

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

Month: July
Year: 2014



Temperature:

Mean T_{\max} was 85.4 which is 1.2 degrees below the normal for the month. This ranks as the 61st warmest in the 126 year record (1889-2014) tied with 1903 and 1982. The last July this cool was 2009 with 83.6F.

Mean T_{\min} was 58.7 degrees which is 0.2 degrees above the normal for the month. This ranks as the 15th warmest in the 126 year record (1889-2014) tied with 1969, 1980, and 2008. The last July this warm or warmer was 2013 with 59.4 degrees.

Mean T_{mean} was 72.1 degrees which is 0.5 degrees below the normal for the month. This ranks as the 34th warmest in the 126 year record (1889-2014) tied with 1931. The last July this warm or warmer was 2013 with 72.7 degrees.

The maximum daily temperature was 99 and occurred on 7 July 2014.
The minimum daily temperature was 53 and occurred on 1 and 2 July 2014.

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

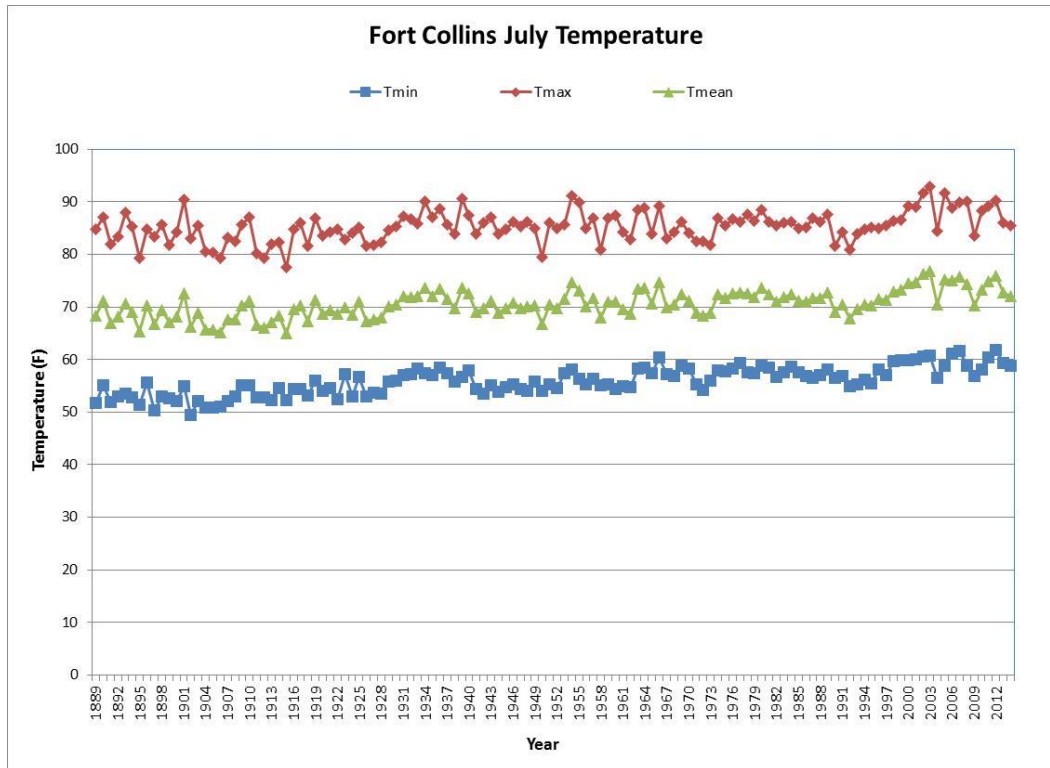


Figure 1: July temperature time series

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

Highest Maximum Temperature

7 July 2014: High temperature of 99 degrees broke the old record of 98 set in 1989.

Lowest Maximum Temperature

30 July 2014: High temperature of 63 broke the long-standing record of 66 set in 1891.

Precipitation and Snowfall:

Total monthly precipitation was 3.04” and was 1.33” above the normal for the month (178% of normal). This ranks as the 16th wettest in the 126 year record (1889-2014). The last July this wet was 2012 with 3.11”.

Water year 2014 precipitation was 14.86” and was 1.69” above the normal for the water year through July (113% of normal). This ranks as the 31st

wettest water year in the 125 year record (1890-2014). The last water year this wet was 2009 with 18.37”.

Time series of July precipitation is shown in figure 2.

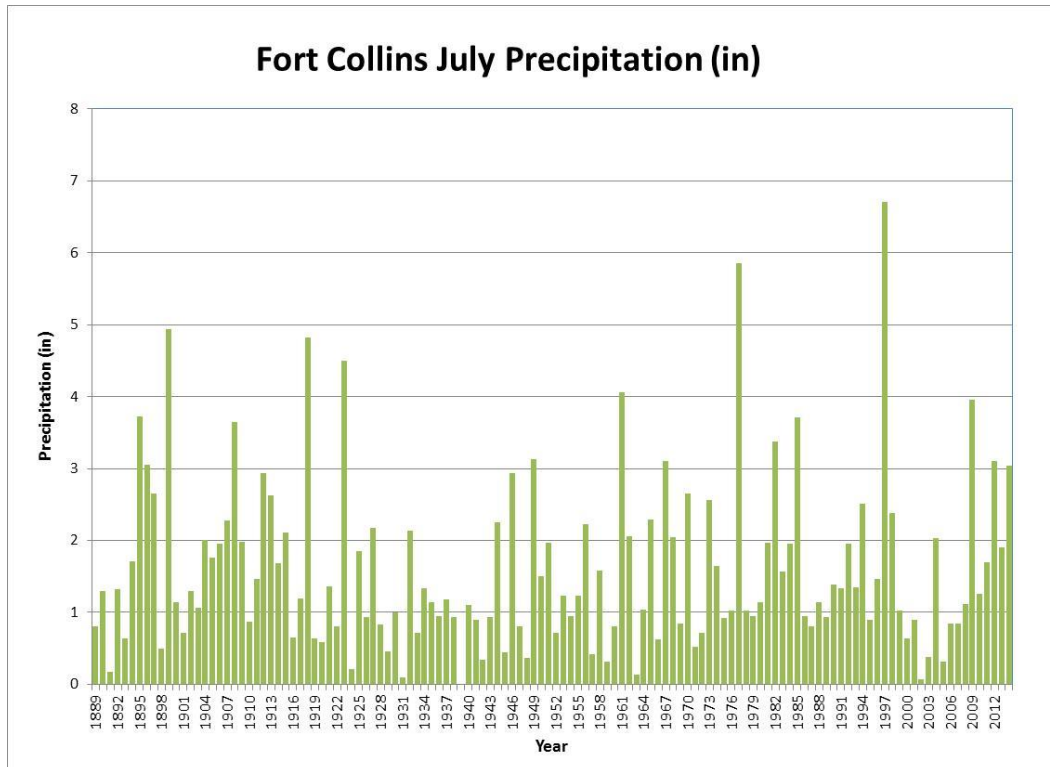


Figure 2: July precipitation (left) time series.

Misc. Precipitation (predominant type, record status, etc.):
None.

Wind:

In July 2014 there were 11 days with maximum wind gusts ≥ 20 mph and 1 days ≥ 30 mph.

The maximum daily wind gust for the month was 33 mph and occurred on 20 July 2014 at 16:50 MST from 180°.

Evaporation:

Pan evaporation for the month was 6.42” which is 1.43” below the normal (82% of normal) for July.

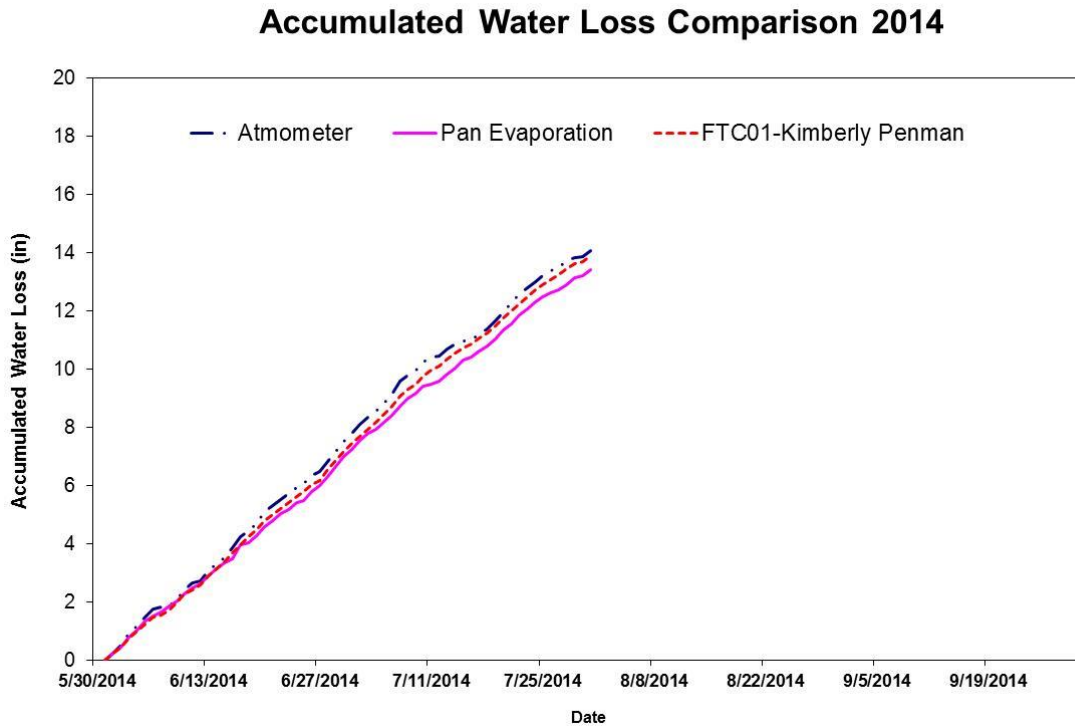


Figure 3: Accumulated water loss from the campus ETgauge (atmometer), Class A pan evaporation and our local CoAgMet ET station (FTC01).