

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

Month: September
Year: 2018



Temperature:

Mean T_{\max} was 81.3°F which is 5.4° above the 1981-2010 normal for the month. This is the 5th warmest in the 130 year record (1889-2018). The last September this warm or warmer was 2015 with 83.3°F .

Mean T_{\min} was 49.8°F which is 2.3° above the 1981-2010 normal for the month. This is the 7th warmest in the 130 year record (1889-2018), tied with 2007. The last September this warm or warmer was 2015 with 50.9°F

Mean T_{mean} was 65.6°F which 3.8° above the normal for the 1981-2010 period. This is the 3rd warmest in the 130 year record (1889-2018). The warmest September was 2015 with 67.1°F and second warmest was 1998 with 66.5° .

Water Year 2018 (October 2017- September 2018) mean temperature was 51.9°F which is 1.6° above the normal for the water year. This ranks as the 5th warmest in the 129 year record (1890-2018), tied with 1934. The last water year this warm or warmer was 2017 with 52.4°F .

The maximum daily temperature for the month was 93°F and occurred on September 13, 2018.

The minimum daily temperature for the month was 37°F and occurred on September 26, 2018.

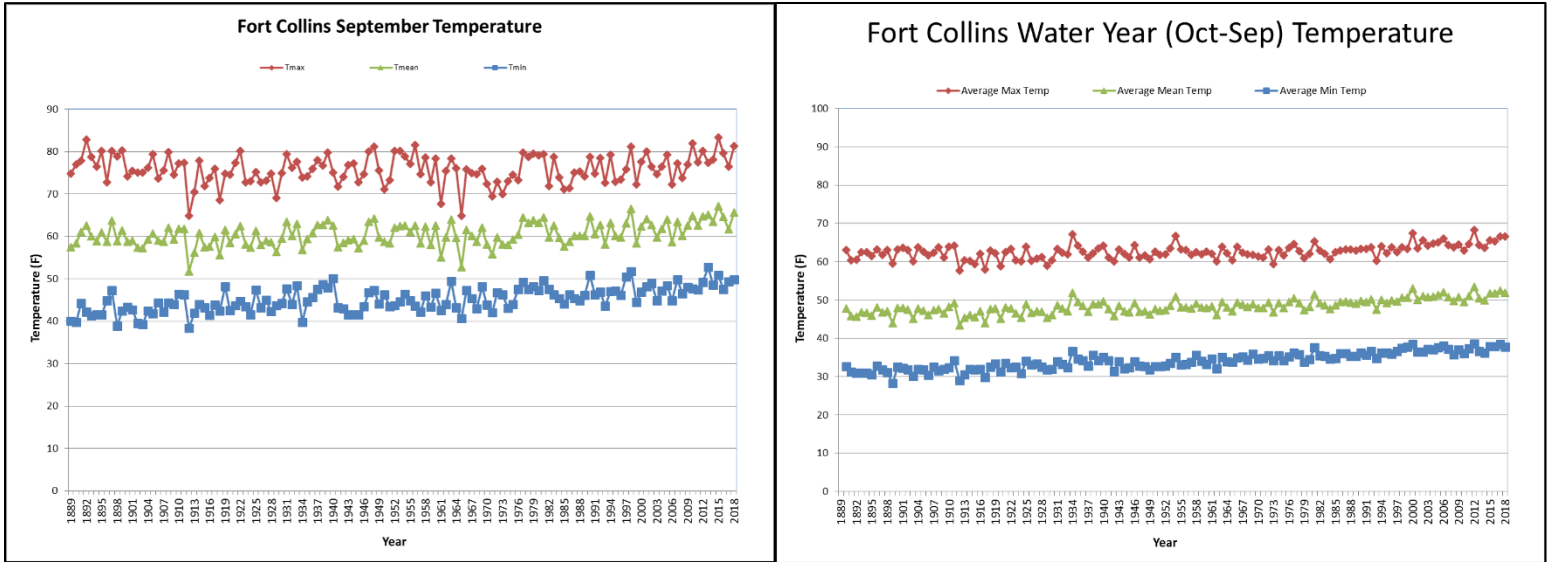


Figure 1: September (left) and water year (right) temperature time series.

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

Maximum Daily Temperature:

September 11, 2018: The maximum temperature for the day of 92°F tied the record set in 1895

September 12, 2018: The maximum temperature for the day of 92°F broke the previous record of 91°F set in 1939 and tied in 1956 and 2017.

Warmest minimum daily temperature:

September 17, 2018: The minimum temperature for the day of 60°F broke the previous record of 58°F set in 1910.

September 20, 2018: The minimum temperature for the day of 59°F broke the previous record of 56 set in 1963

90 Degree Days:

September had 7 days at or above 90°F. The 1889-2017 average for number days in the 90s for September is 1. This is the 2nd most number of 90 degree days in September, tied with September 2013. The most 90s in September occurred in September 1895.

The 7 days in the 90s occurred in consecutive days (Sep 11 - Sep 17). This ties the record for the longest stretch of consecutive days at or above 90°F in September, originally set in September 2013.

Through the end of September, there have been 37 days at or above 90°F for the calendar year. The 1889-2017 average for number of days in the 90s through September is 20 days.

The average for 90° days in a year is 20 days and the record is 57 days set in 2012.

Precipitation:

Total monthly precipitation was 0.46” which is 0.87” below the 1981-2010 normal for the month (35% of normal). This ranks as the 36th driest in the 130 year record (1889-2018), tied with 1958. The last September this dry or drier was 2016 with 0.19” of precipitation.

Water Year 2018 (Oct 2017 – Sep 2018) precipitation was 14.44” which is 1.66” below the 1981-2010 normal for the water year (90% of normal). This ranks as the 58th driest water year in the 129 year record (1890-2018). The last water year this dry or drier was 2012 with 12.99”.

September had 4 days with measurable precipitation (≥ 0.01 ”).

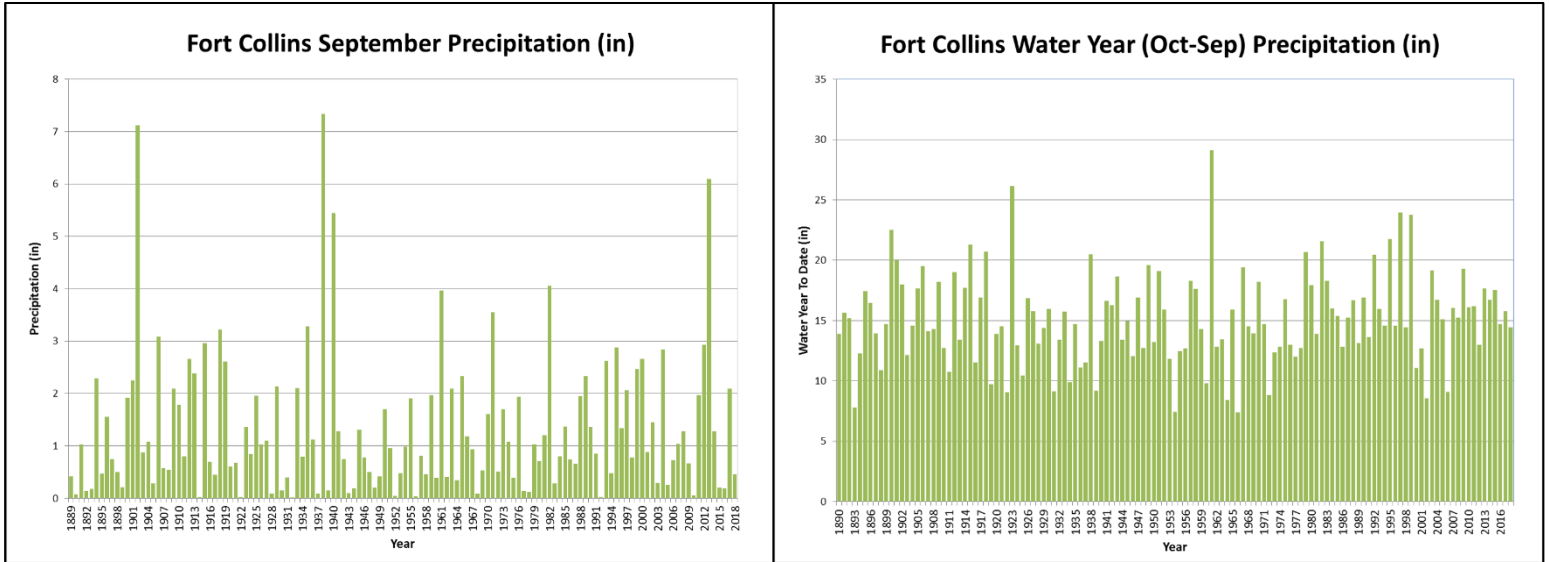


Figure 2: September (left) and water year (right) precipitation time series

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

No precipitation records in September

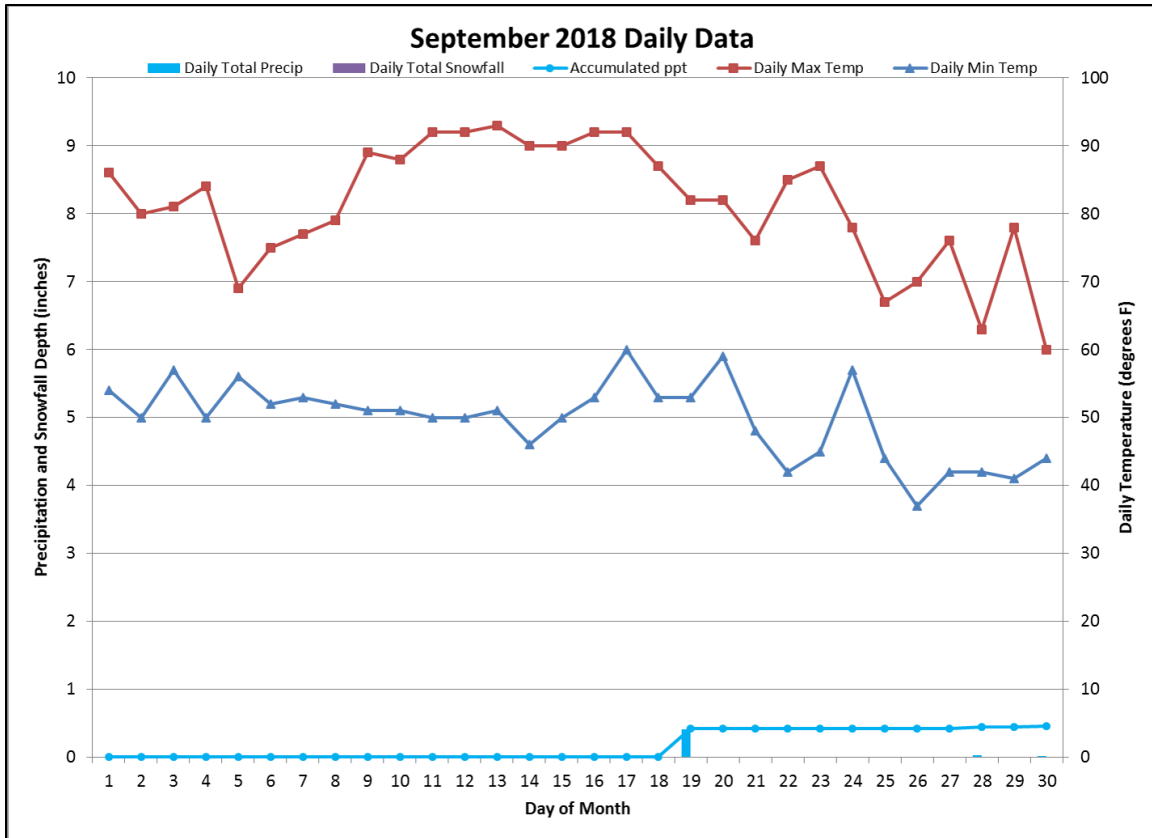


Figure 3: Daily Data for September 2018. Precipitation and temperature both show up on this graph. The y-axis on the left is for precipitation and snowfall. The y-axis on the right is for temperature.

Wind:

In September 2018 there were 5 days with maximum wind gusts ≥ 20 mph and 0 days ≥ 30 mph.

The maximum daily wind gust for the month was 26 mph and occurred on September 25, 2018 at 1:00 PM MST from 90°.

Evaporation:

Pan evaporation for September 2018 was 5.54” which was 0.63” above the normal for September (113% of normal).