

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

**Month: August**  
**Year: 2014**



125<sup>th</sup> Anniversary celebration at the Fort Collins Weather Station.

## **Temperature:**

Mean  $T_{\max}$  was 83.7 which is 0.3 degrees below the normal for the month. This ranks as the 62<sup>nd</sup> warmest in the 126 year record (1889-2014) tied with 1990. The last August this warm was 2013 with 86.7 degrees.

Mean  $T_{\min}$  was 56.0 degrees which is 0.7 degrees below the normal for the month. This ranks as the 31<sup>st</sup> warmest in the 126 year record (1889-2014) tied with 1922 and 1991. The last August this warm or warmer was 2013 with 57.5 degrees.

Mean  $T_{\text{mean}}$  was 69.9 degrees which is 0.6 degrees below the normal for the month. This ranks as the 36<sup>th</sup> warmest in the 126 year record (1889-2014) tied with 1898 and 1961. The last August this warm or warmer was 2013 with 72.1 degrees.

Summer (Jun, Jul, and Aug) mean temperature was 69.6 degrees which is 0.2 degrees below the normal for the season. This ranks as the 23<sup>rd</sup> warmest in the 126 year record (1889-2014) tied with 1940. The last summer this warm or warmer was 2013 with 71.7 degrees.

The maximum daily temperature was 93 and occurred on 16 and 17 August 2014.

The minimum daily temperature was 48 and occurred on 29 August 2014.

A time series of temperatures for Fort Collins, CO is shown in Figure 1 below.

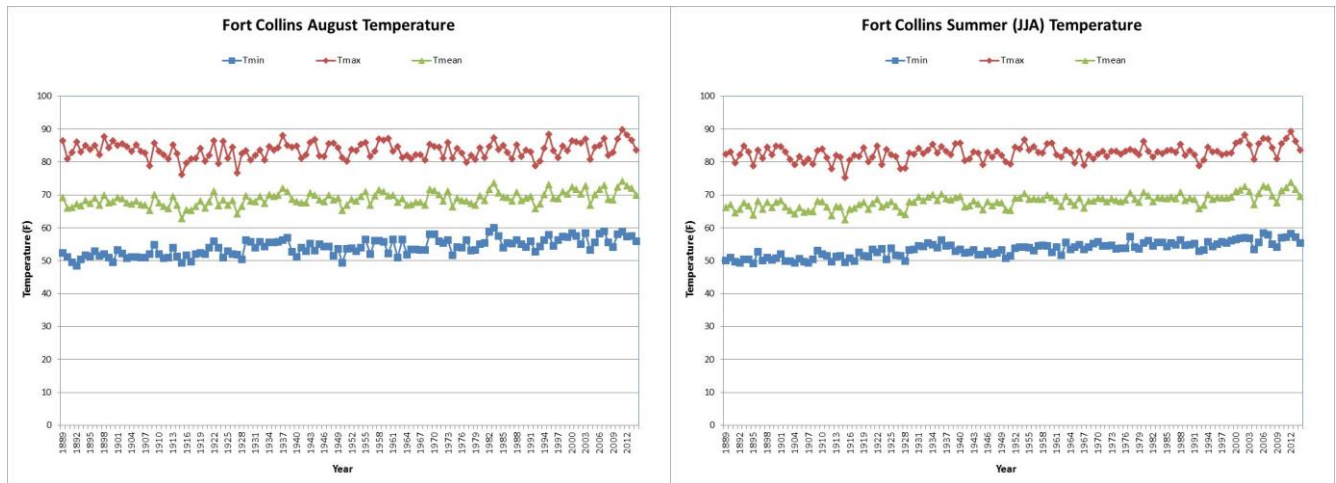


Figure 1: August (left) and summer (right) temperature time series

## Misc. Temperature (record status, days above/below thresholds):

### *Highest Minimum Temperature*

*14 August 2014: Minimum temperature of 67 broke the record of 65 set in 2007.*

## Precipitation and Snowfall:

Total monthly precipitation was 0.58” and was 1.02” below the normal for the month (36% of normal). This ranks as the 29<sup>th</sup> driest in the 126 year record (1889-2014). The last August this dry was 2013 with 0.57”.

Water year 2014 precipitation was 15.44” and was 0.67” above the normal for the water year through August (105% of normal). This ranks as the 39<sup>st</sup> wettest water year in the 125 year record (1890-2014). The last water year this wet was 2010 with 16.05”.

Summer (Jun, Jul, and Aug) precipitation was 4.61” and was 0.87” below the normal for the season (84% of normal). This ranks as the 59<sup>th</sup> wettest summer in the 126 year record (1889-2014). The last summer this wet or wetter was 2011 with 4.64”.

Time series of August precipitation is shown in figure 2.

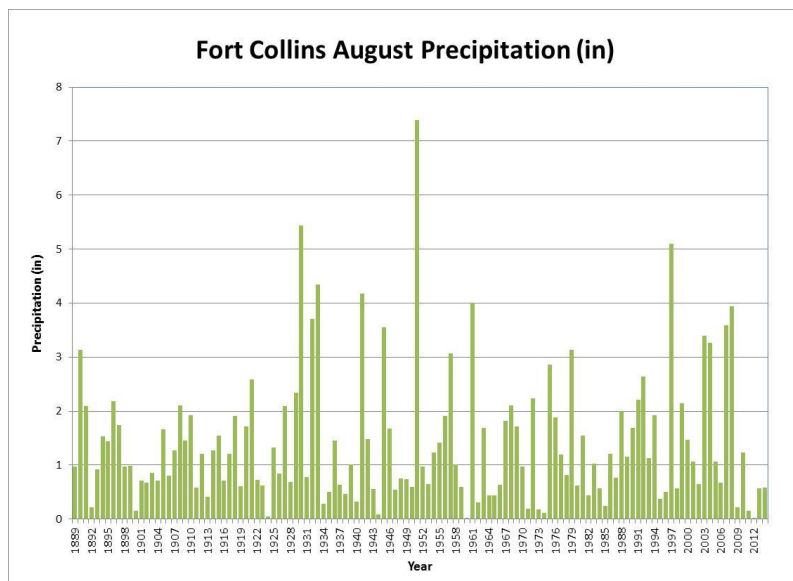


Figure 2: August precipitation (left) time series.

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

None.

**Wind:**

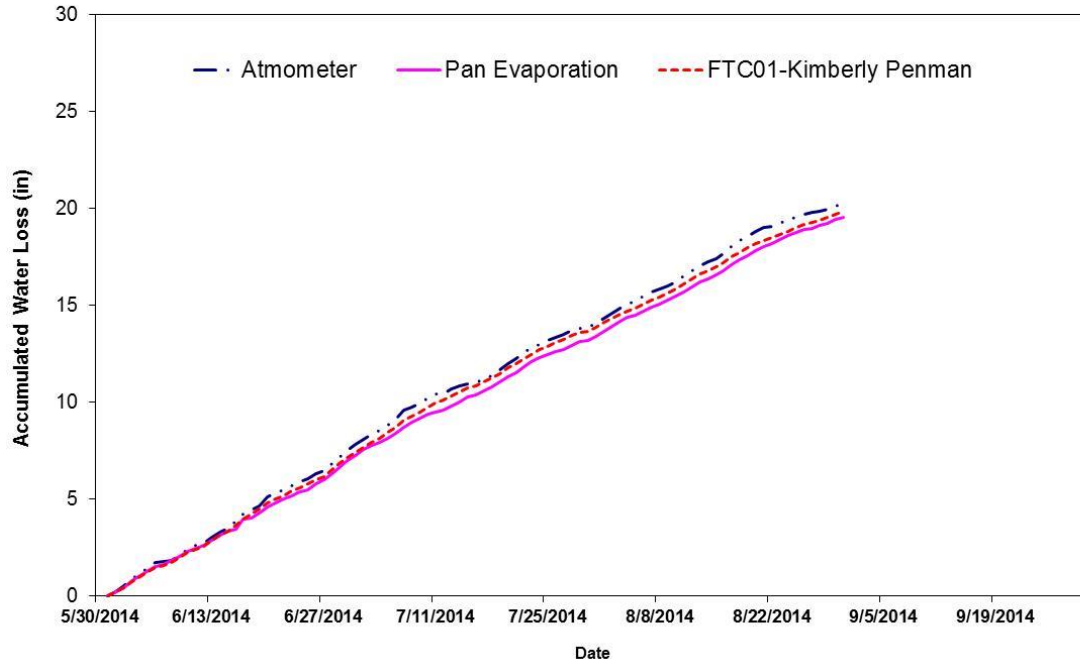
In August 2014 there were 5 days with maximum wind gusts  $\geq 20$  mph and 0 days  $\geq 30$  mph.

The maximum daily wind gust for the month was 25 mph and occurred on 30 August 2014 at 16:30 MST from  $260^\circ$ .

**Evaporation:**

Pan evaporation for the month was 6.15'' which is 0.33'' below the normal (95% of normal) for August.

### Accumulated Water Loss Comparison 2014



**Figure 3: Accumulated water loss from the campus ETgauge (atmometer), Class A pan evaporation and our local CoAgMet ET station (FTC01).**