



Denver Monthly Climate Summary

May, 2024

NWS Boulder



NATIONAL WEATHER SERVICE
OCEANIC AND ATMOSPHERIC ADMINISTRATION

Issued: 6/1/2024



Monthly Overview

June 1, 2024
7:13 PM

The month started out dry and windy with gusts in the 50's at DIA on the 1st, 3rd, 5th, 6th and 7th. High winds affected portions of the Denver Metro area on the 6th with peak gusts in the 55 to 75 mph range. In the foothills winds gusted in the 65 to 85 mph range.

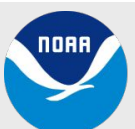
By the middle part of the month, thunderstorms became more prevalent which continued through the end of the month. There were a few severe weather events in the latter half of the month on the 19th, 20th, 28th and 30th and 31st.

An EF2 tornado occurred near Proctor, CO on 5/19. Meanwhile very large hail occurred on the 20th, over portions of the plains, with baseball to softball size reported.

On the 28th, a severe thunderstorm affected the Greeley area late in the evening with hail up to 2 inches in diameter. In addition, very heavy rainfall occurred which caused flash flooding across portions of the city. Damage estimates so far are around 1.5 million dollars.

Meanwhile on the 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. Damage estimates are likely going to be in the hundreds of millions of dollars.

Finally, on the 31st, severe thunderstorms occurred over portions of the Palmer Divide in the late afternoon and evening hours. Hail up to 2.25 inches was reported in some areas.





Monthly Temperature Data

June 1, 2024
7:13 PM

- Temperatures were near normal in Denver this month. Denver's mean temperature was 56.9°F, which is 0.5°F below normal.
- The highest temperature for the month was 83°F on the 29th, and the lowest temperature was 30°F which occurred on the 2nd.
- No temperature records were broken during the month.

Temperature	Observed	Normal	Departure
Average High	70.6	71.2	-0.6
Average Low	43.2	43.6	-0.4
Average Mean	56.9	57.4	-0.5

Temperature Records set this Month:

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





Monthly Precipitation/Snowfall Data

June 1, 2024
7:13 PM

- Precipitation was below normal in Denver this month
- No snow was observed, which is 1.4" below the normal May snowfall
- No precipitation records were observed this month

Precipitation	Observed	Normal	Departure
Total Precipitation	1.70"	2.16"	-0.46"
# of Days w/ Measurable	5	10	-5

Snowfall	Observed	Normal	Departure
Total Snowfall	0.0"	1.4"	-1.4"

Precipitation Records set this Month:

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

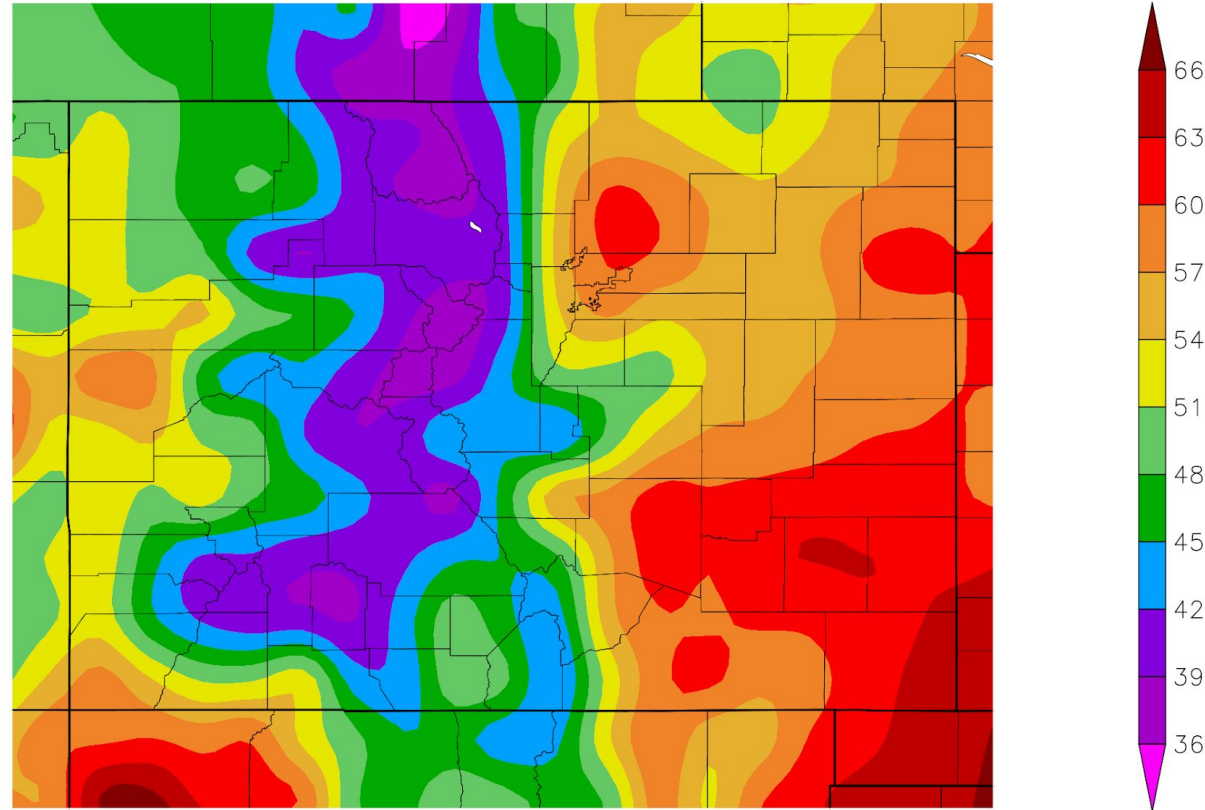




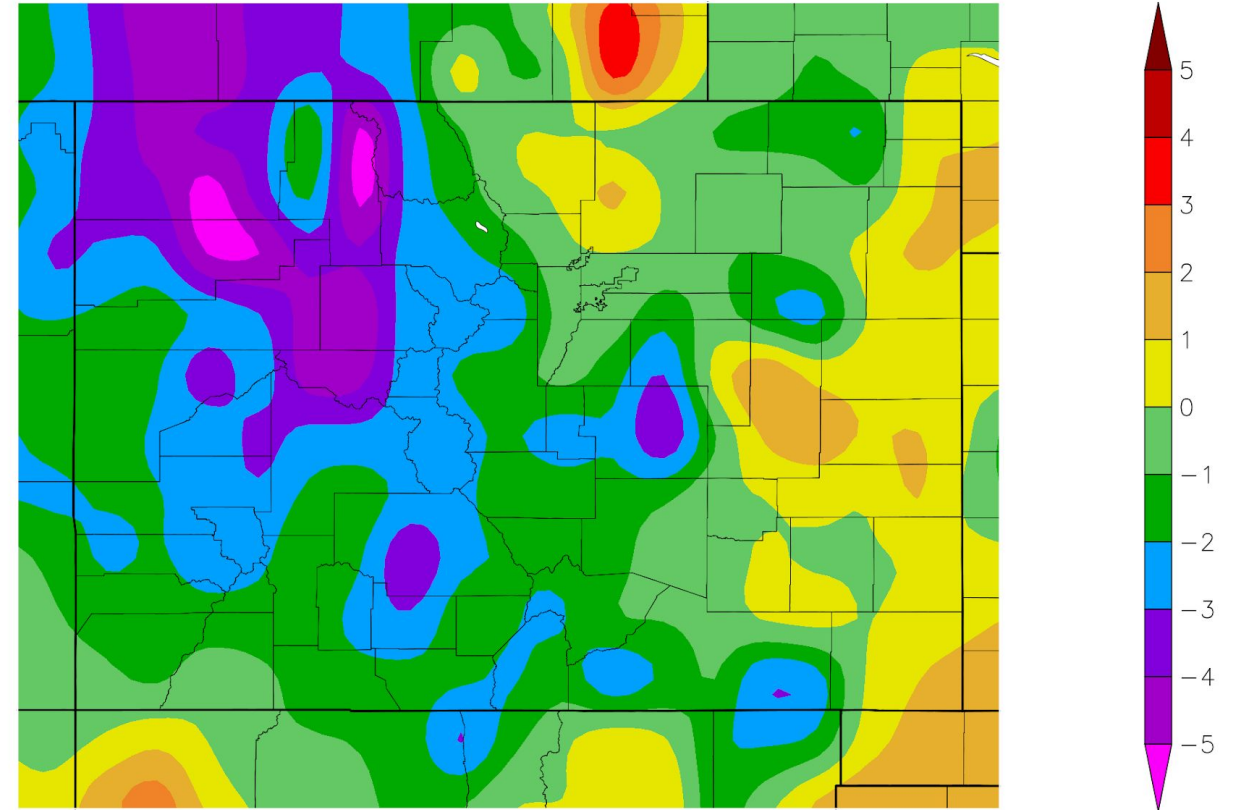
Statewide Temperature May 2024

June 1, 2024
7:13 PM

Temperature (F)
5/1/2024 - 5/31/2024



Departure from Normal Temperature (F)
5/1/2024 - 5/31/2024



Generated 6/1/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

Generated 6/1/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers



National Oceanic and
Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Denver/Boulder, CO



Top 10 Hi/Low Temperature Years

June 1, 2024
7:13 PM

Average Temperatures for the Month of May (Records since 1872)

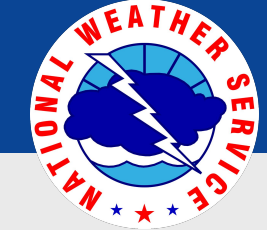
Top Ten Warmest

Rank	Temperature (°F)	Year(s)
1	64.7	1934
2	63.2	1994
3	62.0	1886
4	61.7	1958
5	61.6	1879
	61.6	1974
7	61.5	1939
8	61.4	2018
9	61.3	1936
10	61.1	1875

Top Ten Coldest

Rank	Temperature (°F)	Year(s)
1	48.7	1917
2	50.0	1995
3	50.1	1935
4	50.3	1907
5	51.4	1983
6	51.5	1892
7	51.6	2019
8	52.0	1946
9	52.6	1967
10	52.7	1924



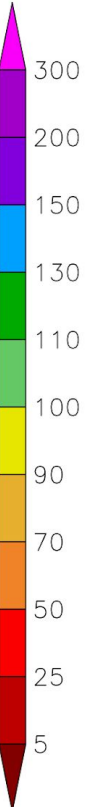
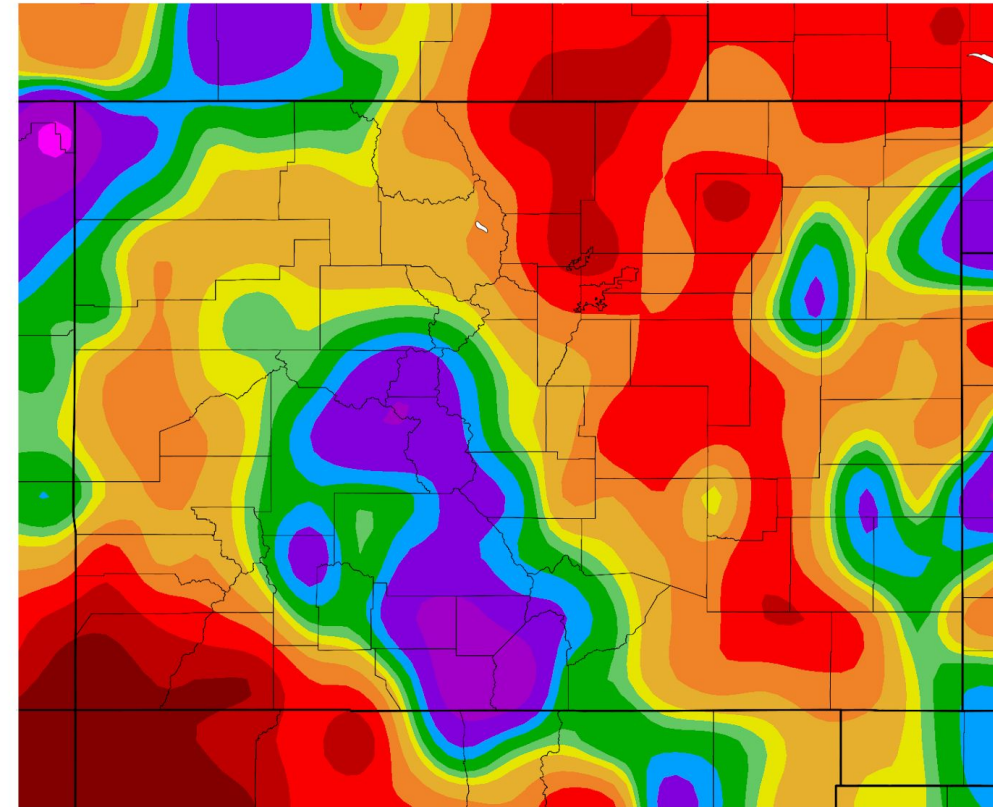
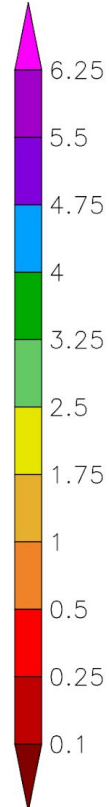
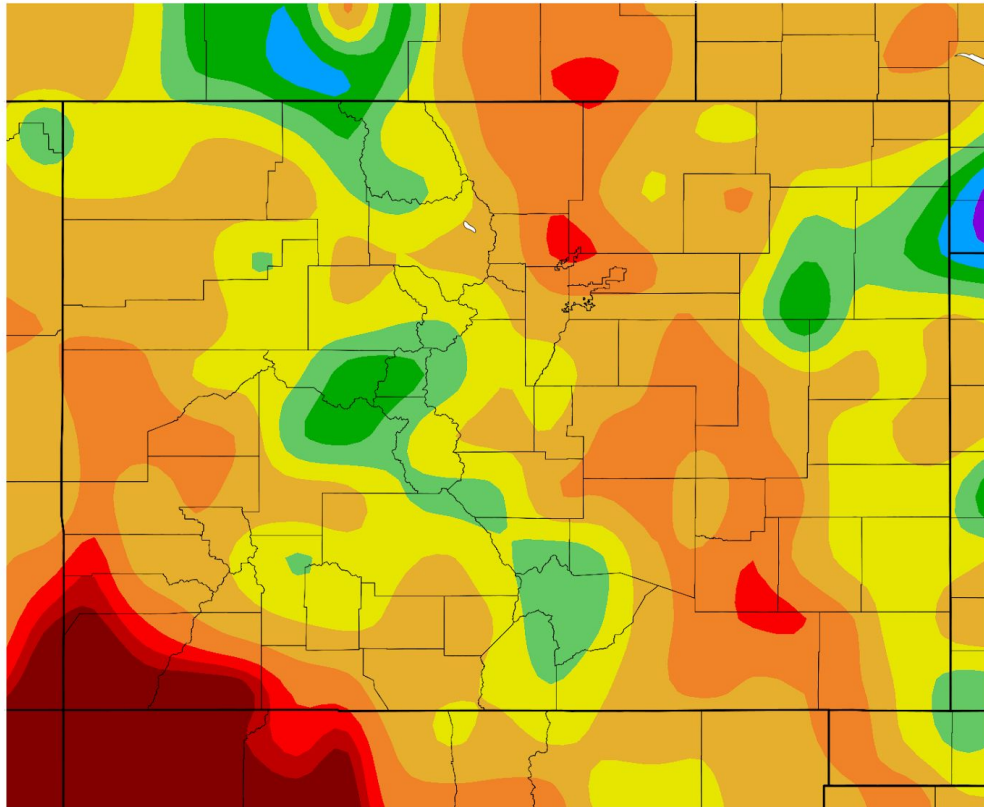


Statewide Precipitation May 2024

June 1, 2024
7:13 PM

Precipitation (in)
5/1/2024 - 5/31/2024

Percent of Normal Precipitation (%)
5/1/2024 - 5/31/2024



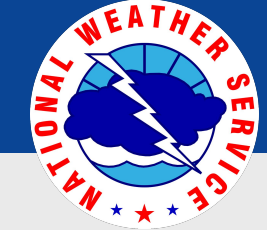
Generated 6/1/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

Generated 6/1/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers





Top 10 Hi/Low Precipitation Years

June 1, 2024
7:13 PM

Precipitation during the month of May (Records since 1872)

Top Ten **Wettest**

Rank	Precipitation (in.)	Year(s)
1	8.57"	1876
2	7.31"	1957
3	6.12"	1969
4	5.53"	2023
5	5.06"	1973
6	4.95"	1935
7	4.88"	1938
	4.88"	1898
9	4.79"	2011
10	4.77"	1967

Top Ten **Driest**

Rank	Precipitation (in.)	Year(s)
1	0.06"	1974
2	0.09"	1886
3	0.15"	1899
4	0.22"	1919
5	0.34"	1977
	0.34"	1966
7	0.43"	1925
8	0.49"	1972
9	0.52"	1911
10	0.53"	1900





May 6 High Winds

June 1, 2024
7:13 PM

Reported Wind Gusts from Various Sensors

A spring storm system to our north brought high winds to portions of the Denver metro area and Front Range on May 6th.

High winds were observed over southern and eastern sections of Denver in the early morning hours, and then across the foothills into the rest of the Denver metro area during the afternoon and evening.

A peak gust of 75 mph was reported at Centennial Airport where several planes were damaged. The peak gust at Denver International Airport was 56 mph. Several foothill locations has gusts into the 65-85 mph range.

Location (County)	Peak Wind Gust (mph)
Dakota Hill (Gilpin)	87
Empire Junction (Clear Creek)	86
Rocky Flats (Jefferson)	81
3 SSW Boulder (Boulder)	80
Dumont (Clear Creek)	79
Greenland (Douglas)	78
1 NE Crisman (Boulder)	76
2 WSW Brainard Lake (Boulder)	76
Aurora (Arapahoe)	76
Centennial Airport (Arapahoe)	75





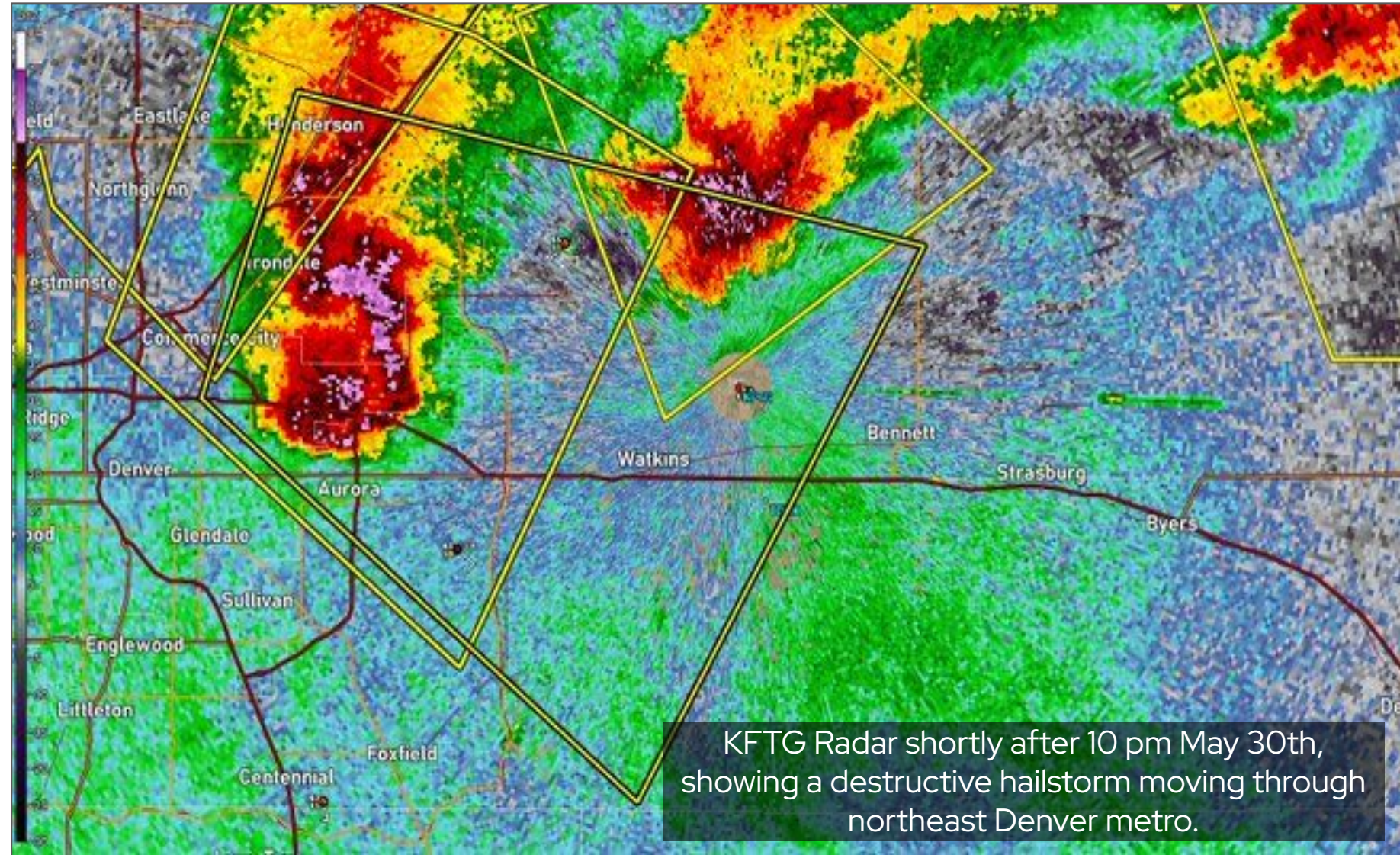
May 30th Denver Hailstorm

June 1, 2024
7:13 PM

A hailstorm developed in eastern Boulder County around Niwot in the late evening hours of May 30th, and then tracked southeast across the northern and eastern portions of metro between 930 and 11 pm.

A swath of large hail between 1 and 2 inches occurred, with up to baseball sized hail falling in the Northfield area. The storm tracked from northeast Broomfield across the Thornton and Northglenn areas, into Commerce City, and then exited the metro area through Green Valley Ranch and northern portions of Aurora.

Vehicles were dented, windshields broken, and roof damage also occurred. Total damage estimates are still being assessed and compiled.





May 30th Denver Hailstorm

June 1, 2024
7:13 PM

Hail reports from the late evening hours of May 30th.

The map shows reports of large hail of 1" in diameter or greater. While a few reports of large hail occurred in eastern Boulder County, the storm intensified as it moved southeast across metro Denver.

An additional severe storm developed to the southwest of the initial storm, and also produced large hail as fast south and west as downtown Denver.

