

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

Month: October
Year: 2012



Temperature:

Mean T_{\max} was 62.5 which is 1.4 degrees below the normal for the month. This ranks as the 37th coolest in the 124 year record (1889-2012) tied with 2000.

Mean T_{\min} was 35.3 degrees which is 1.1 degrees below the normal for the month. This ranks as the 43rd warmest in the 124 year record (1889-2012) tied with 1978.

Mean T_{mean} was 48.9 degrees which is 1.3 degrees below the normal for the month. This ranks as the 49th coolest in the 124 year record (1889-2012) tied with 1902 and 1966.

The calendar year mean temperature (Jan-Oct) is 56.9 degrees which is 3.5 degrees above the normal for the period. This ranks as the warmest calendar year through October in the 124 year record (1889-2012). A table of the 5 warmest calendar years on record is shown below.

Table 1: Five warmest calendar years on record.

Year	CY through October
2012	56.9
2000	55.5
2006	54.9
2003	54.7
2005	54.5

The maximum daily temperature was 83 and occurred on 3 October 2012. The minimum daily temperature was 22 and occurred on 26 October 2012.

A time series of temperatures for Fort Collins, CO is shown in Figure 1 below.

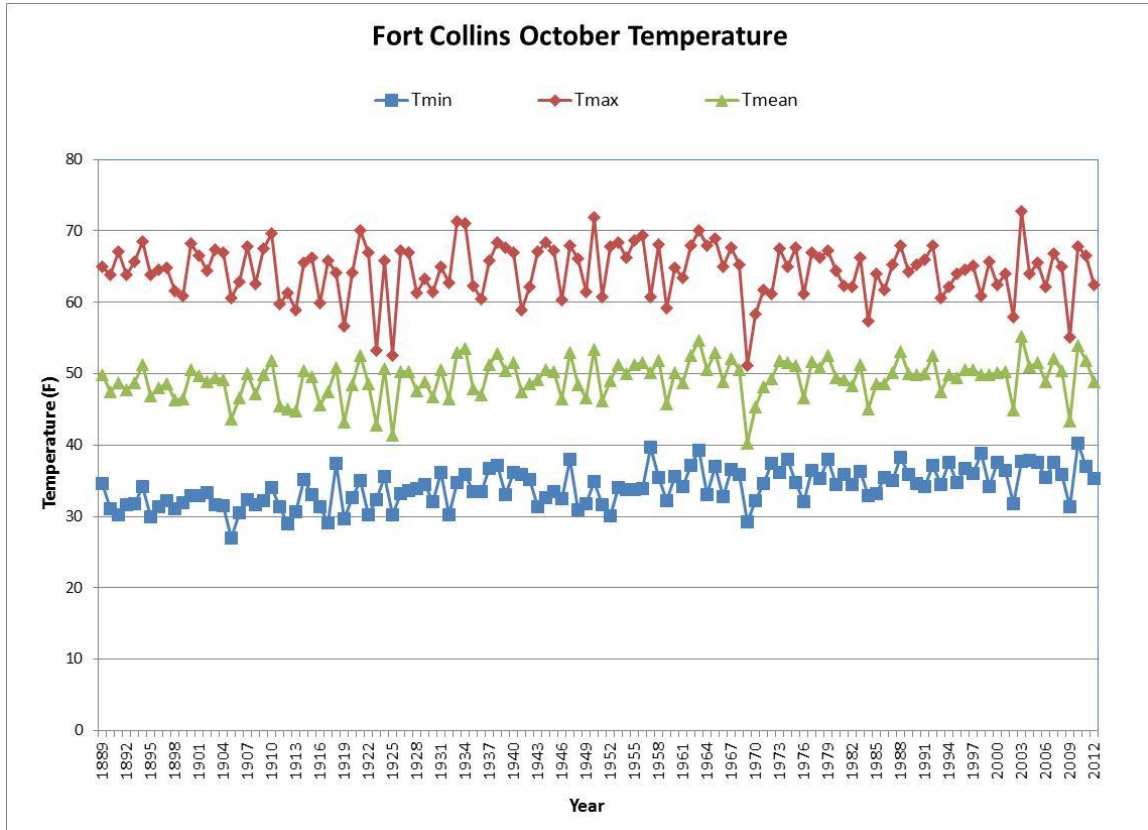


Figure 1: October temperature time series

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

Lowest Maximum Temperature

5 October 2012: The daily maximum of 40 degrees broke the old record of 47 set in 1913.

Precipitation and Snowfall:

Total monthly precipitation was 0.66” and was 0.49” below the normal for the month (57% of normal). This ranks as the 48th driest October in the 124 year record (1889-2012).

Calendar year precipitation*** was 10.22” which is 4.62” below the normal (69% of normal). This ranks as the 17th driest calendar year through October in the 124 year record (1889 – 2012). The last calendar year this dry or drier was 2006 with 7.82”.

Total monthly snowfall was 3.6”, which is the normal for October. This ranks as the 40th snowiest in the 124 year record (1889-2012).

Seasonal snowfall is also 3.6”, which is 0.9” below the normal for the month (80% of normal). This ranks as the 45th snowiest season in the 124 year snow season record (1890-2013).

Time series of October and calendar year precipitation are shown in Figure 2.

***** Last month, an erroneous precipitation value was noticed after this report was generated. For accuracy, that was removed from the record as it was not verified by other gages at the weather station and surrounding area.**

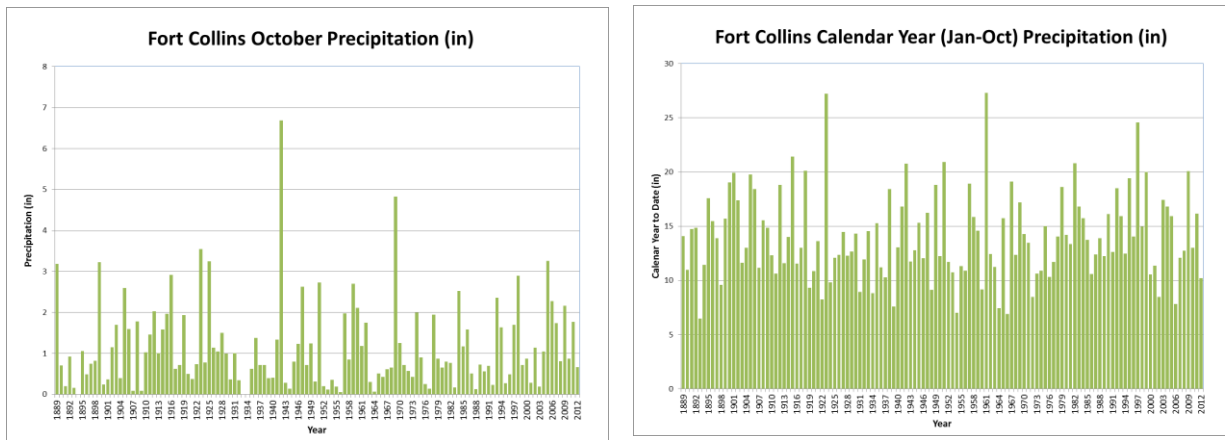


Figure 2: October (left) and calendar year (right) precipitation time series.

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

Wind:

In October 2012 there were 7 days with maximum wind gusts ≥ 20 mph and 3 days ≥ 30 mph.

The maximum daily wind gust for the month was 43 mph and occurred on 16 October 2012 at 20:30 MST from 270°.