

## Eric Soulis Memorial Weather Station Summary – October 2024

### **A warm and very dry October**

A lot of interesting things about the temperature this month. The overall picture has the average temperature 1.2 degrees above average, but it has been warmer than that in 4 of the last 10 years. However, it may have seemed a lot warmer, as the average of the daily high temperatures were over 3 degrees above average, which is the second warmest in the last 10 years.

On the other end, the daily low temperatures were 0.7 degrees below average. The reason for this difference were the relatively clear skies which resulted in warm sunny days, but cooler clear nights.

Lastly, a warm streak in the last part of the month was what really drove up the monthly temperature numbers. The high temperatures on Oct 21 and 22 were 25°C, the only time we have seen a temperature that high that late in October was way back in 1947.

Another consequence of the clear skies was the lack of precipitation, in fact if we didn't get a storm a few days before the end of the month it would have been the driest October on record. That last rainfall put the total precipitation at 29.8 mm, well below the average of 81.0 mm and the driest in over 20 years.

The total precipitation for both September and October was 51.4 mm, this was the second driest total for these months in the region where records go back to 1914. The total this year was just a bit above the record driest of 49.5 mm in 1963.

These dry two months have now put the total for the year of 650.6 mm well below the 750.6 mm average.

Summary for October 2024:

Maximum Temperature 26.0°C

Minimum Temperature -2.8°C

Average Daily High Temperature 17.3°C (Long term average 14.2°C)

Average Daily Low Temperature 3.9°C (Long term average 4.6°C)

Total Precipitation 29.8 mm (Long term average 81.0 mm)

(Long term averages based on 1998-2023 data from the Soulis Memorial Weather Station at the University of Waterloo)