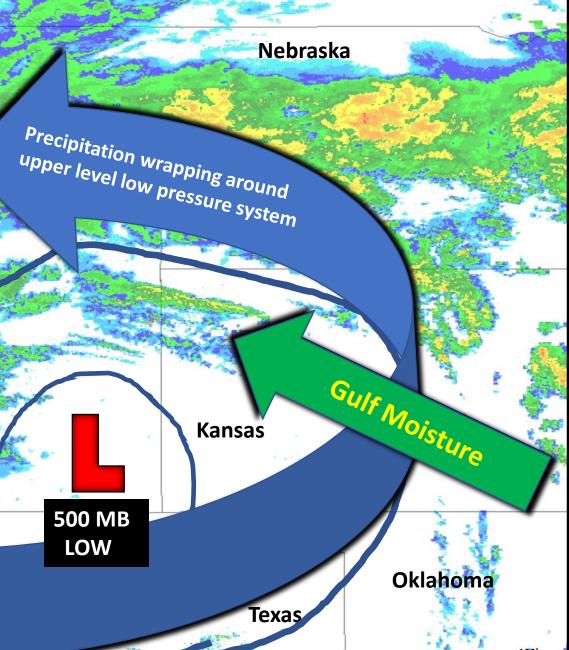
Colorado

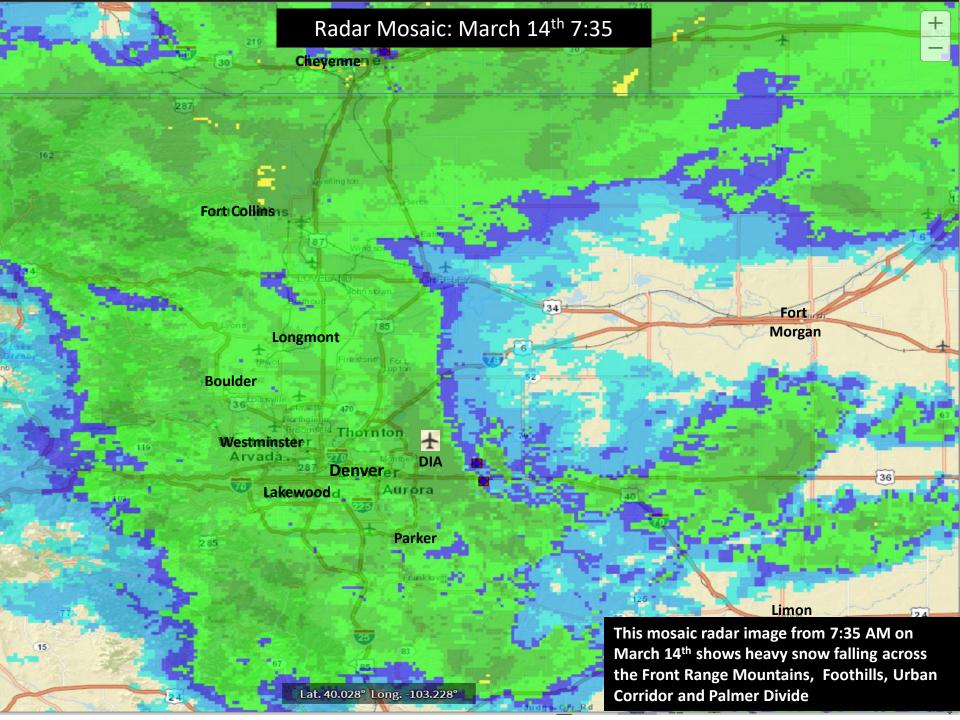
Denver

### Wyoming

Lift and upslope flow associated with a large upper level storm system combined with an influx of gulf moisture and cold air from the north produced heavy snow and blizzard conditions across much of North Central and Northeastern CO. March <u>13</u><sup>th</sup>-14<sup>th</sup>.

New Mexico

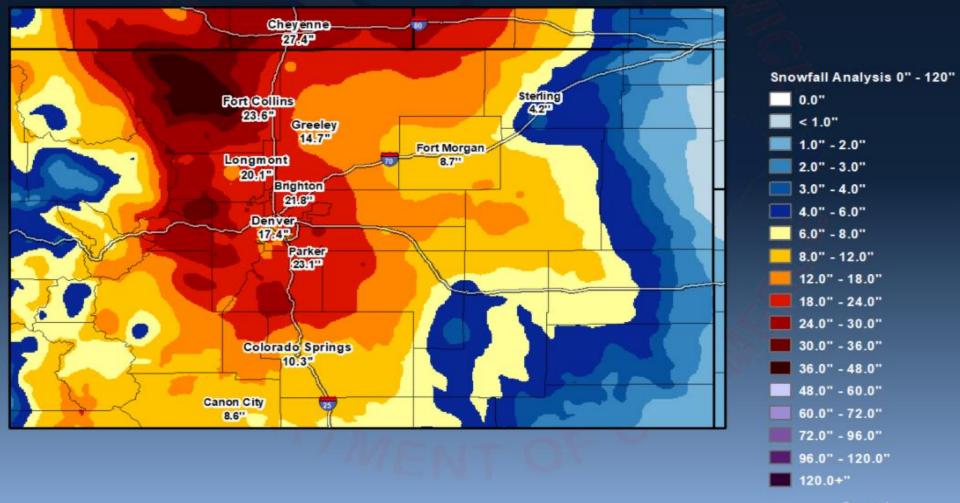




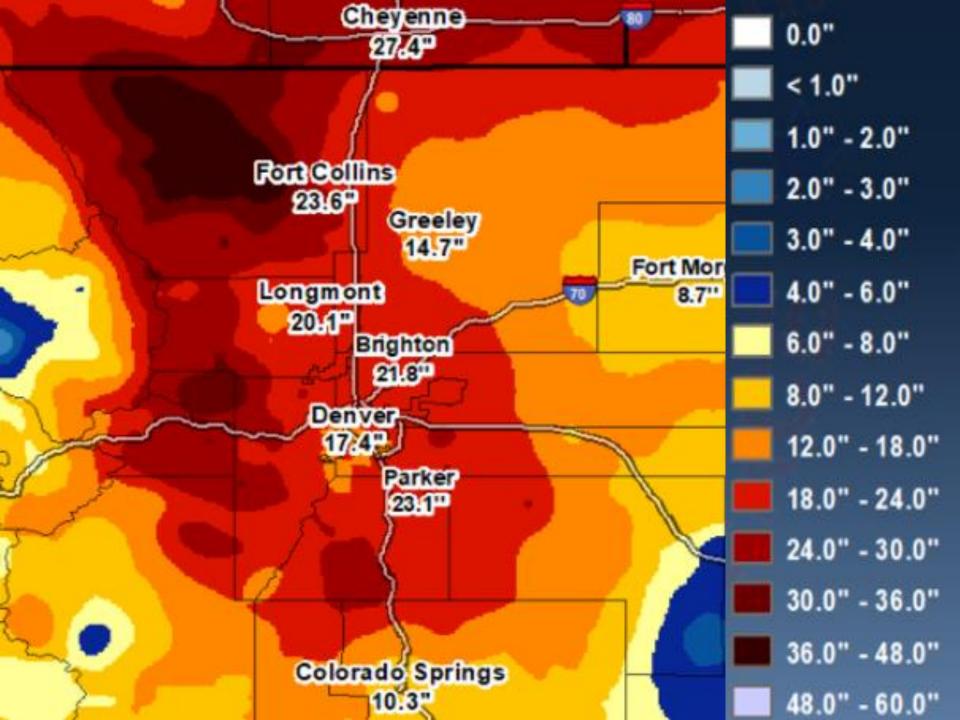
### **National Weather Service**

#### Snowfall Analysis 03/12/2021 05:00AM MDT to 03/15/2021 06:00PM MDT

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



Created: 03/19/2021 07:47AM



# 25 Biggest Denver Snowstorms (1881–Present)

a server	State of the second	
Snowfall (inches)	Dates	
45.7	Dec 1-5, 1913	
31.8	Mar 17-19, 2003	
30.4	Nov 2-4, 1946	
27.1	Mar 13-14, 2021	
23.8	Dec 24th 1982	
23.0	Apr 23rd, 1885	
22.7	Oct 20-23, 1906	
21.9	Oct 24-25, 1997	
21.5	Nov 26-27, 1983	
20.7	Dec 20-21, 2006	
19.3	Jan 29-31, 1883	
19.0	Apr 24-25, 1935	
18.7	Mar 5-6, 1983	
18.5	Mar 20-22, 1944	
18.2	Apr 17-19, 1920	N
18.0	Apr 19-20, 1907	
18.0	Mar 31-Apr 1, 1891	
17.7	Nov 19-21, 1979	
17.3	Apr 2 1957	
16.9	Mar 20-21, 1952	
16.8	Apr 20-22, 1933	
16.5	Sep 26-28, 1936	
16.0	Oct 3-5, 1969	
15.9	Feb 2-4, 2012	
15.8	Apr 26-27, 1972	

