

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



**Month: September
Year: 2010
Report created by:
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Temperature:

Mean T_{\max} was 81.9 which is 6.5 degrees above normal for the month. This ranks as the 2nd warmest in the 122 year record (1889-2010). The most recent year it was this warm or greater was in 1892 with 82.8 degrees.

Mean T_{\min} was 47.7 which is 1.5 degrees above the normal for the month. This ranks as the 19th warmest in the 122 year record (1889-2010) tied with 1931. The most recent year it was this warm or greater was last year (2009) with 48.0 degrees.

Mean T_{mean} was 64.8 which is 4.0 degrees above the normal for the month. This ranks as the 2nd warmest in the 122 year record (1889-2010). The most recent year it was this warm or greater was in 1998 with 66.5 degrees.

The maximum daily temperature was 93 and occurred on 5 September 2010. The minimum daily temperature was 38 and occurred on 7 September 2010.

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

Highest Maximum Temperature:

28 September 2010: Daily maximum of 89 breaks the old record of 87 set in 1921, 1957 and 1994.

Precipitation and Snowfall*:

The total monthly precipitation was 0.06” and was 1.32” below normal (4.3% of normal). This ranks as the 7th driest September in the 122 year record (1889-2010). The most recent year it was this dry or drier was 1992 with 0.02” of precipitation.

Water year 2010 precipitation ends with 16.11” and is 0.27” above normal (101.7% of normal). This ranks as the 42nd wettest water year (Oct-Sept) in the 122 year record.

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

None.

Wind:

In September 2010 there were 9 days with maximum wind gusts ≥ 20 mph and 0 days ≥ 30 mph.

The maximum daily wind gust for the month was 29 miles per hour and occurred on 20 September at 15:50 MST from 210°.

Evaporation

Total class A pan evaporation for September 2010 was 5.79” compared to the normal** evaporation of 4.91” which is 0.88” above the normal (118% of normal).

Growing season (May - Sept) evaporation was 32.12” which is 0.15” below normal (99.5% 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

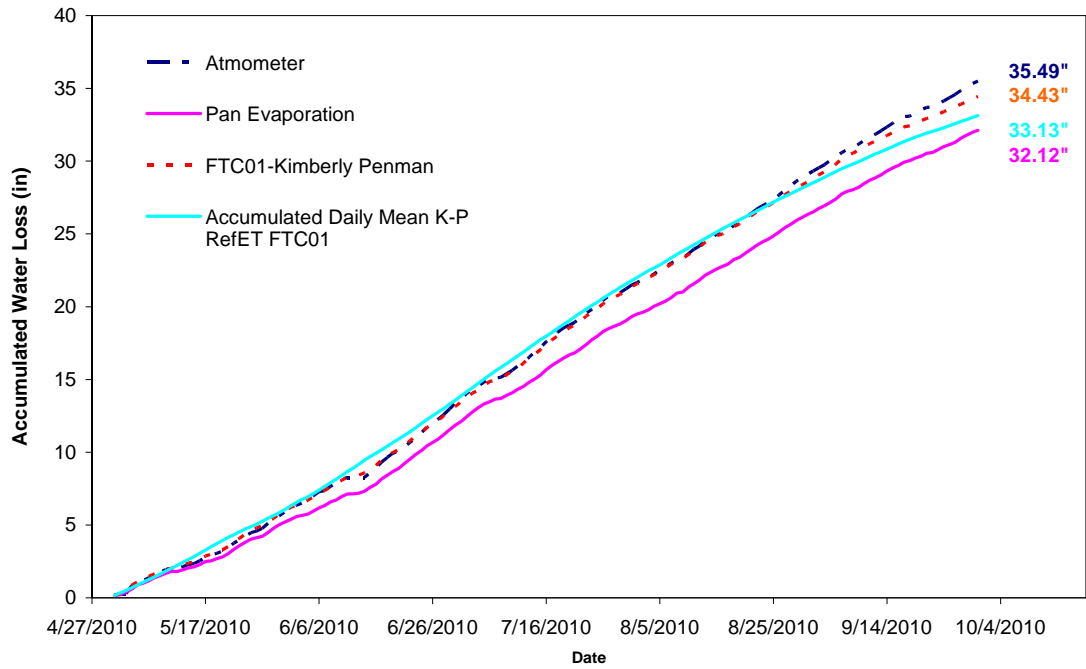


Figure: Water loss comparison of Fort Collins Weather Station instruments (atmometer and class A pan) and nearby FTC01 CoAgMet (ccc.atmos.colostate.edu/~coagmet) station. The light blue line represents the historical daily normal evaporation from the CoAgMet station.