

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

Month: July
Year: 2012



Temperature:

Mean T_{\max} was 90.3 which is 3.7 degrees above the normal for the month. This ranks as the 7th warmest in the 124 year record (1889-2012). The last July this warm or warmer was 2005 with 91.7 degrees.

Mean T_{\min} was 61.7 degrees which is 3.2 degrees above the normal for the month. This ranks as the warmest in the 124 year record (1889-2012).

Mean T_{mean} was 76.0 degrees which is 3.4 degrees above the normal for the month. This ranks as the 3rd warmest in the 124 year record (1889-2012). The last July this warm or warmer was 2003 with 76.8, which is the warmest on record.

The calendar year mean temperature (Jan-July) is 54.7 degrees which is 4.4 degrees above the normal for the period. This ranks as the warmest calendar year through July in the 124 year record (1889-2012).

The maximum daily temperature was 98 and occurred on 1 and 20 July 2012. The minimum daily temperature was 57 and occurred on 11 July 2012.

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

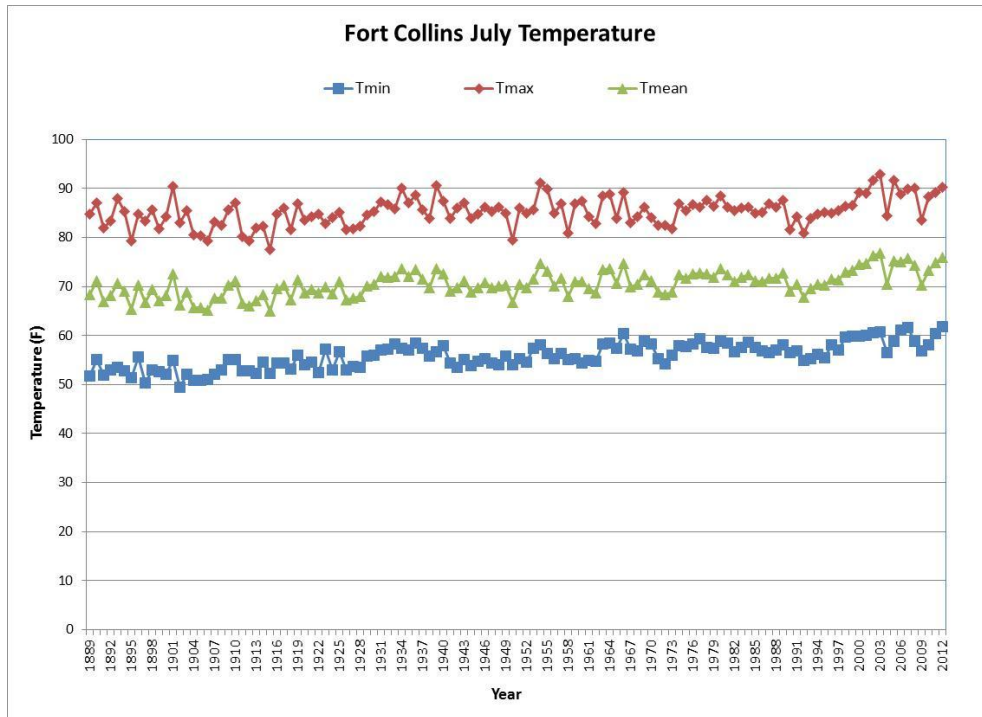


Figure 1: July temperature time series

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

Highest Minimum Temperature

5 July 2012: Minimum temperature of 69 breaks the old record of 65 set in 1966 and 1996.

22 July 2012: Minimum temperature of 67 ties the old record set in 2005.

Precipitation and Snowfall:

Total monthly precipitation was 3.11” and was 1.40” above the normal for the month (182% of normal). This ranks as the 13th wettest July in the 124 year record (1889-2012). The last July this wet was 2009 with 3.95”.

Calendar year precipitation was 6.60” which is 4.16” below the normal (61% or normal). This ranks as the 14th driest calendar year through July in the

124 year record (1889 – 2012). The last calendar year this dry or drier was 2007 with 5.71”.

Water year 2012 precipitation through July was 10.03” and was 3.14” below the normal (76% of normal). This ranks as the 31st driest water year in the 123 year data record (1890-2012). The last water year this dry by July was 2008 with 10.02”.

Time series of June and water year precipitation are shown in Figure 2.

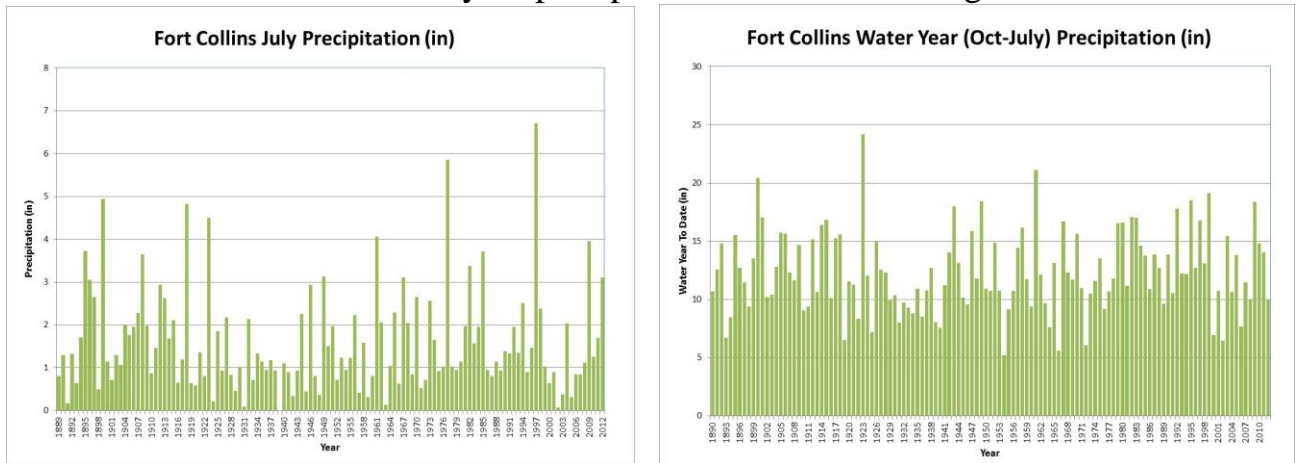


Figure 2: July (left) and water year (right) precipitation time series.

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

Maximum Daily Precipitation

6 July 2012: Daily precipitation of 0.76” breaks the old record of 0.39” set in 1904.

Wind:

In July 2012 there were 12 days with maximum wind gusts ≥ 20 mph and none ≥ 30 mph.

The maximum daily wind gust for the month was 28 mph and occurred on 3 July 2012 at 14:50 MST from 190°.

Evaporation:

July 2012 pan evaporation was 8.11” and is 0.26” above the normal for the month (103%).

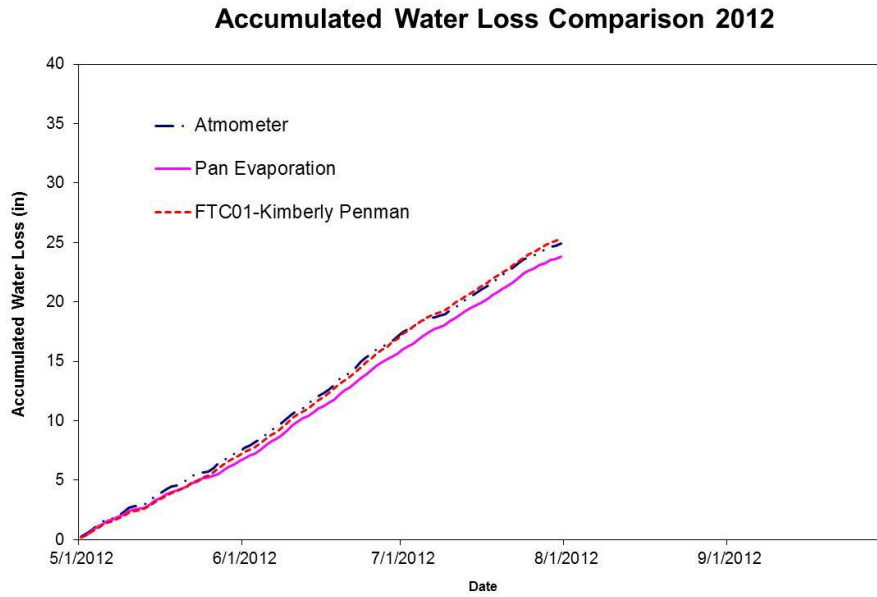


Figure 3: Water loss comparison of Fort Collins Weather Station instruments (atmometer and class A pan) and nearby FTC01 CoAgMet (ccc.atmos.colostate.edu/~coagmet) station.