

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

Month: August
Year: 2019



Temperature:

Mean T_{\max} was 88.1°F which is 4.1° above the 1981-2010 normal for the month. This is the 4th warmest in the 131-year record (1889-2019). The last August this warm or warmer was 2012 with 88.2°F .

Mean T_{\min} was 58.5°F which is 1.8° above the 1981-2010 normal for the month. This is the 5th warmest in the 131-year record (1889-2019), tied with 2003. The last August this warm or warmer was 2011 with 58.8°F .

Mean T_{mean} was 73.3°F which is 2.9° above the 1981-2010 the normal for the month. This is the 3rd warmest in the 131-year record (1889-2019). The warmest August on record was 2011 with 74.3°F and the second warmest on record was 1983 with 73.7°F .

Summer (June-August) mean temperature was 70.8°F which is 1.0° above the 1981-2010 normal for the season. This is the 15th warmest in the 131-year record (1889-2019), tied with 1980 and 2017. The last summer this warm or warmer was 2018 with 71.5°F .

The maximum daily temperature for the month was 98°F and occurred on August 20, 2019.

The minimum daily temperature for the month was 49°F and occurred on August 28, 2019.

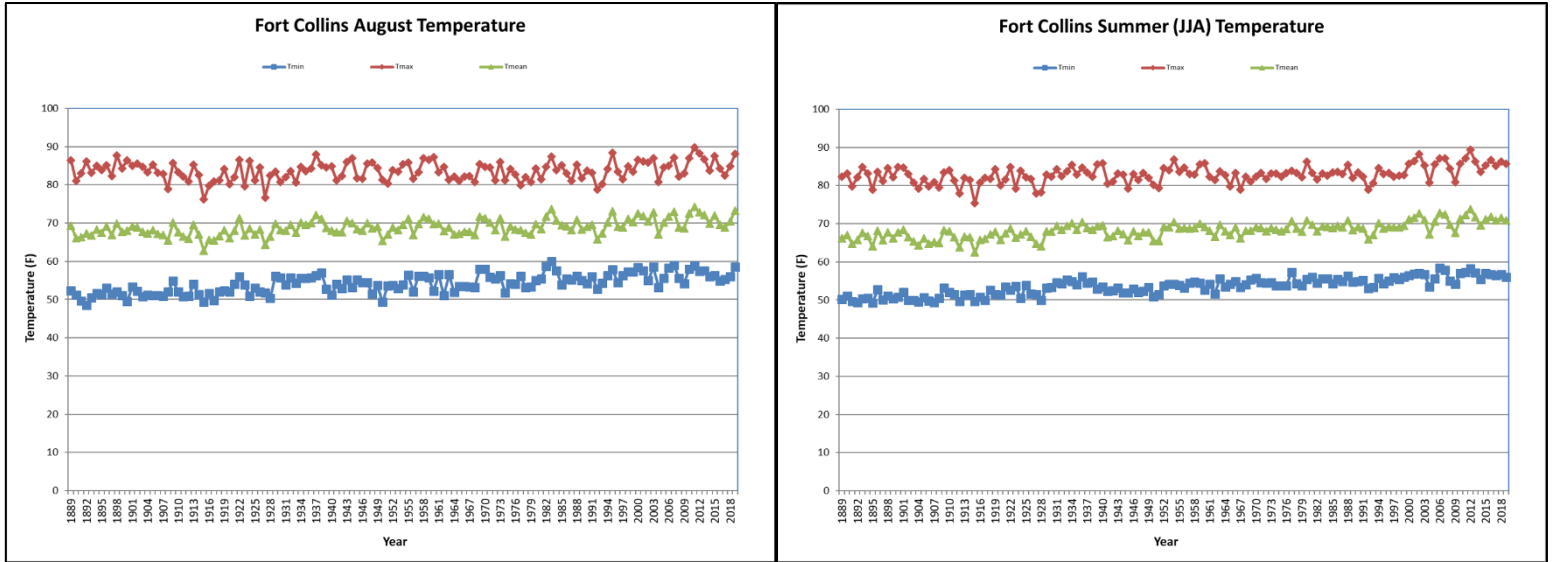


Figure 1: August (left) and summer (right) temperature time series.

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

Warmest Maximum Daily Temperature:

August 19, 2019: The maximum temperature of 96°F broke the maximum temperature for the day of 95°F set in 1928 and 1995.

August 20, 2019: The maximum temperature of 98°F broke the previous maximum temperature for the day of 97°F set in 2013.

August 25, 2019: The maximum temperature of 96°F broke the previous maximum temperature for the day of 95°F set in 2015.

90F Degree Days:

August 2019 had 13 days at or above 90F. The average number of days in the 90s for August is 6.

Through the end of August, there have been 33 days at or above 90°F. The 1889-2018 average for number of days in the 90s through August is 19.

Precipitation:

Total monthly precipitation was 0.20” which is 1.40” below the 1981-2010 normal for the month (13% of normal). This ranks as the 10th driest in the 131-year record (1889-2019). The last August this dry or drier was 2012 with 0.03” of precipitation.

Water year precipitation through August totaled 13.14” which is 1.63” below the 1981-2010 normal for the water year (89% of normal). This ranks as the 53rd driest water year through August in the 130-year record (1890-2019). The last water year to be this dry or drier through August was 2013 with 11.57” of precipitation.

Summer (June-August) precipitation totaled 4.04” which is 1.44” below the 1981-2010 normal for the season (74% of normal). This ranks as the 57th driest in the 131-year record (1889-2019). The last summer season this dry or drier was 2018 with 3.71” of precipitation.

August had 5 days with measurable precipitation (≥ 0.01 ”). There were an additional 12 days with a trace of precipitation (less than 0.01”).

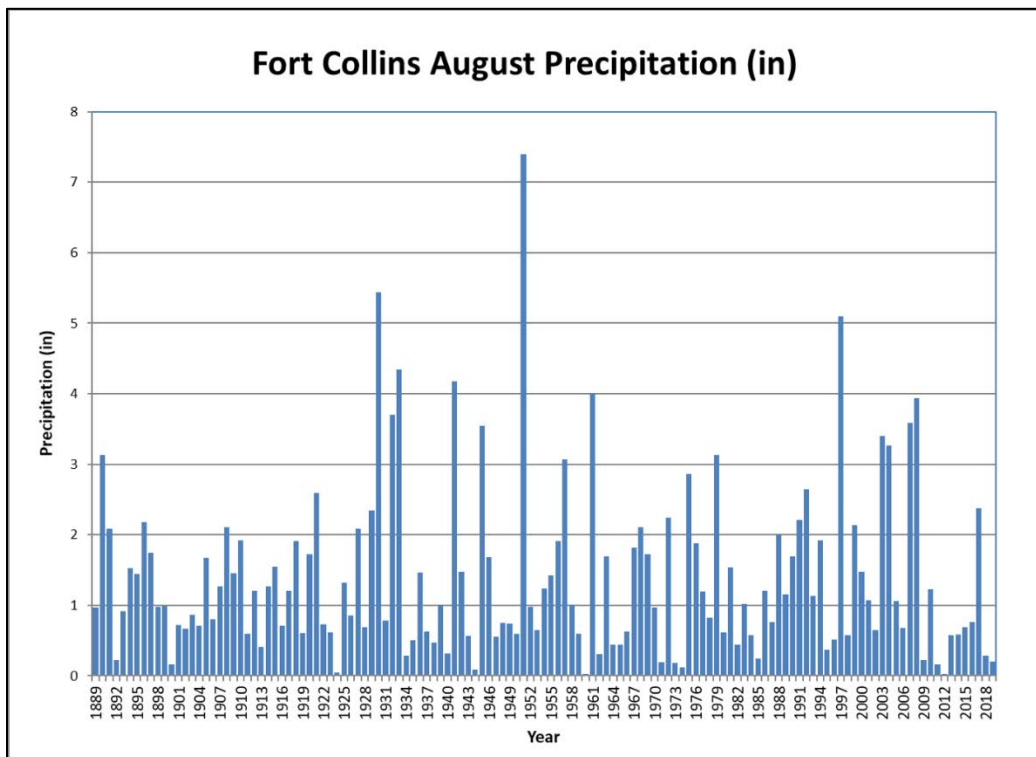


Figure 2: August precipitation time series.

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

No precipitation records in August.

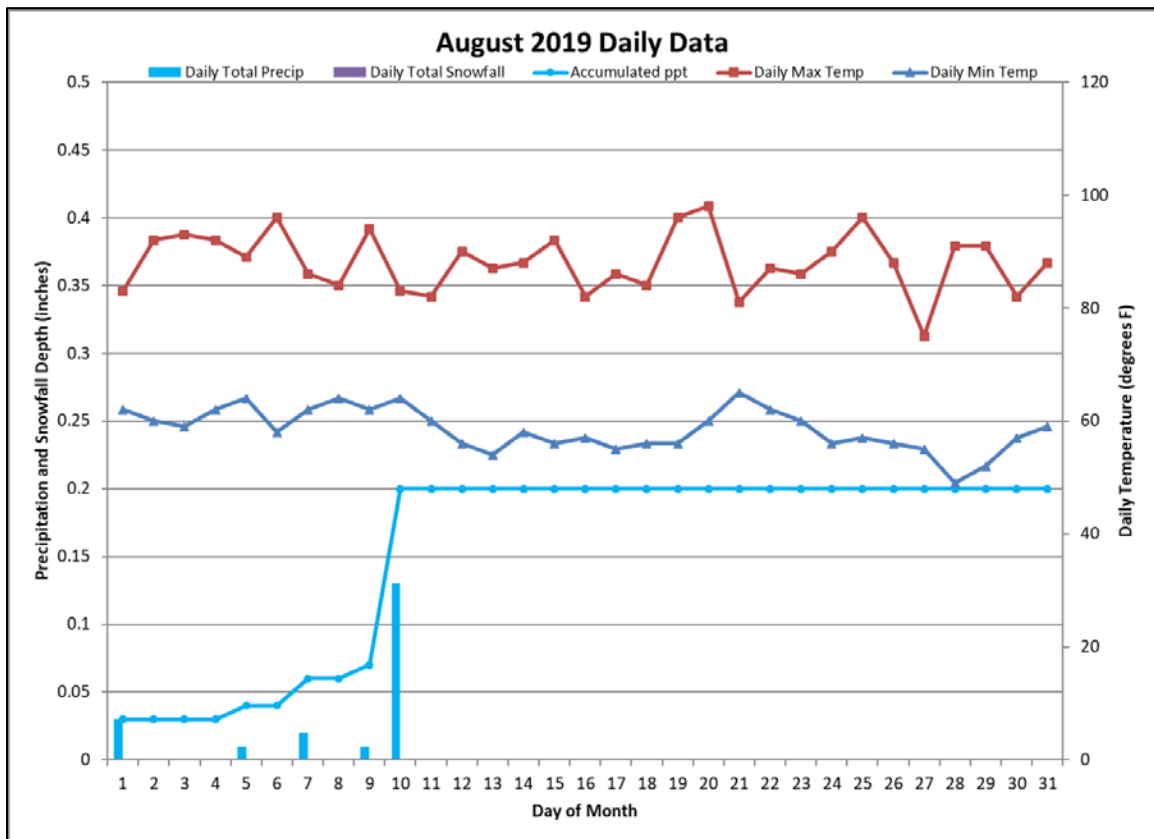


Figure 3: Daily Data for August 2019. Precipitation and temperature both show up on this graph. The y-axis on the left is for precipitation and snowfall. The y-axis on the right is for temperature.

Wind:

In August 2019 there were 9 days with maximum wind gusts ≥ 20 mph and 1 day ≥ 30 mph.

The maximum wind gust for the month was 31 mph and occurred on August 17, 2019 at 12:50 PM MST from 310° (Northwest).

Evaporation:

Pan evaporation for August 2019 was 6.77" which was 0.29" above the normal for August (104% of normal).