

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

Month: September
Year: 2009
Report created by:
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Temperature:

Mean T_{\max} was 77.0 which is 1.6 degrees above normal for the month. This ranks as the 44th warmest in the 121 year record (1889-2009) tied with 1890.

Mean T_{\min} was 48.0 which is 1.8 degrees above the normal for the month. This ranks as the 17th warmest in the 121 year record (1889-2009).

Mean T_{mean} was 62.5 which is 1.7 degrees above normal for the month. This ranks as the 27th warmest in the 121 year record (1889-2009) tied with 1892, 1940 and 1960.

The maximum daily temperature was 89 and occurred on 1 September 2009. The minimum daily temperature was 35 and occurred on 28 September 2009.

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

27 September 2009: New highest minimum temperature of 57 broke the old record of 54 set in 1954.

Precipitation:

The total monthly precipitation was 0.67" and was 0.71" below normal (49% of normal). This ranks as the 45th driest September in the 121 year record (1889-2009).

Water year 2008-2009 precipitation is 19.26” compared to water year normal of 15.84” by the end of the water year which is 122% of normal. This ranks as the 17th wettest water year (Oct-Sept) in the 121 year record.

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

None

Wind:

In September 2009 there were 8 days with maximum wind gusts \geq 20 mph with 1 day \geq 30 mph.

The maximum daily wind gust for the month was 35 miles per hour and occurred on 30 September 2009 at 17:00 MST from 280°.

Evaporation:

The total monthly Class A pan evaporation for September 2009 was 4.67” compared to September normal evaporation^{**} of 4.91” which is 0.24” below normal (95% of normal).

Total growing season evaporation (May – September) was 28.19” compared to growing season normal pan evaporation of 32.27” which is 4.08” below normal (87% 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

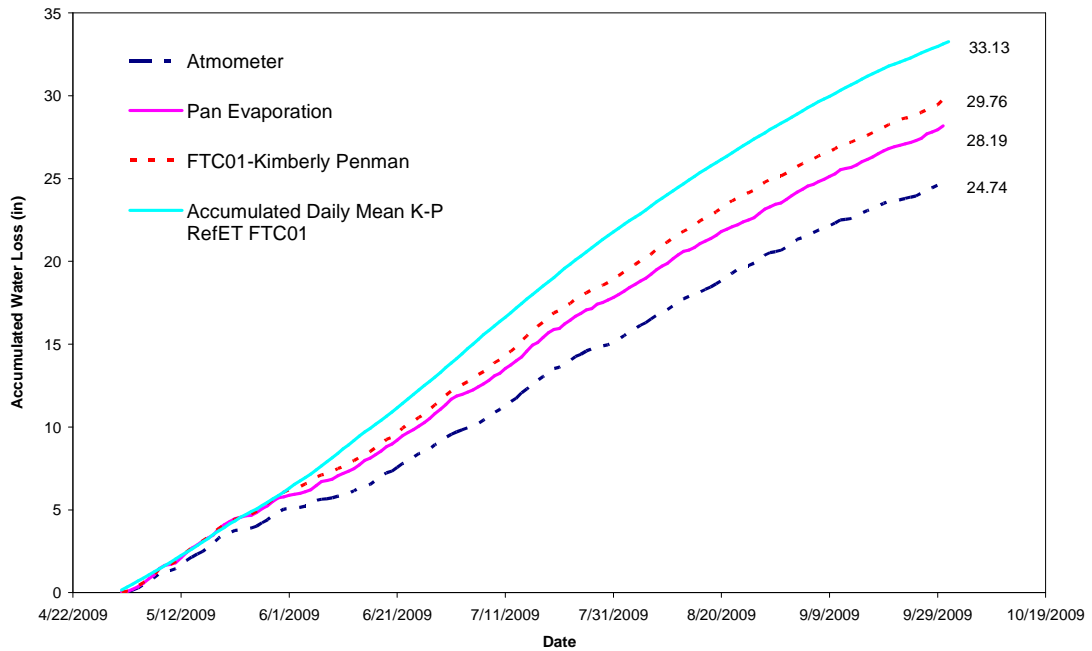


Figure: Water loss comparison of Fort Collins Weather Station instruments (atmometer and class A pan) and nearby FTC01 CoAgMet (ccc.atmos.colostate.edu/~coagmet) station. The light blue line represents the historical daily normal evaporation from the CoAgMet station.