

Denver Monthly Climate Summary

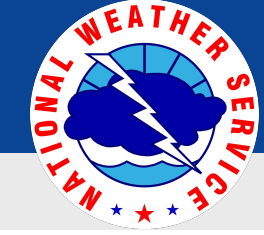
April 2024

NWS Boulder



NATIONAL WEATHER SERVICE
OCEANIC AND ATMOSPHERIC ADMINISTRATION

Issued: 5/4/2024



Monthly Overview

May 4, 2024
7:30 AM

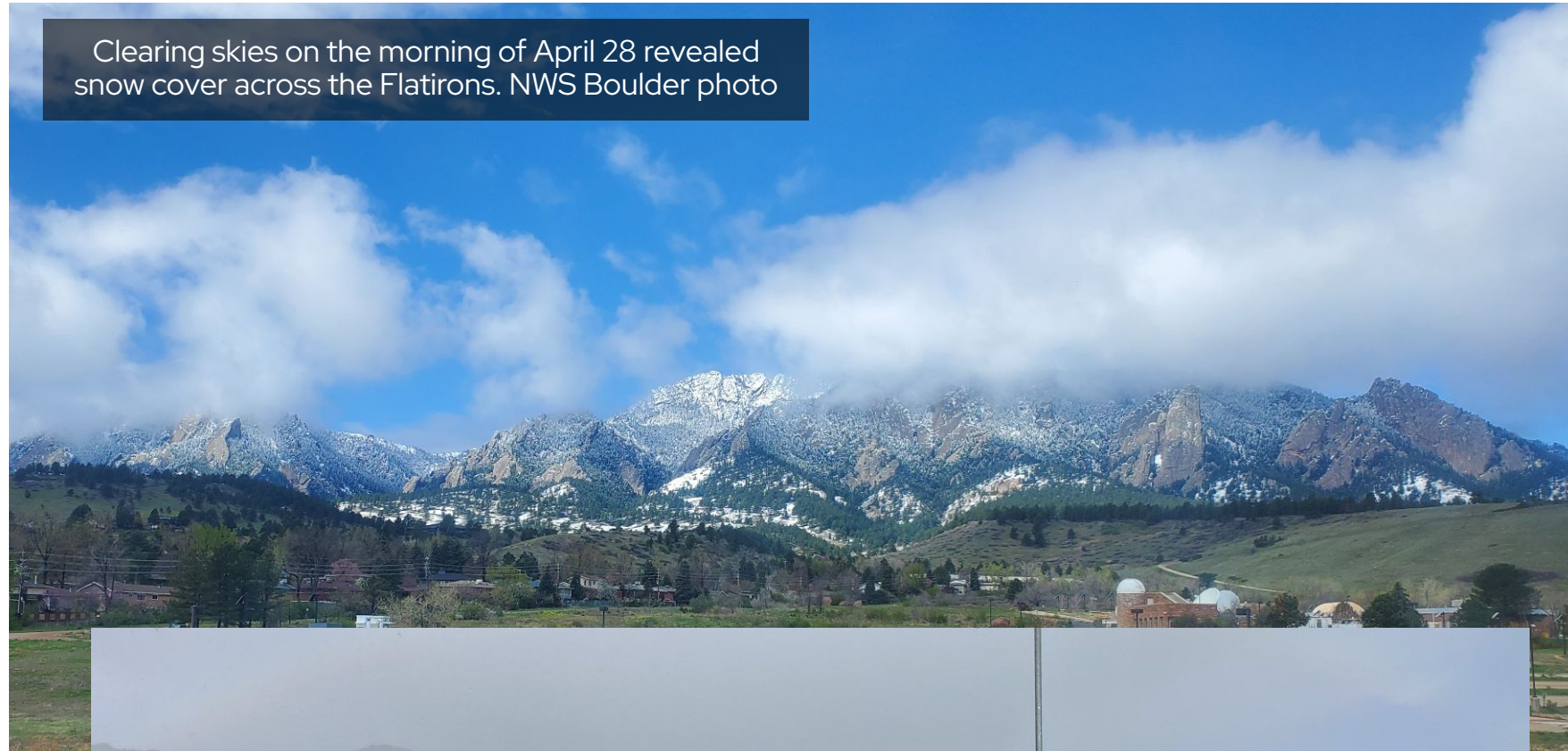
The month started out cool and wet as an upper level trough of low pressure moved across the state. The following two weeks were mostly dry, mild and breezy as the storm track stayed north of Colorado. Strong winds occurred across the region on the 6-7th with gusts to 75-95 mph in some locations.

An upper level low tracking across Northern Colorado produced rain showers and windy conditions across the Front Range Foothills, Urban Corridor and eastern plains on the 16th. Some locations on the plains gusted to over 60 mph with a 57 mph wind gust recorded at Denver International Airport.

A large upper level storm system over the Northern Rockies and Great Plains States and associated strong cold front brought much colder temperatures and snow to north central and northeastern Colorado from the 19th through the 20th. Denver measured 6.3 inches of snow during this period with over a foot across some foothills and Front Range Mountain locations.

A stronger moisture laden storm system tracked from the Four Corners region across Southern/Central Colorado from the 24th through the 27th. This system brought beneficial precipitation to much of the forecast area along with some severe weather across portions of the plains. The heaviest precipitation focused along and east of the Front range mountains where 1 to nearly 3 inches of precipitation was measured with 1 to 2 feet snow in the Front Range Mountains and Foothills. The month ended on quiet note with above normal temperatures and mostly dry weather.

Clearing skies on the morning of April 28 revealed snow cover across the Flatirons. NWS Boulder photo



A localized rain shower produced this rainbow on the NOAA/NIST campus on April 30th, 2024





Monthly Temperature Data

May 4, 2024
7:30 AM

- Above normal temperatures were recorded in Denver this month. Denver's mean temperature of 50.5° is 2.7° above normal.
- The highest temperature of 80 degrees occurred on the 14th with the lowest temperature of 24 degrees on the 8th.
- No temperature records were broken during the month.

Temperature	Observed	Normal	Departure
Average High	63.9	61.7	2.2
Average Low	37.1	33.9	3.2
Average Mean	50.5	47.8	2.7

Temperature Records set this Month:

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



Monthly Precipitation/Snowfall Data

May 4, 2024
7:30 AM

- Much above precipitation was observed in Denver this month
- 6.3 inches of snowfall was measured at Denver International Airport this month which is 0.2 inches above the April normal
- No records were observed this month

Precipitation	Observed	Normal	Departure
Total Precipitation	3.28"	1.68"	+1.60"
# of Days w/ Measurable	9	9	0

Snowfall	Observed	Normal	Departure
Total Snowfall	6.3"	6.1"	+0.2"

Precipitation Records set this Month:

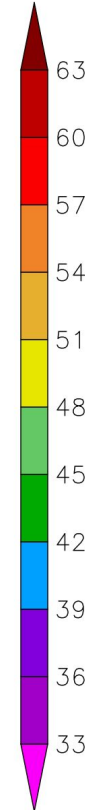
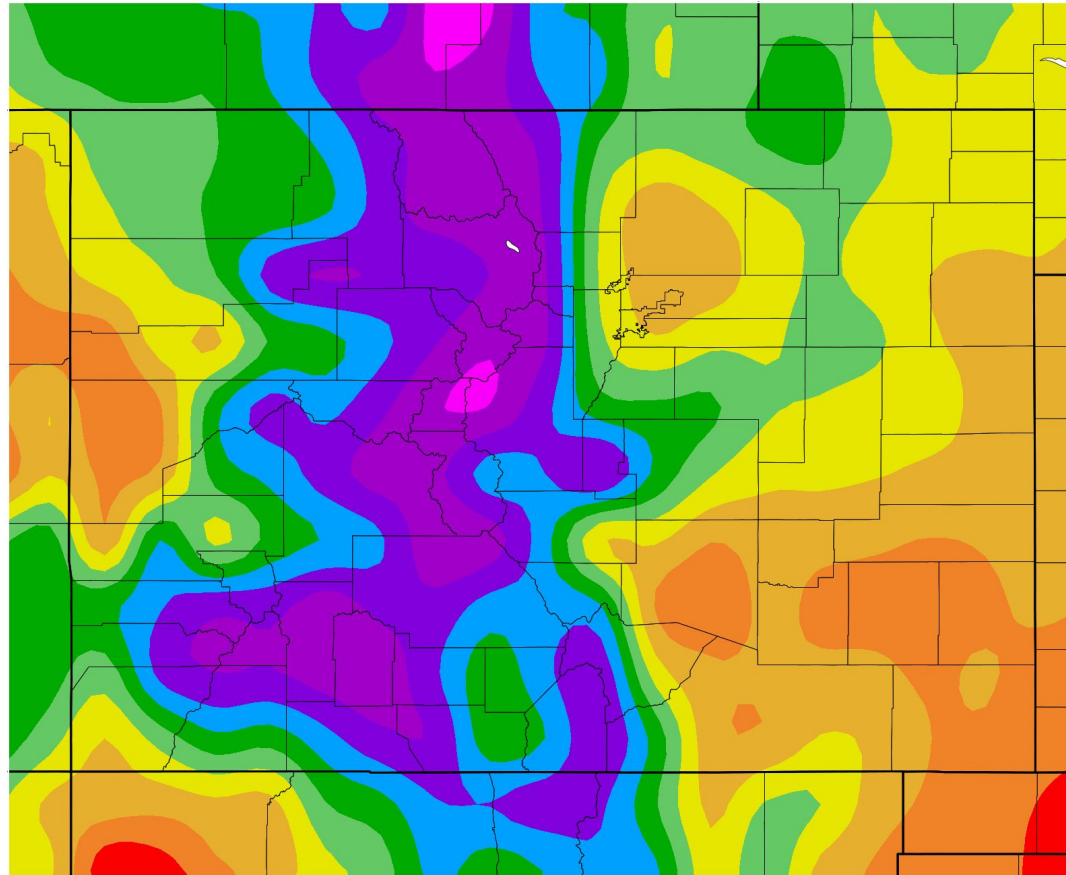
Date	Type	Observed	Previous Record (Year)
No Records Set this Month			



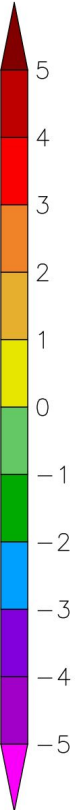
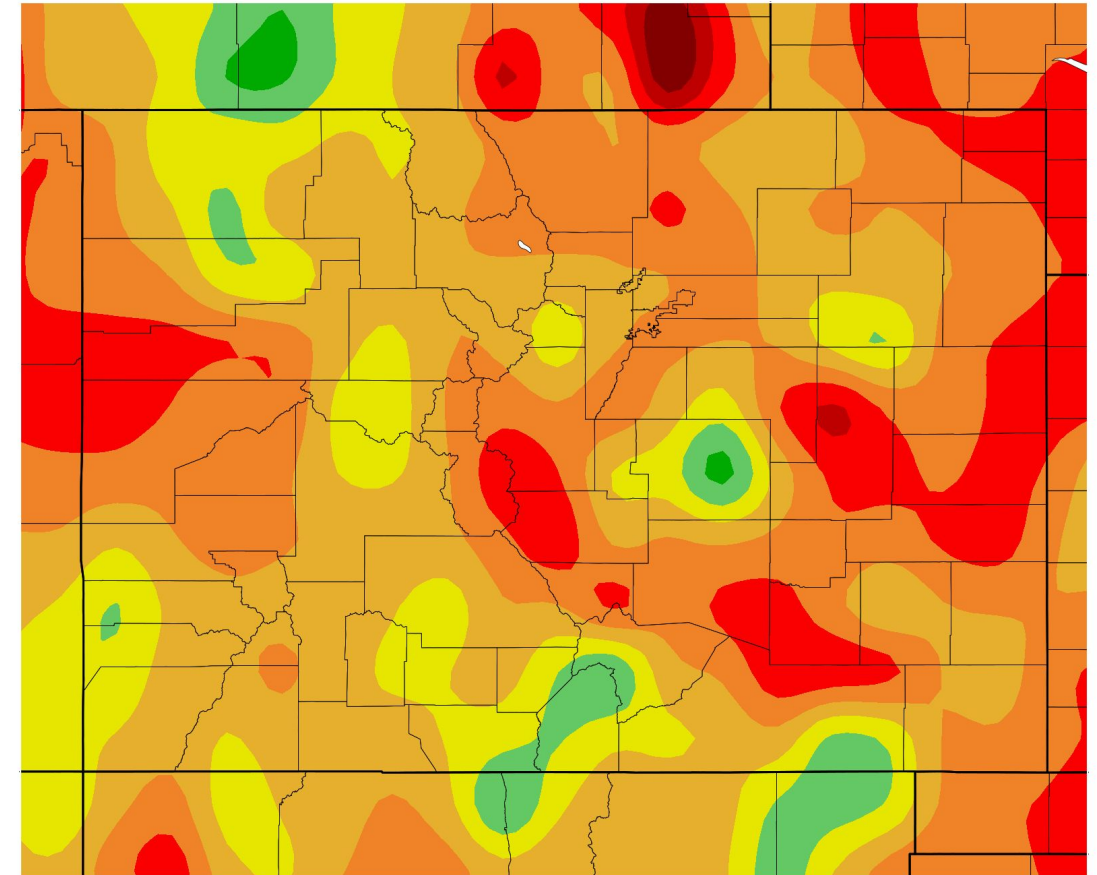
Statewide Temperature 2023

May 4, 2024
7:30 AM

Temperature (F)
4/1/2024 - 4/30/2024



Departure from Normal Temperature (F)
4/1/2024 - 4/30/2024



Generated 5/2/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

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NOAA Regional Climate Centers





Top 10s Temperatures

May 4, 2024
7:30 AM

Average Temperatures for the Month of April | Records since 1872

Top Ten Warmest

Rank	Temperature (°F)	Year(s)
1	56.4°	1981
2	56.3°	1946
3	55.5°	1930
4	55.3	1943
5	54.8	1992
6	53.8	1881
7	53.6	1954
T8	53.3	2012, 1888
10	53.2	1948

Top Ten Coldest

Rank	Temperature (°F)	Year(s)
1	38.8	1920
2	40.5	1997
3	41.0	1983
4	41.1	1873
5	41.4	1957
6	41.7	2013
7	42.2	1945
8	42.3	1984
9	42.5	1899
10	42.6	1918

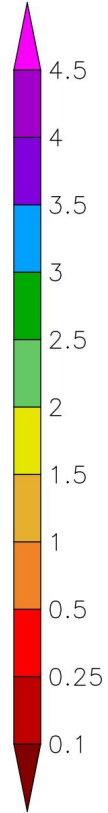
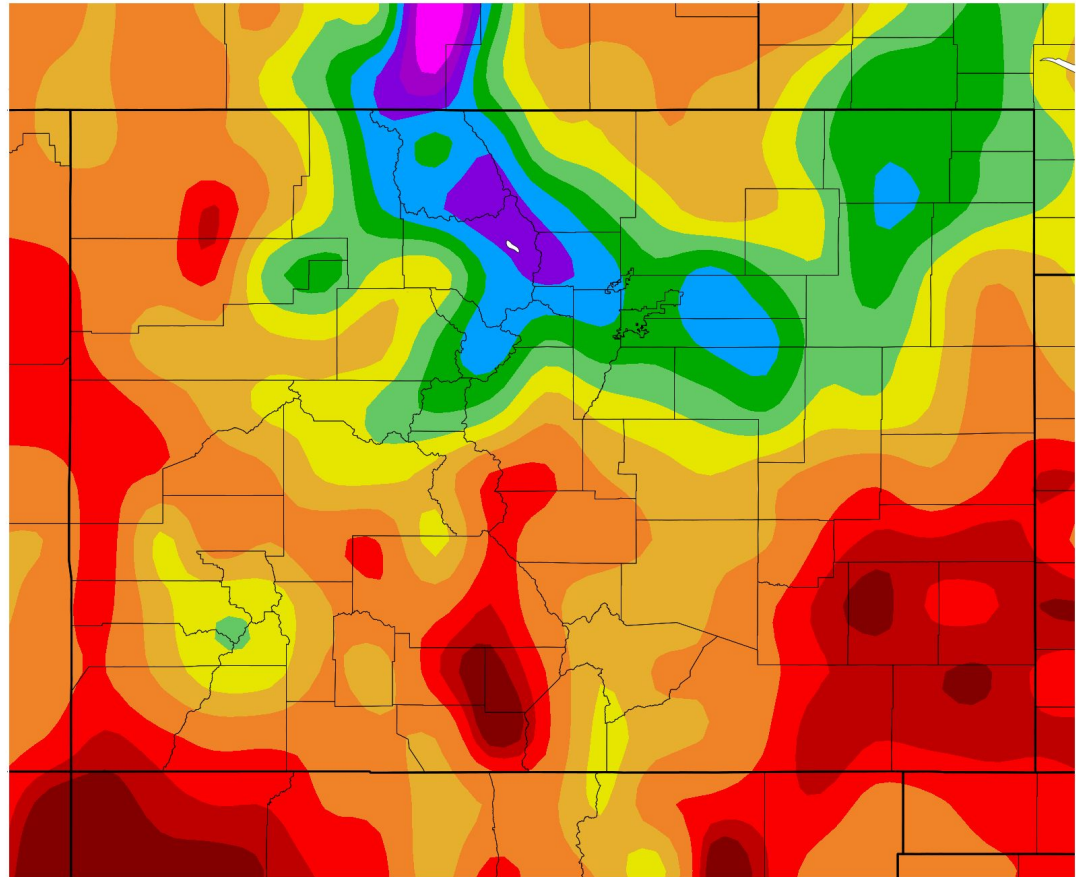




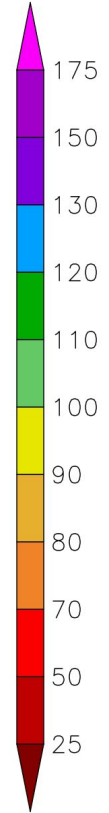
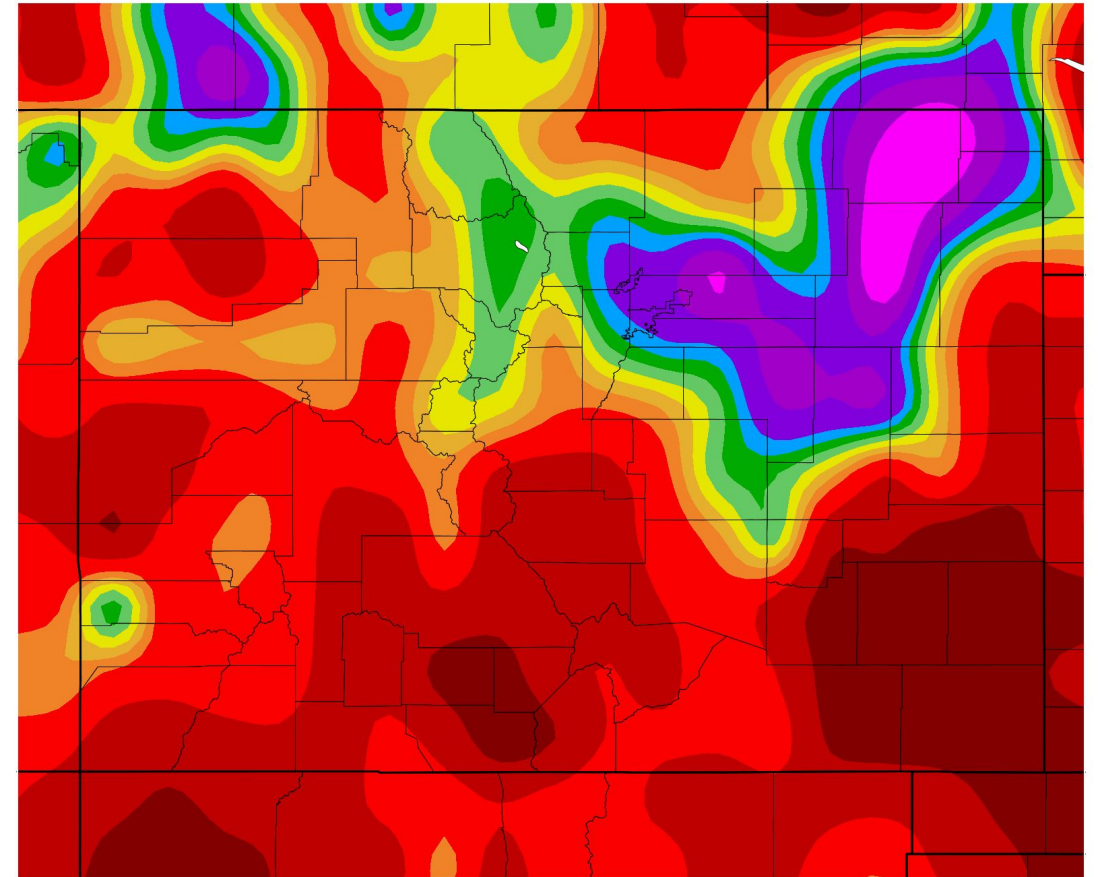
Statewide Precipitation

May 4, 2024
7:30 AM

Precipitation (in)
4/1/2024 - 4/30/2024



Percent of Normal Precipitation (%)
4/1/2024 - 4/30/2024



Generated 5/2/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers

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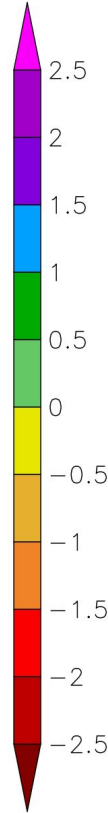
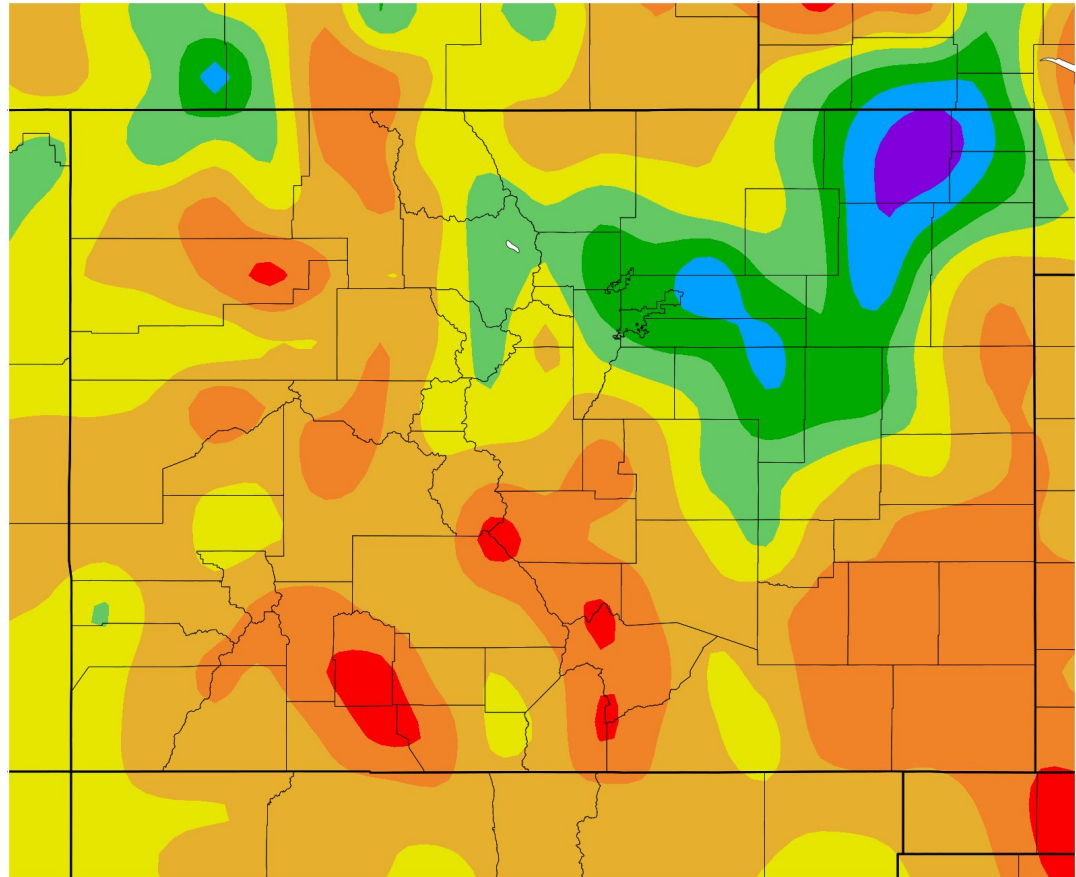




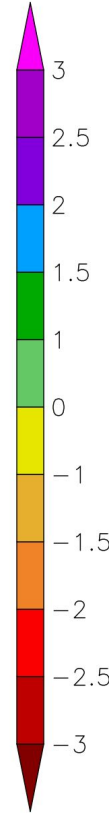
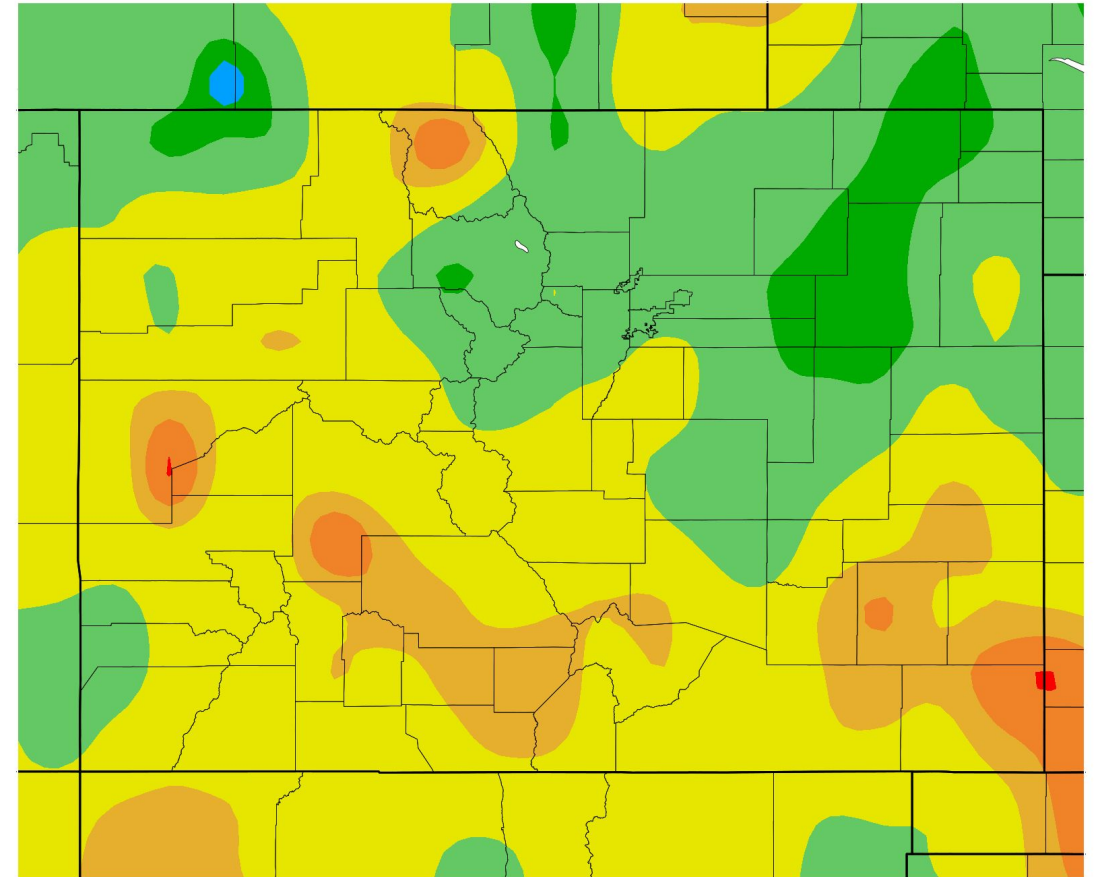
Statewide Precipitation

May 4, 2024
7:30 AM

Departure from Normal Precipitation (in)
4/1/2024 - 4/30/2024



Monthly SPI
4/1/2024 - 4/30/2024



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NOAA Regional Climate Centers

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NOAA Regional Climate Centers





Top 10s Precipitation

May 4, 2024
7:30 AM

Precipitation during the month of April | Records since 1872

Top Ten **Wettest**

Rank	Precipitation (in.)	Year(s)
1	8.24"	1900
2	5.86"	1999
3	4.95"	1905
4	4.94"	1885
5	4.13"	1957
6	4.09"	1933
7	4.07"	1935
8	4.01"	1942
9	3.95"	1967
10	3.75"	1914

Top Ten **Driest**

Rank	Precipitation (in.)	Year(s)
1	0.03"	1963
2	0.05"	1878
3	0.06"	2022
4	0.23"	2002
5	0.31"	1880
6	0.32"	2008
7	0.33"	1996
8	0.34"	1982
9	0.39"	1908
10	0.40"	1925





Top 10s Snowfall

May 4, 2024
7:30 AM

Snowfall during the month of April | Records since 1872

Top Ten Snowiest

Rank	Snowfall (in.)	Year(s)
1	33.8"	1933
2	32.0"	1885
3	28.3"	1920
4	28.2"	1954
5	25.5"	1957
6	25.4"	1909
7	25.0"	1907
8	24.8"	1973
9	23.3"	1935
10	21.0"	1922

Top Ten Least Snowiest

Rank	Precipitation (in.)	Year(s)
T1	None	1995, 1982, 1943, 1930
T5	Trace	2002, 1969, 1946, 1925, 1915, 1910, 1889, 1888, 1887

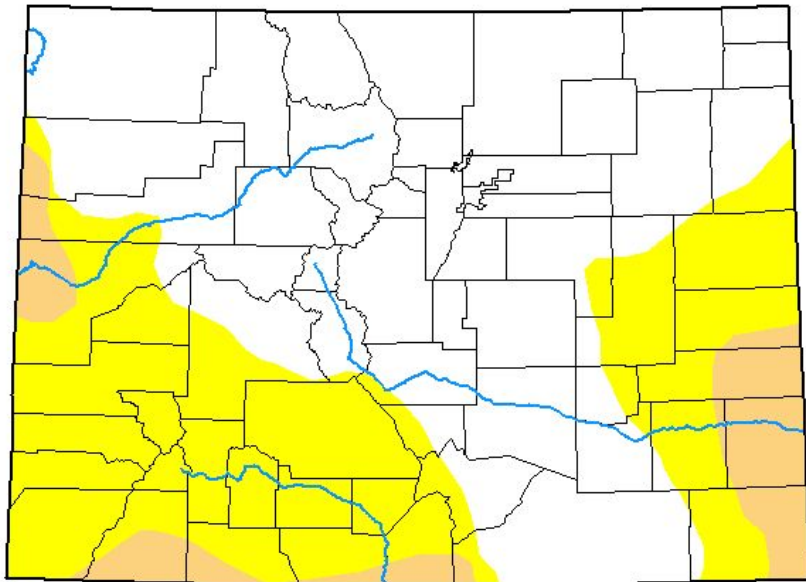




Drought Conditions

May 4, 2024
7:30 AM

U.S. Drought Monitor Colorado



April 30, 2024
(Released Thursday, May 2, 2024)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	58.74	41.26	7.73	0.00	0.00	0.00
Last Week 04-23-2024	55.90	44.10	7.74	0.00	0.00	0.00
3 Months Ago 01-30-2024	41.97	58.03	27.83	6.69	2.05	0.00
Start of Calendar Year 01-02-2024	34.65	65.35	29.59	8.85	2.05	0.00
Start of Water Year 09-26-2023	65.71	34.29	17.43	2.77	0.00	0.00
One Year Ago 05-02-2023	44.07	55.93	29.63	8.07	1.15	0.32

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

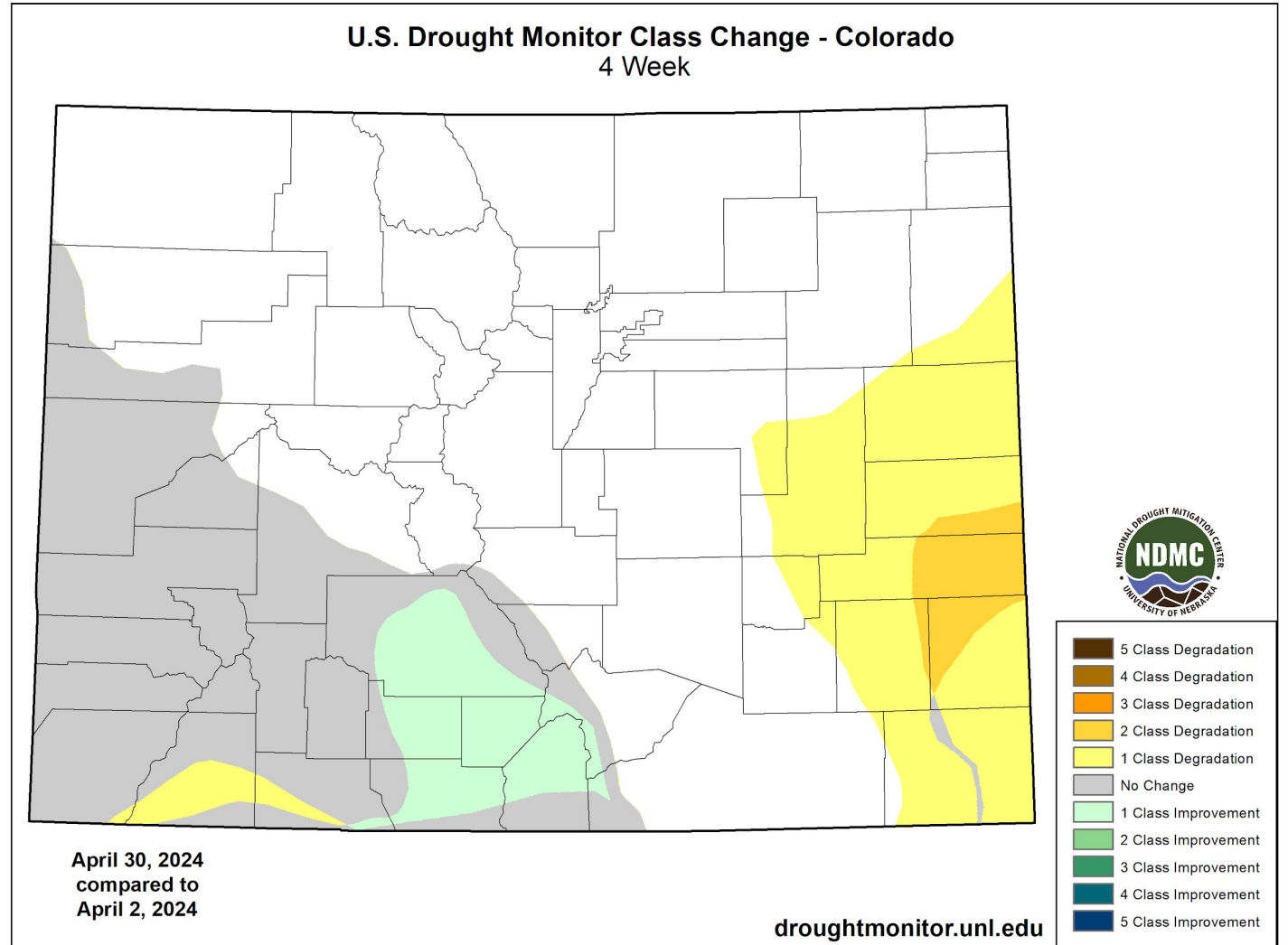
Author:

Curtis Riganti
National Drought Mitigation Center



droughtmonitor.unl.edu

U.S. Drought Monitor Class Change - Colorado 4 Week



- 5 Class Degradation
- 4 Class Degradation
- 3 Class Degradation
- 2 Class Degradation
- 1 Class Degradation
- No Change
- 1 Class Improvement
- 2 Class Improvement
- 3 Class Improvement
- 4 Class Improvement
- 5 Class Improvement



April 5-6 Wind Event

May 4, 2024
7:30 AM

Reported Wind Gusts from Various Sensors

A strong storm brought significant wind gusts to the region from Friday, April 5th through most of the day Saturday, April 6th. Peak measured gusts were generally between 85-100 mph, with many other locations seeing wind gusts above 60-75 mph at times.

A full list of wind reports is available at [this link](#), broken down by county.

Location (County)	Peak Wind Gust (mph)
Coal Creek Canyon (Jefferson)	96
3 NW Marshall (Boulder)	95
Buckeye (Larimer)	93
3 ESE Buckeye (Larimer)	91
3 ENE Copper Mountain (Summit)	91
Rocky Flats (Jefferson)	90
3 SSW Boulder (Boulder)	89
Arvada (Jefferson)	89
1 NE Crisman (Boulder)	88
2 NNW Rocky Flats (Boulder)	87





Late April Rain/Snow Event

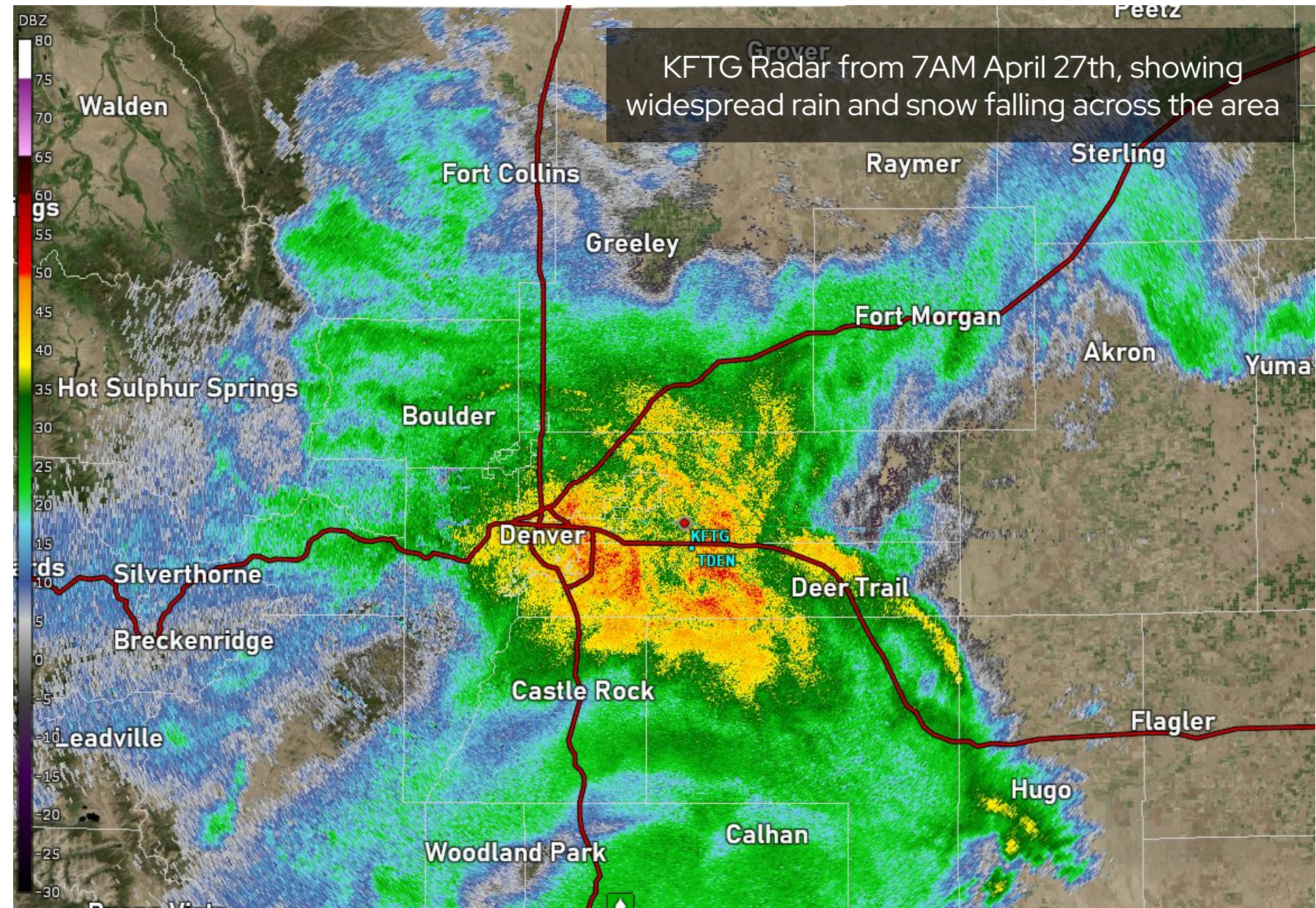
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The last weekend of April featured widespread rain across northeast Colorado, with significant snow accumulation across portions of the mountains and foothills. In Boulder, just under 2.5" of rain was recorded at the Shanahan Ridge - Flatirons RAWS station.

Across the Denver metro, rainfall totals of 1-3 inches were common, with a few inches of snow also reported in portions of the southern/eastern edges of the metro. Denver International Airport recorded 1.88" of rain over a 2-day period.

The Front Range foothills generally saw 6-12 inches of snow, with 1-2 feet amounts across the mountains.






[2 Day Rainfall Reports](#) via CoCoRaHS
[2 Day Snowfall Reports](#) via CoCoRaHS



48-hr rainfall totals

Top rainfall reports across northeast Colorado
from April 27-28th

Top 10 precipitation reports

	2.75"	Elizabeth
	2.72"	Castle Pines (3 miles south-southwest)
	2.67"	Littleton
	2.60"	Ken Caryl
	2.58"	Lakewood
	2.50"	Nederland (5.8 miles east)
	2.50"	Strasburg
	2.49"	Boulder (Shanahan Ridge – Flatiron RAWS)
	2.38"	Denver (5.2 miles south)
	2.36"	Lyons