

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

Month: January
Year: 2019



Temperature:

Mean T_{\max} was 47.2°F which is 3.0° above the 1981-2010 normal for the month. This is the 20th warmest in the 131-year record (1889-2019), tied with 1998. The last January this warm or warmer was 2018 with 48.1°F.

Mean T_{\min} was 19.4°F which is 1.5° above the 1981-2010 normal for the month. This is the 18th warmest in the 131-year record (1889-2019), tied with 1994. The last January this warm or warmer was 2018 with 19.8°F

Mean T_{mean} was 33.3°F which 2.2° above the 1981 - 2010 the normal for the month. This is the 16th warmest in the 131-year record (1889-2019), tied with 1965. The last January this warm or warmer was 2018 with 33.9°F.

The maximum daily temperature for the month was 60°F and occurred on January 27, 2019.

The minimum daily temperature for the month was -1°F and occurred on January 2, 2019.

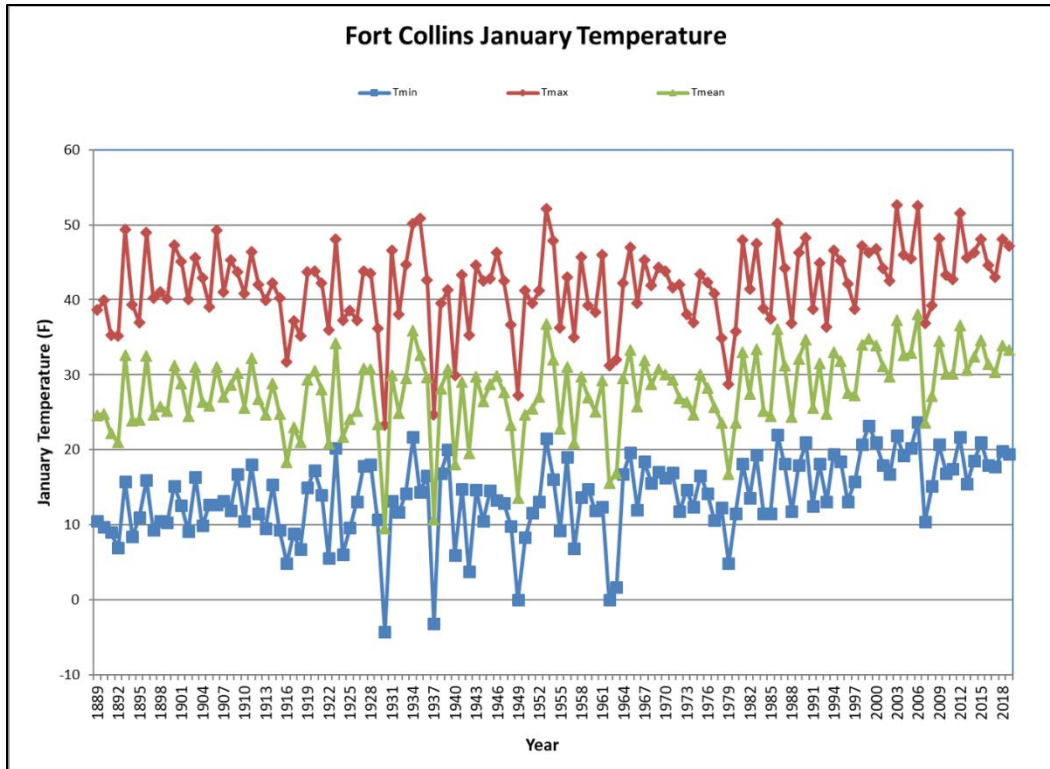


Figure 1: January temperature time series.

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

Warmest Minimum Temperature:

January 11, 2019: The minimum temperature of 35°F tied the record high minimum for the day set in 1995.

0 Degrees and Colder Days:

*January had 1 day with a minimum temperature below 0°F.
Winter 2019 has had 1 day below 0°F*

Precipitation and Snowfall:

Total monthly precipitation was 0.49” which is 0.09” above the 1981-2010 normal for the month (123% of normal). This ranks as the 40th wettest in the 131-year record (1889-2019). The last January this wet or wetter was 2017 with 0.89” of precipitation.

Water year precipitation through January totaled 2.22” which is 0.59” below the 1981-2010 normal for the water year (79% of normal). This ranks as the 60th driest start to a water year in the 130-year record (1890-2019). The last water year to start this dry or drier was 2017 with 2.15”.

January snowfall totaled 2.5” which is 5.4” below the normal for the month (32% of normal). This ranks as the 39th least snowy in the 131-year record (1889-2019). The last January with this little snow or less was 2015 with 2.0” of snowfall.

Seasonal snowfall for the 2019 season through January totaled 15.6” which is 13.8” below the 1981-2010 normal for the season (53% of normal). This ranks as the 41st least snowy start to the snow season in the 130-year record (1890-2019). The last season to start with this little snowfall was 2011 with 15.2” of snowfall.

January had 5 days with measurable precipitation (≥ 0.01 ”) and 3 days with measurable snowfall (≥ 0.1 ”).

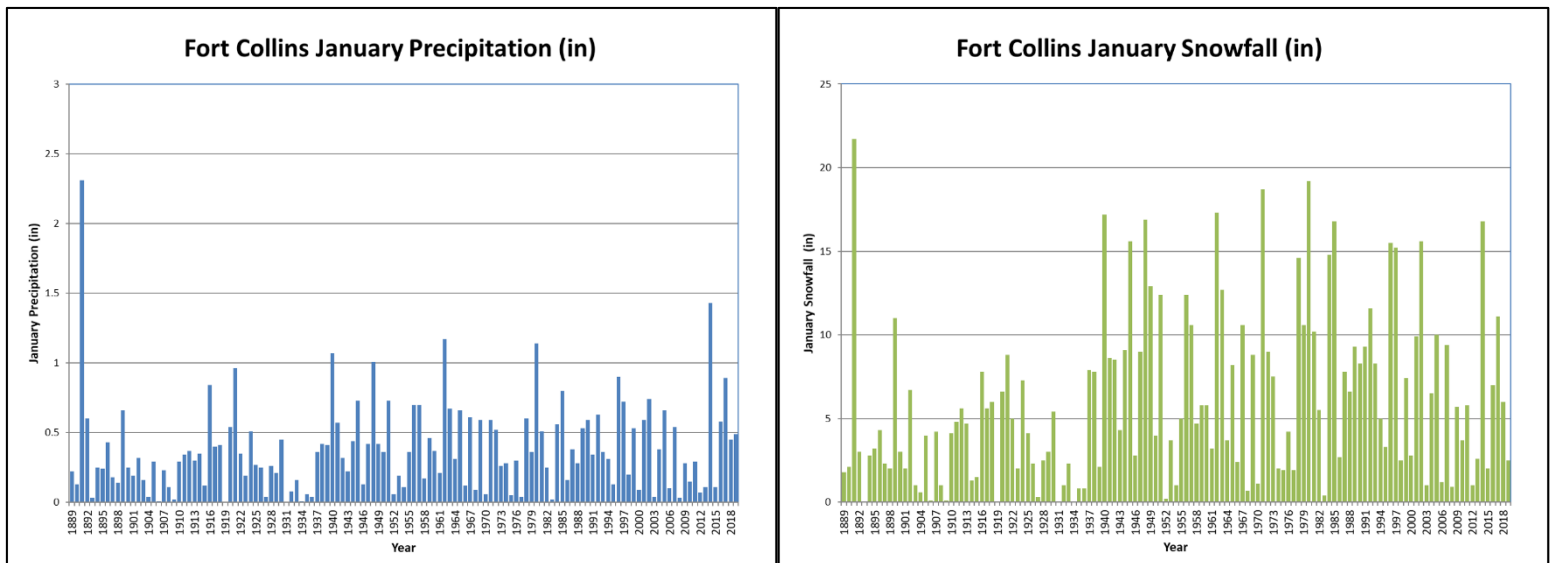


Figure 2: January precipitation (left) and snowfall (right) time series.

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

Highest Daily Precipitation:

January 11, 2019: The daily precipitation total of 0.27" beat the old record for the day of 0.20" set in 1997.

The 0.27" of precipitation that fell on this day was primarily rain. Only a trace of snow was recorded. This makes this the largest precipitation event with no measurable snow in January (largest rain event in January). The previous largest was January 26, 1914 with 0.15" and no snow reported.

Days with Snow Depth \geq 1 inch

January had 1 day with 1" of snow or greater on the ground at our 7:00 PM MST observation time. This compares to a normal of 13 days in January. This season has seen 5 days with 1" of snow or greater on the ground through January. This compares to a normal of 31 days. A bit startling.

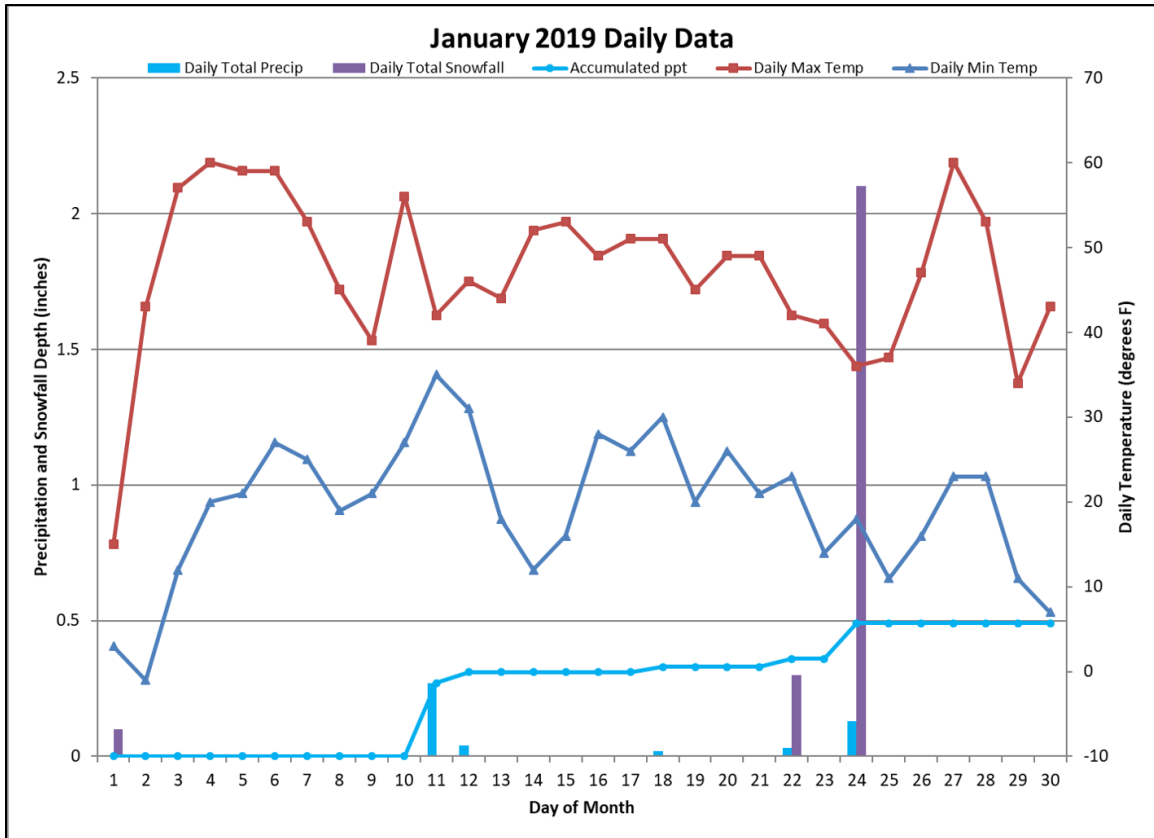


Figure 3: Daily Data for January 2018. Precipitation and temperature both show up on this graph. The y-axis on the left is for precipitation and snowfall. The y-axis on the right is for temperature.

Wind:

In January 2019 there were 9 days with maximum wind gusts ≥ 20 mph and 4 days ≥ 30 mph.

The maximum daily wind gust for the month was 33 mph and occurred on January 27, 2019 at 7:10 PM MST from 290° (the WNW).