

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



Month: May

Year: 2010

Report created by:

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Temperature:

Mean T_{\max} was 67.7 which is 2.5 degrees below normal for the month. This ranks as the 41st coolest in the 122 year record (1889-2010) tied with 1947.

Mean T_{\min} was 42.2 which is 1.1 degrees below the normal for the month. This ranks as the 64th coolest in the 122 year record (1889-2010) tied with 1972.

Mean T_{mean} was 55.0 which is 1.8 degrees below the normal for the month. This ranks as the 48th coolest in the 122 year record (1889-2010) tied with 1906, 1919, 1945 and 1990.

The maximum daily temperature was 91 and occurred on 28 May 2010.
The minimum daily temperature was 30 and occurred on 8 May 2010.

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

Highest Maximum Temperature:

28 May 2010: 91 degrees beats the old daily maximum temperature record of 90 degrees set in 2000.

Precipitation and Snowfall*:

The total monthly precipitation was 2.13” and was 0.47” below normal (82% of normal). This ranks as the 55th driest May in the 122 year record (1889-2010).

Water year 2010 precipitation is 11.60” and is 2.40” above normal (126% of normal). This ranks as the 23rd wettest water year (Oct-May) in the 122 year record.

The total monthly snowfall was 4.1” which is 2.6” above normal (273% of normal). This ranks as the 12th snowiest May in the 122 year record. The last time there was this much snow in May was in 2001 with 6.5” of snowfall.

2010 seasonal snowfall is 88.7” which is 30.0” above normal (151% of normal). This ranks as the 3rd snowiest season (Sept-May) in the 122 year record. The top 5 snow seasons are listed below:

Year	Seasonal Snowfall (in)
1980	114
1988	89.4
2010	88.7
1984	83.5
1917	82.2

** Note: Starting with December 2009 these reports will use the 1971-2000 average snowfall, previous months have used period of record snowfall normals*

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

Daily Snowfall

12 May 2010: 4.1” of snowfall breaks the old record of 1.5” set in 1912.

Wind:

In May 2010 there were 19 days with maximum wind gusts ≥ 20 mph with 3 days ≥ 30 mph.

The maximum daily wind gust for the month was 45 miles per hour and occurred on 4 May 2010 at 07:00 MST from 300°.

Evaporation

Total class A pan evaporation for May 2010 was 5.21" compared to May normal** evaporation of 5.92" which is 0.71" below the normal (88% 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

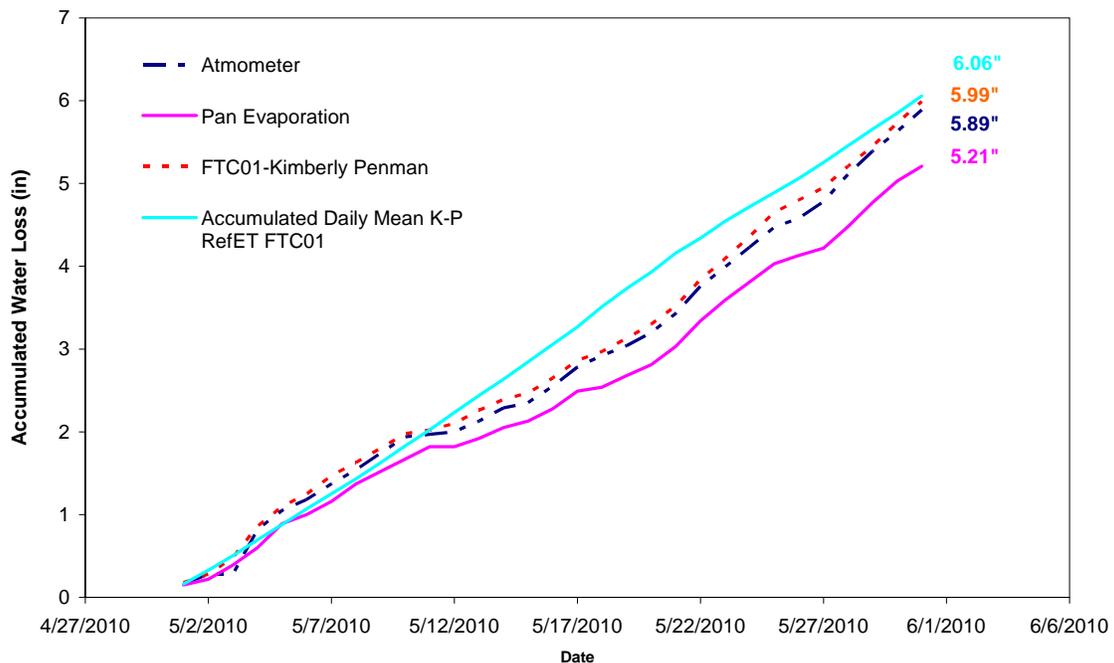


Figure: Water loss comparison of Fort Collins Weather Station instruments (atmometer and class A pan) and nearby FTC01 CoAgMet (ccc.atmos.colostate.edu/~coagmet) station. The light blue line represents the historical daily normal evaporation from the CoAgMet station.