November 2022 Colorado Monthly Climate Summary
November 2022 was the first colder than average month Colorado has had since March 2022. For most of the state, November temperature was ranked in the coldest 35 out of 128 years. Some locations ranked in the coldest 20 out of 128 years. Parts of the Eastern Plains were in the near normal range.

Precipitation ranked slightly drier for November 2022, primarily due to Eastern Plains dryness. Many areas to the east ranked in the 20th driest Novembers, and a couple spots around Kiowa and Prowers counties ranked in the 10th driest. Wetter ranks show up over northwest CO.
quadrant charts

Each dot plots the precipitation on the x-axis and the temperature on the y-axis. Dots are colored based on temperature and size is based on precipitation. The current year is denoted with a star. Long-term averages are denoted by the dashed lines.

November 2022 ranked 29\textsuperscript{th} coldest and 52\textsuperscript{nd} driest in the 128-year record. This puts November 2022 in the cool and dry quadrant, breaking a 2-year streak of Novembers in the warm and dry quadrant.

Fall in the Arkansas river basin was the 7\textsuperscript{th} driest on record, with temperatures very close to average. The last fall to be this dry in the Arkansas basin was 2016.
### records tied and broken

<table>
<thead>
<tr>
<th></th>
<th>High Max</th>
<th>Low Max</th>
<th>High Min</th>
<th>Low Min</th>
<th>Precip</th>
<th>Snow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily</td>
<td>6/5</td>
<td>15/106</td>
<td>21/58</td>
<td>31/91</td>
<td>14/67</td>
<td>7/35</td>
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<tr>
<td>Monthly</td>
<td>0/0</td>
<td>0/0</td>
<td>3/10</td>
<td>3/0</td>
<td>2/3</td>
<td>0/0</td>
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<tr>
<td>All-time</td>
<td>0/0</td>
<td>0/0</td>
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</tbody>
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*Tied/Broken*, from NOAA National Centers for Environmental Information

### state extremes

- **Golden/Boulder**
  - **12.0”**
  - **-17°F**
  - **Crested Butte**
  - **November 30**
  - **November 18**

- **Lower Arkansas Valley**
  - **81°F**
  - **2.30”**
  - **Wolf Creek Pass**
  - **November 3**
  - **Early November**

*multiple stations reached this temperature
In November, widespread degradations occurred across eastern CO where dry and windy conditions prevailed. Some improvements were made along the northern Front Range and in northwest CO. At the end of the month, 47% of the state was in drought, with 23% in severe (or worse) drought.

The Yampa, CO Headwaters, and Gunnison basins received consistent snowpack accumulations during November. While the remaining basins had a strong bump in early November, more quiet weather for the rest of the month meant snowpack flatlined. But cooler temperatures kept that snowpack from melting.
A COOP station near Kim (in southeast CO) reported its driest fall on record, with data going back to 1988. Normal fall accumulation for the station is 2.89 inches. In 2022, accumulations topped out at a pitiful 0.20 inches. The previous five driest falls ranged between 0.70 inches to 1.07 inches. After a fairly wet summer, fall has been extremely dry throughout southeastern CO.

A greater than 2.5” deficit will be virtually impossible to make up until the spring or summer of 2023.
Drought experts reflect on impact of Colorado's recent snowstorms
  - CBS Colorado, November 18, Peter Goble

Climatologist: ‘Normal’ precipitation means less when it’s hot
  - Greeley Tribune, November 15, Russ Schumacher

Early-season snow off to good start in Colorado’s high country
  - Colorado Sun, November 11, Becky Bolinger

100 years ago in Colorado, 6 were killed by rare November tornadoes
  - 9News, November 9, Russ Schumacher

Snowpack helps determine health of Colorado River
  - Fox Weather, November 2, Russ Schumacher

Data from CSU-led project shows on-the-ground reports from Hurricane Ian
  - CSU Source, October 3, Noah Newman