

Fort
Collins
Weather
Station
Monthly
Summary

August
2023



**Photo Credit:
Russ Schumacher**



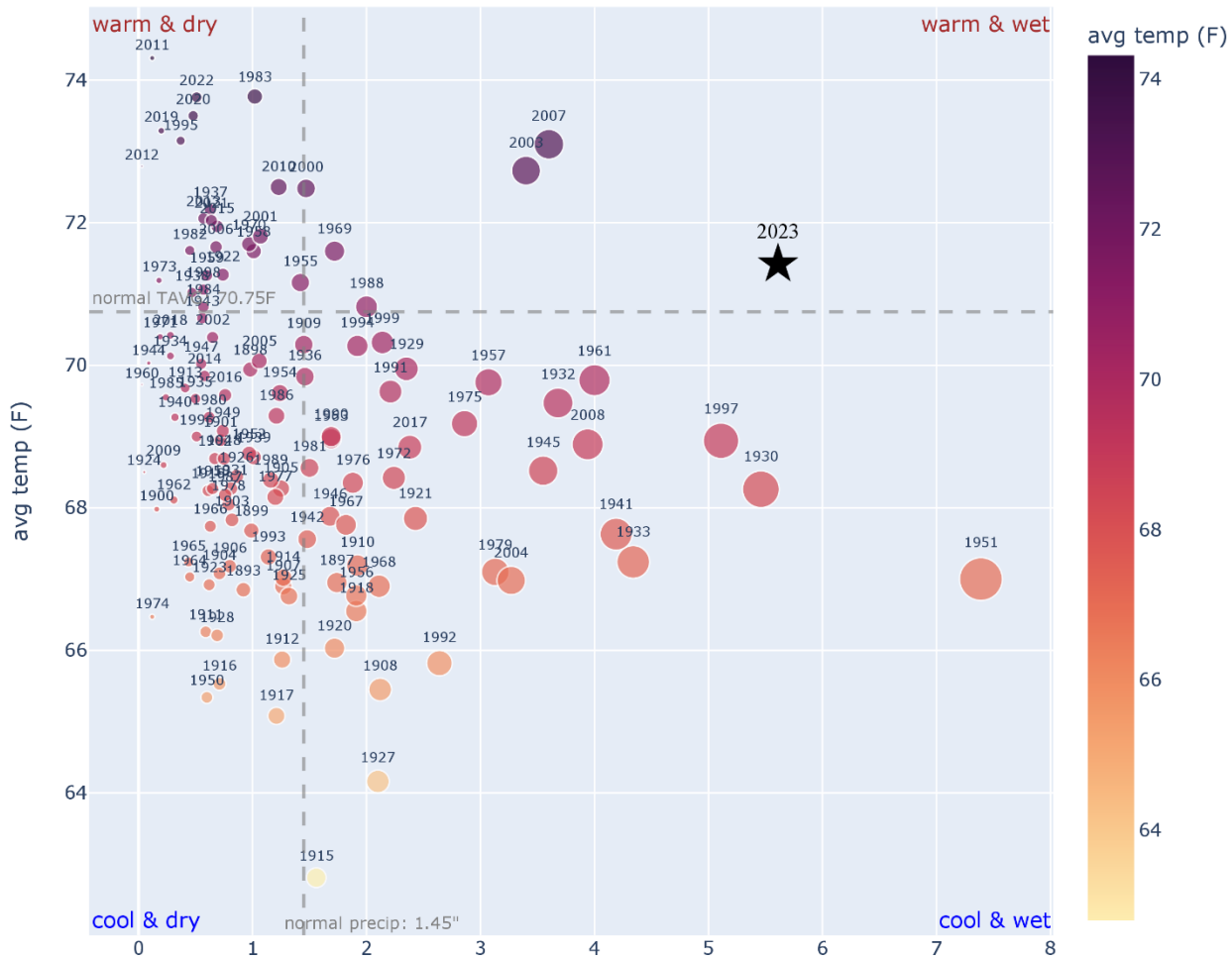
COLORADO
CLIMATE
CENTER



ATMOSPHERIC SCIENCE
COLORADO STATE UNIVERSITY

Average August Temperature and Precipitation

FORT COLLINS temperature and precipitation, August 1 - August 31



size of points proportional to precip,
color shows temperature
normals are 1991-2020
years with fewer than 3 missing days shown

Russ Schumacher/Colorado Climate Center/CSU
Data source: ACIS

The average air temperature for August 2023 was 71.4 °F, 0.7 °F above our 1991-2020 August normal (70.7 °F)

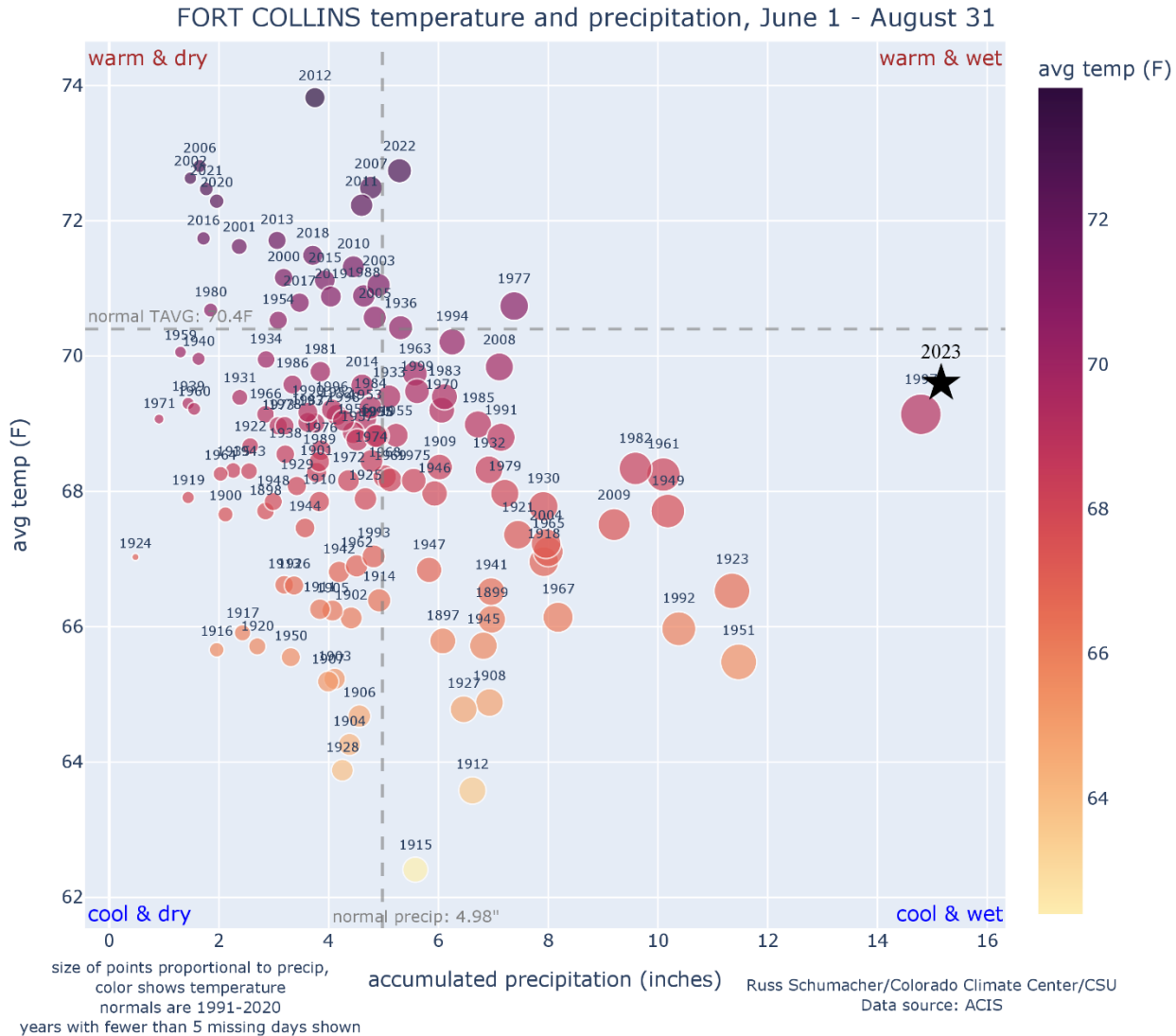
The last warmer August was 2022 (73.8 °F)

We received 5.62" of precipitation in August 2023, 388% of our 1991-2020 August normal (1.45")

The only wetter August on record is 1951 (7.39").



Average Summer Temperature and Precipitation



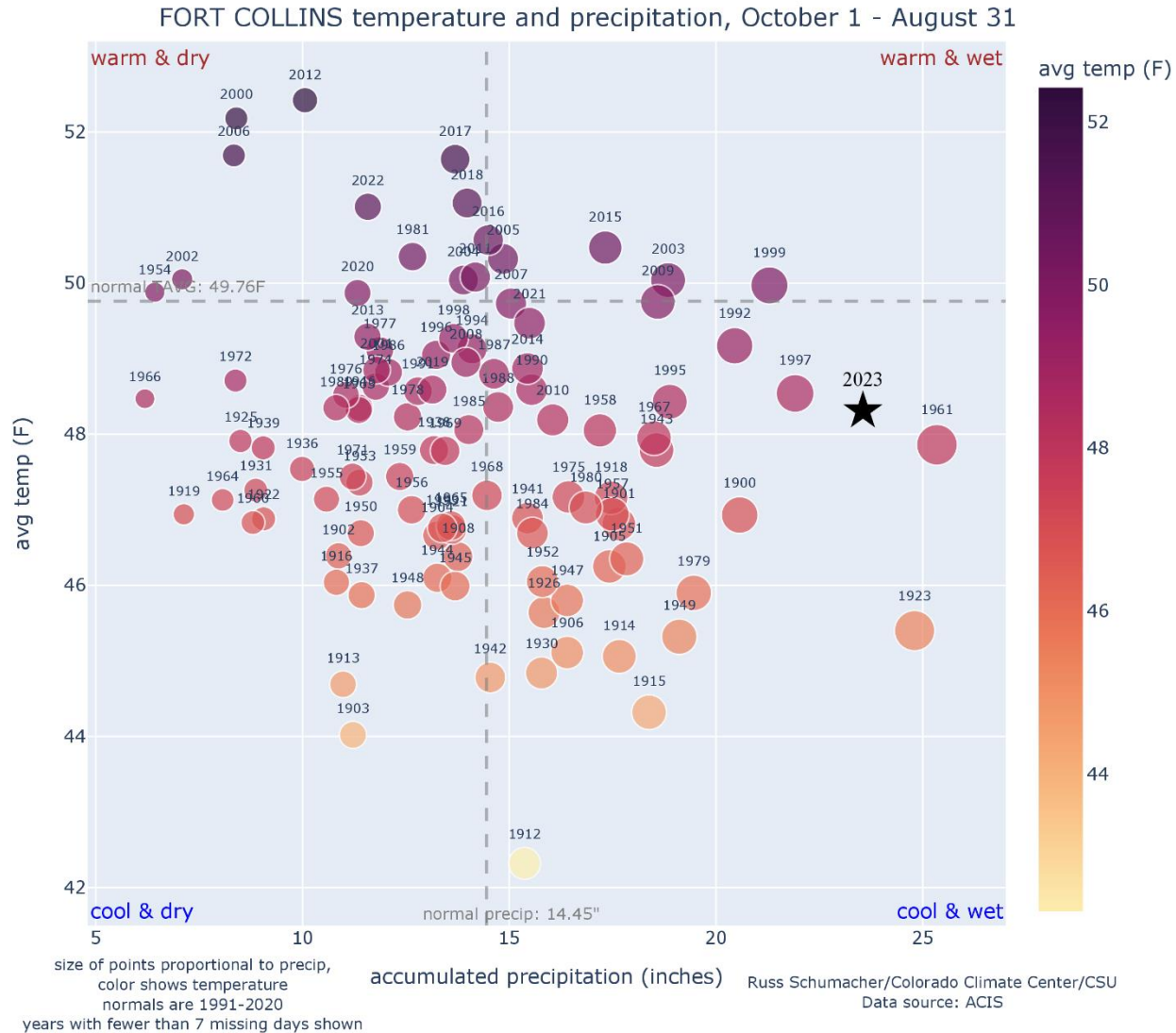
The average air temperature for June-August 2023 was 68.9 °F. This is 1.5 °F below our 1991-2020 normal of 70.4 °F

The last cooler June-August was 2009 (67.6 °F)

We have received 15.35" of precipitation this June-August, 309% of our 1991-2020 normal (4.96"). This is a new record.



Average Water Year Temperature and Precipitation



The average air temperature for our 2023 Water Year to Date (since October 1st) is 48.3 °F. This is 1.4 °F below our 1991-2020 normal of 49.7 °F

The last cooler October-August was 2010 (48.2 °F)

We have received 23.73" of precipitation this Water Year to date, 165% of our 1991-2020 normal (14.39")

The last Water Year this wet through August was 1961 (25.13")



Records Broken

We set a new record highest daily precipitation on August 1st (2.45"), breaking the old record of 0.87". 2.44" of this rain fell before 11:59 PM on July 31st, but after our 8:00 PM MDT observation time.

We set a new record for highest daily precipitation on August 25th of 0.84" breaking the old record of 0.44".

We set a new highest minimum daily temperature record on August 24th of 67 °F. This breaks the old mark of 65 °F from 2006.

We tied the highest maximum daily temperature record on August 21st of 96 °F. This ties 1898 and 1960.

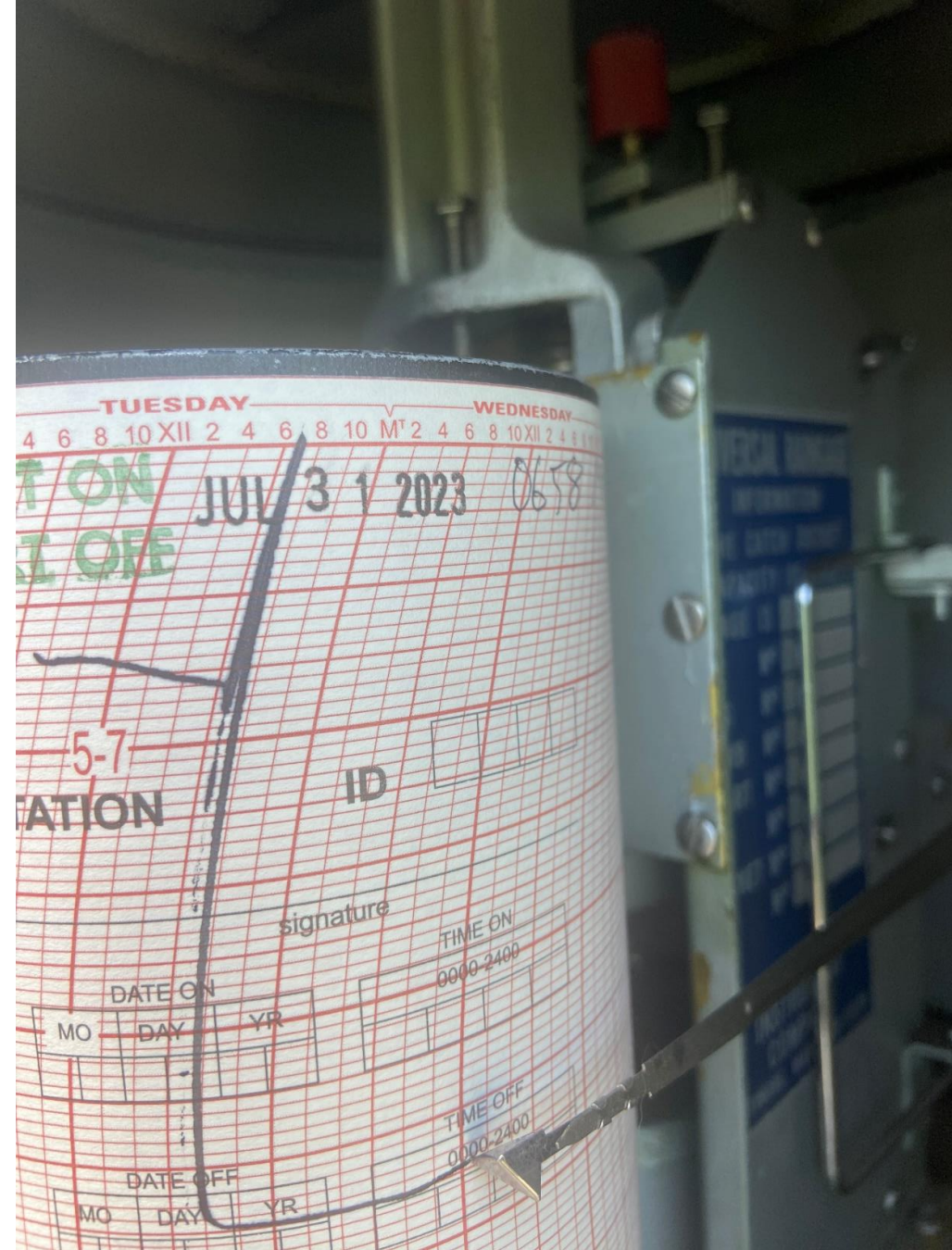
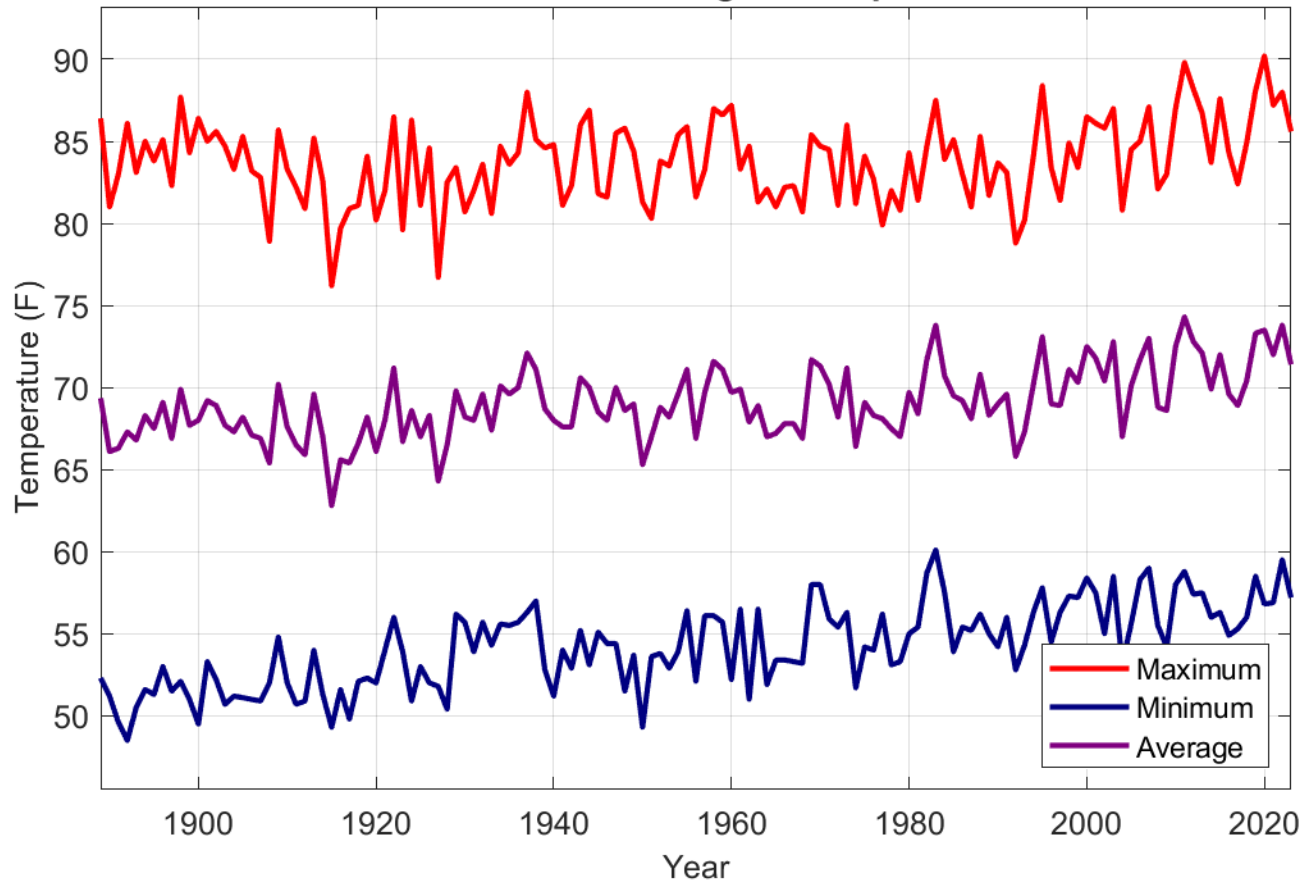


Photo Credit:
Noah
Newman

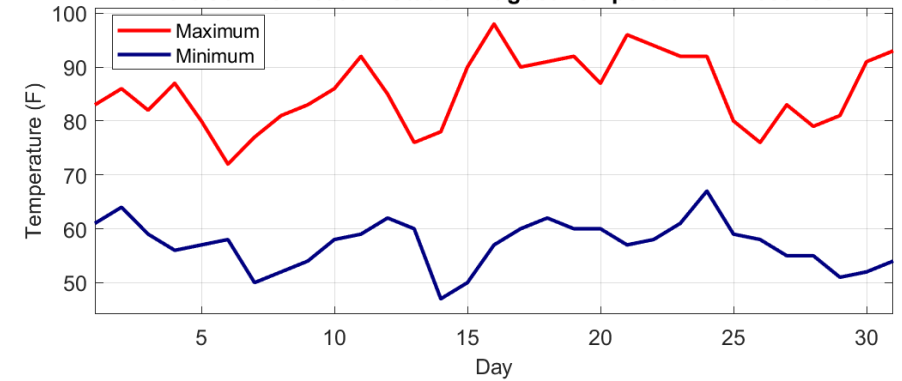


August 2023 Time Series Graphics

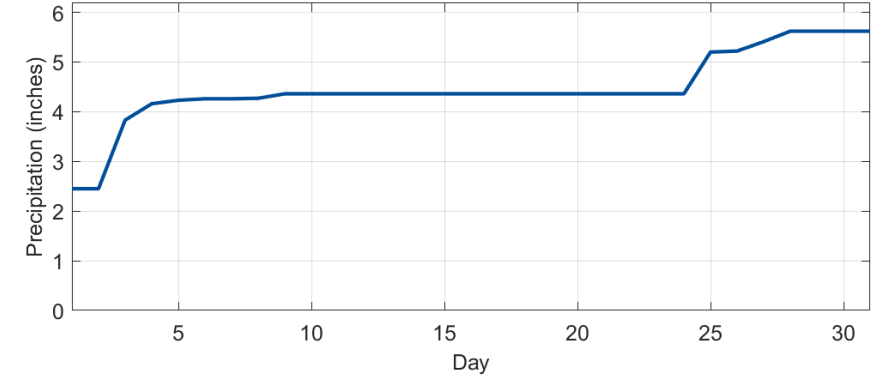
Fort Collins Weather Station August Temperature Timeseries



Fort Collins Weather Station August Temperature Timeseries



Fort Collins Weather Station August Precipitation Timeseries



Highest Daily T_{max} : 98 °F on August 16th

Lowest Daily T_{min} : 47 °F on August 14th

Highest Daily Precipitation: 2.45" on August 1st

Highest Daily Pan Evaporation: 0.34" on August 22nd

Total Pan Evaporation: 5.98" (92% of normal)



Additional August 2023 Statistics

	Observed	1991-2020 Normal	POR Average	Depart from Normal	Depart from POR Average	Last Above	Last Below
T_{mean} °F	71.4	70.7	69	0.7	2.4	2022	2018
Mean(T_{max}) °F	85.6	85	83.8	0.6	1.8	2022	2018
Mean(T_{min}) °F	57.2	56.4	54.2	0.8	3	2022	2021
Precipitation “	5.62	1.44	1.41	4.18	4.21	1951	2022
Water Year Precip “	23.73	14.39	13.85	9.34	9.88	1961	2022

	Value	Date
Max(T_{max}) °F	98	16 th
Min(T_{max}) °F	72	6 th
Max(T_{min}) °F	67	24 th
Min(T_{min}) °F	47	14 th
Max(Daily Precip)”	2.45	1 st
Peak Wind Gust (mph)	25.6	11 th

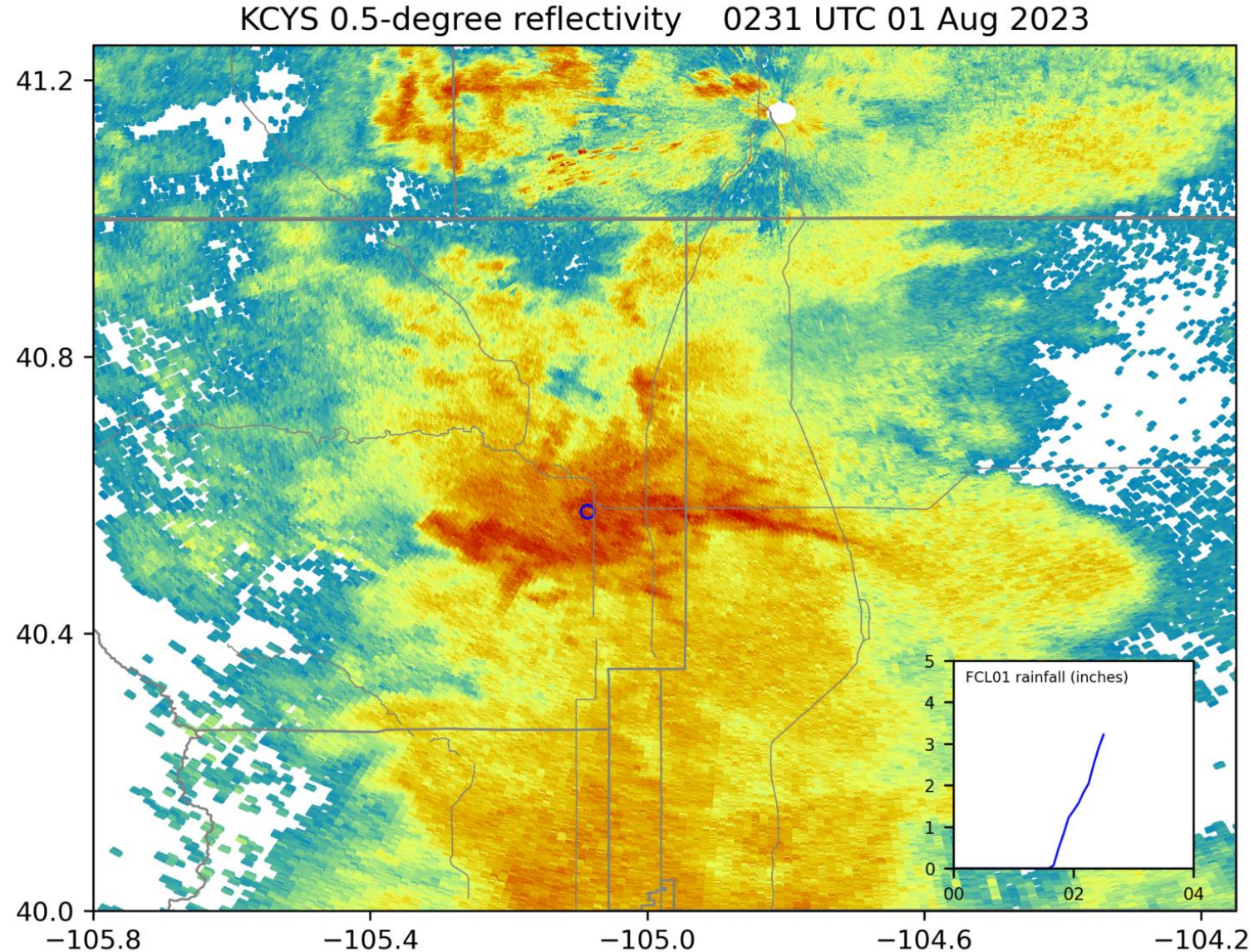
Days Precip > 0	18
Days Snowfall > 0	0
Days Precip > Trace	11
Days Snowfall > Trace	0
Days Wind Gust > 20mph	8
Peak Wind Gust Direction	168
Peak Wind Gust Time (MST)	1751 MST

POR = period of record (1889-2023)



More on the July 31st Flooding Event

- We have adjusted the official July 31st storm measurements to reflect what fell in the Fischer-Porter gauge (1.20" before 8:00 PM, and 2.44" after 8:00 PM). The change was made due to complications with the manual Cooperative Observer Network 8" gauge. There was 0.01" the next day, for a record precip total on August 1st of 2.45" and a storm total of 3.64". The image to the right shows radar reflectivity and precipitation accumulation during the storm
- Full animation at https://schumacher.atmos.colostate.edu/loops/31jul23_rain/anim.php.



CONTACT US!

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