

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

Month: July
Year: 2021



Temperature:

Mean T_{\max} was 89.0°F which is 1.6° above the 1991-2020 normal for the month. This is the 18th warmest in the 133-year record (1889-2021), tied with 2001. The last July this warm or warmer was 2020 with 89.1°F .

Mean T_{\min} was 60.1°F which is 1.4° above the 1991-2020 normal for the month. This is the 8th warmest in the 133-year record (1889-2021), tied with 2001. The last July this warm or warmer was 2012 with 61.7°F .

Mean T_{mean} was 74.5°F which is 1.4° above the 1991-2020 normal for the month. This is the 12th warmest in the 133-year record (1889-2021), tied with 2000. The last July this warm or warmer was 2017 with 74.6°F .

The maximum daily temperature for the month was 97°F and occurred on July 8 and 28, 2021.

The minimum daily temperature for the month was 54°F and occurred on July 11, 2021.

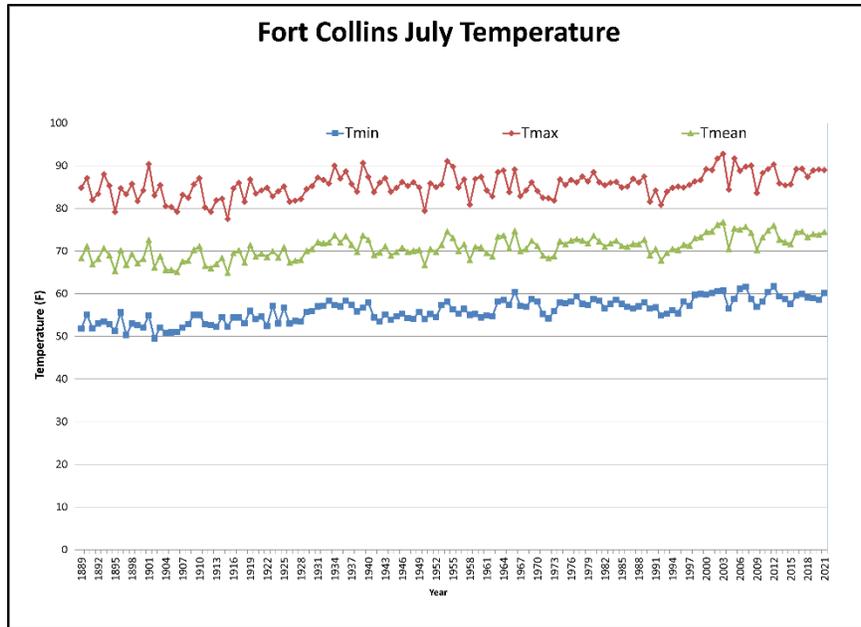


Figure 1: July temperature time series.

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

Warmest Minimum Daily Temperature:

July 29, 2021: The minimum temperature of 66°F tied the record warmest minimum for the day set in 1934.

90 Degree Days:

July 2021 had 17 days with temperatures at or above 90°F. The average for July is 9.

Through July, there have been 28 days at or above 90F this summer. The average number of days in the 90s through July is 13.

Precipitation and Snowfall:

Total monthly precipitation was 0.65” which is 0.98” below the 1991-2020 normal for the month (40% of normal). This ranks as the 23rd driest in the 133-year record (1889-2021), tied with 1916. The last July this dry or drier was 2020 with 0.15” of precipitation.

Water Year 2021 precipitation through July totaled 14.85” which is 1.85” above the 1991-2020 normal (114% of normal). This ranks as the 33rd wettest start to a water year in the 132-year record (1890-2021). The last water year this wet or wetter through July was 2015 with 16.63” of precipitation.

July had 8 days with measurable precipitation (≥ 0.01 ”) and 12 days with a trace of precipitation (≤ 0.01 ”).

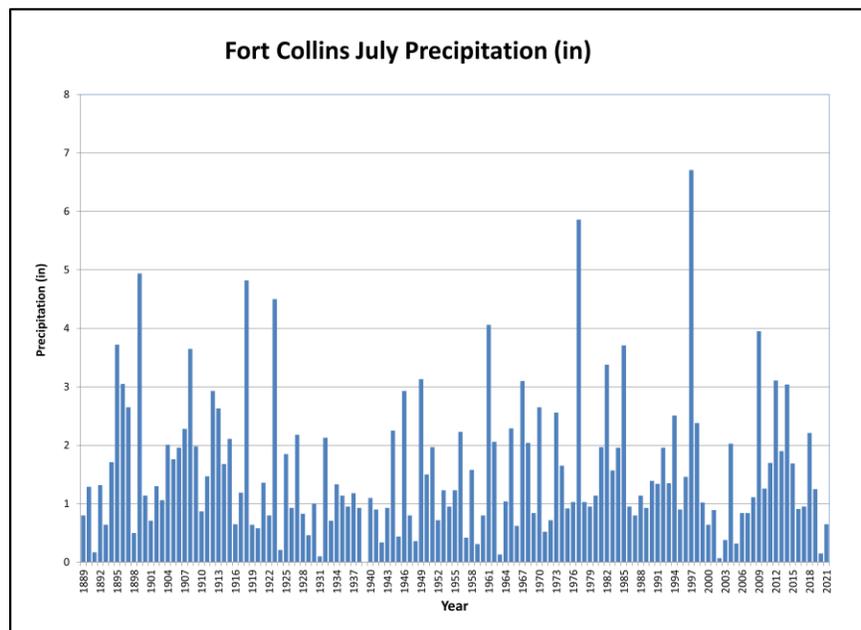


Figure 2: July precipitation time series.

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

No precipitation records for July 2021.

The highest one-day precipitation total for July 2021 was 0.22” falling on July 30 and 31.

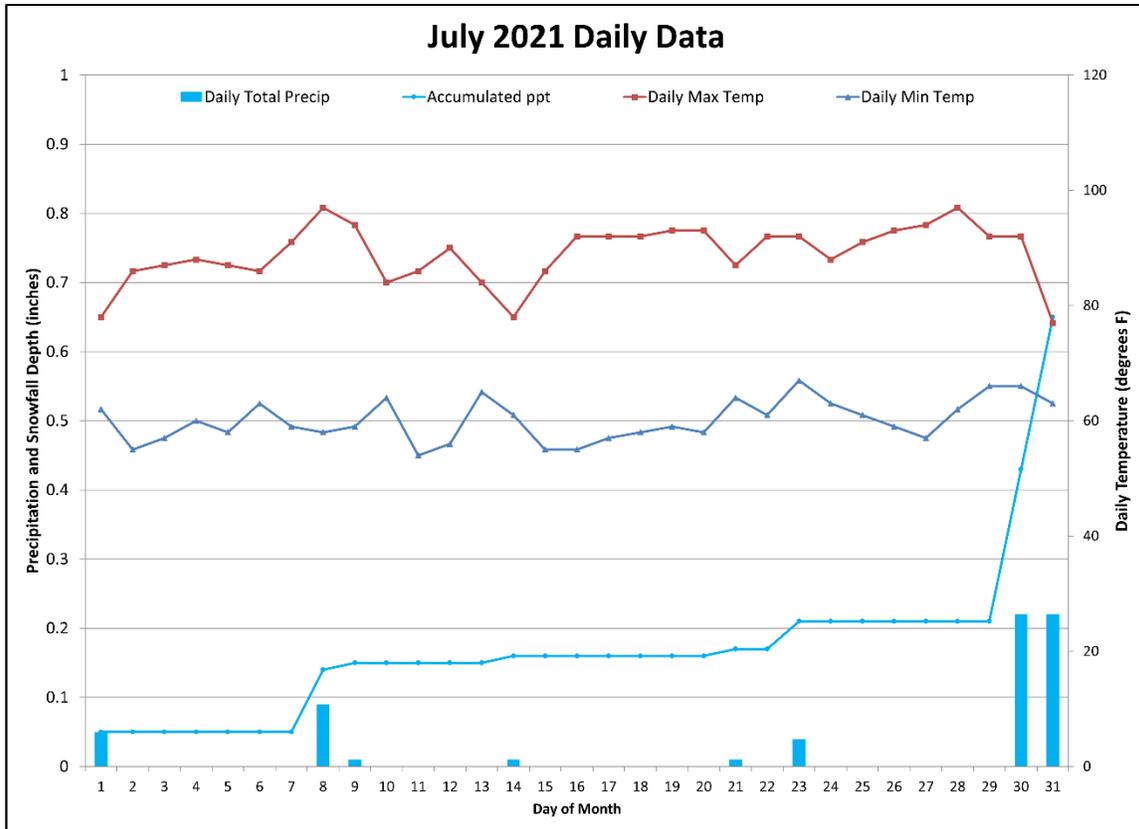


Figure 3: Daily Data for July 2021. Precipitation and temperature both show up on this graph. The y-axis on the left is for precipitation and snowfall. The y-axis on the right is for temperature.

Wind:

In July 2021 there were 6 days with maximum wind gusts ≥ 20 mph and 0 days ≥ 30 mph.

The maximum daily wind gust for the month was 29 mph and occurred on July 10, 2021, at 10:47 PM MST from 360° (N).

Evaporation:

Pan evaporation for July 2021 totaled 7.22” which is 0.63” below the normal (92% of normal).

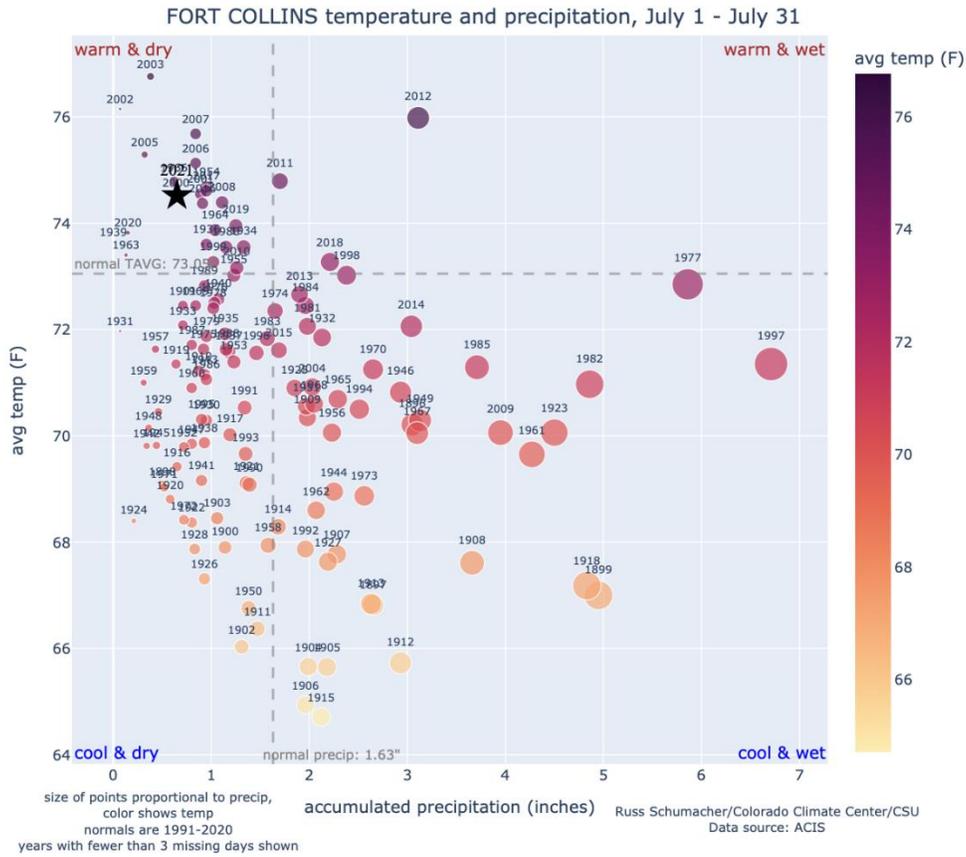


Figure 4: July precipitation and temperature data plot. Each dot plots monthly average temperature and precipitation at Fort Collins for the period of record. From left to right, monthly precipitation is shown on the x-axis, where the wettest years are plotted furthest to the right. Dot sizes are proportional 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 horizontal and vertical dotted lines indicate the 1991-2020 normals. July shows up warmer and drier than normal.