

# Colorado State University, Fort Collins, CO Weather Station Monthly Summary Report

**Month: November**  
**Year: 2021**



## **Temperature:**

Mean  $T_{\max}$  was  $60.0^{\circ}\text{F}$  which is  $7.5^{\circ}$  above the 1991-2020 normal for the month. This is the 4<sup>th</sup> warmest in the 133-year record (1889-2021). The last November this warm or warmer was 2016 with  $60.4^{\circ}\text{F}$ .

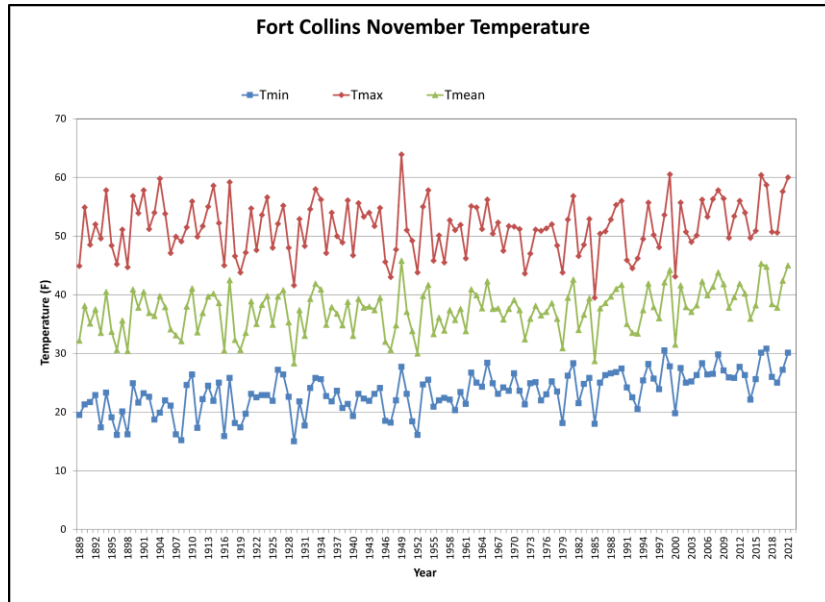
Mean  $T_{\min}$  was  $30.1^{\circ}\text{F}$  which is  $4.0^{\circ}$  above the 1991-2020 normal for the month. This is the 3<sup>rd</sup> warmest in the 133-year record (1889-2021), tied with 2016. The last November this warm or warmer was 2017 with  $30.8^{\circ}\text{F}$  (warmest November on record, second warmest November was 1998 with  $30.5^{\circ}\text{F}$ ).

Mean  $T_{\text{mean}}$  was  $45.0^{\circ}\text{F}$  which is  $5.7^{\circ}$  above the 1991-2020 normal for the month. This is the 3<sup>rd</sup> warmest in the 133-year record (1889-2021). The last November this warm or warmer was 2016 with  $45.3^{\circ}$  which is the second warmest November on record. The warmest November on record was 1949 with  $45.8^{\circ}\text{F}$ .

Fall (September-November) mean temperature was  $54.6^{\circ}\text{F}$  which is  $3.9^{\circ}$  above the 1991-2020 normal for the season. This is the 2<sup>nd</sup> warmest fall in the 133-year record (1889-2021). The warmest fall on record was 2016 with  $55.4^{\circ}\text{F}$ . The third warmest fall was 2015 with  $53.5^{\circ}\text{F}$ .

The maximum daily temperature for the month was  $77^{\circ}\text{F}$  and occurred on November 7, 2021.

The minimum daily temperature for the month was  $14^{\circ}\text{F}$  and occurred on November 18 and 25, 2021.



**Figure 1: November temperature time series.**

**Misc. Temperature (record status, thresholds, etc.):**

***Maximum Daily Temperature Records:***

*November 7, 2021: The maximum temperature for the day of 77°F tied the previous record for the day set in 1980.*

*November 29, 2021: The maximum temperature for the day of 72°F broke the previous record for the day of 70°F set in 1899.*

***Warmest Minimum Daily Temperature Records:***

*November 15, 2021: The minimum temperature of 47°F broke the previous warmest minimum temperature for the day of 41°F set in 1981.*

*November 16, 2021: The minimum temperature of 41°F broke the previous warmest minimum temperature for the day of 40°F set in 1895.*

## Precipitation and Snowfall:

Total monthly precipitation was 0.26” which is 0.48” below the 1991-2020 normal for the month (35% of normal). This ranks as the 39<sup>th</sup> driest in the 133-year record (1889-2021). The last November this dry or drier was 2013 with 0.22” of precipitation.

Fall (September-November) precipitation totaled 1.02” which is 2.40” below the 1991-2020 normal for the season (30% of normal). This ranks as the 12<sup>th</sup> driest fall in the 133-year record (1889-2021). The last fall this dry or drier was 2016 with 0.93” of precipitation.

Total monthly snowfall for November was 0.7” which is 6.9” below the 1991-2020 normal for the month (9% of normal). This ranks as the 24<sup>th</sup> least snowy November in the 133-year record (1889-2021), tied with 2012 which was the last November with this little snowfall or less.

Seasonal snowfall for the start of the 2022 snow season totaled 0.7” through November. This is 11.7” below the normal for the season (6% of normal). This ranks as the 13<sup>th</sup> least snowy start to a snow season in the 132-year record (1890-2022), tied with 1940. The last season to start with this little snowfall or less was the 2009 season (September 2008-November 2008) with a trace of snowfall.

November had 4 days with measurable precipitation ( $\geq 0.01$ ”) and 2 days with a measurable snowfall ( $\geq 0.1$ ”).

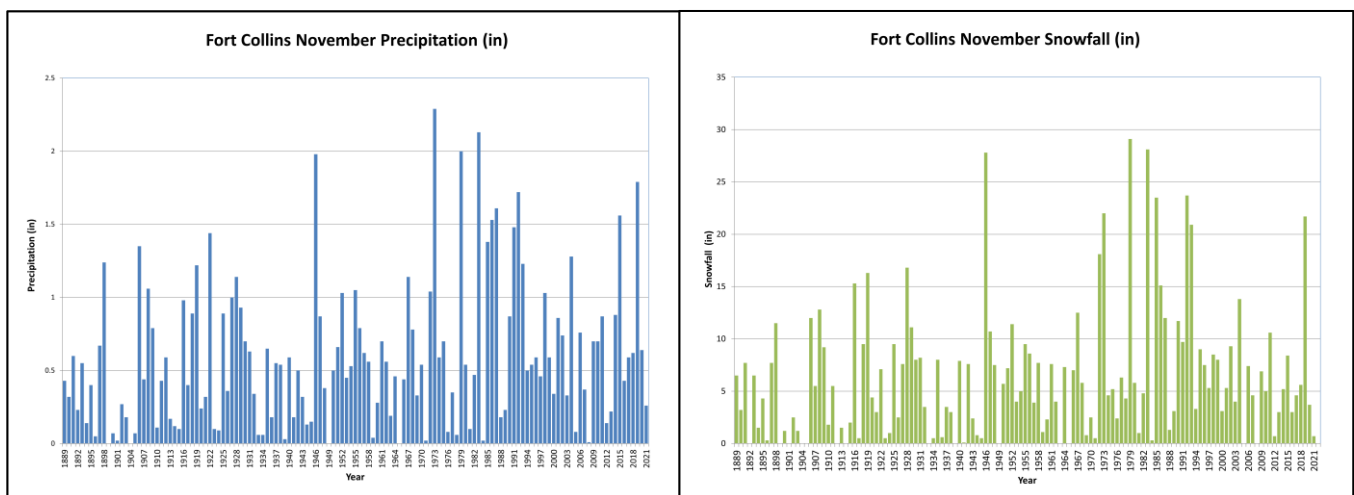
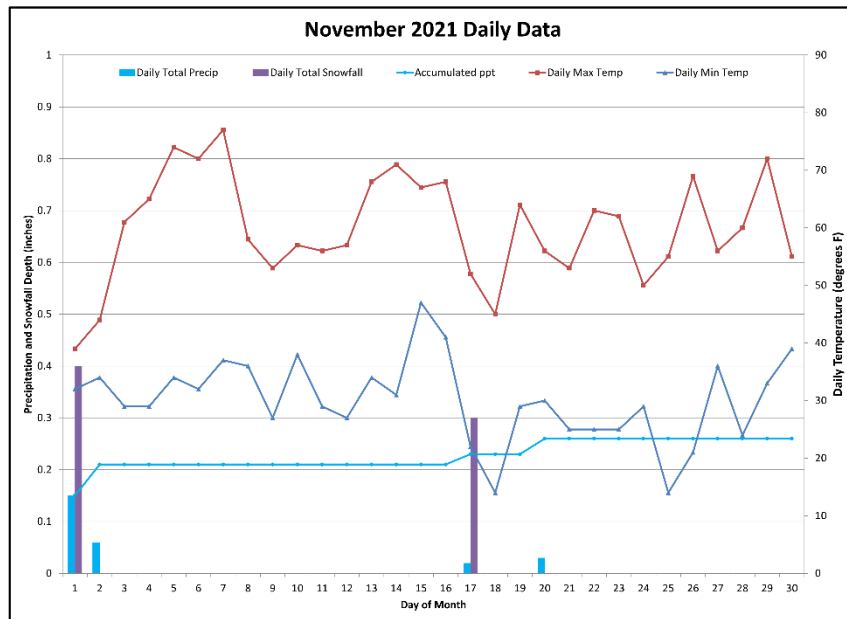


Figure 2: November precipitation (left) and snowfall (right) time series.

## Misc. Precipitation (predominant type, record status, etc.):

*No precipitation records for November 2021.*

*The highest one-day precipitation total for November 2021 was 0.15” falling on November 1<sup>st</sup>. The highest one-day snowfall was 0.4” also falling on November 1<sup>st</sup>.*



**Figure 3: Daily Data for November 2021.** Precipitation and temperature both show up on this graph. The y-axis on the left is for precipitation and snowfall. The y-axis on the right is for temperature.

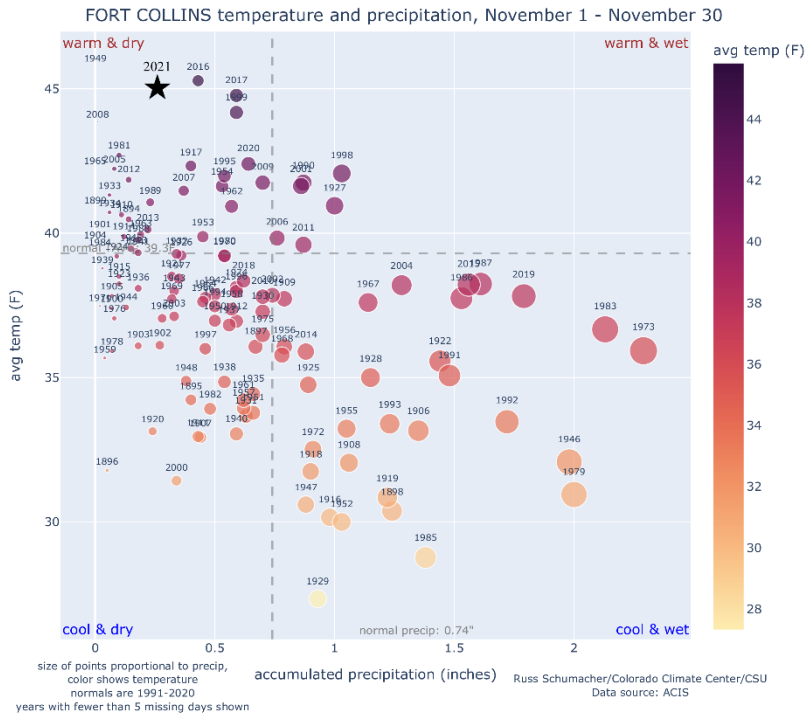
## Wind:

In November 2021 there were 10 days with maximum wind gusts  $\geq 20$  mph and 3 days  $\geq 30$  mph.

The maximum daily wind gust for the month was 32 mph and occurred on November 11, 2021, at 12:46 PM MST from 290° (WNW).

## Evaporation:

Pan evaporation for November 2021 totaled 2.06” which is 0.92” above the normal (181% of normal).



**Figure 4:** November (top) and fall season (bottom) precipitation and temperature data plot. Each dot plots monthly average temperature and precipitation at Fort Collins for the period of record. From left to right, monthly precipitation is shown on the x-axis, where the wettest years are plotted furthest to the right. Dot sizes are proportional to precipitation amounts. From bottom to top on the y-axis, average monthly temperature is shown, where the warmest years are plotted towards the top. The dots are also color coded with darker colors indicating higher temperatures. The horizontal and vertical dotted lines indicate the 1991-2020 normals. Both November and fall 2021 show up warmer and drier than average with fall in a league of its own with 2016.

