

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

Month: November
Year: 2017



Photo credit: Noah Newman

Temperature:

Mean T_{\max} was 58.7°F which is 7.3° above the 1981-2010 normal for the month. This is the 6th warmest in the 129 year record (1889-2017). The last November this warm or warmer was 2016 with 60.4°F .

Mean T_{\min} was 30.8°F which is 4.9° above the 1981-2010 normal for the month. This is the warmest in the 129 year record (1889-2017). The second warmest November on record was 1998 with 30.5°F and the third warmest on record was 2016 with 30.1°F .

Mean T_{mean} was 44.8°F which is 6.1° above the 1981-2010 normal for the month. This is the 3rd warmest in the 129 year record (1889-2017). The warmest November on record was 1949 with 45.8°F and the second warmest was 2016 with 45.3°F .

Fall (September – November) mean temperature was 52.0°F and was 1.8° above the 1981-2010 normal for the season. This is the 11th warmest fall on record. The last fall this warm or warmer was 2016 with 55.4°F , which was the warmest on record.

The maximum daily temperature for the month was 77°F and occurred on November 27, 2017.

The minimum daily temperature for the month was 21°F and occurred on November 19, 2017.

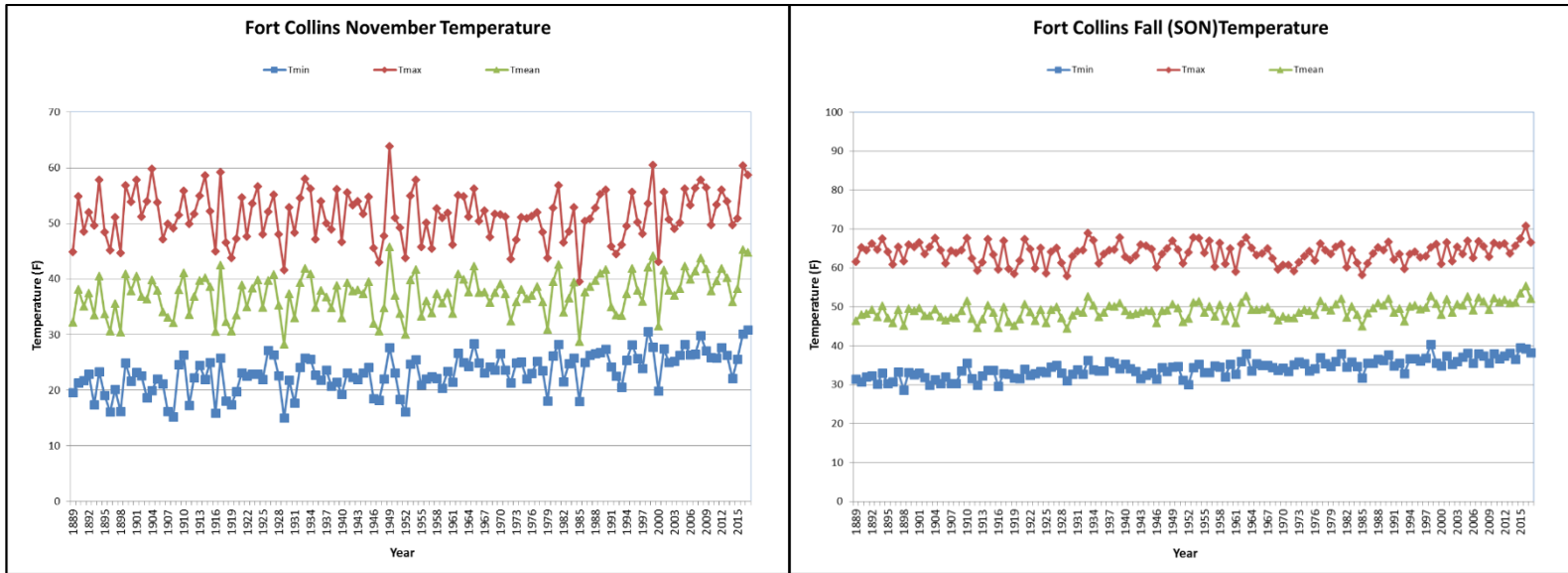


Figure 1: November (left) and fall (right) temperature time series.

Misc. Temperature (record status, thresholds, etc.):

Maximum Daily Temperature Records:

November 23, 2017: The daily maximum temperature of 69°F beat the previous record for the day of 68°F set 100 years ago in 1917.

November 27, 2017: The daily maximum temperature of 77°F smashed the previous record for the day of 71°F set over 100 years ago in 1903.

Highest Minimum Daily Temperature Records:

November 21, 2017: The daily minimum temperature of 36°F tied the previous record high minimum temperature set in 1991.

November 24, 2017: The daily minimum temperature of 43°F beat the previous record high minimum of 42°F set in 1909.

The monthly minimum temperature of 21°F is the warmest minimum temperature of any November on record. The previous warmest monthly minimum was 18°F in 1917. This is also the first November the minimum temperature stayed at or above 20°F

Precipitation and Snowfall:

Total monthly precipitation was 0.59” which is 0.17” below the 1981-2010 normal for the month (78% of normal). This ranks as the 75th driest in the 129 year record (1889-2017), tied with 1912, 1940, 1974, 1996 and 1999. The last November this dry or drier was 2016 with 0.43”.

Fall (Sep - Nov) precipitation totaled 4.36” which is 1.12” above the 1981-2010 normal for the season (135% of normal). This ranks as the 24th wettest fall on record (1889-2017). The last fall this wet or wetter was 2013 with 7.99”.

November snowfall totaled 4.6” which is 4.0” below the 1981-2010 normal for the month (54% of normal). This ranks as the 60th least snowy November in the 129 year record (1889-2017), tied with 1974 and 2007. The last November with this little snow or less was 2016 with 3.0” of snowfall.

Seasonal snowfall for the 2018 snow season through November is 6.2” which is 6.9” below the 1981 – 2010 normal for the season (47% of normal). This ranks as the 51st least snowy start in the 129 year record (1890-2018). The last season to start with this little snowfall was last year, the 2017 snow season with 3.0” by the end of November 2016.

November had 4 days with measurable precipitation (≥ 0.01 ”) and 1 day with measurable snowfall (≥ 0.1 ”).

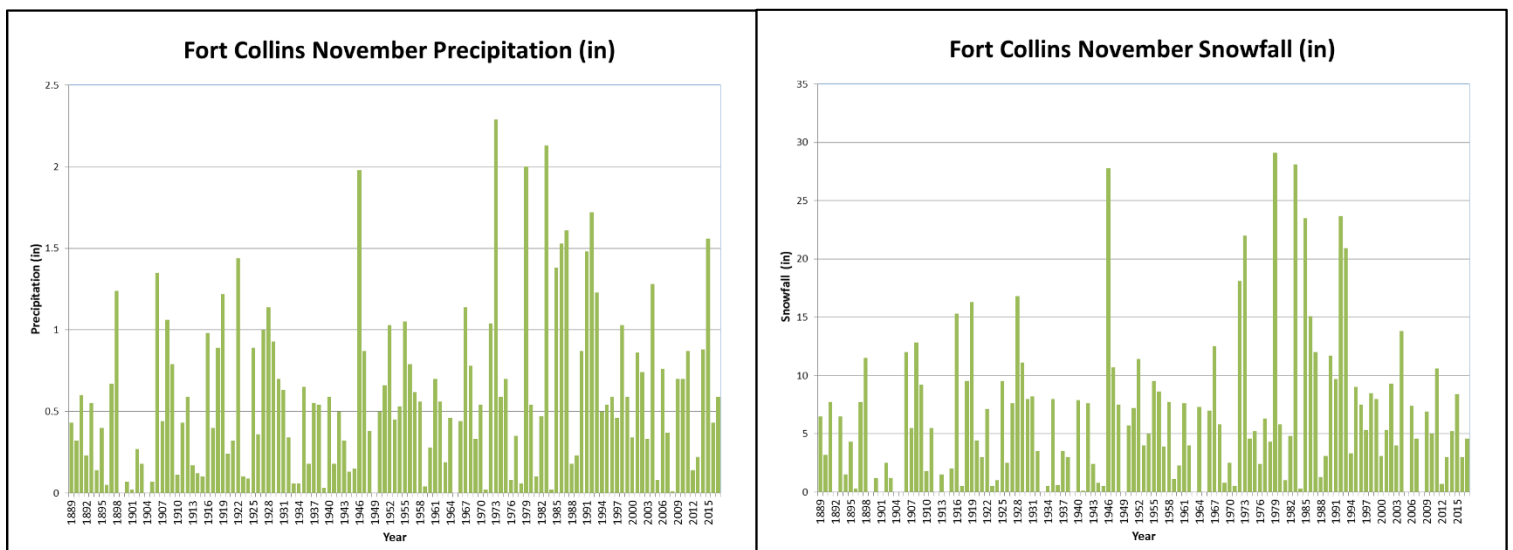


Figure 2: November precipitation (left) and snowfall (right) time series.

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

No precipitation records in November

Days with Snow Depth ≥ 1 inch

November had 1 day with 1" of snow or greater on the ground. This compares to a normal of 5 days in November.

This season has seen 1 day with 1" of snow or greater on the ground at the end of November. This compares to a normal of 6 days.

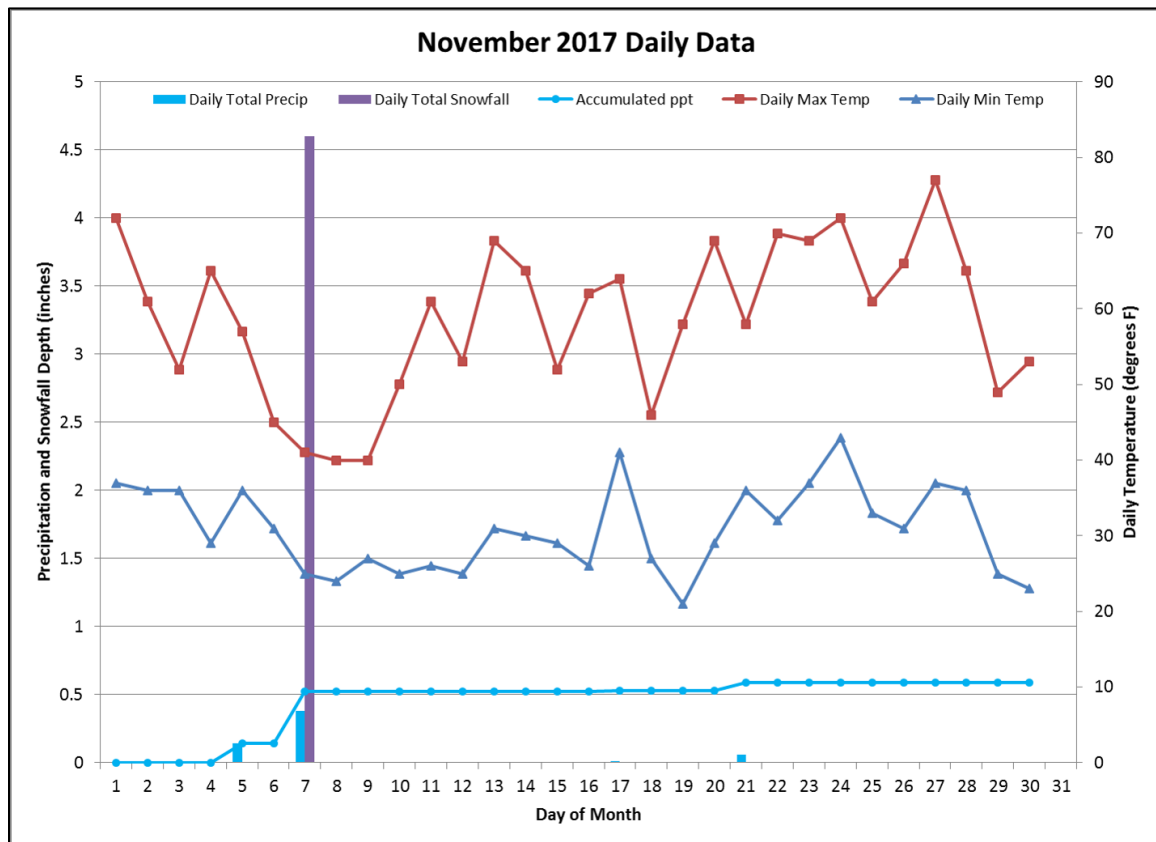


Figure 3: Daily Data for November 2017. Precipitation and temperature both show up on this graph. The y-axis on the left is for precipitation and snowfall. The y-axis on the right is for temperature.

Wind:

In November 2017 there were 13 days with maximum wind gusts ≥ 20 mph and 4 days ≥ 30 mph.

The maximum daily wind gust for the month was 38 mph and occurred on November 1st at 9:20 AM MST from 250°.

Evaporation:

Pan evaporation for November 2017 was 1.74". The majority of years the pan does not stay open through November, so there is not enough data to calculate a normal.