

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

Month: June
Year: 2021



Temperature:

Mean T_{\max} was 86.4°F which is 4.6° above the 1991-2020 normal for the month. This is the 6th warmest in the 133-year record (1889-2021), tied with 2018 which was also the last June this warm.

Mean T_{\min} was 55.2°F which is 2.4° above the 1991-2020 normal for the month. This is the 7th warmest in the 133-year record (1889-2021), tied with 2002. The last June this warm or warmer was 2016 with 55.9°F.

Mean T_{mean} was 70.8°F which is 3.5° above the 1991-2020 normal for the month. This is the 6th warmest in the 133-year record (1889-2021), tied with 2018 which was also the last June this warm.

The maximum daily temperature for the month was 100°F and occurred on June 16, 2021.

The minimum daily temperature for the month was 41°F and occurred on June 1, 2021.

The 100°F on June 16 was the 2nd earliest 100°F temperature on record. The earliest was June 14, 2006.

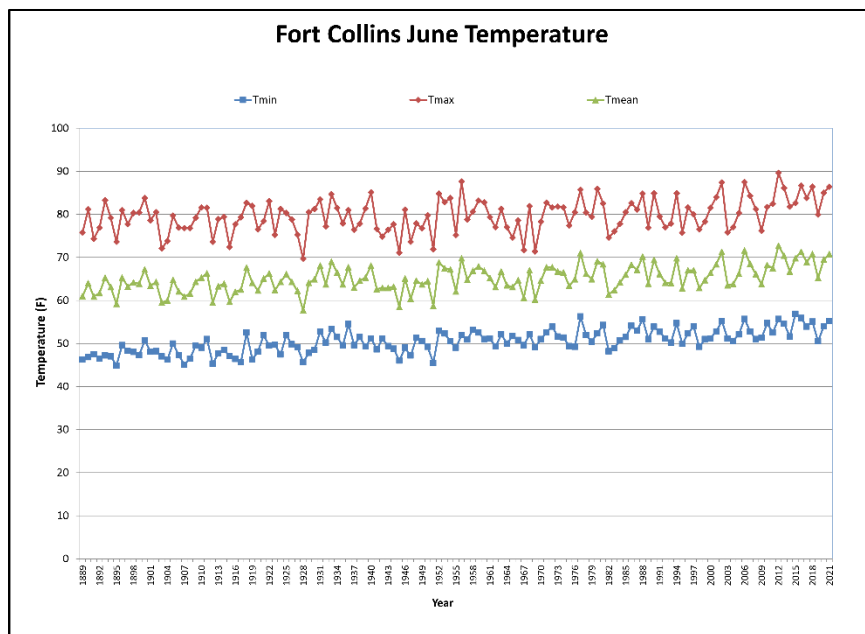


Figure 1: June temperature time series.

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

Maximum Daily Temperature Records:

June 15, 2021: The maximum temperature of 98°F broke the record max temperature for the day of 94°F set in 1946, 1952 and 1977.

June 16, 2021: The maximum temperature of 100°F broke the record max temperature for the day of 95°F set in 1940.

June 17, 2021: The maximum temperature of 99°F broke the record max temperature for the day of 97°F set in 2002.

Warmest Minimum Daily Temperature:

June 24, 2021: The minimum temperature of 66°F tied the record warmest minimum for the day set in 1939.

90 Degree Days:

June 2021 had 11 days with temperatures at or above 90°F. The average for June is 4.

Precipitation and Snowfall:

Total monthly precipitation was 0.48” which is 1.42” below the 1991-2020 normal for the month (25% of normal). This ranks as the 24th driest in the 133-year record (1889-2021). The last June this dry or drier was 2017 with 0.14” of precipitation.

Water Year 2021 precipitation through June totaled 14.20” which is 2.83” above the 1991-2020 normal (125% of normal). This ranks as the 20th wettest start to a water year in the 132-year record (1890-2021). The last water year this wet or wetter through June was 2015 with 14.94” of precipitation.

June had 5 days with measurable precipitation (≥ 0.01 ”) and 8 days with a trace of precipitation (≤ 0.01 ”).

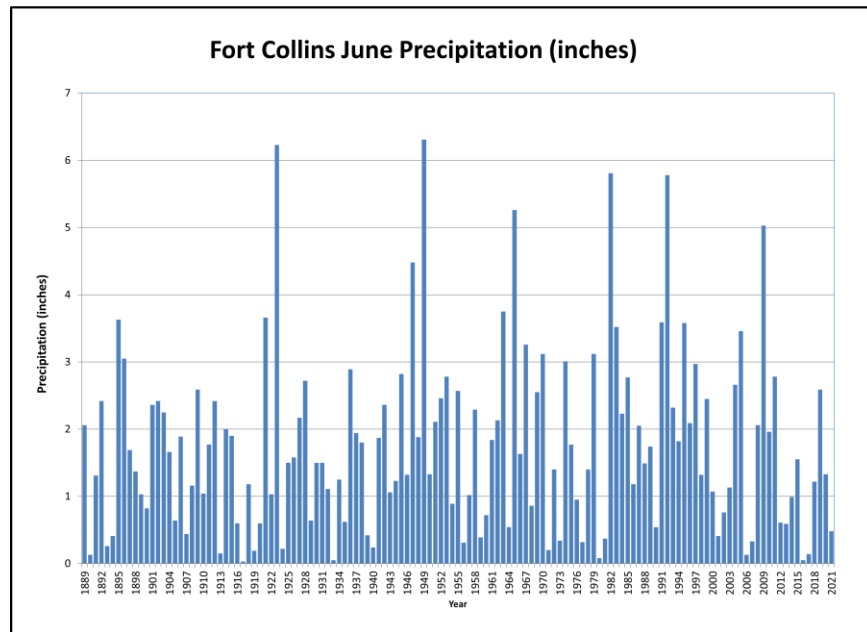


Figure 2: June precipitation time series.

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

No precipitation records for June 2021.

The highest one-day precipitation total for June 2021 was 0.29” falling on June 25.

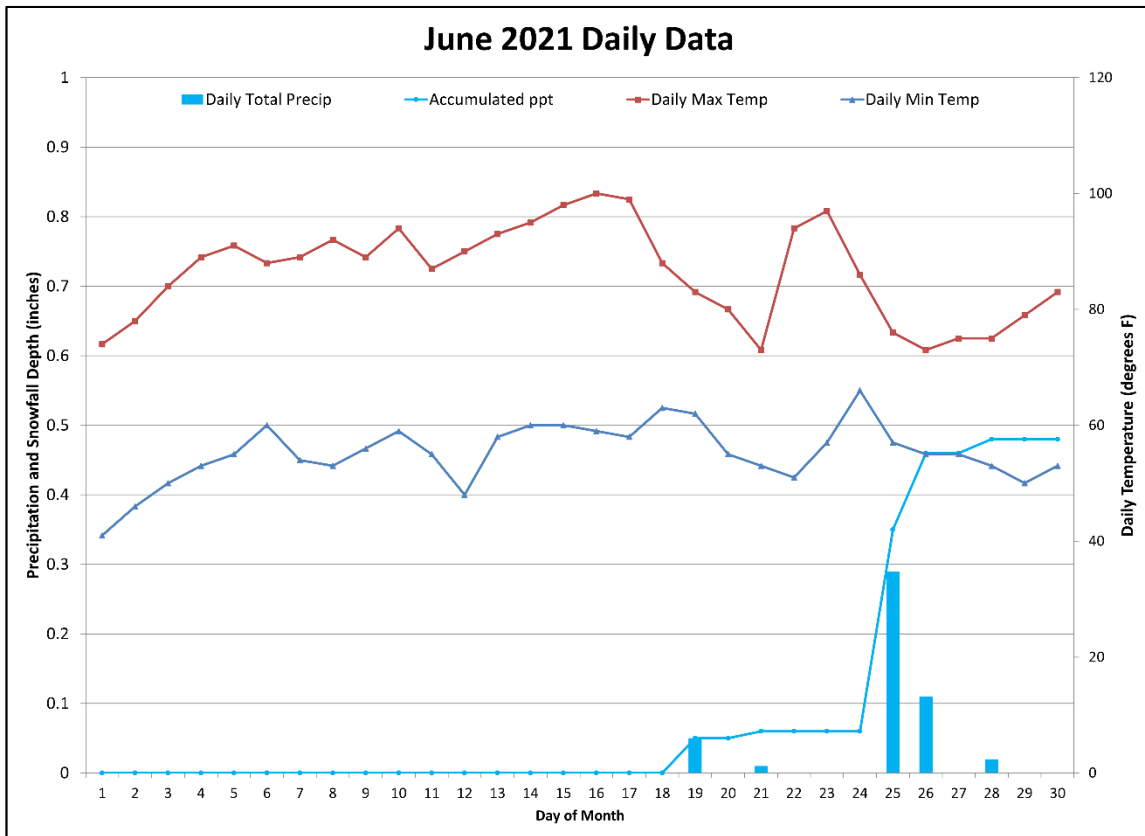


Figure 3: Daily Data for June 2021. Precipitation and temperature both show up on this graph. The y-axis on the left is for precipitation and snowfall. The y-axis on the right is for temperature.

Wind:

In June 2021 there were 11 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 June 16, 2021, at 1:04 PM MST from 270° (W).

Evaporation:

Pan evaporation for June 2021 totaled 7.34” which is 0.23” above the normal (103% of normal).

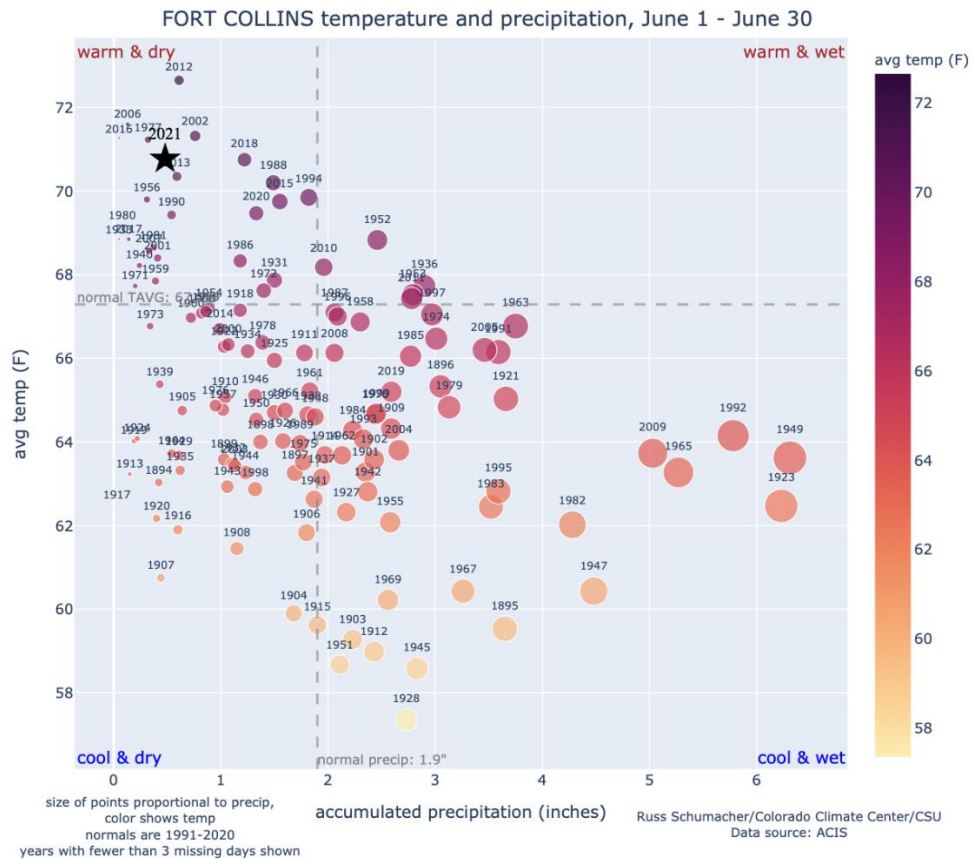


Figure 4: June precipitation and temperature data plot. Each dot plots monthly average temperature and precipitation at Fort Collins for the period of record. From left to right, monthly precipitation is shown on the x-axis, where the wettest years are plotted furthest to the right. Dot sizes are proportional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