

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

Month: August
Year: 2017



2 August 2017 looking west. Photo credit: Andrea Jenney

Temperature:

Mean T_{\max} was 82.4°F which is 1.6° below the 1981-2010 normal for the month. This is the 44th coolest in the 129 year record (1889-2017). The last August this cool or cooler was 2008 with 82.1°F.

Mean T_{\min} was 55.3°F which is 1.4° below the 1981-2010 normal for the month (1.2°F above the 1889-2017 average). This is the 83rd coolest in the 129 year record (1889-2017). The last August this cool or cooler was 2016 with 54.9°F.

Mean T_{mean} was 68.9°F which is 1.5° below the 1981-2010 normal for the month (68.9°F is the average for the period of record). This is the 68th coolest in the 129 year record (1889-2017), tied with 1902, 1963, 1997. The last August this cool or cooler was 2009 with 68.6°F.

Summer (June, July and August) mean temperature was 70.8°F which is 1.0° above the normal for the summer season. This ranks as the 14th warmest summer in the 129 year record (1889-2017), tied with 1980. The last summer this warm or warmer was 2016 with 71.8°F.

The maximum daily temperature for the month was 94°F and occurred on August 26th, 2017.

The minimum daily temperature for the month was 50°F and occurred on August 17th, 2017.

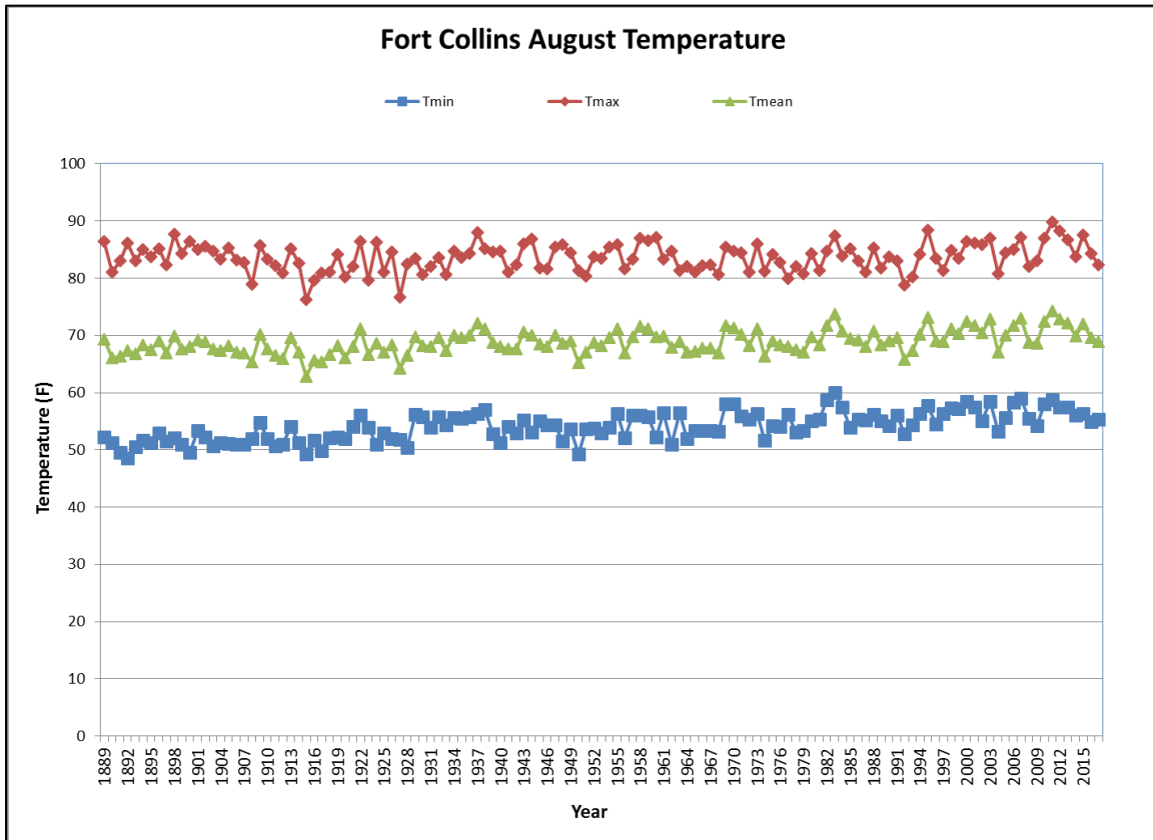


Figure 1: August temperature time series.

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

Coollest High Temperature:

August 6, 2017: The maximum daily temperature of 68°F beat the previous record coldest maximum temperature for the day of 69° set in 1945.

August 7, 2017: The maximum daily temperature of 65°F beat the previous record coldest maximum temperature for the day of 66° set in 1939.

90 Degree Days:

August had 3 days at or above 90°F. The 1889-2017 average for August is 6 days at or above 90°F.

As of the end of August, there have been 24 days at or above 90°F. The 1889-2017 average for 90 degree days through August is 19 days.

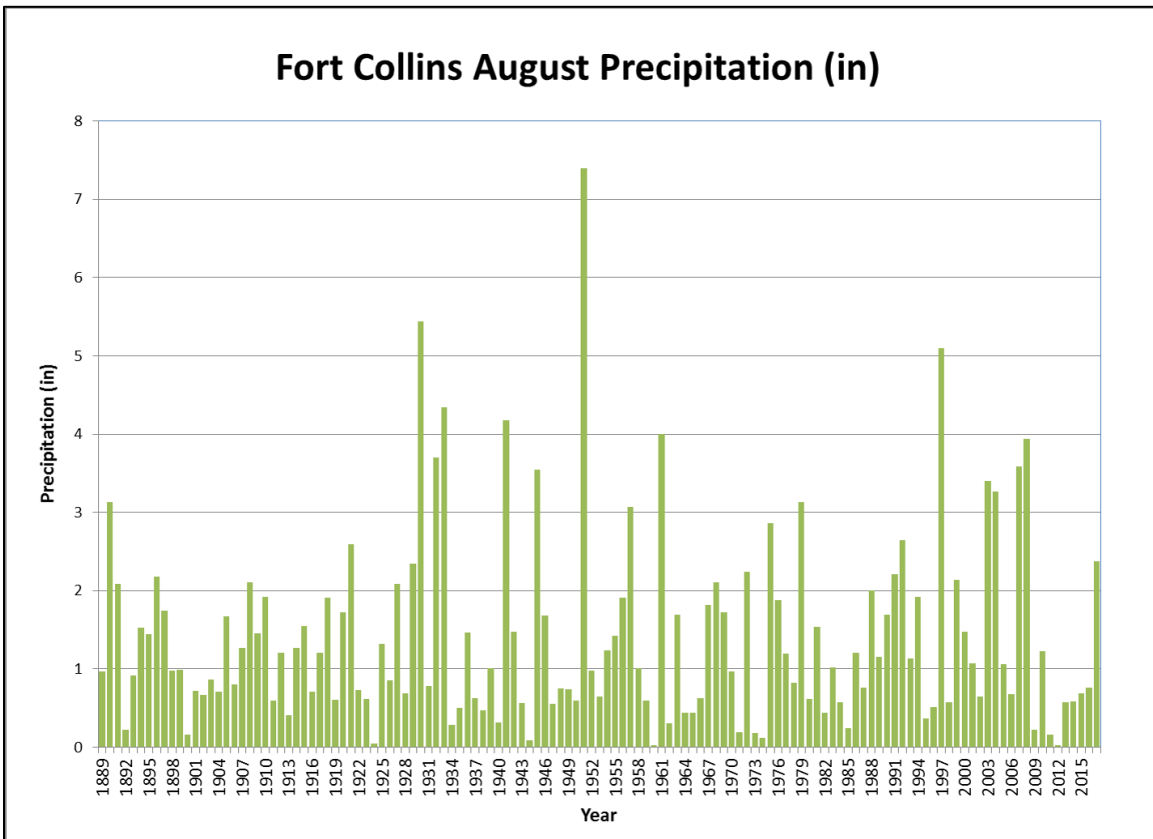
Precipitation and Snowfall:

Total monthly precipitation was 2.38” and is 0.78” above the 1981-2010 normal for the month (149% of normal). This ranks as the 19th wettest in the 129 year record (1889-2017). The last August this wet or wetter was 2008 with 3.94” of precipitation. 2008 was also the last time precipitation in August was above normal.

Summer (June, July, August) precipitation was 3.47” and is 2.07” below the 1981-2010 normal for the season (63% of normal). This ranks as the 38th driest summer in the 129 year record (1889-2017). The last summer this dry or drier was 2016 with 1.72”.

Water year precipitation through August totaled 13.69” and is 1.08” below the normal for the water year (93% of normal). This ranks as the 67th driest start to the water year in the 128 year record (1890-2017). This last water year to start this dry or drier was 2013 with 11.57” through August.

August had 12 days with measurable precipitation (≥ 0.01 ”).



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

No precipitation records in August

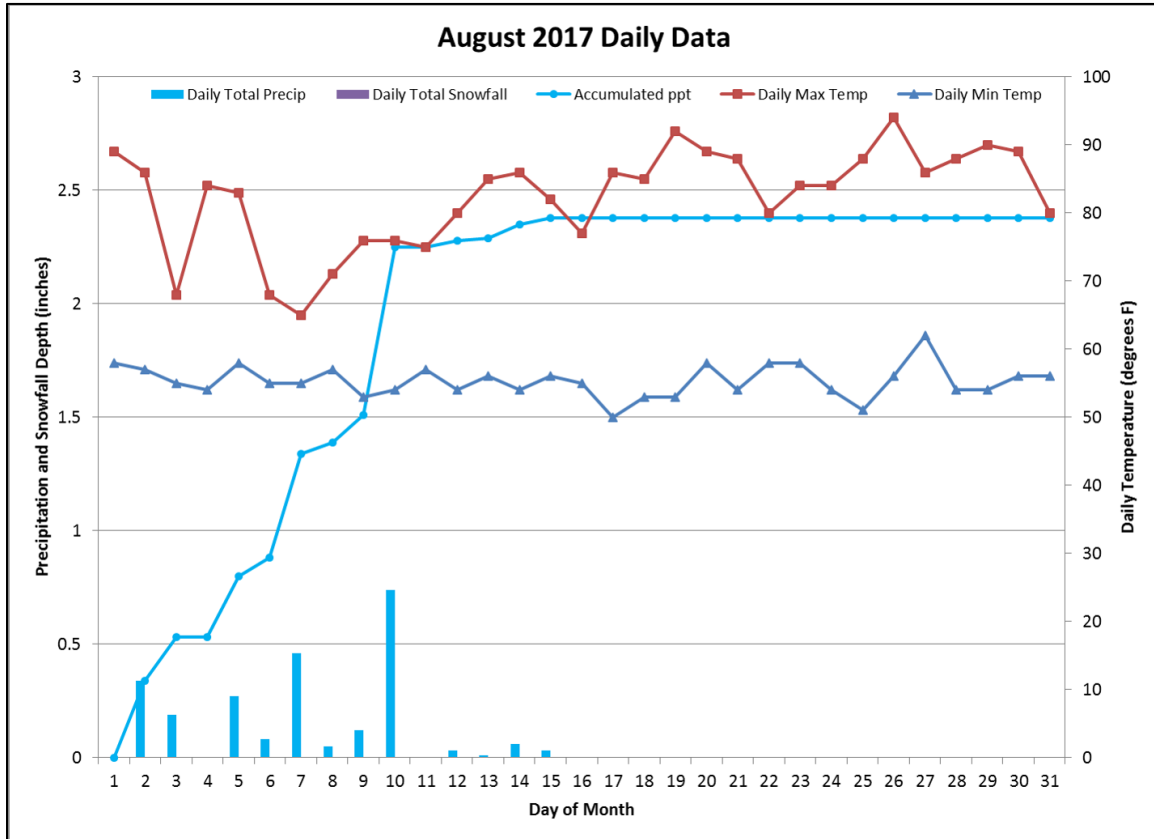


Figure 3: Daily Data for August 2017. Precipitation and temperature both show up on this graph. The y-axis on the left is for precipitation and snowfall. The y-axis on the right is for temperature.

Wind:

In August 2017 there were 7 days with maximum wind gusts ≥ 20 mph and 0 days ≥ 30 mph.

The maximum daily wind gust for the month was 27 mph and occurred on August 19, 2017 at 2:20 PM MST from 10°.

Evaporation:

Pan evaporation for August 2017 was 5.64” which was 0.84” below the normal for August (87% of normal).