

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

**Month: October**  
**Year: 2019**



## **Temperature:**

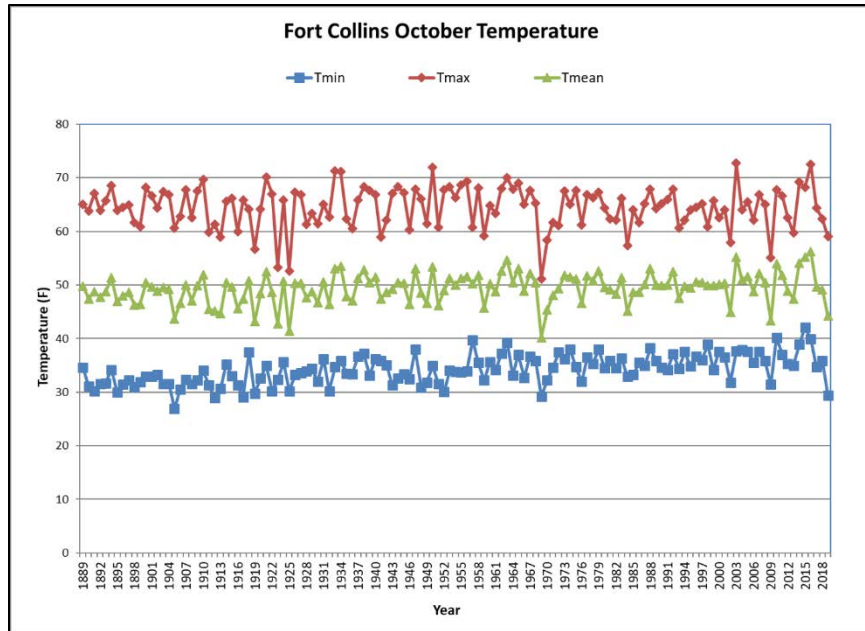
Mean  $T_{\max}$  was  $59.1^{\circ}\text{F}$  which is  $4.8^{\circ}$  below the 1981-2010 normal for the month. This is the 11<sup>th</sup> coldest in the 131-year record (1889-2019). The last October this cold or colder was 2009 with  $55.1^{\circ}\text{F}$ .

Mean  $T_{\min}$  was  $29.4^{\circ}\text{F}$  which is  $7.0^{\circ}$  below the 1981-2010 normal for the month. This is the 5<sup>th</sup> coldest in the 131-year record (1889-2019). The last October this cold or colder was 1969 with  $29.1^{\circ}\text{F}$ .

Mean  $T_{\text{mean}}$  was  $44.2^{\circ}\text{F}$  which is  $6.0^{\circ}$  below the 1981-2010 the normal for the month. This is the 7<sup>th</sup> coldest in the 131-year record (1889-2019). The last October this cold or colder was 2009 with  $43.3^{\circ}\text{F}$ .

The maximum daily temperature for the month was  $78^{\circ}\text{F}$  and occurred on October 9, 2019.

The minimum daily temperature for the month was  $5^{\circ}\text{F}$  and occurred on October 31, 2019.



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

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

***Coldest Minimum Daily Temperature:***

*October 11, 2019: The minimum temperature of 17°F broke the minimum temperature for the day of 20°F set in 1982.*

***Coldest Maximum Daily Temperature***

*October 29, 2019: The maximum temperature of 24°F broke the coldest maximum temperature for the day of 26°F set in 1917.*

## Precipitation:

Total monthly precipitation was 0.94” which is 0.21” below the 1981-2010 normal for the month (82% of normal). This ranks as the 74<sup>th</sup> driest in the 131-year record (1889-2019). The last October this dry or drier was 2016 with 0.31” of precipitation.

October snowfall totaled 10.3” which is 6.7” above the 1981-2010 normal for the month (286% of normal). This ranks as the 11<sup>th</sup> snowiest in the 131-year record (1889-2019). The last October with this much snow or more was 2009 with 25.7” of snowfall.

October had 7 days with measurable precipitation ( $\geq 0.01$ ”) and 5 days with measurable snowfall ( $\geq 0.1$ ”).

October had 4 days with at least 1” of snow on the ground at our 7PM MST observation time.

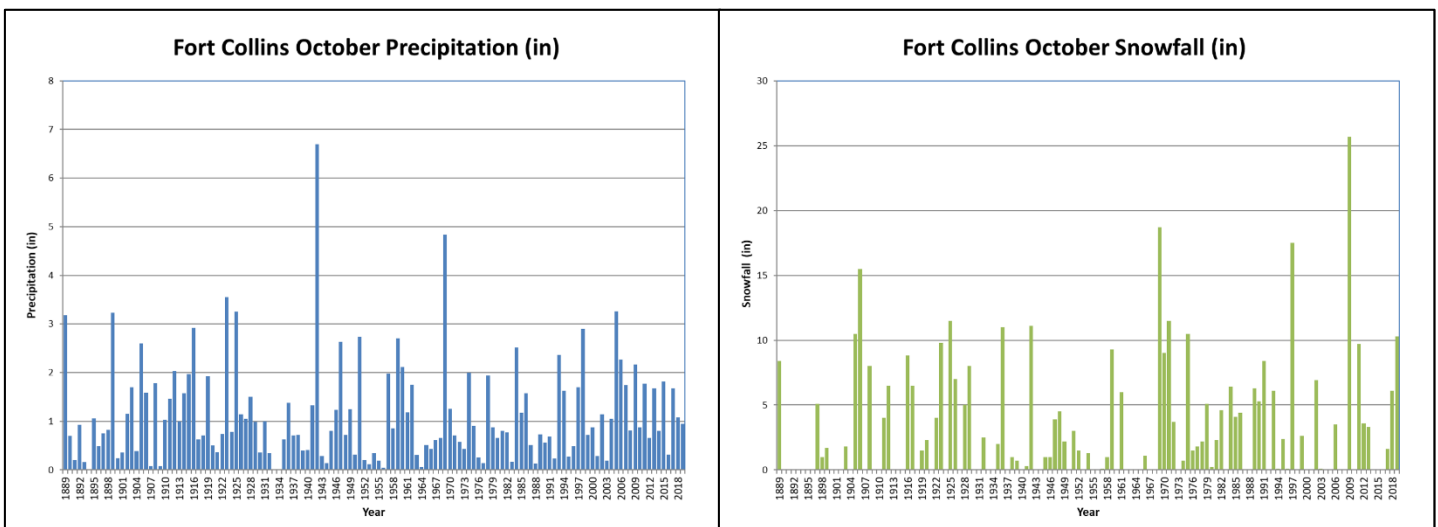


Figure 2: October precipitation (left) and snowfall (right) time series.

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

*No precipitation records in October.*

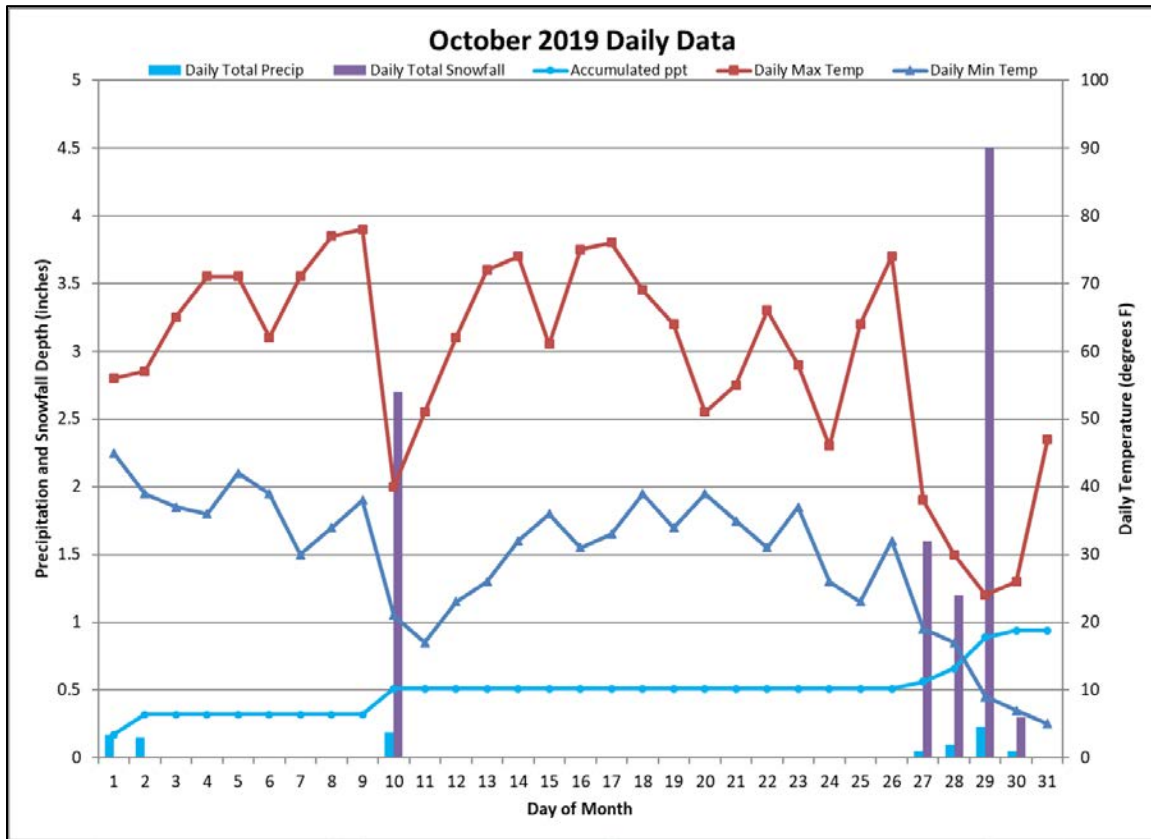


Figure 3: Daily Data for October 2019. Precipitation and temperature both show up on this graph. The y-axis on the left is for precipitation and snowfall. The y-axis on the right is for temperature.

### Wind:

In October 2019 there were 11 days with maximum wind gusts  $\geq 20$  mph and 2 days  $\geq 30$  mph.

The maximum wind gust for the month was 33 mph and occurred on October 20, 2019 at 1:00 PM MST from  $290^\circ$  (West southwest).

### Evaporation:

The evaporation pan was shut down for the season on October 26 before the cold and snow. Pan evaporation through October 26 was 2.98". The normal for October is 3.21".