

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

Month: September
Year: 2017



Temperature:

Mean T_{\max} was 76.4°F which is 0.5° above the 1981-2010 normal for the month. This is the 56th warmest in the 129 year record (1889-2017), tied with 1894 and 2004. The last September this warm or warmer was 2016 with 79.6°F.

Mean T_{\min} was 49.3°F which is 1.8° above the 1981-2010 normal for the month. This is the 10th warmest in the 129 year record (1889-2017). The last September this warm or warmer was 2015 with 50.9°F.

Mean T_{mean} was 61.7°F which is 1.2° above the 1981-2010 normal for the month. This is the 48th warmest in the 129 year record (1889-2017). The last September this warm or warmer was 2016 with 64.6°F.

Water Year 2017 (Oct 2016-Sep 2017) mean temperature was 52.4°F which is 2.1° above the normal for the water year. This ranks as the 3rd warmest water year in the 128 year record (1890-2017). The warmest was 2012 with 53.4°F and second warmest was 2000 with 53.0°F.

The maximum daily temperature for the month was 98°F and occurred on September 3rd, 2017.

The minimum daily temperature for the month was 39°F and occurred on September 25th, 2017.

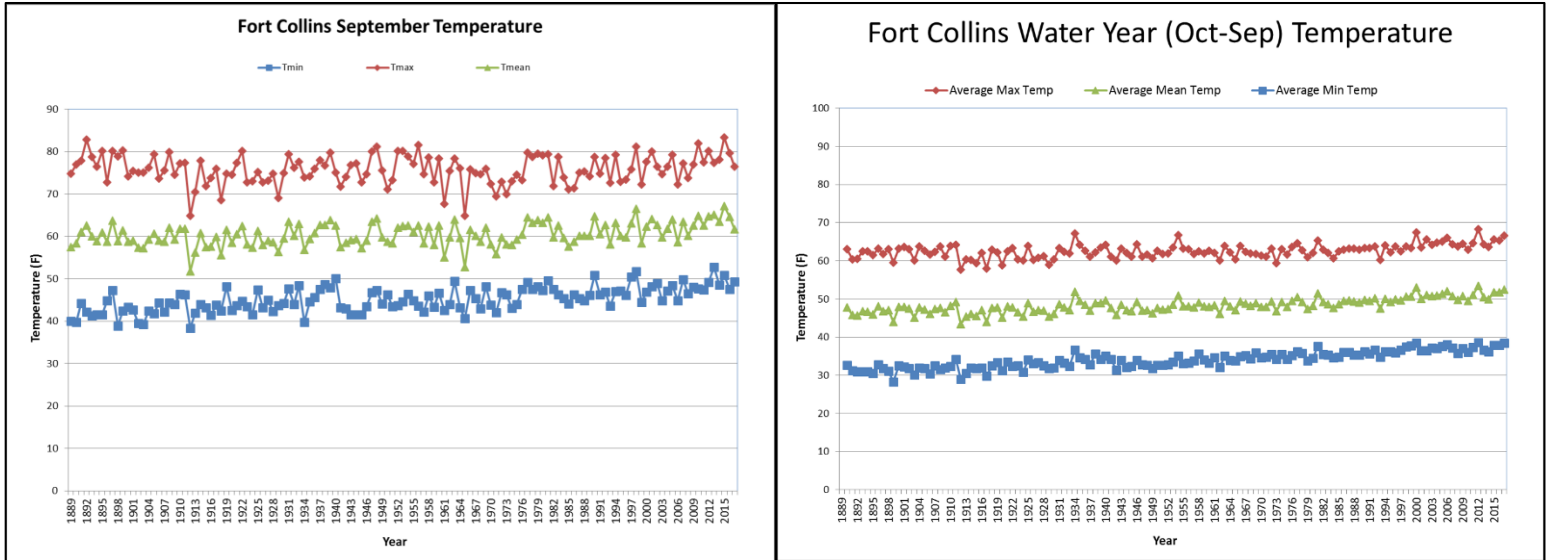


Figure 1: September (left) and Water Year (right) temperature time series.

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

Warmest September Temperature:

The maximum temperature on September 3 of 98°F beat the previous September record warmest temperature of 97°F set on September 6, 2013 and September 13, 1990.

Daily Maximum Temperature:

September 3, 2017: The high temperature of 98°F beat the previous record for the day of 94°F set in 1899 and 2014.

September 12, 2017: The high temperature of 91°F tied the record for the day set in 1939 and tied in 1956.

Warmest Minimum Daily Temperature:

September 11, 2017: The minimum temperature of 62°F tied the record for the warmest minimum temperature for the day set in 1998.

90 Degree Days:

September had 2 days at or above 90°F. The 1889-2017 average for September is 1 day at or above 90°F.

As of the end of September, there have been 26 days at or above 90°F. The 1889-2017 average for 90 degree days through September is 20 days.

Precipitation and Snowfall:

Total monthly precipitation was 2.09” and was 0.76” above the 1981-2010 normal for the month (157% of normal). This ranks as the 27th wettest in the 129 year record (1889-2017), tied with 1909 and 1963. The last September this wet or wetter was 2013 with 6.09” of precipitation.

Water Year 2017 (Oct 2016 – Sep 2017) precipitation totaled 15.78” and is 0.32” below the normal for the water year (98% of normal). This ranks as the 76th driest water year in the 128 year record (1890-2017). This last water year this dry or drier was 2016 with 14.68”.

September received no snowfall for the month. The 1981-2010 normal for snowfall is 0.9” in the month. This is the 111th September with no measurable snowfall in the 129 year record. The last September to record measurable snowfall was 2000 with 8.2”.

September had 7 days with measurable precipitation (≥ 0.01 ”).

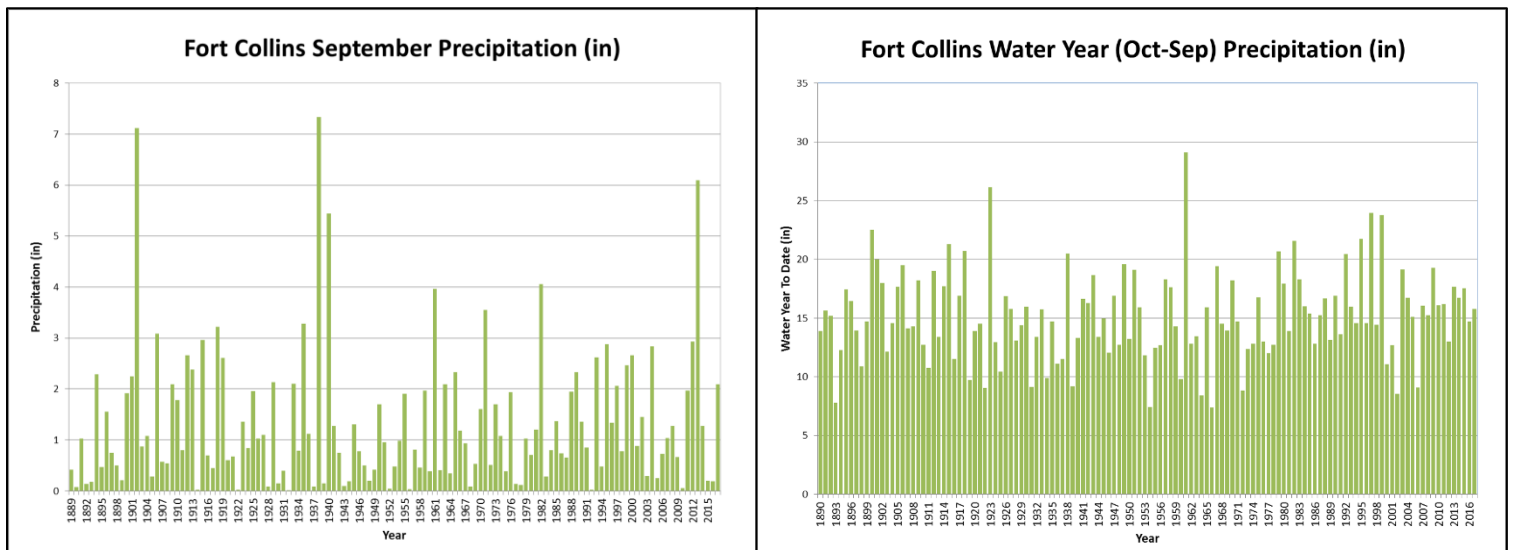


Figure 2: September (left) and Water Year (right) precipitation time series.

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

No precipitation records in September

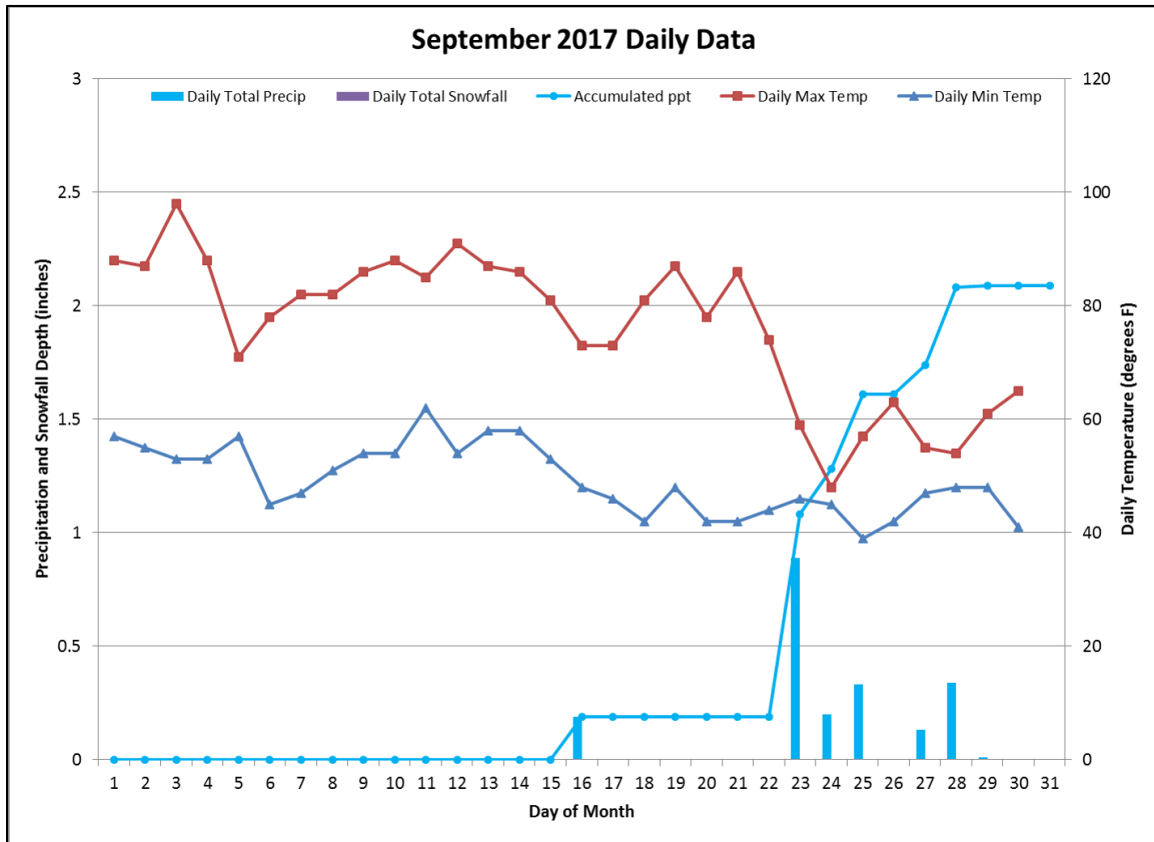


Figure 3: Daily Data for September 2017. Precipitation and temperature both show up on this graph. The y-axis on the left is for precipitation and snowfall. The y-axis on the right is for temperature.

Wind:

In September 2017 there were 4 days with maximum wind gusts ≥ 20 mph and 1 day ≥ 30 mph.

The maximum daily wind gust for the month was 31 mph and occurred on September 19, 2017 at 12:10 PM MST from 190°.

Evaporation:

Pan evaporation for September 2017 was 4.20” which was 0.71” below the normal for September (86% of normal).