

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

Month: September
Year: 2016



Temperature:

Mean T_{\max} was 79.6°F which is 3.7° above the 1981-2010 normal for the month. This is the 19th warmest in the 128 year record (1889-2016). The last September this warm or warmer was 2015 with 83.3°F .

Mean T_{\min} was 47.5°F which is 2.0° above the 1981-2010 normal for the month. This is the 25th warmest in the 128 year record (1889-2016), tied with 1978 and 1982. The last September this warm or warmer was 2015 with 50.9°F .

Mean T_{mean} was 64.6°F which is 2.9° above the 1981-2010 normal for the month. This is the 7th warmest in the 128 year record (1889-2016). The last September this warm or warmer was 2015 with 67.1°F .

Water Year 2016 mean temperature was 51.7°F which is 1.4° above the normal for the water year season. This ranks as the 6th warmest water year in the 127 year record (1890-2016). The last water year this warm or warmer was 2015 with 51.8°F .

The maximum daily temperature was 90°F and occurred on September 19th. The minimum daily temperature was 38°F and occurred on September 10th and 26th.

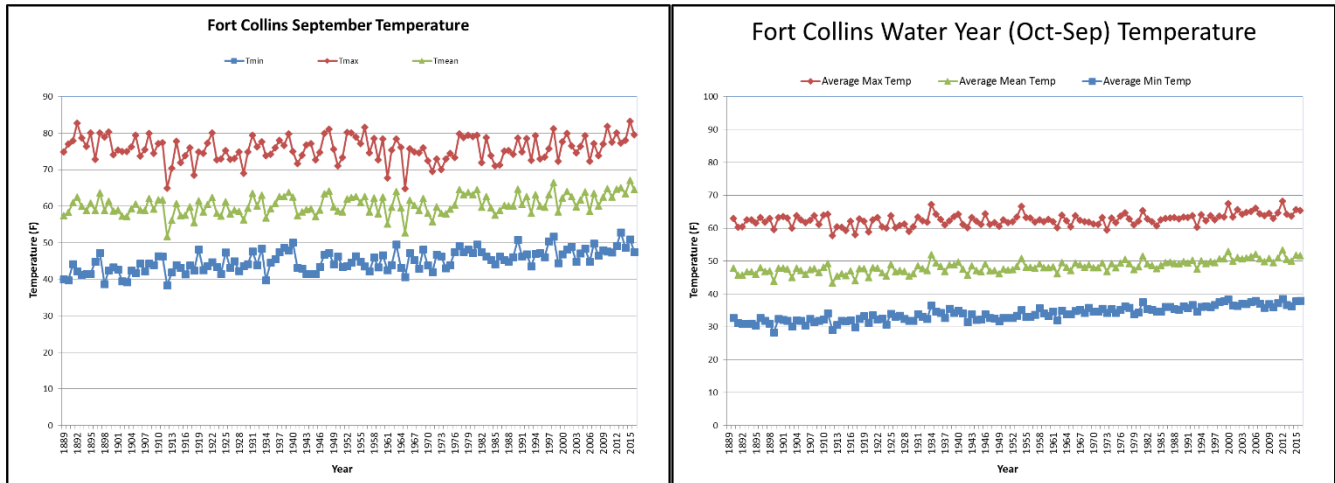


Figure 1: September (left) and water year (right) temperature time series.

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

Warmest Minimum Temperature:

September 23, 2016: The minimum daily temperature of 58° broke the warmest minimum temperature for the day set in 1911 and 2007.

90 Degree Days

September had one day at or above 90°F. Through September, there have been 33 days at or above 90°F in calendar year 2016. The 1889-2016 average for 90 degree days through September is 20.

Precipitation and Snowfall:

September 2016 precipitation totaled 0.19” and was 1.14” below the 1981-2010 normal for the month (14% of normal). This ranks as the 19th driest in the 128 year record (1889-2016), tied with 1944. The last September this dry or drier was 2010 with 0.06” of precipitation.

Water Year 2016 precipitation totaled 14.68” and was 1.42” below the normal for the water year (91% of normal). This ranks as the 63rd driest water year in the 127 year record (1890-2016). The last water year this dry or drier was 2012 with 12.99”.

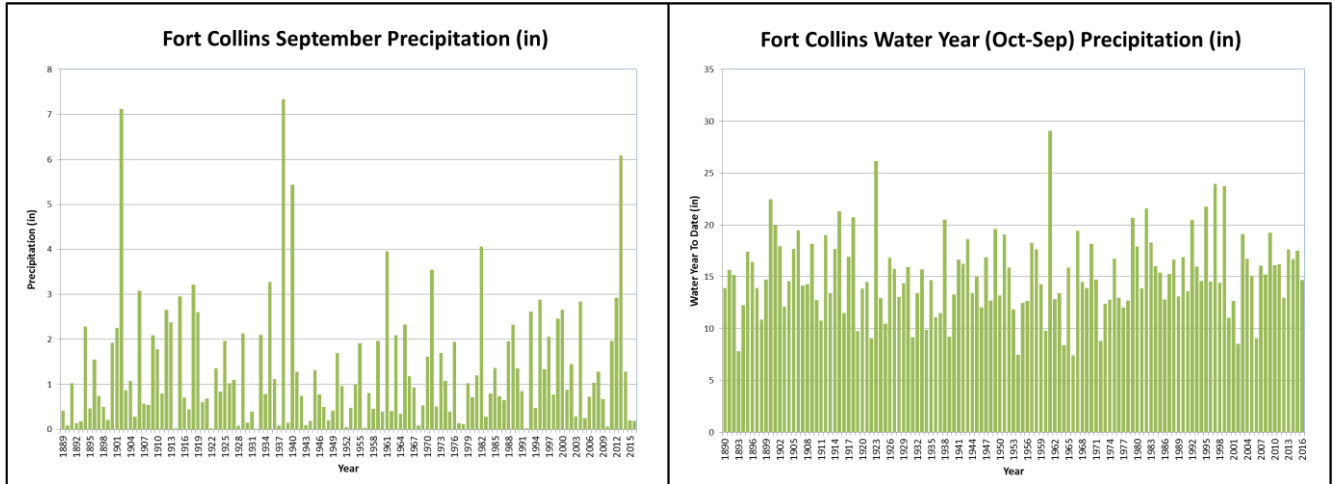


Figure 2: September (left) and water year (right) precipitation time series.

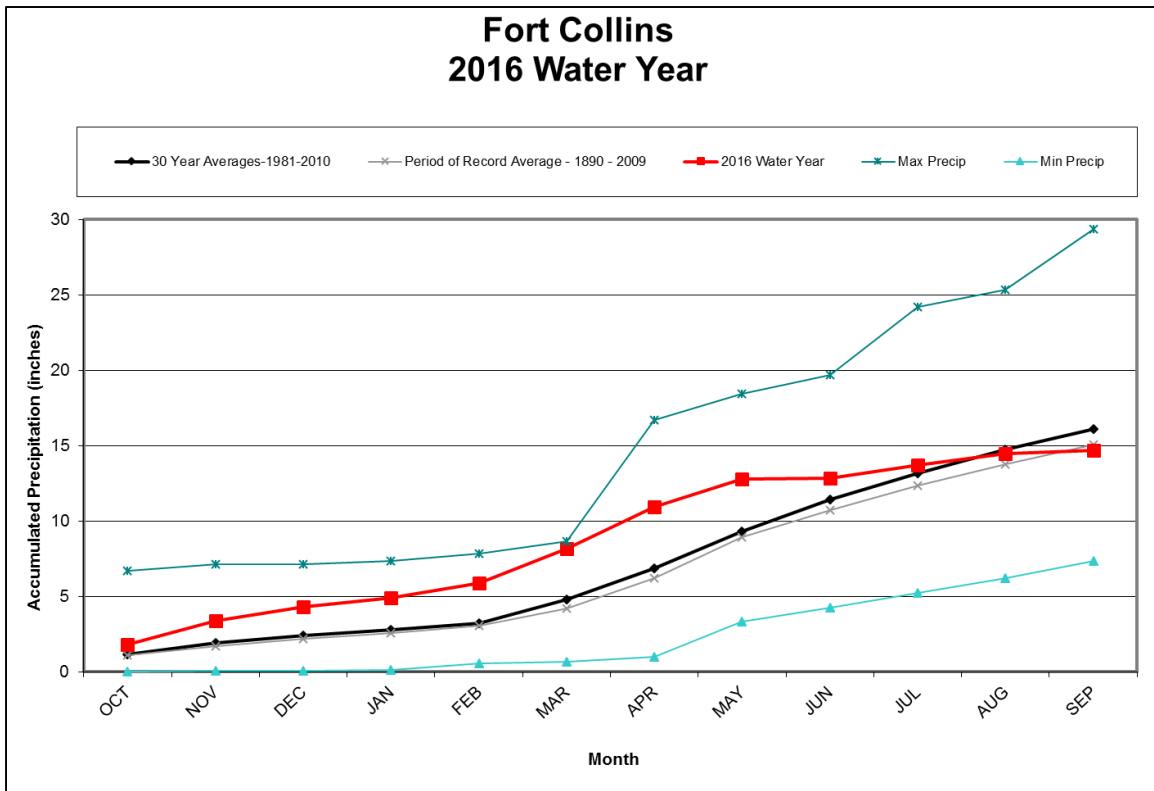


Figure 3: Water Year 2016 monthly precipitation accumulation.

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

No precipitation records for September

Wind:

In September 2016 there were 3 days with maximum wind gusts ≥ 20 mph and 0 days ≥ 30 mph.

The maximum daily wind gust for the month was 23 mph and occurred on September 23rd, 2016 at 4:00 PM MST from 010°.

Evapotranspiration:

Pan evaporation for September was 4.96" which was 0.05" above the normal for September (101% of normal).