

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

Kawuneeche Valley February 21, 2024 8:49 am



February 2024 saw a progressive weather pattern with stretches of mild and dry weather due to upper level ridging and periods of colder unsettled weather from occasional upper level storm systems and associated cold fronts. The two most notable storms of the month occurred on February 3rd and from the evening of the 9th into the 10th. The February 3rd storm produced rain and heavy wet snow across the foothills and Front Range Urban Corridor, while the February 9th & 10th storm pounded much of Weld County, including the city of Greeley as well as the western suburbs of Denver and adjacent foothills. The month ended with above normal temperatures and much above normal precipitation.

TEMPERATURES:

The average temperature at Denver International Airport for the month of February was 37.6 degrees F which is 4.9 degrees above the normal of 32.7 degrees. The warmest Temperature of 65 degrees occurred on the 25th and 26th,with the coldest temperature of 7 degrees on the morning of the 17th

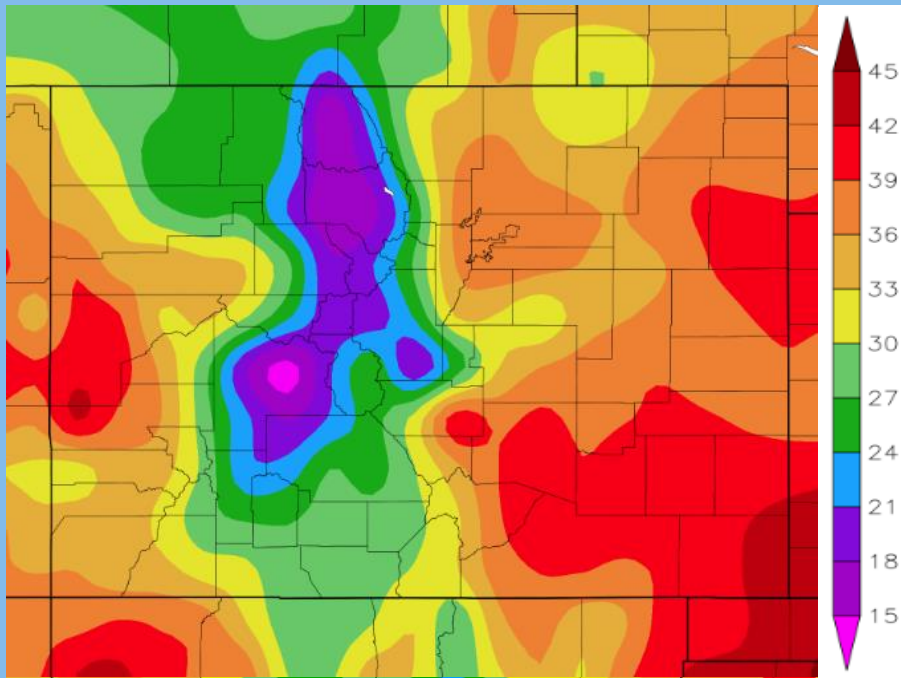
TEN WARMEST FEBRUARY AVERAGE TEMPERATURES IN DENVER WEATHER HISTORY SINCE 1872: DEGREES F

- 43.7 – 1954
- 42.3 - 1930
- 41.0 – 1925
- 40.7 – 1957
- 40.5 – 1943
- 40.3 - 2017, 1991, 1907
- 40.1 - 1992, 1904

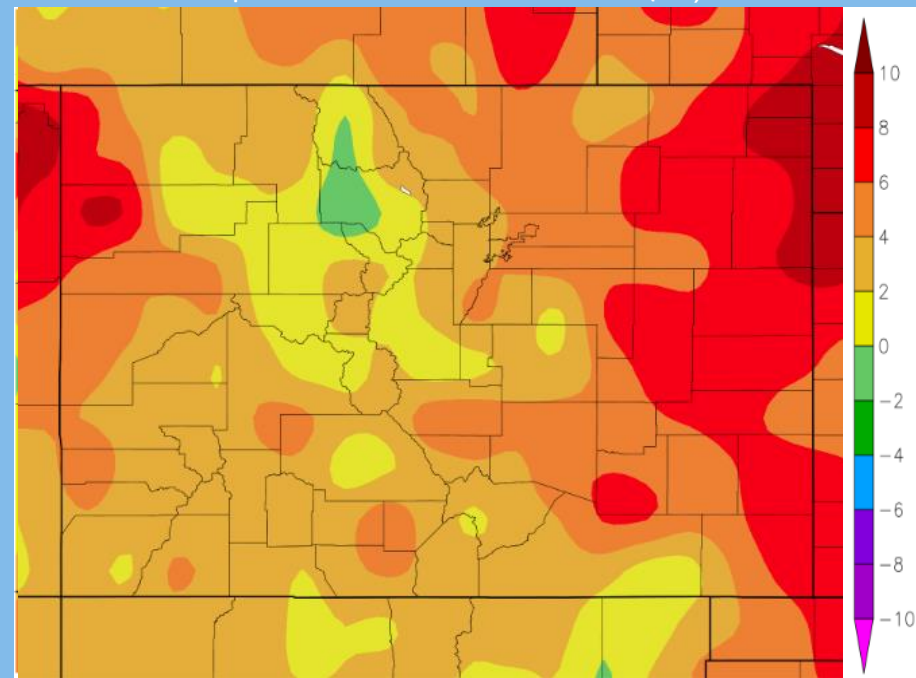
TEN COLDEST FEBRUARY AVERAGE TEMPERATURES IN DENVER WEATHER HISTORY SINCE 1872: DEGREES F

- 17.7 – 1899
- 21.8 – 1913
- 22.2 – 1883
- 22.3 – 1989
- 22.7 – 1903
- 23.6 – 1929
- 24.1 – 1942
- 24.8 – 1960
- 24.9 – 1894
- 25.2 - 1905

Average Temperature
February 2024 (°F)



February 2024 Temperature
Departure from Normal (°F)



Graphics generated by HPRCC using provisional data

PRECIPITATION:

Denver received 1.46 inches of precipitation during the month, which is 1.05 inches above the average of 0.41 inches. This makes February 2024 the 3rd wettest February in Denver Weather History. The highest daily precipitation amount of 0.72 inches was measured on the 3rd which is the third wettest day in February in Denver since records started way back in 1872. The wettest day in February occurred on February 19th 1953 when 1.01” of precipitation was measured. This storm produced unprecedented rainfall amounts across some locations. The Fort Collins Cooperative weather station set a new 24 hour precipitation record for the month of February with 1.66” of precipitation measured ending at 7 pm on the 3rd. The 24 hour amount also exceeded the February monthly record of 1.65” set way back in 1912.

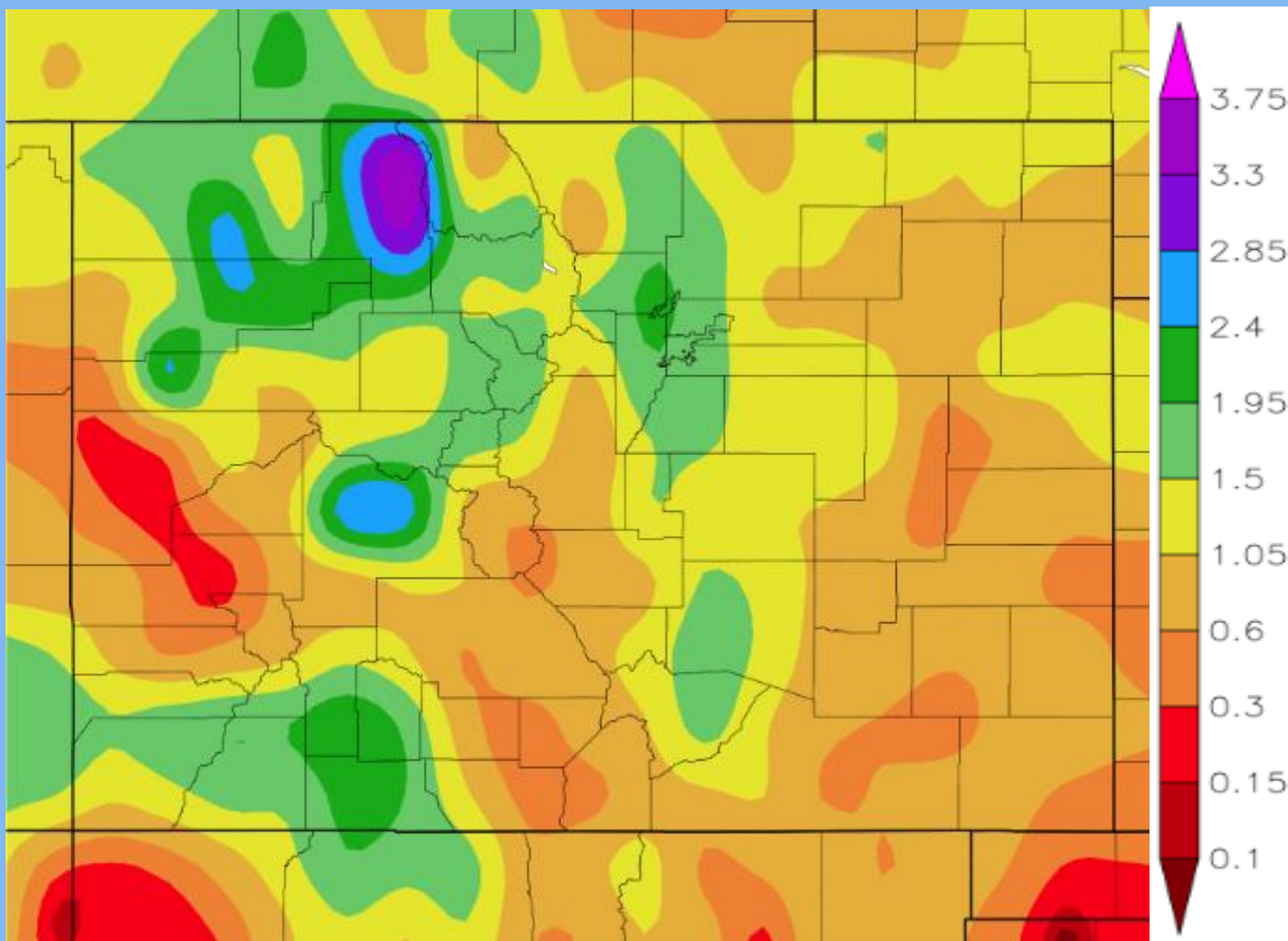
TEN WETTEST FEBRUARY PRECIPITATION TOTALS IN DENVER WEATHER HISTORY SINCE 1872: INCHES

- 2.01 – 1934
- 1.66 – 1960
- 1.46 – 2024
- 1.44 – 1942
- 1.39 – 1953
- 1.35 – 1909
- 1.34 – 1912
- 1.31 – 1959
- 1.28 - 1966, 1939

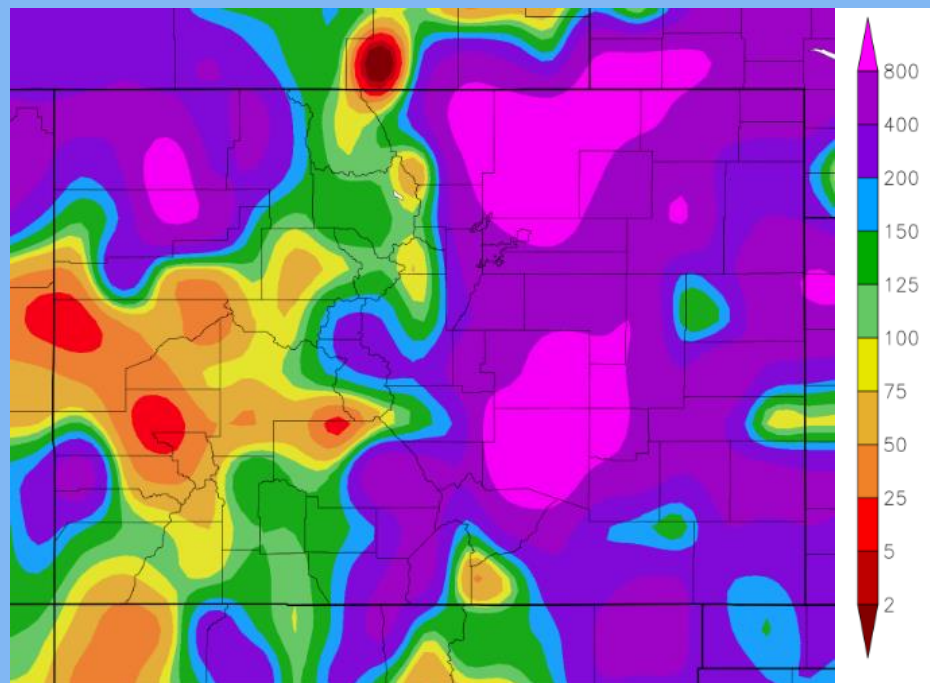
TEN DRIEST FEBRUARY PRECIPITATION TOTALS IN DENVER WEATHER HISTORY SINCE 1872: INCHES

- 0.01 – 1970
- 0.02 – 2005
- 0.03 – 1916
- 0.04 - 2009, 1954, 1925, 1908
- 0.06 - 1906, 1901
- 0.07 - 1983

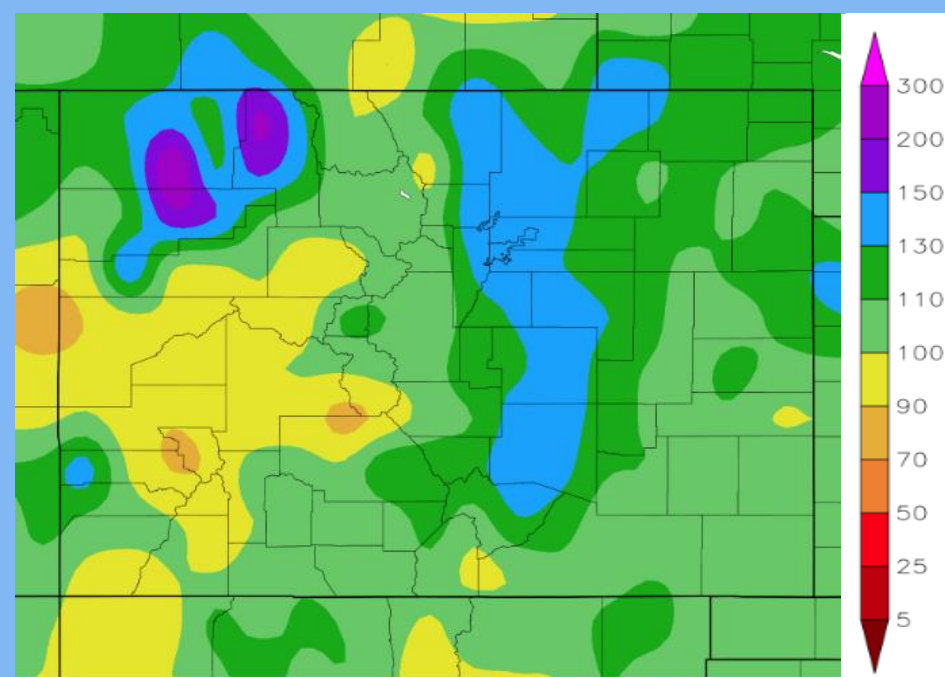
February 2024 Precipitation (Inches)



Percent of normal Precipitation (%)
February 2024



Departure from Normal
February Precipitation 2024 (Inches)



Graphics generated by HPRCC using provisional data

SNOWFALL:

13.7 inches of snow fell during February 2024 which is 8.0 inches above the average of 5.7 inches. Almost half of the monthly snowfall fell on the 3rd when 5.5 inches of heavy wet snow was measured at Denver International Airport.

TWELVE SNOWIEST FEBRUARYS IN DENVER WEATHER HISTORY SINCE 1872: INCHES

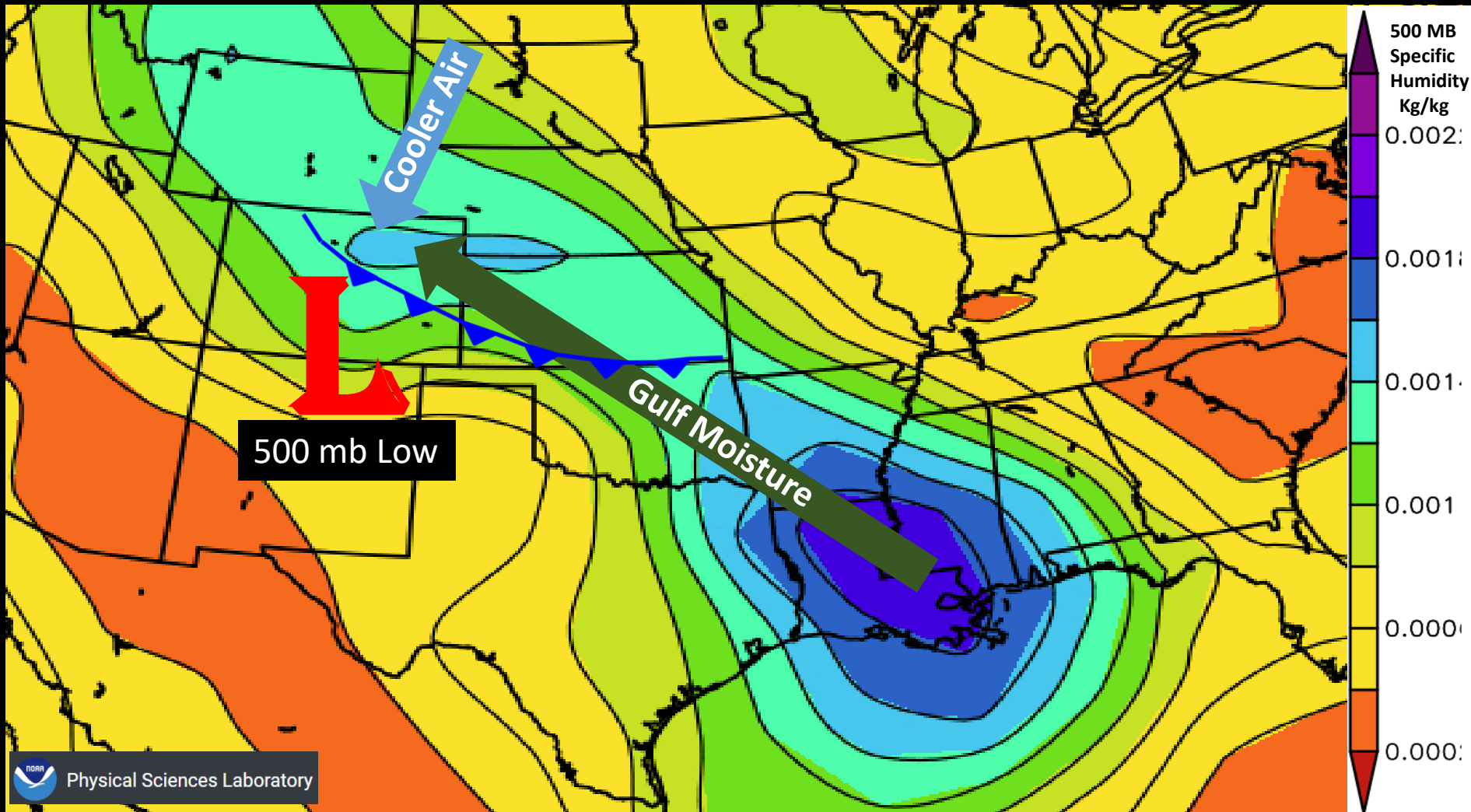
- 22.4 – 2015
- 22.1 – 1912
- 20.2 – 2012
- 19.5 – 1942
- 18.3 - 1960, 1909
- 18.0 – 1931
- 17.5 – 1959
- 17.1 – 1965
- 16.9 – 1993
- 16.5 - 2020, 1953

TEN LEAST SNOWIEST FEBRUARYS IN DENVER WEATHER HISTORY SINCE 1872: INCHES

- TRACE – 2009
- 0.1 – 1992
- 0.2 – 1970
- 0.3 – 1954
- 0.4 – 1925
- 0.5 – 2005
- 0.8 – 1991
- 0.9 – 1983
- 1.0 - 1943, 1908

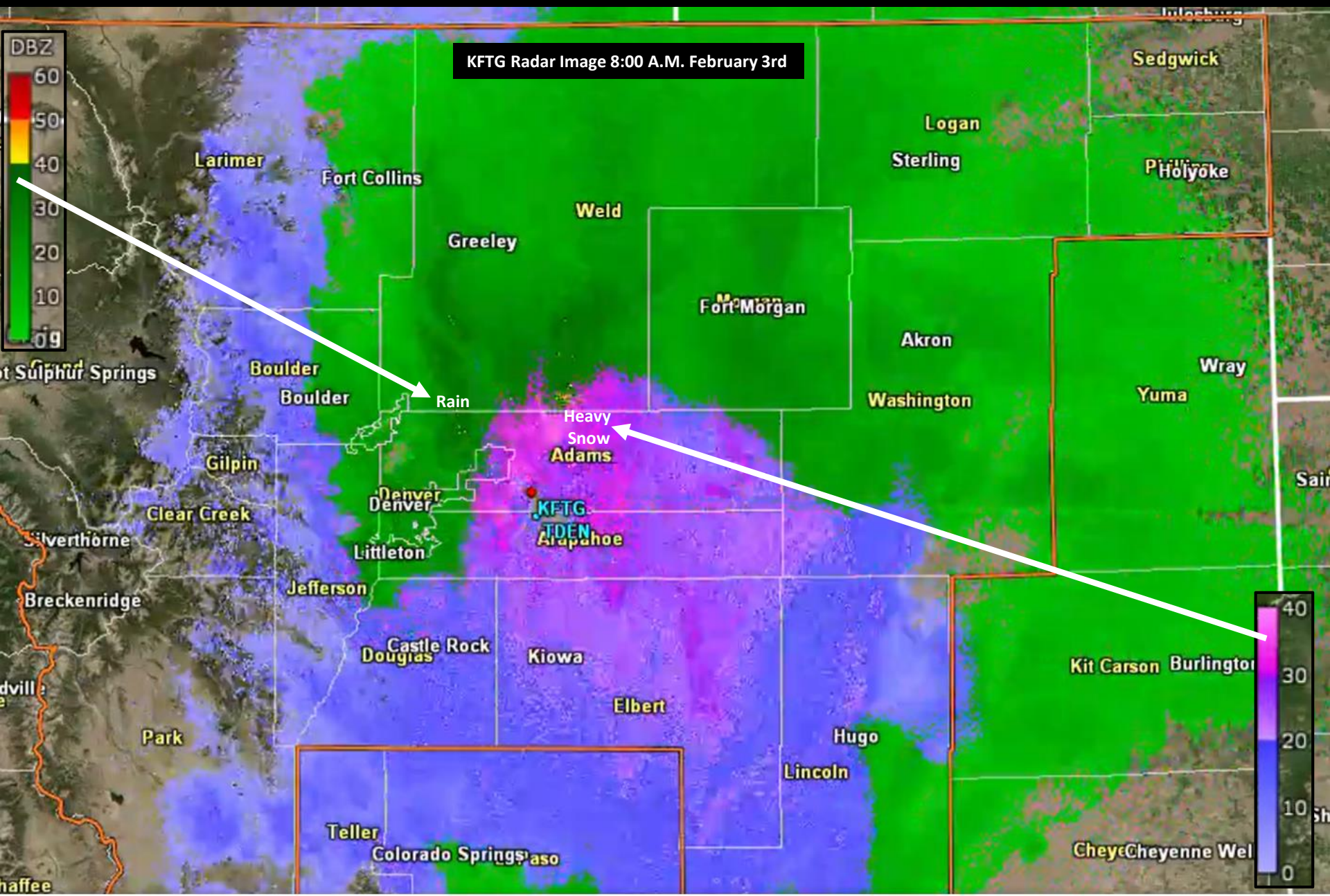
No thunder was observed at Denver International Airport in February 2024. There were 6 days with dense reducing the visibility to ¼ mile or below. A peak wind of 58 mph from the north northwest was recorded on the 27th.

February 3rd 2024 Storm



A deep negative tilted upper level trough of low pressure moving across the Rocky Mountain region allowed an atmospheric river of Gulf moisture to flow into Eastern Colorado. The combination of deep moisture, lift from the upper trough and colder moist upslope flow behind the passage of a cold front, produced much needed precipitation across Northeastern Colorado on February 3rd. The heaviest precipitation fell across the western sections of the Front Range Urban Corridor with some locations measuring over 2 inches. The precipitation started out as rain before switching over to heavy wet snow. 4 to 8 inches fell across much of Metro Denver from this event with some western suburbs measuring over one foot. Even higher amounts fell across the foothills with amounts up to 20 inches in a couple of spots.

The greens on this radar image show areas of rain while the blues, purples and pinks depict areas of snow. At 8 am on February 3rd, it was still raining across much of the Front Range Urban Corridor from Metro Denver North to near the Wyoming border. From DIA eastward across Adams and Arapahoe Counties, the rain had changed over to heavy wet snow.

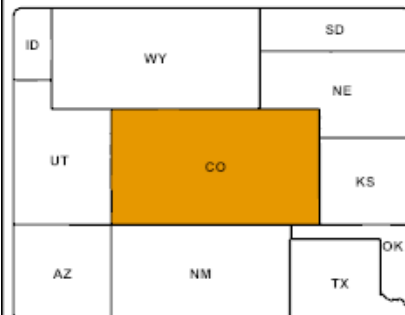
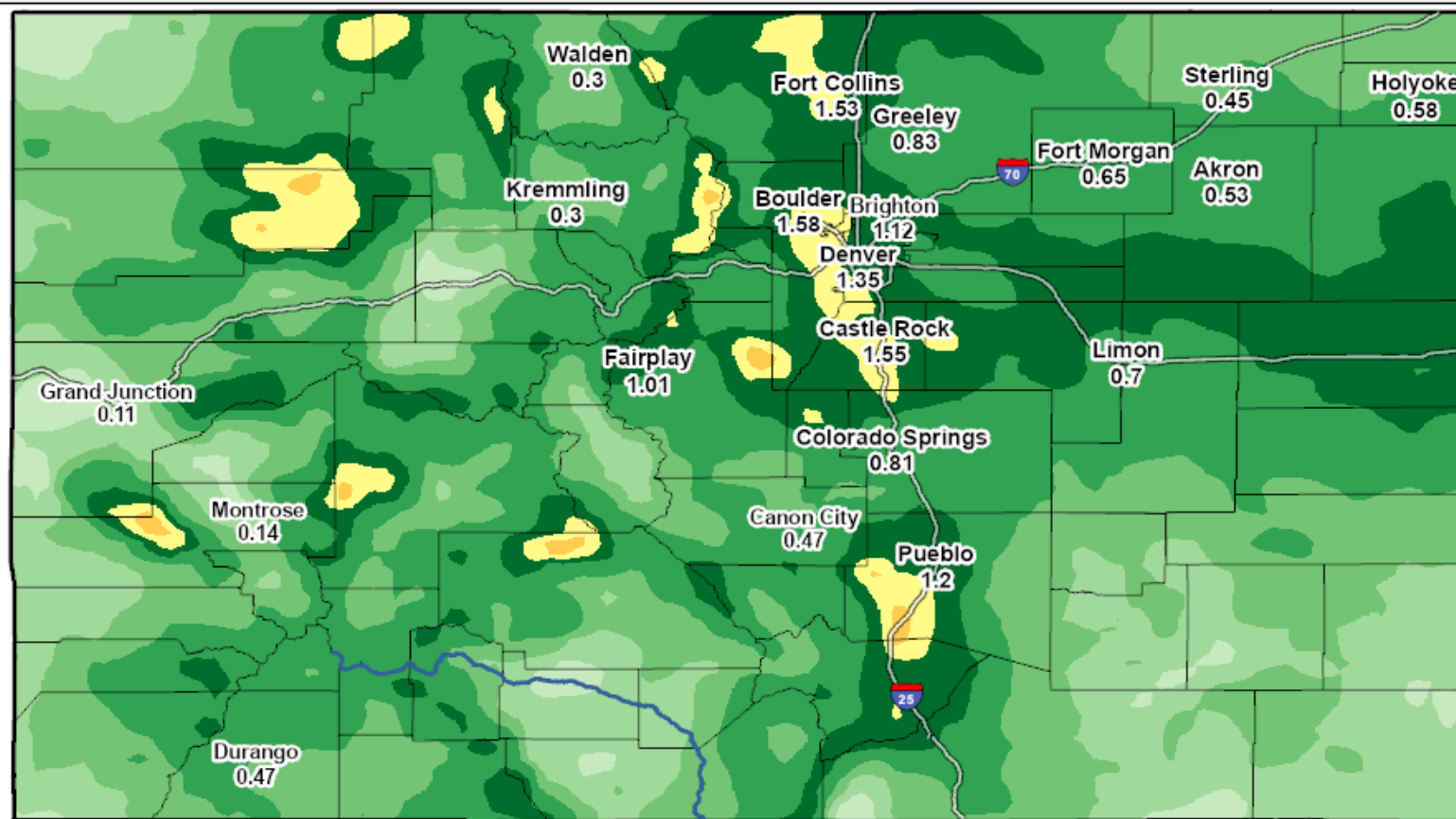




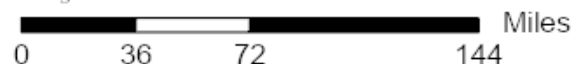
National Weather Service State of Colorado

Rainfall Analysis 02/02/2024 05:00AM to 02/04/2024 05:00AM MST

Analysis Data Source: NCEP Stage IV (Values Estimated at Locations)



Created:
02/23/2024 02:55PM



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.

Precipitation (in)

0.00"
0.01" - 0.09"
0.10" - 0.24"
0.25" - 0.49"
0.50" - 0.99"

1.00" - 1.49"
1.50" - 1.99"
2.00" - 2.99"
3.00" - 3.99"
4.00" - 5.99"
6.00" - 7.99"
8.00" - 9.99"
10.00" - 14.99"
15.00" - 19.99"
20.00" - 29.99"
30.00" - 50.00+"

Webcam showing very heavy snow and low visibility causing a traffic jam on US 36 near Boulder on the afternoon of February 3rd

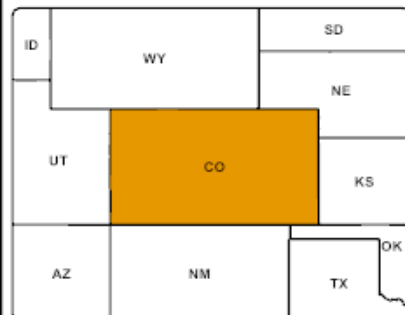
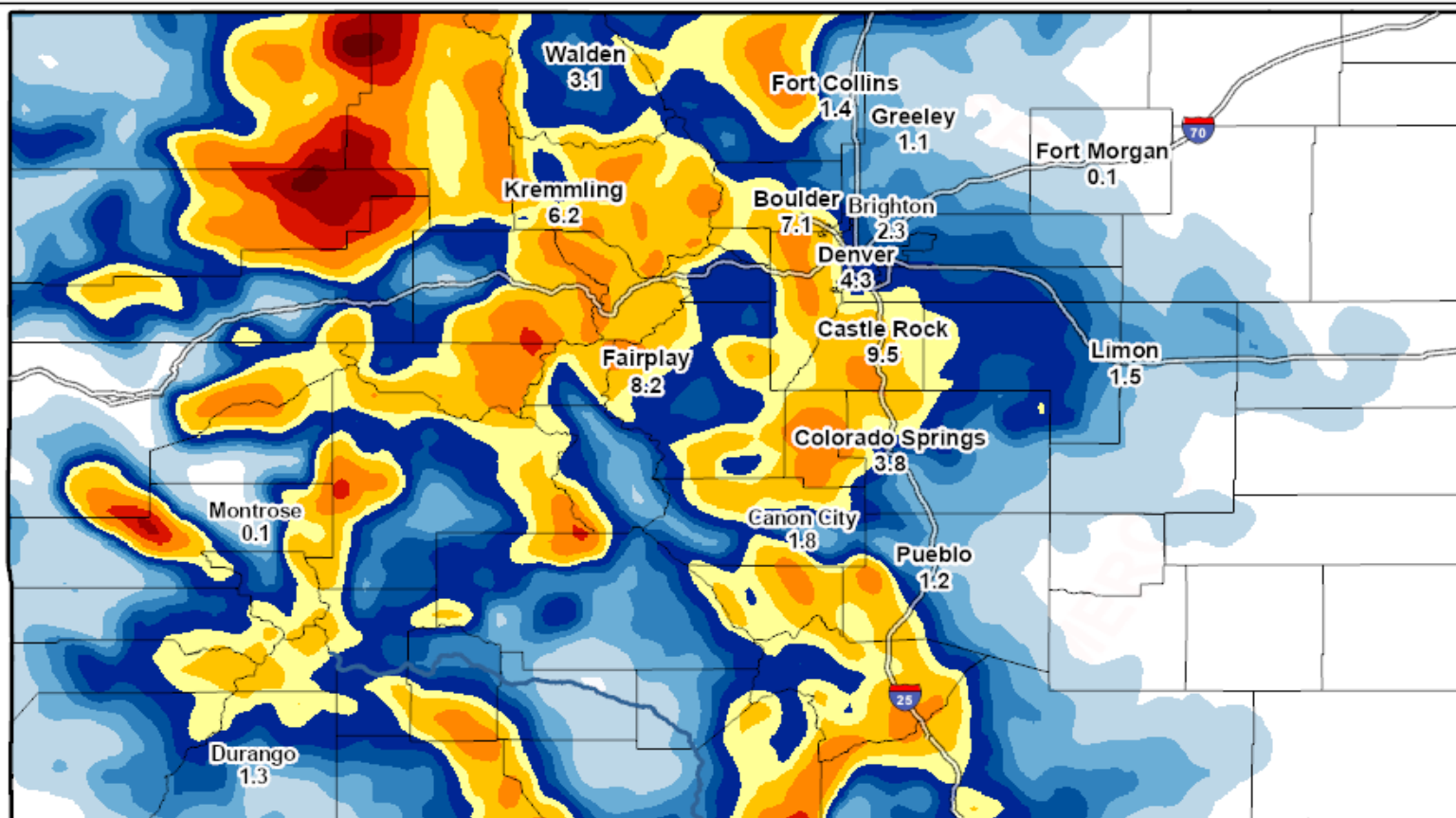




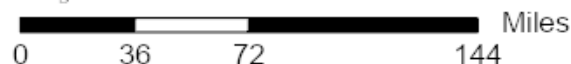
National Weather Service State of Colorado

Snowfall Analysis 02/02/2024 05:00AM to 02/04/2024 05:00AM MST

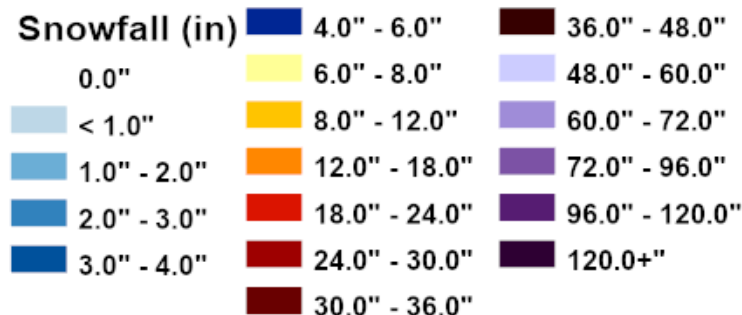
Analysis Data Source: NOHRSC (Values Estimated at Locations)



Created:
02/23/2024 02:57PM



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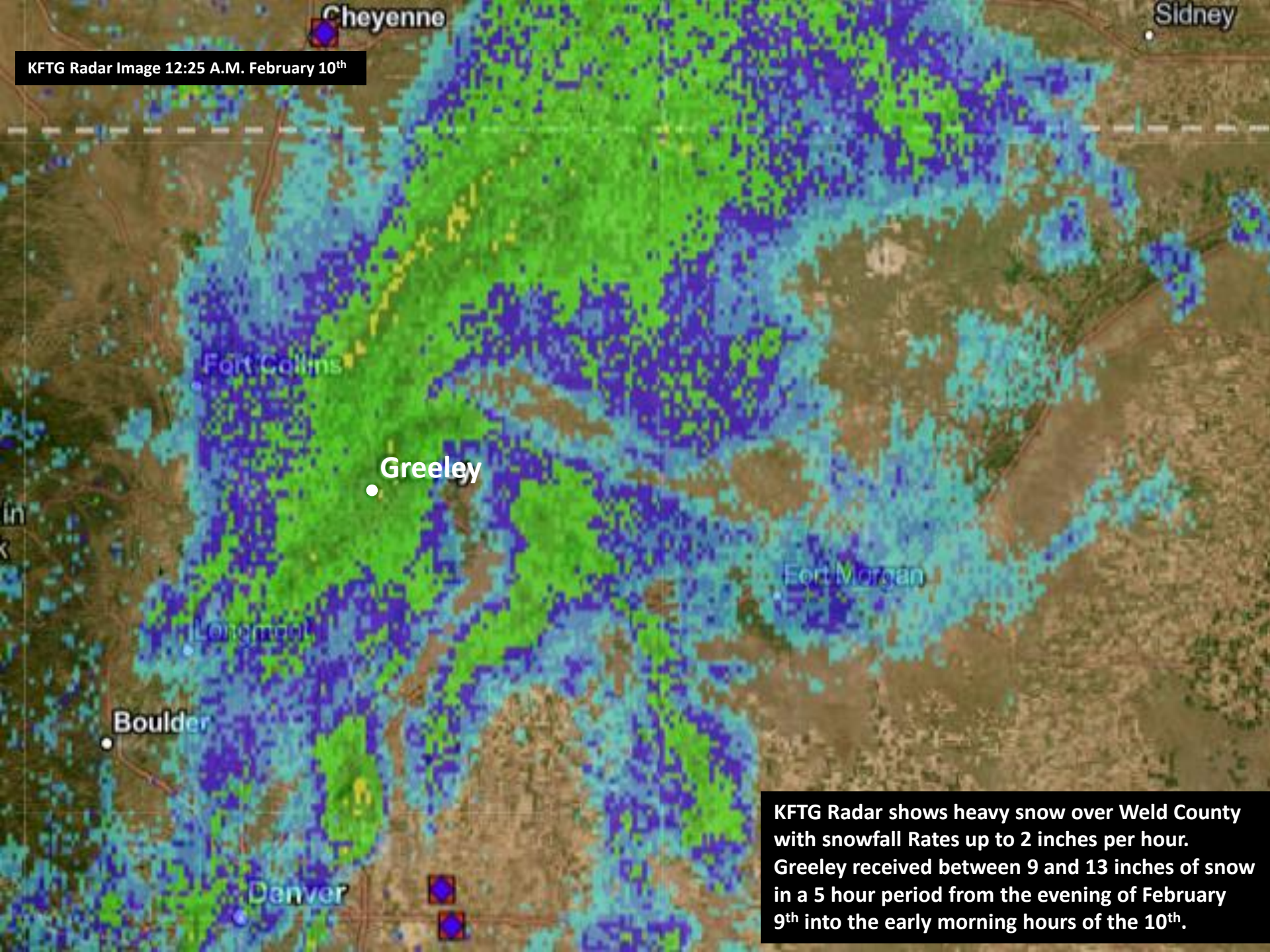


Snowfall Reports

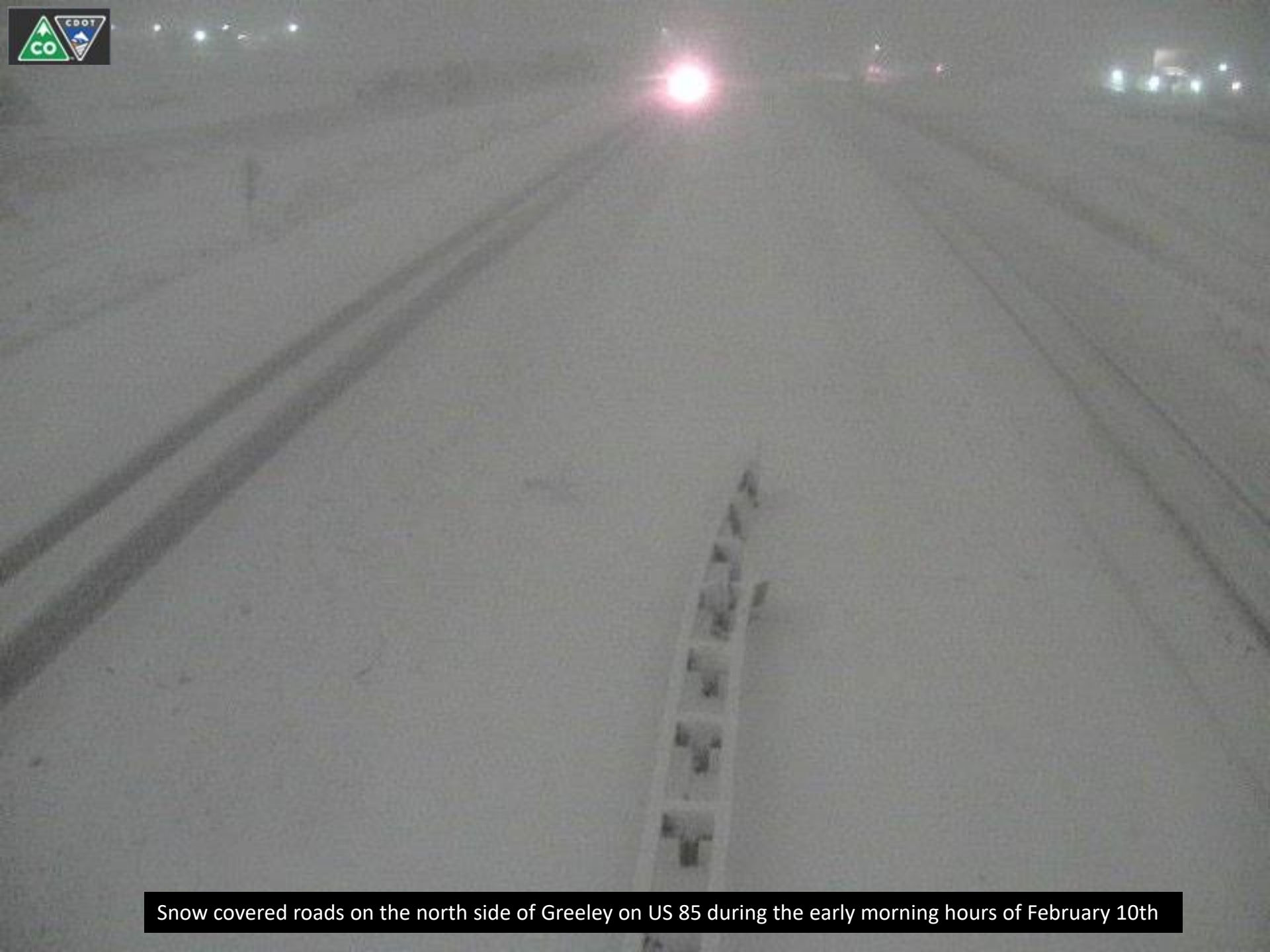
February 3rd 2024

Location	Amount
1 SSW Crescent Village	19.0
Morrison	16.0
1 NNW Genesee	14.7
1 WNW Loveland Pass	14.0
2 SSW Rocky Flats	13.5
1 ESE Ken Caryl	13.0
Tiny Town	12.6
1 SSW Copper Mountain	12.0
1 NNW Louisville	12.0
3 WNW Mishawaka	11.2
3 WNW Arvada	10.6
1 NNW Roxborough	10.5
1 NNW Castle Rock	10.0

KFTG Radar Image 12:25 A.M. February 10th



KFTG Radar shows heavy snow over Weld County with snowfall Rates up to 2 inches per hour. Greeley received between 9 and 13 inches of snow in a 5 hour period from the evening of February 9th into the early morning hours of the 10th.



Snow covered roads on the north side of Greeley on US 85 during the early morning hours of February 10th



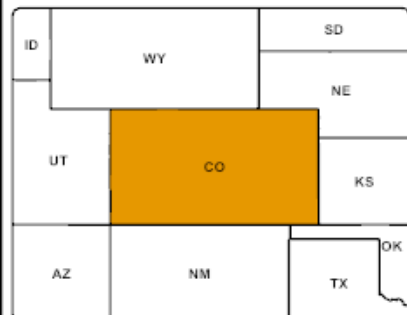
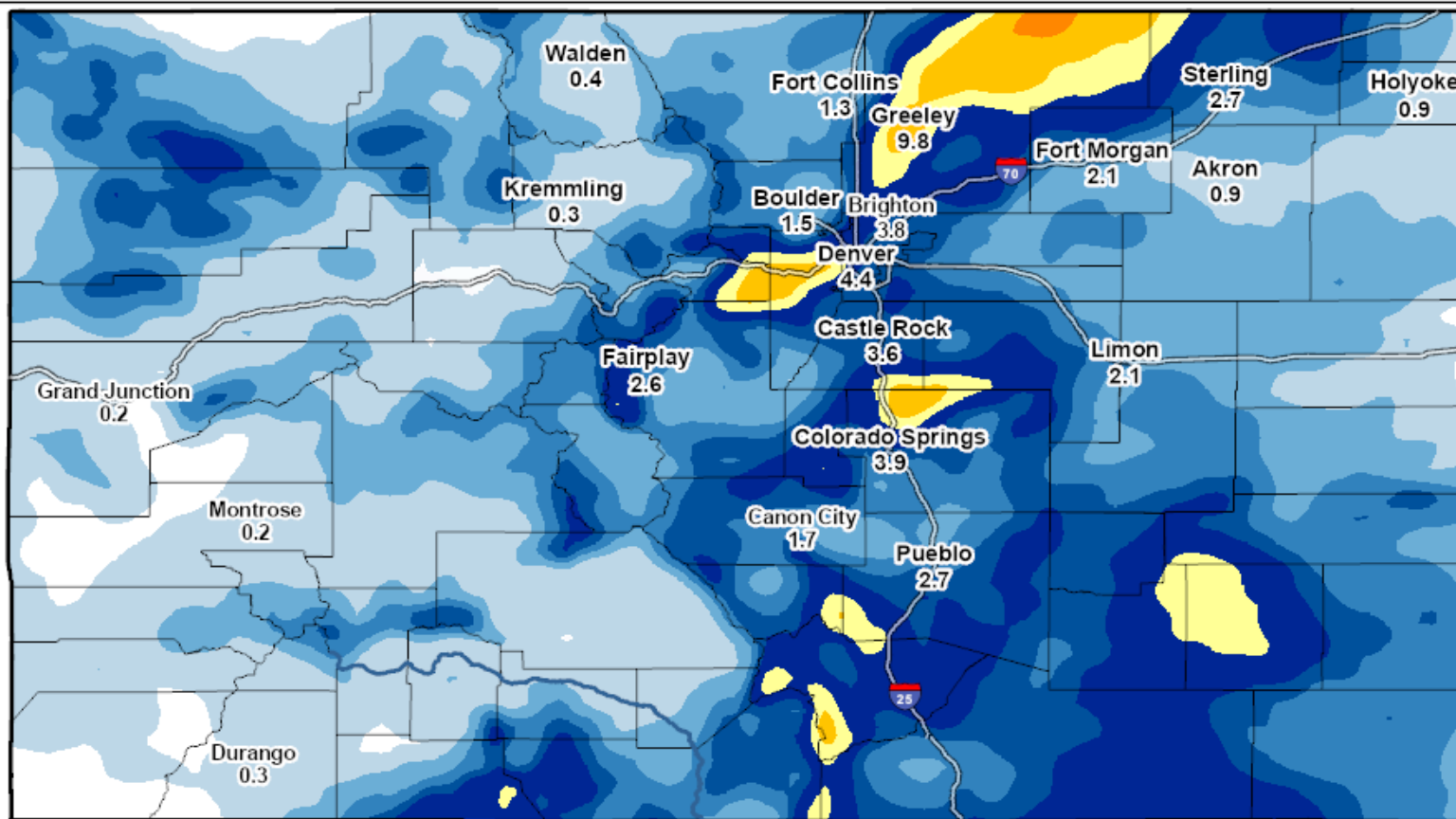
A blanket of snow covers a backyard deck in
Greeley on the morning of February 10th
Photo taken by Julie Wittow



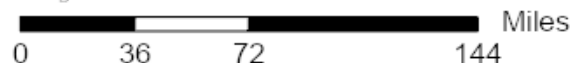
National Weather Service State of Colorado

Snowfall Analysis 02/09/2024 05:00PM to 02/11/2024 05:00AM MST

Analysis Data Source: NOHRSC (Values Estimated at Locations)



Created:
02/23/2024 04:30PM



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.

