

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

Month: October
Year: 2018



The first dusting of snow on the pyranometer* on October 10.
Photo from Noah Newman

Temperature:

Mean T_{\max} was 62.3°F which is 1.6° below the 1981-2010 normal for the month. This is the 36th coolest in the 130 year record (1889-2018), tied with 1935 and 1981. The last October this cool or cooler was 2013 with 59.7°F.

Mean T_{\min} was 35.9°F which is 0.5° below the 1981-2010 normal for the month. This is the 92nd coolest in the 130 year record (1889-2018), tied with 1934, 1941, 1989 and 2008. The last October this cool or cooler was 2017 with 34.7°F

Mean T_{mean} was 49.1°F which 1.1° below the normal for the 1981-2010 period. This is the 54th coolest in the 130 year record (1889-2018), tied with 1981. The last October this cool or cooler was 2013 with 47.4°F.

The maximum daily temperature for the month was 82°F and occurred on October 3, 2018.

The minimum daily temperature for the month was 12°F and occurred on October 15, 2018.

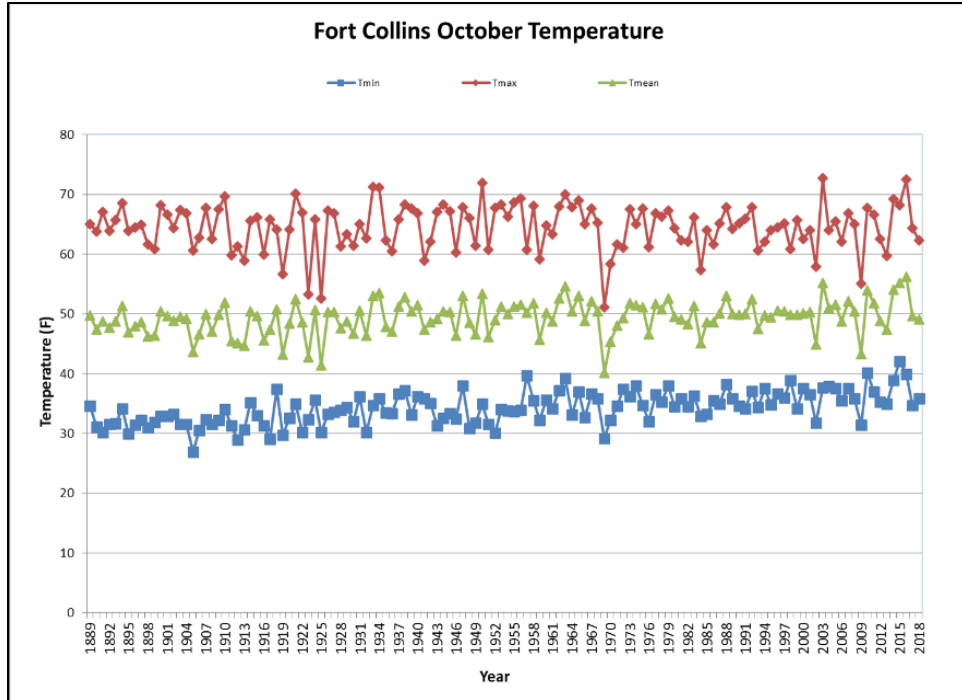


Figure 1: October temperature time series.

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

Minimum Daily Temperature:

*October 15, 2018: The minimum temperature for the day of 15°F **broke** the previous record of 17 set in 1952.*

Warmest minimum daily temperature:

*October 24, 2018: The minimum temperature for the day of 47°F **tied** the record set in 1974.*

Precipitation:

Total monthly precipitation was 1.08” which is 0.07” below the 1981-2010 normal for the month (94% of normal). This ranks as the 81st driest in the 130 year record (1889-2018). The last October this dry or drier was 2016 with 0.31” of precipitation.

October snowfall totaled 6.1” and was 2.5” above the normal for the month (169% of normal). This ranks as the 26th snowy in the 130 year record (1889-2018), tied with 1993. The last October with this much snow or more was 2011 with 9.7” of snowfall.

October had 8 days with measurable precipitation (≥ 0.01 ”) and 2 days with measureable snowfall (≥ 0.1 ”).

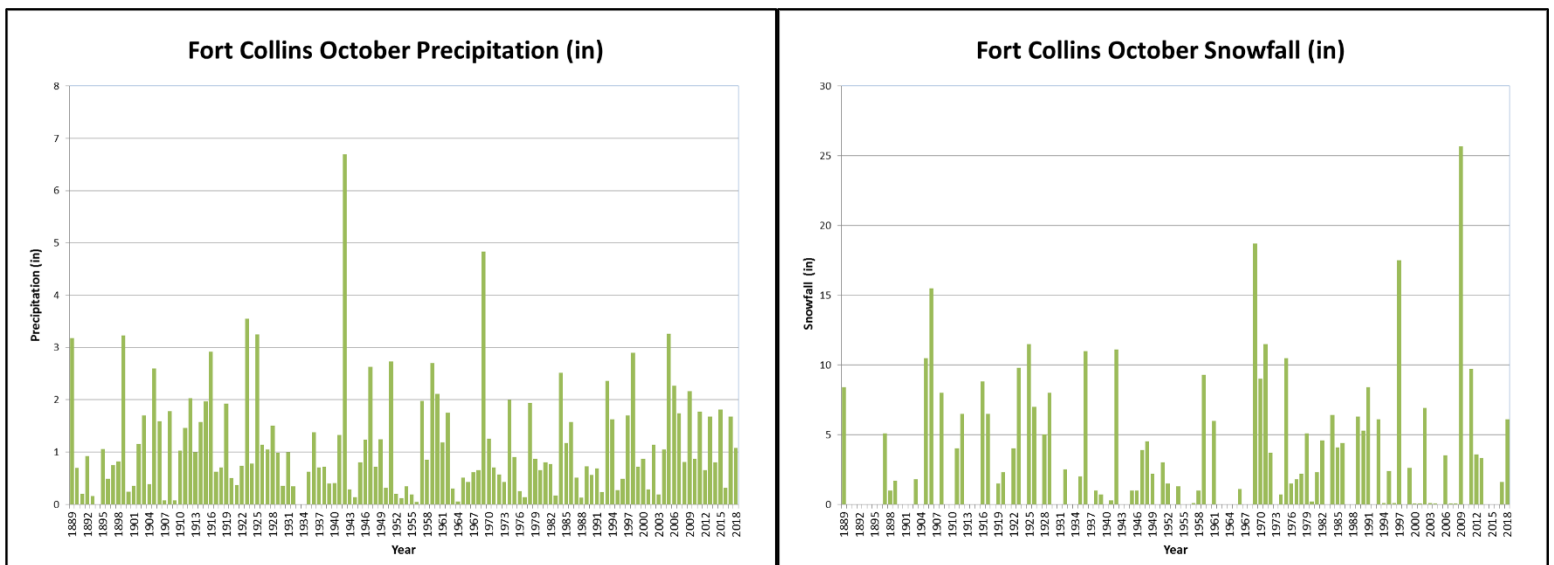


Figure 2: October precipitation (left) and snowfall (right) time series.

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

Daily Snowfall Record:

*October 14th, 2018: The daily snowfall amount of 6.0” **broke** the old record for the day of 1.0” set in 1952.*

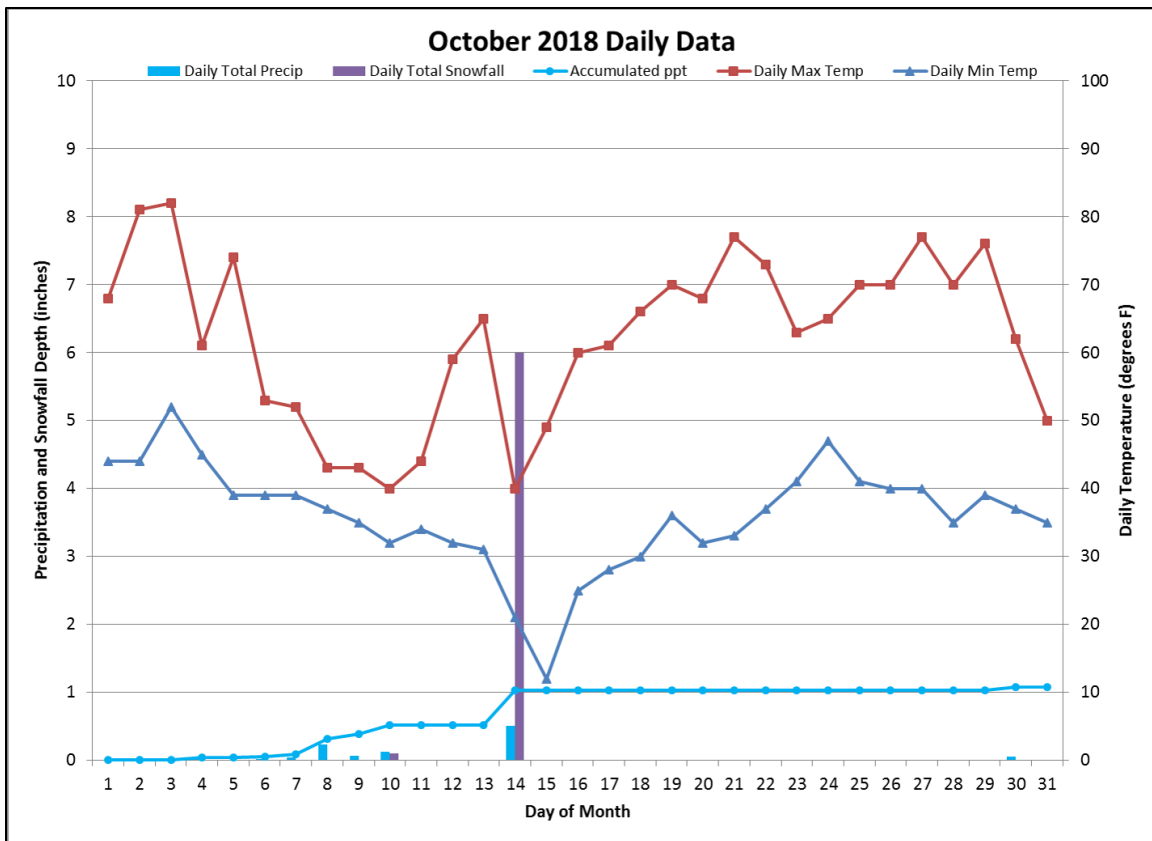


Figure 3: Daily Data for October 2018. Precipitation and temperature both show up on this graph. The y-axis on the left is for precipitation and snowfall. The y-axis on the right is for temperature.

Wind:

In October 2018 there were 8 days with maximum wind gusts ≥ 20 mph and 0 days ≥ 30 mph.

The maximum daily wind gust for the month was 29 mph and occurred on October 27, 2018 at 3:30 PM MST from 290°.

Evaporation:

Pan evaporation for October 2018 was 2.48" which was 0.73" below the normal for October (77% of normal).

*What is a pyranometer you may wonder? It's an instrument to measure incoming solar radiation (energy)!