

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

Month: August
Year: 2013



Temperature:

Mean T_{\max} was 86.7 which is 2.7 degrees above the normal for the month. This ranks as the 13th warmest in the 125 year record (1889-2013). The last August this warm was last year with 88.2 degrees.

Mean T_{\min} was 57.5 degrees which is 0.8 degrees above the normal for the month. This ranks as the 12th warmest in the 125 year record (1889-2013) tied with 1984 and 2001. The last August this warm was 2011 with 58.8 degrees.

Mean T_{mean} was 72.1 degrees which is 1.7 degrees above the normal for the month. This ranks as the 9th warmest in the 125 year record (1889-2013) tied with 1937. The last August this warm was last year with 72.8 degrees.

Summer (JJA) mean temperature was 71.7 degrees which is 1.9 degrees above the normal for the summer season. This ranks as the 6th warmest summer in the 125 year record (1889-2013). The last summer this warm was last year with 73.8 degrees.

The maximum daily temperature was 97 and occurred on 20 August 2013. The minimum daily temperature was 51 and occurred on 15 August 2013.

A time series of temperatures for Fort Collins, CO is shown in Figure 1 below.

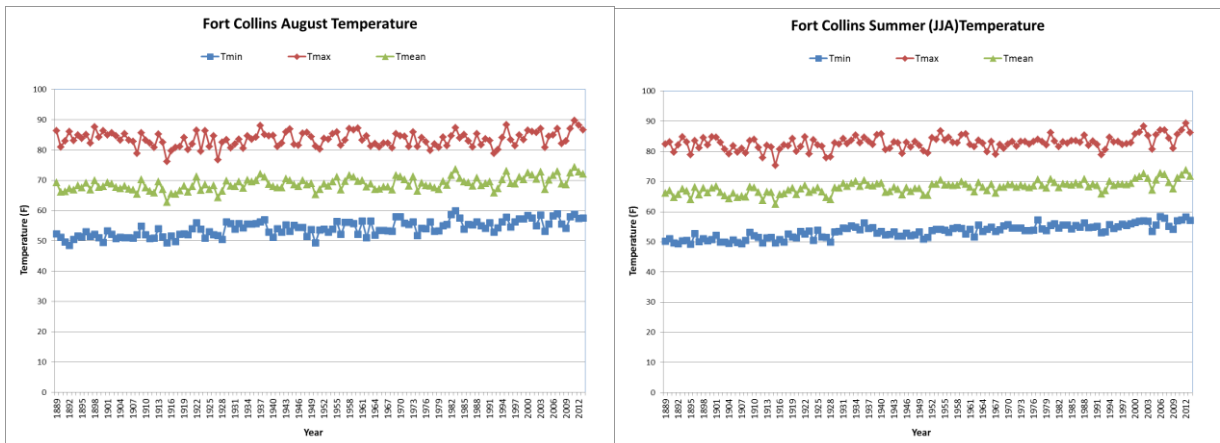


Figure 1: August and summer temperature time series

Misc. Temperature (record status, days above/below thresholds):

Highest Maximum Temperature:

20 August 2013: The maximum temperature of 97 broke the old record of 95 set in 2003.

Highest Minimum Temperature:

21 August 2013: The low temperature of 66 degrees broke the old record of 64 set in 1988.

26 August 2013: The low temperature of 62 degrees tied the old record set in 1961 and 2011.

Precipitation and Snowfall:

Total monthly precipitation was 0.57” and was 1.03” below the normal for the month (36% of normal). This ranks as the 26th driest in the 125 year record (1889-2013) tied with 1984 and 1998. The last August this dry was last year with only 0.03” of precipitation.

Summer (JJA) precipitation was 3.06” which is 2.42” below the normal for the season (56% of normal for the season). This ranks as the 26th driest in the 125 year record (1889-2013). The last summer this dry was 2006 with only 1.65” of precipitation.

Water year 2013 precipitation total was 11.57” and was 3.20” below the normal for the water year through August (78% of normal). This ranks as the 38th driest water year through August in the 124 year record (1890-2013). The last water year this dry was last year with 10.06” of precipitation.

Time series of August and water year precipitation are shown in figure 2.

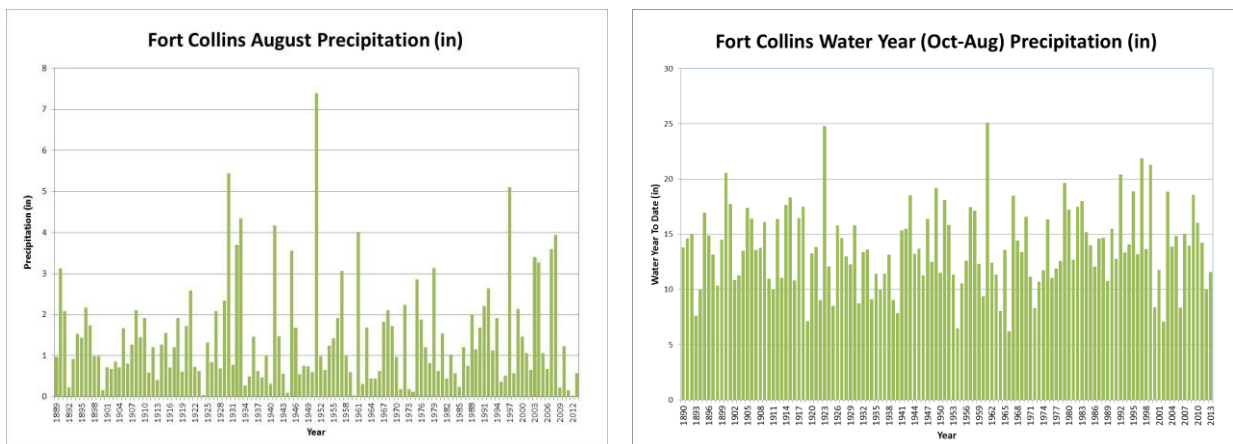


Figure 2: August (left) and water year (right) precipitation time series.

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

Wind:

In August 2013 there were 6 days with maximum wind gusts ≥ 20 mph and 1 day ≥ 30 mph.

The maximum daily wind gust for the month was 36 mph and occurred on 3 August 2013 at 14:50 MST from 080°.

Evaporation:

August 2013 pan evaporation was 6.39" which was 0.09" below the normal (99% of normal).