

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



Month: August

Year: 2010

Report created by:

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Temperature:

Mean T_{\max} was 87.0 which is 3.6 degrees above normal for the month. This ranks as the 7th warmest in the 122 year record (1889-2010) tied with 1958 and 2003. The most recent year it was this warm or greater was in 2007 with 87.1 degrees.

Mean T_{\min} was 58.0 which is 2.8 degrees above the normal for the month. This ranks as the 7th warmest in the 122 year record (1889-2010) tied with 1969 and 1970. The most recent year it was this warm or greater was in 2007 with 59.0 degrees.

Mean T_{mean} was 72.5 which is 3.2 degrees above the normal for the month. This ranks as the 5th warmest in the 122 year record (1889-2010) tied with 2000. The most recent year it was this warm or greater was in 2007 with 73.0 degrees.

Summer 2010 (June, July and August) mean temperature was 71.3 degrees which is 2.4 degrees above the normal. This ranks as the 5th hottest summer in the 122 year record (1889 – 2010). The last summer that was this warm was in 2007 with 72.4 degrees.

The maximum daily temperature was 97 and occurred on 18 August 2010. The minimum daily temperature was 50 and occurred on 25 August 2010.

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

Highest Maximum Temperature:

27 August 2010: Daily maximum of 95 breaks the old record of 93 set in 1898 and 1962.

Highest Minimum Temperature:

19 August 2010: Daily minimum of 65 ties the record set in 1959.

23 August 2010: Daily minimum of 67 breaks the old record 65 set in 1959.

28 August 2010: Daily minimum of 61 ties the record set in 1929 and 2002.

Precipitation and Snowfall*:

The total monthly precipitation was 1.23” and was 0.17” below normal (88% of normal). This ranks as the 55th wettest August in the 122 year record (1889-2010).

Water year 2010 precipitation is 16.05” and is 1.59” above normal (111% of normal). This ranks as the 33rd wettest water year (Oct-Aug) in the 122 year record.

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

None.

Wind:

In August 2010 there were 9 days with maximum wind gusts \geq 20 mph and 1 day \geq 30 mph.

The maximum daily wind gust for the month was 30 miles per hour and occurred on 16 August at 16:10 MST from 290°.

Evaporation

Total class A pan evaporation for August 2010 was 7.02” compared to August normal** evaporation of 6.48” which is 0.54” above the normal (108% of normal).

** Normal evaporation is average monthly evaporation calculated for Class A pan only (1974-2008). Prior to 1974 a sunken pan was used.

Accumulated Water Loss Comparison

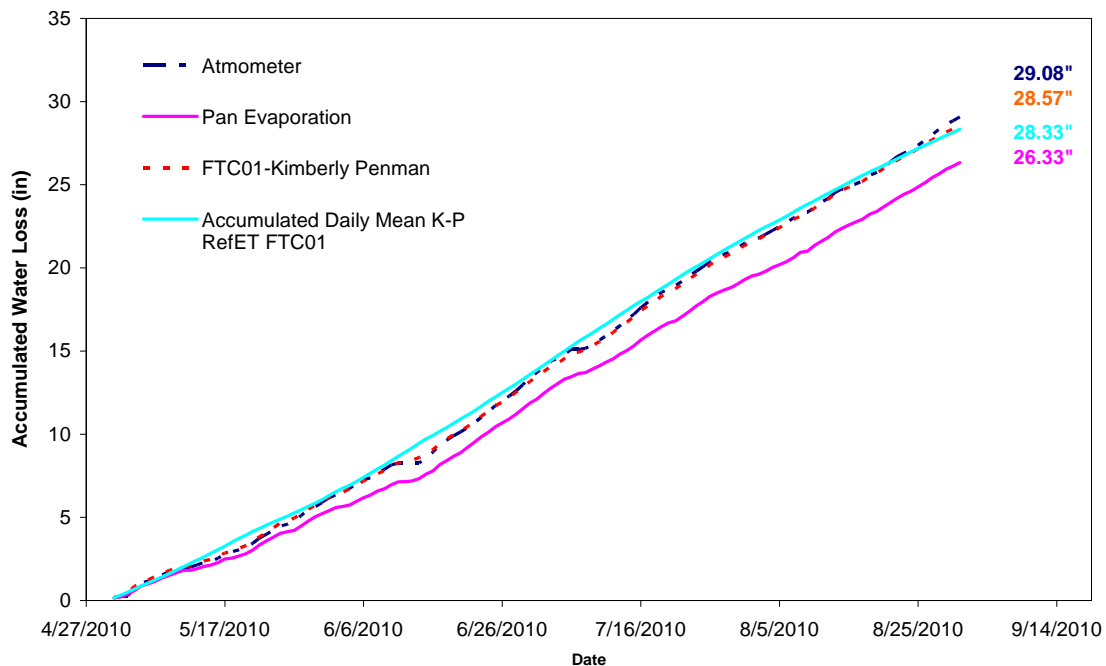


Figure: Water loss comparison of Fort Collins Weather Station instruments (atmometer and class A pan) and nearby FTC01 CoAgMet (ccc.atmos.colostate.edu/~coagmet) station. The light blue line represents the historical daily normal evaporation from the CoAgMet station.