

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



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

Mean  $T_{\max}$  was 67.8 which is 3.6 degrees above normal for the month. This ranks as the 22nd warmest in the 122 year record (1889-2010) tied with 1907 and 1952. The most recent year it was this warm or greater was in 2003 with 72.7 degrees.

Mean  $T_{\min}$  was 40.2 which is 4.9 degrees above the normal for the month. This ranks as the warmest in the 122 year record (1889-2010).

Mean  $T_{\text{mean}}$  was 54.0 which is 4.2 degrees above the normal for the month. This ranks as the 3<sup>rd</sup> warmest in the 122 year record (1889-2010). The most recent year it was this warm or greater was in 2003 with 55.2 degrees.

The maximum daily temperature was 82 and occurred on 5 October 2010. The minimum daily temperature was 21 and occurred on 28 October 2010.

The first fall freeze (32 degree low) occurred on 19 October 2010. This is the 5<sup>th</sup> latest fall freeze in the 122 year record (1889 – 2010). The latest fall freeze on record is 23 October and occurred in 1972, 1988 and 2004.

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

*Highest Minimum Temperature:*

**6 October 2010:** Daily minimum of 57 breaks the old record of 51 set in 1958.

**10 October 2010:** Daily minimum of 47 ties the old record set in 1954.

**23 October 2010:** Daily minimum of 47 breaks the old record of 46 set in 1893.

*Accumulated Monthly Temperature Ranking Table:*

Period	Average Temperature	Rank (Descending)
2-month (Sept - Oct)	59.4	1
3-month (Aug - Oct)	63.8	1
4-month (Jul - Oct)	66.1	2

Note: The 4-month average temperature is second to 2003 which had a 4-month average temperature of 66.2 degrees.

**Precipitation and Snowfall\*:**

Total monthly precipitation was 0.87” and was 0.11” below normal (88.8% of normal). This ranks as the 55<sup>th</sup> wettest October in the 122 year record (1889-2010).

Total monthly snowfall was a Trace. This ranks as the 48<sup>th</sup> least snowy October tied with 2000, 2001, 2004, 2007, and 2008.

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

None.

**Wind:**

In September 2010 there were 8 days with maximum wind gusts  $\geq$  20 mph and 3 days  $\geq$  30 mph.

The maximum daily wind gust for the month was 39 miles per hour and occurred on 26 October at 7:10 MST from 290°.

## **Evaporation**

Total class A pan evaporation for October 2010 was 3.44” compared to the normal\*\* evaporation of 3.21” which is 0.23” above the normal (107% 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.