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

Month: January
Year: 2022

Temperature:

Mean T_{max} was 43.8°F which is 1.2° below the 1991-2020 normal for the month. This is the 82nd coolest (50th warmest) in the 134-year record (1889-2022), tied with 1920, 1927, and 1970. The last January this cool or cooler was 2017 with 43.0°F.

Mean T_{min} was 15.6°F which is 2.7° below the 1991-2020 normal for the month. This is the 79th coolest (55th warmest) in the 134-year record (1889-2022), tied with 1968. The last January this cool or cooler was 2013 with 15.5°F.

Mean T_{mean} was 29.7°F which is 1.9° below the 1991-2020 the normal for the month. This is the 77th coolest (55th warmest) in the 134-year record (1889-2022), tied with 1943, 1958, and 2002. The last January this cool or cooler was 2008 with 27.2°F.

The maximum daily temperature for the month was 57°F and occurred on January 30, 2022.
The minimum daily temperature for the month was -7°F and occurred on January 2, 2022.

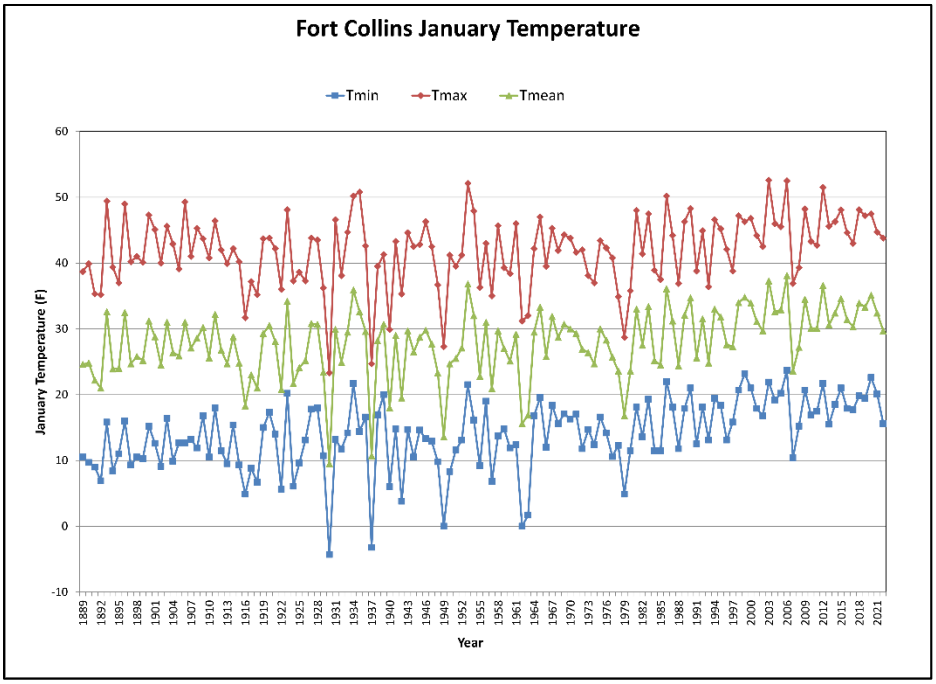

Figure 1: January temperature time series.

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

No temperature records this January

Precipitation and Snowfall:

Total monthly precipitation was 0.85” which is 0.44” above the 1991-2020 normal for the month (207% of normal). This ranks as the 10th wettest in the 134-year record (1889-2022). The last January this wet or wetter was 2017 with a 0.89” of precipitation.

Water Year 2022 precipitation through January totaled 1.86” which is 1.01” below the 1991-2020 normal (65% of normal). This ranks as the 40th driest start to a water year in the 133-year record (1890-2022), tied with 1892. The last water year to start this dry or drier was 2013 with 1.31” of precipitation through January.

Total monthly snowfall for January was 11.9” which is 5.2” above the 1991-2020 normal for the month (178% of normal). This ranks as the 19th snowiest January in the 134-year record (1889-2022). The last January with this much snow or more was 2014 with 16.8” of snowfall.

Seasonal Snowfall for the 2022 snow season totaled 19.1” through January. This is 7.5” below the 1991-2020 normal (72% of normal). This ranks as the 57th least snowy start to a snow season. The last season to start with this little snowfall was the 2019 snow season with 15.6” of snow.

January had 7 days with measurable precipitation (≥ 0.01”) and 7 days with measurable snowfall (≥ 0.1”).

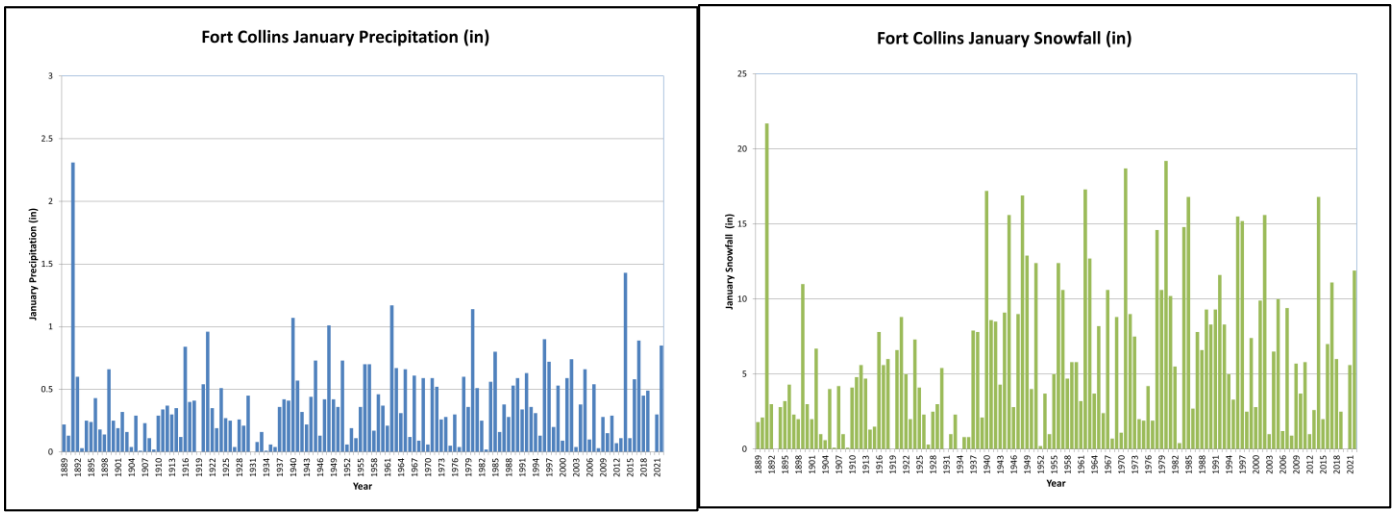

Figure 2: January precipitation (left) and snowfall (right) time series.

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

Daily Precipitation Record:
January 25, 2022: The precipitation amount of 0.26" broke the previous record for the day of 0.25" set in 1996.

Days with Snow Depth ≥ 1 inch
January had 31 days with 1" of snow or greater on the ground. This compares to a normal of 13 days in January.

This season has seen 32 days with 1" of snow or greater on the ground through the end of January. This compares to a normal of 31 days.

The highest one-day precipitation total for January 2022 was 0.26" falling on January 25th. The highest one-day snowfall total for the month was 3.7" on January 5th.

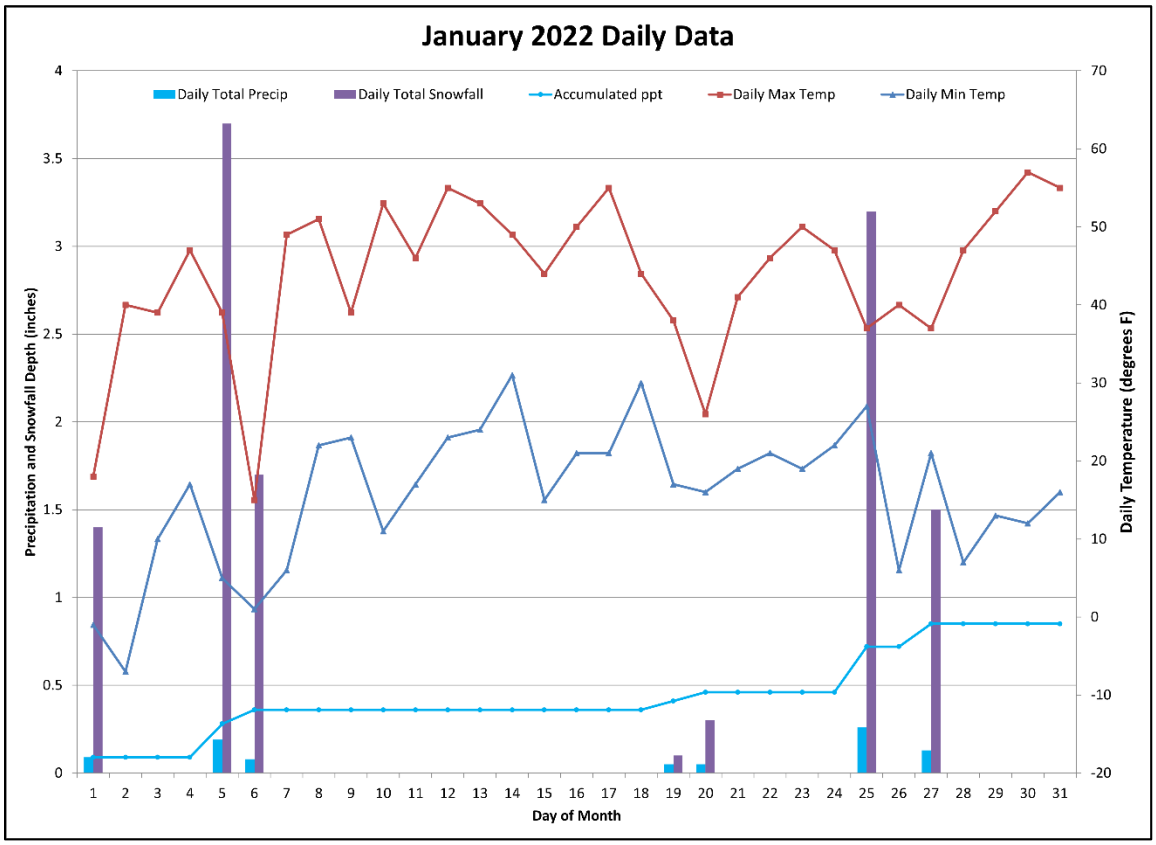

Figure 3: Daily Data for January 2022. Precipitation and temperature both show up on this graph. The y-axis on the left is for precipitation and snowfall. The y-axis on the right is for temperature.

Wind:

In January 2022 there were 5 days with maximum wind gusts ≥ 20 mph and 1 day ≥ 30 mph.

The maximum daily wind gust for the month was 32 mph and occurred on January 4, 2022, at 10:01 AM MST from 230° (SW).

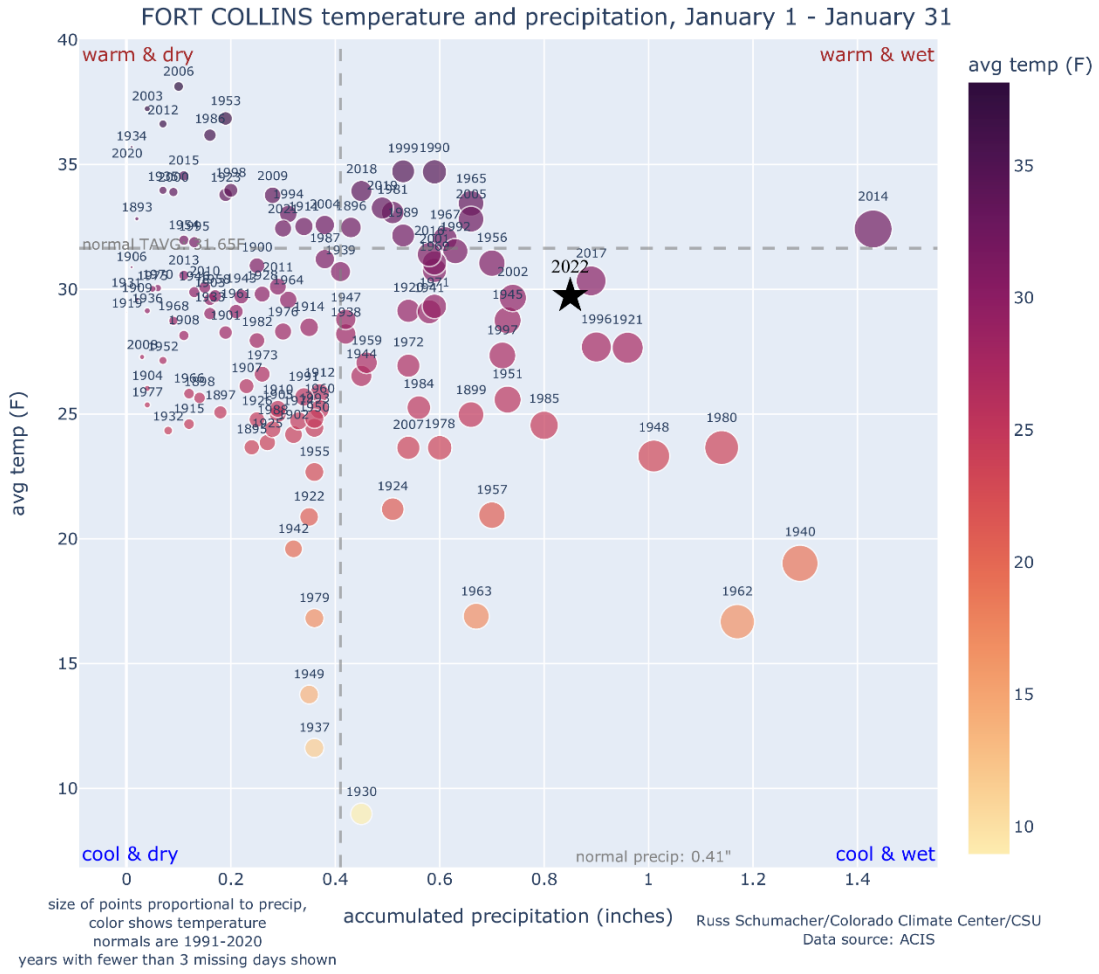

Figure 4: January precipitation and temperature data plot. Each dot plots monthly average temperature and precipitation at Fort Collins for the period of record. From left to right, monthly precipitation is shown on the x-axis, where the wettest years are plotted furthest to the right. Dot sizes are proportional to precipitation amounts. From bottom to top on the y-axis, average monthly temperature is shown, where the warmest years are plotted towards the top. The dots are also color coded with darker colors indicating higher temperatures. The horizonal and vertical dotted lines indicate the 1991-2020 normals. January 2022 shows up in the increasingly rare cool and wet quadrant.