

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

Month: December
Year: 2014



Temperature:

Mean T_{\max} was 44.8°F which is 2.0 degrees above the normal for the month. This ranks as the 43rd warmest in the 126 year record (1889-2014). The last December this warm or warmer was 2010 with 46.8°F .

Mean T_{\min} was 18.6°F which is 0.9 degrees above the normal for the month. This ranks as the 30th warmest in the 126 year record (1889-2014). The last December this warm or warmer was 2010 with 22.0°F .

Mean T_{mean} was 31.7°F which is 1.5 degrees above the normal for the month. This ranks as the 39th warmest in the 126 year record (1889-2014) tied with 1965. The last December this warm or warmer was 2010 with 34.4°F .

Calendar year 2014 mean temperature was 50.5°F which is 0.2 degrees above the normal for the year. This ranks as the 17th warmest in the 126 year record (1889-2014) tied with 1986, 2002 and 2011. The last calendar year this warm or warmer was 2012 with 53.5°F .

The maximum daily temperature was 63°F and occurred on 2 December 2014.

The minimum daily temperature was -16°F and occurred on 31 December 2014.

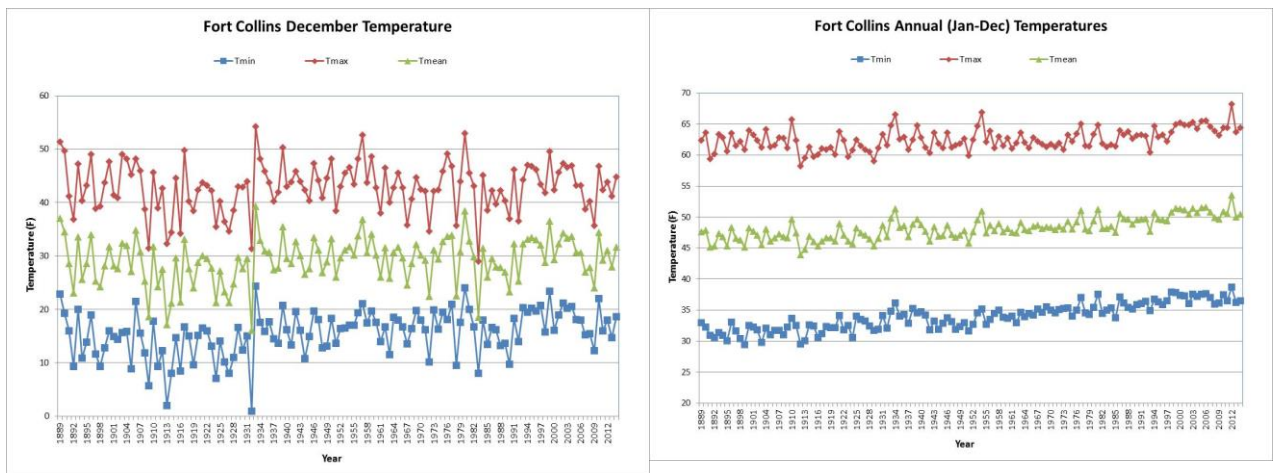


Figure 1: December (left) and Annual (right) temperature time series.

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

Lowest Maximum Temperature:

The high temperature of 10 on 30 December 2014 tied the record of 10 set in 1978.

Precipitation and Snowfall:

Total monthly precipitation was 0.64” and was 0.14” above the normal for the month (128% of normal). This ranks as the 32nd wettest in the 126 year record (1889-2014). The last December this wet or wetter was 2011 with 0.79”.

Calendar year precipitation totaled 16.69” and was 0.59” above the normal for the year (104% of normal). This ranks as the 38th wettest year in the 126 year record (1889-2014). The last calendar year this wet or wetter was 2013 with 18.81”.

Total monthly snowfall was 10.2” and was 1.8” above the normal for the month (121% of normal). This ranks as the 29th snowiest December in the

126 year record (1889-2014). The last December with this much or higher snowfall was 2011 with 13.9”

Seasonal snowfall is 15.4” which is 6.1” below the normal for the season through December (72% of normal). Even though this is below normal, it ranks as the 54th snowiest season in the 126 year record (1890-2015) tied with 1937. The last snow season with this much or higher snowfall by the end of December was 2012 with 34.2”.

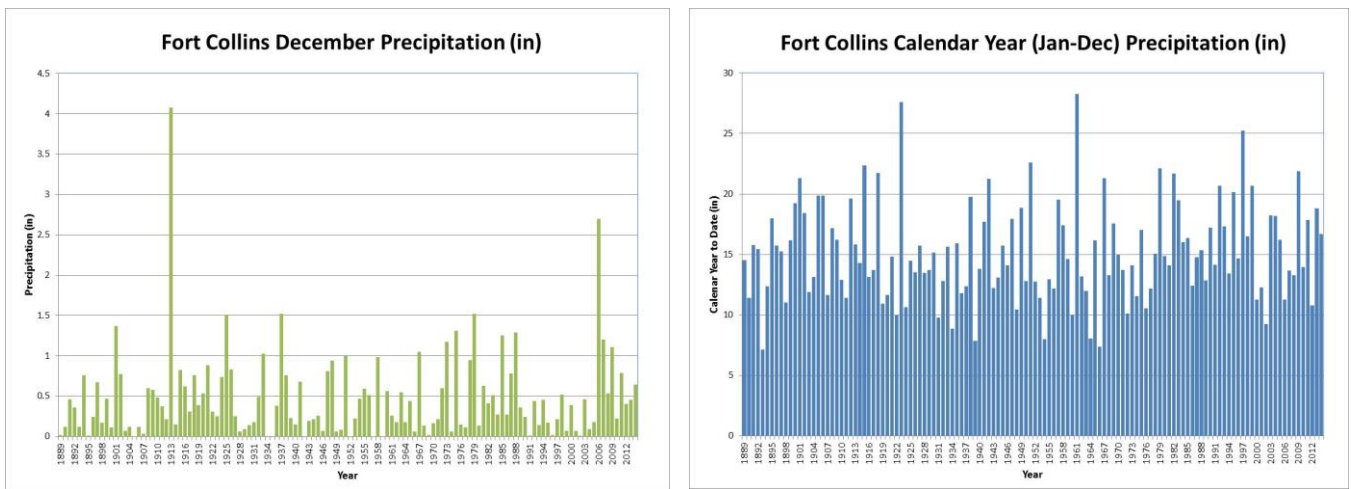


Figure 2: December (left) and calendar year (right) precipitation time series.

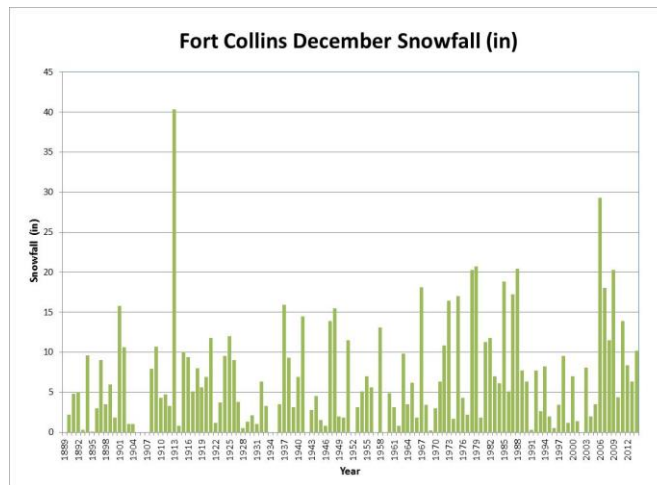


Figure 3: December (left) snowfall time series.

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

Daily Precipitation:

The daily precipitation total of 0.33" on 25 December 2014 broke the old record of 0.23" set in 1894.

Daily Snowfall:

The daily snowfall total of 5.0" on 25 December 2014 broke the old record of 3.8" set in 1894.

The daily snowfall total of 3.0" on 26 December 2014 broke the old record of 2.8" set in 1954.

Days with Snow Depth ≥ 1 inch

By the end of December, there were 21 days this snow season with 1" of snow or greater on the ground. This compares to a normal of 19 days by the end of December.

Wind:

In December 2014 there were 7 days with maximum wind gusts ≥ 20 mph and 2 days ≥ 30 mph.

The maximum daily wind gust for the month was 30.6 mph and occurred on 21 December 2014 at 20:50 MST from 300°.