

Fort
Collins
Weather
Station
Monthly
Summary

October
2023

Photo Credit:
Russ Schumacher

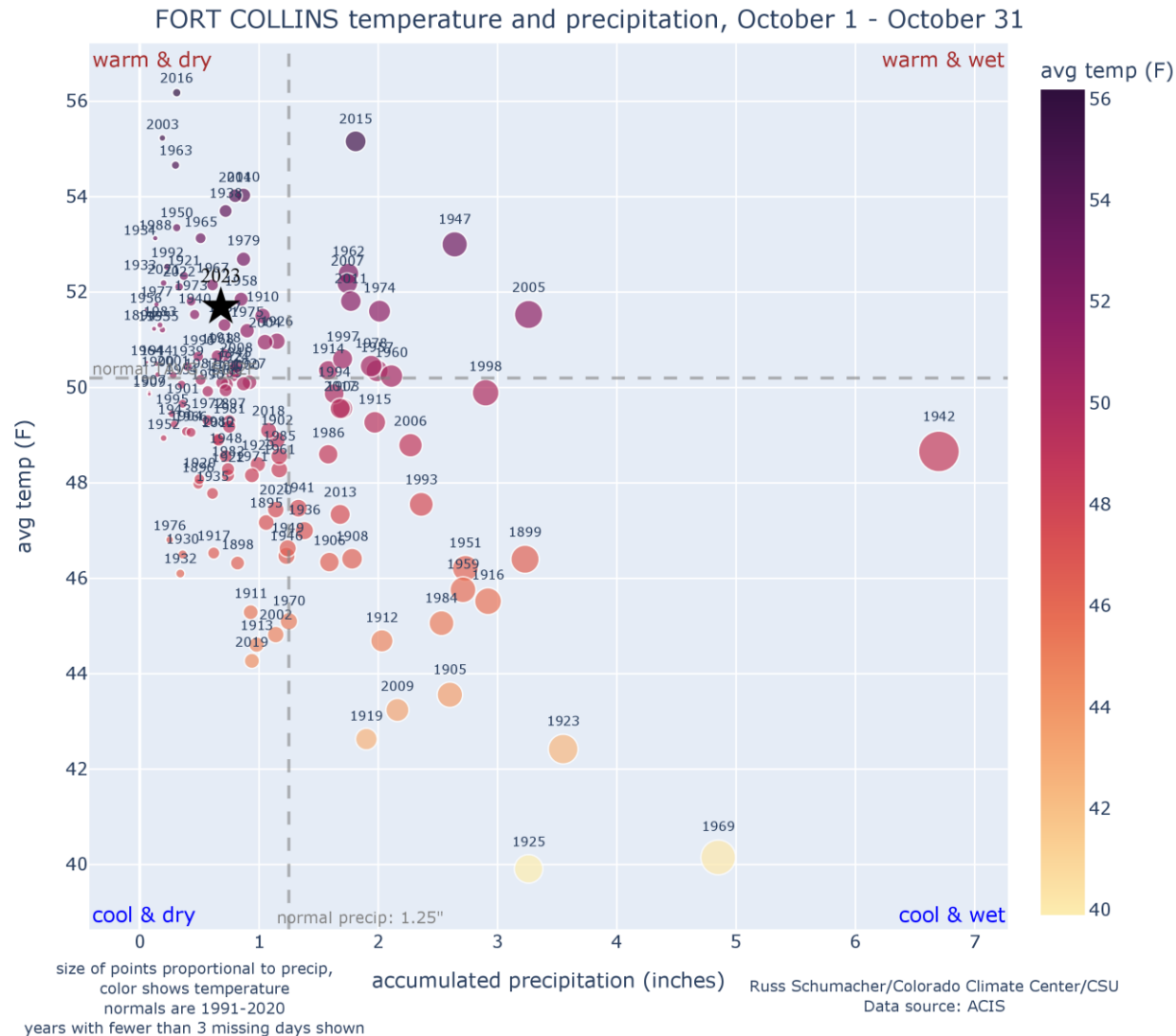


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ATMOSPHERIC SCIENCE
COLORADO STATE UNIVERSITY

Average October Temperature and Precipitation



The average air temperature for October 2023 was 51.7 °F, 1.5 °F above our 1991-2020 October normal (50.2 °F)

The last warmer October was 2022 (52.1 °F)

We received 0.68" of precipitation in October 2023, 54% of our 1991-2020 October normal (1.25")

The last drier October was 2022 (0.33")



Records Broken

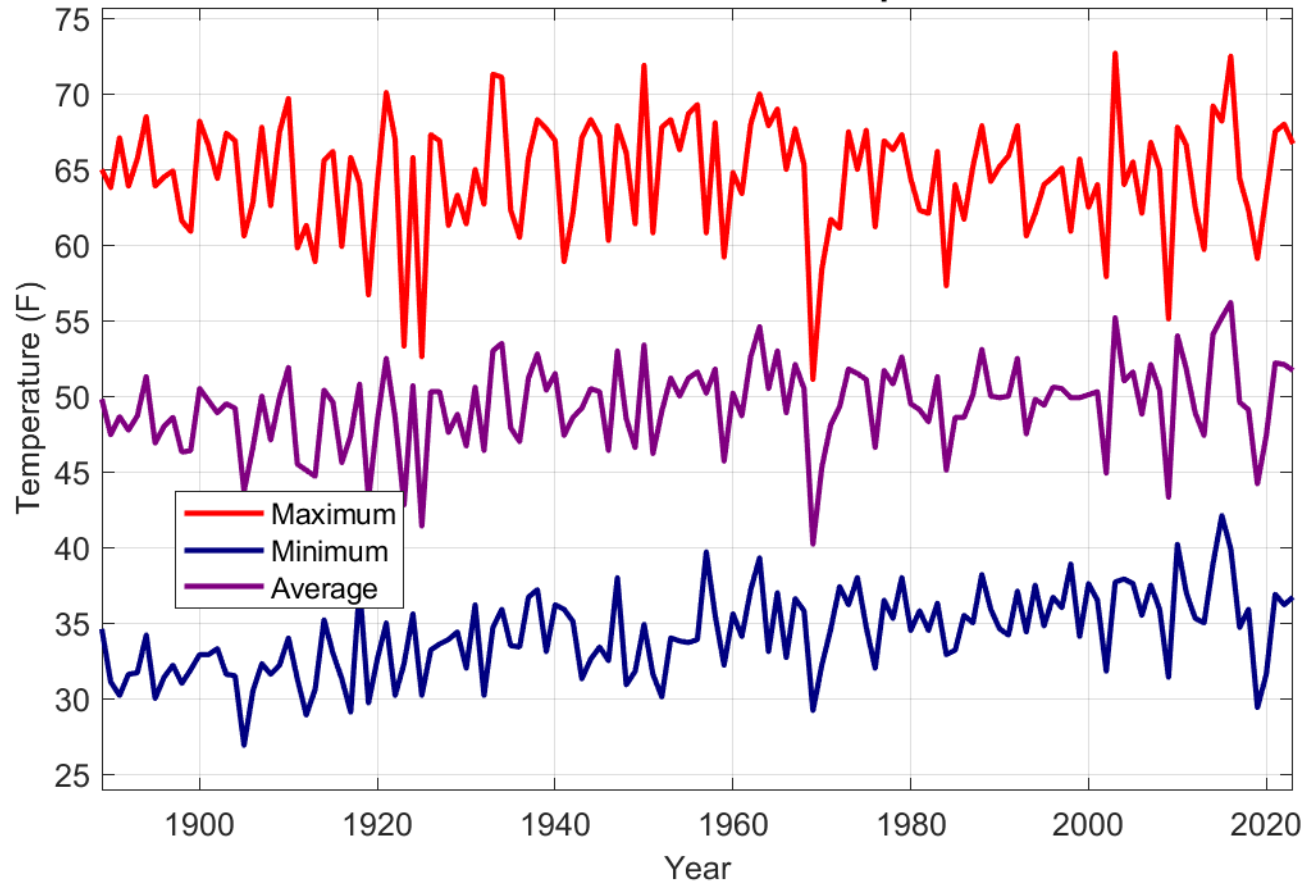
We set a new highest maximum daily temperature record on October 24th, 2023 of 84 °F. This breaks the record set just last year (2022) of 81 °F.

Eclipse Shadows
Credit: Russ
Schumacher

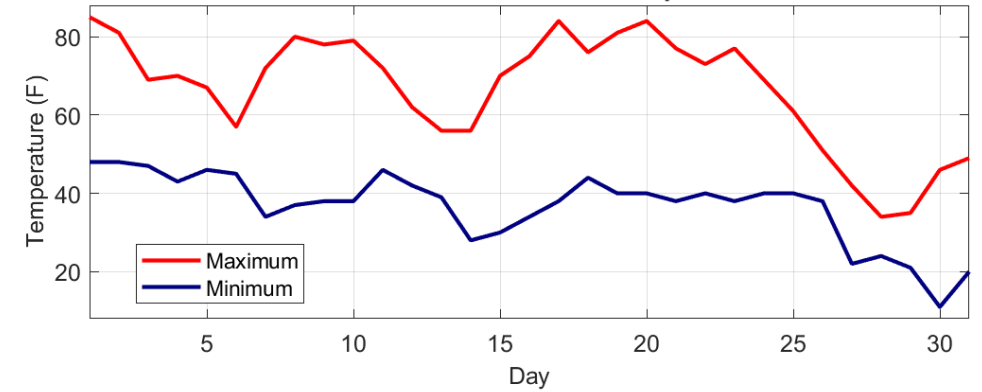


October 2023 Time Series Graphics

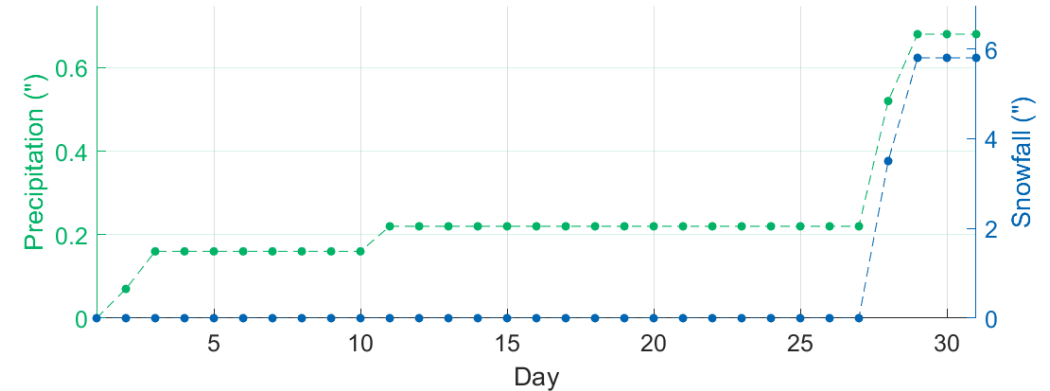
Fort Collins Weather Station October Temperature Timeseries



Fort Collins Weather Station October Temperature Timeseries



Fort Collins Weather Station October Precipitation and Snowfall Timeseries



Highest Daily T_{max} : 85 °F on October 1st

Lowest Daily T_{min} : 11 °F on October 30th

Highest Daily Precipitation: 0.30" on October 28th

Highest Daily Snowfall: 3.5" on October 28th



Additional October 2023 Statistics

	Observed	1991-2020 Normal	POR Average	Depart from Normal	Depart from POR Average	Last Above	Last Below
T_{mean} °F	51.7	50.2	49.4	1.5	2.3	2022	2020
Mean(T_{max}) °F	66.7	64.3	64.5	2.4	2.2	2022	2020
Mean(T_{min}) °F	36.7	36.1	34.2	0.6	2.5	2021	2022
Precipitation “	0.68	1.25	1.12	-0.57	-0.44	2020	2022
Snowfall “	5.8	4.1	3.1	1.7	2.7	2020	2022

	Value	Date
Max(T_{max}) °F	85	1 st
Min(T_{max}) °F	34	28 th
Max(T_{min}) °F	48	1 st and 2 nd
Min(T_{min}) °F	11	30 th
Max(Daily Precip)”	0.30	28 th
Max(Daily Snowfall)”	3.5	28 th
Peak Wind Gust (mph)	24.5	2 nd

Days Precip > 0	5
Days Snowfall > 0	2
Days Precip > Trace	10
Days Snowfall > Trace	2
Days Wind Gust > 20mph	4
Peak Wind Gust Direction	141
Peak Wind Gust Time (MST)	1426 MST

POR = period of record (1889-2023)



Feature Story: Snowy Halloween

Weather

- We received 3.5" of snowfall on October 28th with a trace of snowfall still remaining on Halloween Night. Many long-time Colorado residents have stories about trick-or-treating in the snow, but how common is this?
- The Fort Collins weather station has had measurable snow on the ground in 12% of Halloweens since 1991, and 8% of Halloweens over the period of record
- The Fort Collins weather station has received at least a trace of snowfall on Halloween in 6% of years since 1991 and 9% of years over the period of record.
- Despite having some notable October snowstorms in the climate record, the Fort Collins weather station has never had more than 4" of snowfall on Halloween, or over 4" of snow on the ground on Halloween. Some stories of trick-or-treating in the snow may be exaggerated



Photo Credit: Peter Goble



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