

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

Month: October
Year: 2016



Temperature:

Mean T_{\max} was 72.5°F which is 8.6° above the 1981-2010 normal for the month. This is the 2nd warmest in the 128 year record (1889-2016). The warmest October on record was 2003 with 72.7°F .

Mean T_{\min} was 39.9°F which is 3.5° above the 1981-2010 normal for the month. This is the 3rd warmest in the 128 year record (1889-2016). The warmest October on record was 2015 with 42.1°F . The second warmest on record was 2010 with 40.2°F .

Mean T_{mean} was 56.2°F which is 6.0° above the 1981-2010 normal for the month. This is the warmest in the 128 year record (1889-2016). The previous warmest Octobers were 2003 and 2015 with 55.2°F .

The maximum daily temperature was 84°F and occurred on October 15th. The minimum daily temperature was 27°F and occurred on October 20th.

The first fall frost this year occurred on October 20th with a minimum temperature of 27°F . This is the 6th latest the first frost has occurred in the 128 year record (1889-2016). This was the only day below freezing during the month of October.

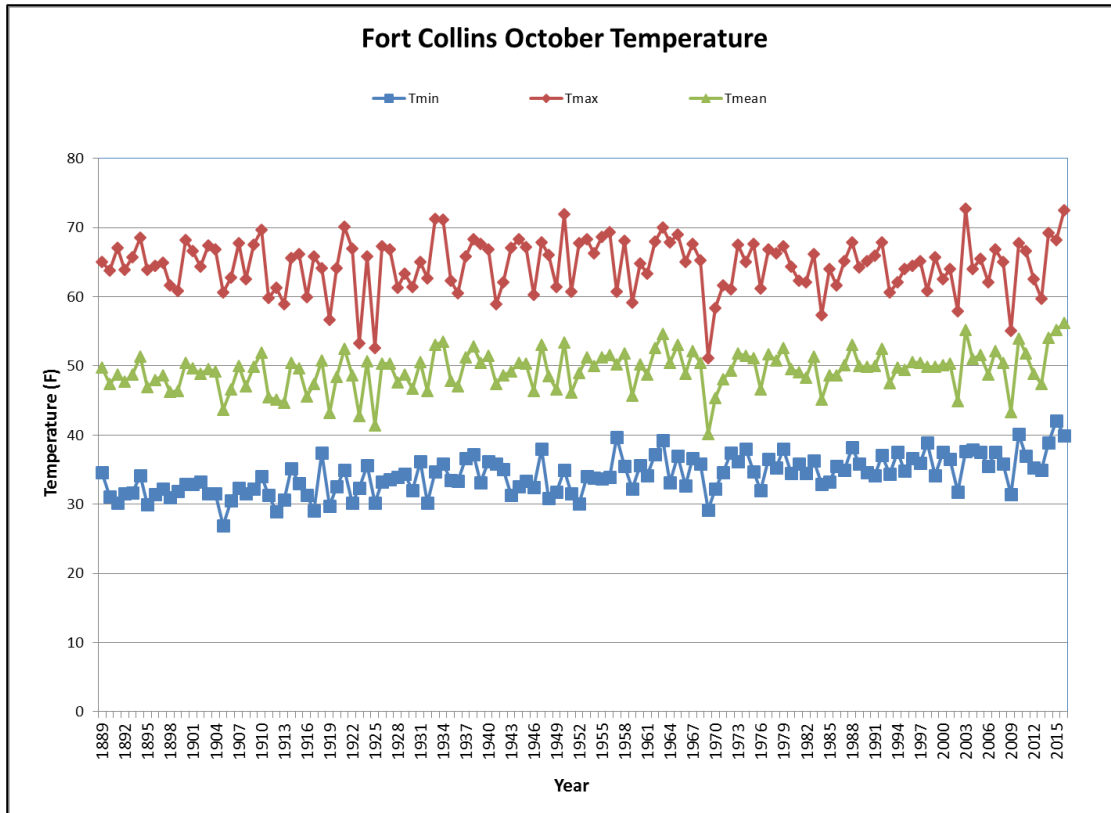


Figure 1: October temperature time series.

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

Maximum Temperature Records:

October 15, 2016: The maximum daily temperature of 84°F tied the record high temperature for the day set in 1958 and 2011.

October 27, 2016: The maximum daily temperature of 79°F tied the record high temperature for the day set in 1937.

October 31, 2016: The maximum daily temperature of 79°F tied the record high temperature for the day set in 1950.

Highest Minimum Temperature:

October 11th, 2016: The minimum daily temperature of 55°F broke the record highest minimum temperature for the day of 51°F set in 1989.

October 28th, 2016: The minimum daily temperature of 48°F broke the record highest minimum temperature for the day of 47°F set in 1998.

October 29th, 2016: The minimum daily temperature of 49°F tied the record highest minimum temperature for the day of set in 1921.

Precipitation and Snowfall:

October 2016 precipitation totaled 0.31” and was 0.84” below the 1981-2010 normal for the month (27% of normal). This ranks as the 25th driest in the 128 year record (1889-2016), tied with 1950. The last October this dry or drier was 2003 with 0.19” of precipitation.

Total snowfall for the month was 0.0”. The normal snowfall for October is 3.6”. This is the 50th time in the 128 year record October received no snowfall and the 3rd consecutive year with now snow in October.

Seasonal snowfall is also 0.0” compared to a normal of 4.5”. This is the 47th time in the 128 year record no snow has fallen in September and October, and is also the 3rd consecutive season with no snow through October. Last year, the first measurable snowfall (0.1” or greater) occurred on November 11, 2015 with 2.5”.

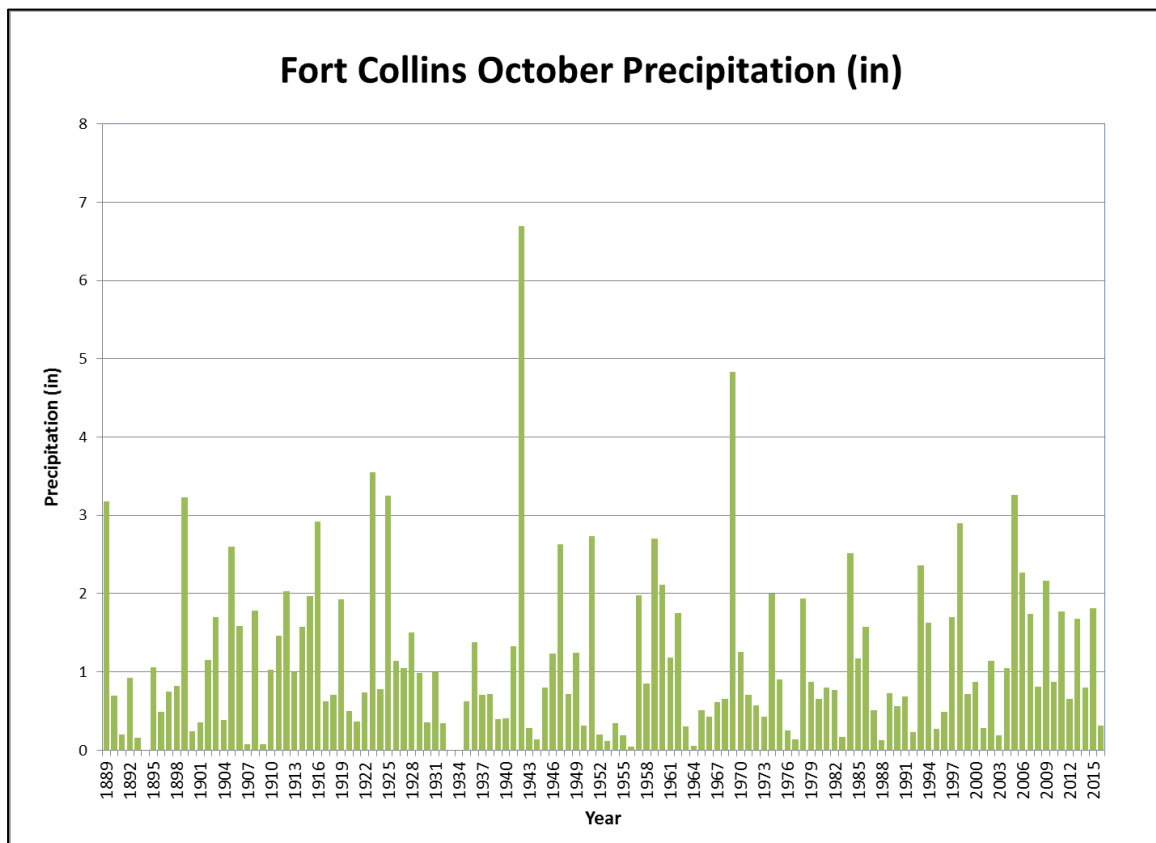


Figure 2: October precipitation time series.

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

Days with Precipitation:

3 days with measurable (0.01" or greater) precipitation.

No precipitation records for October

Wind:

In October 2016 there were 9 days with maximum wind gusts ≥ 20 mph and 2 days ≥ 30 mph.

The maximum daily wind gust for the month was 38 mph and occurred on October 17, 2016 at 1:20 PM MST from 290°.

Evapotranspiration:

Pan evaporation for October was 3.67" which was 0.46" above the normal for October (115% of normal).