



Severn Sound Environmental Association

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2023 Crop Heat Units and Rainfall Data Summary for Lafontaine and Midland Weather Stations

November 22, 2023

Crop Heat Units (CHU) are a method to quantify the effect of temperature on crop development. The 2023 results for Crop Heat Units and rainfall were processed by the Severn Sound Environmental Association (SSEA) using data compiled from the weather stations located in the Township of Tiny, Lafontaine and the Water and Wastewater Operations Facility in Midland, Ontario. Using daily maximum and minimum temperatures, CHU accumulation was calculated by following Ontario's Ministry of Agriculture, Food and Rural Affairs, Agronomy Guide for Field Crops.

Lafontaine in 2023 showed a decrease by 70 Crop Heat Units and Midland had a decrease of 82 units compared with 2022. Looking at the data results from 2021, both 2022 and 2023 showed an increase in accumulated units at both the Lafontaine and Midland locations, reflecting the longer warmer growing season in our local areas for the past 2 years. Also reflecting this trend, is the shift in killing frost dates. Based on the 2023 data, both station locations recorded a first killing frost occurring on November 17, five days later than last years timing.

Both Midland and Lafontaine stations recorded similar year end rainfall amounts for 2023 from May to October. Data showed both stations recorded less than 500 mm of rainfall for the year, with Lafontaine being slightly drier than Midland. Notable differences from previous years for both stations was the lack of rain in September contrasted by the spike in the amount of rain which occurred during the month of October. The total rainfall amounts which occurred in October, were above the seasonal average for the Severn Sound Watershed area based on SSEA's historical data records.

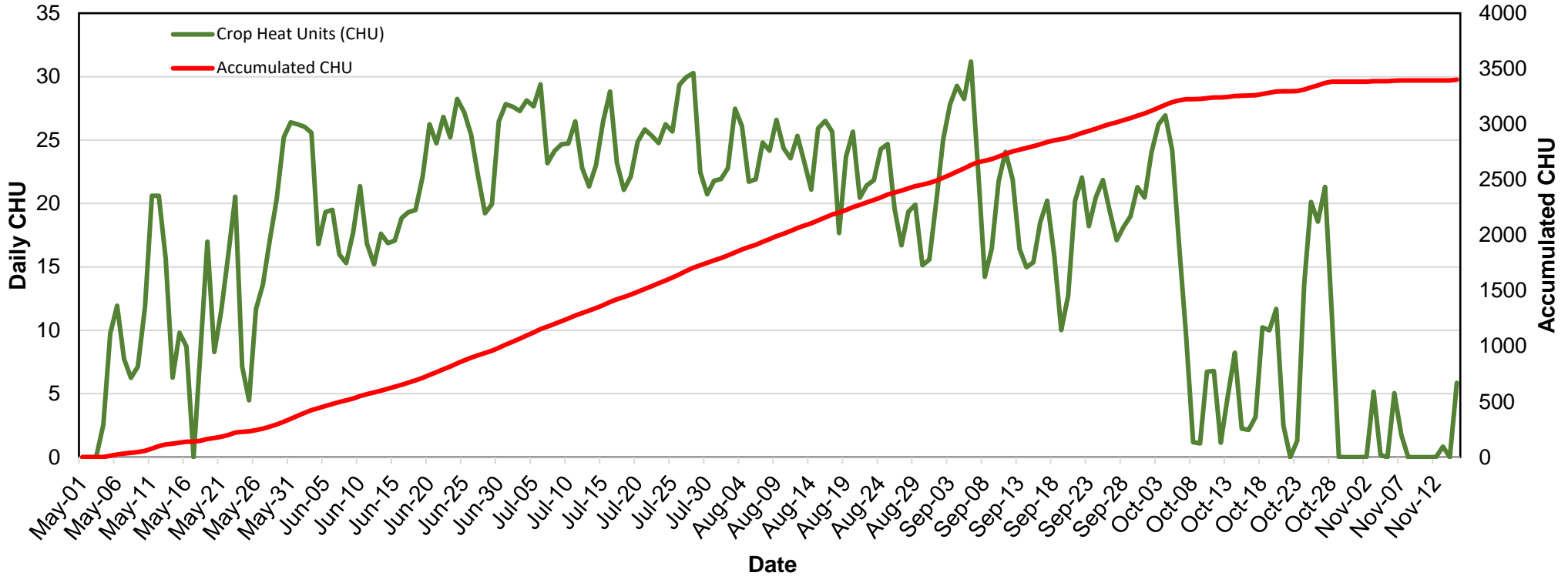
To gain more information, view past reports, keep up on current weather, and view monthly rainfall data SSEA encourages you to visit our website at severnsound.ca, [Monitoring/Weather Stations](#).

For more information:

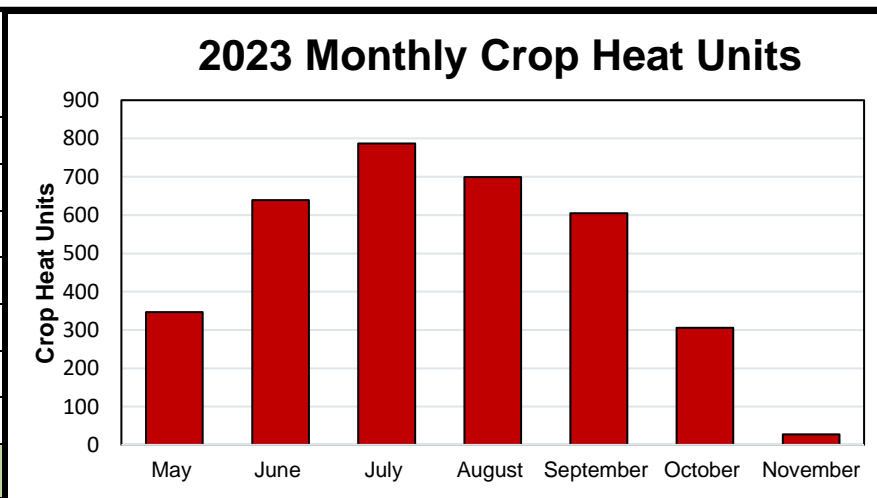
Contact: Nikki Priestman, Watershed Health Coordinator,
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705-534-7283 ext. 212 monitoring@severnsound.ca

2023 Crop Heat Units, Lafontaine, Ontario



Month	Monthly Crop Heat Units
May	346
June	639
July	787
August	699
September	605
October	306
November	27
Total	3410

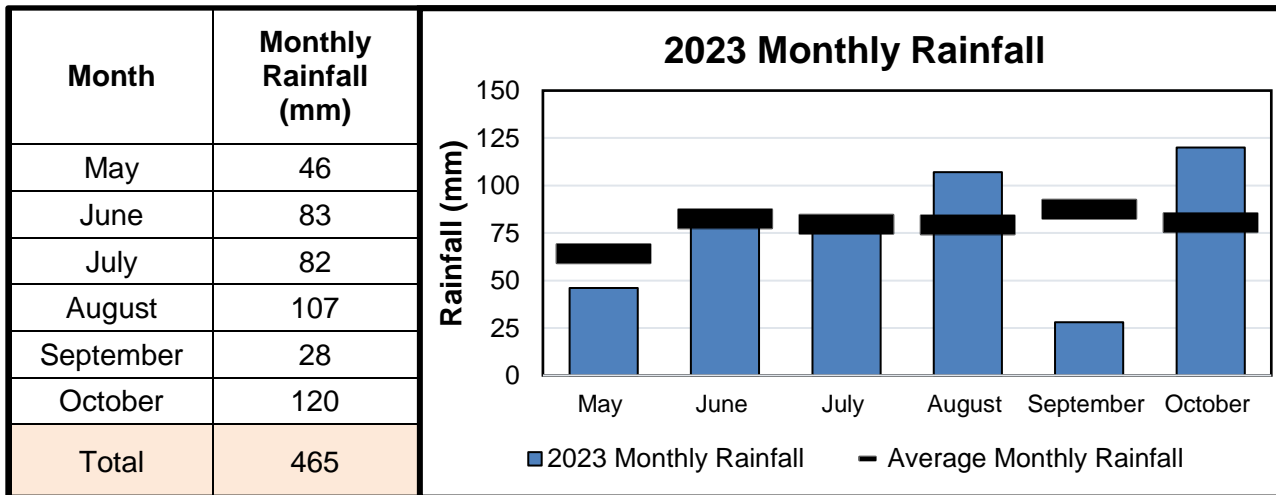
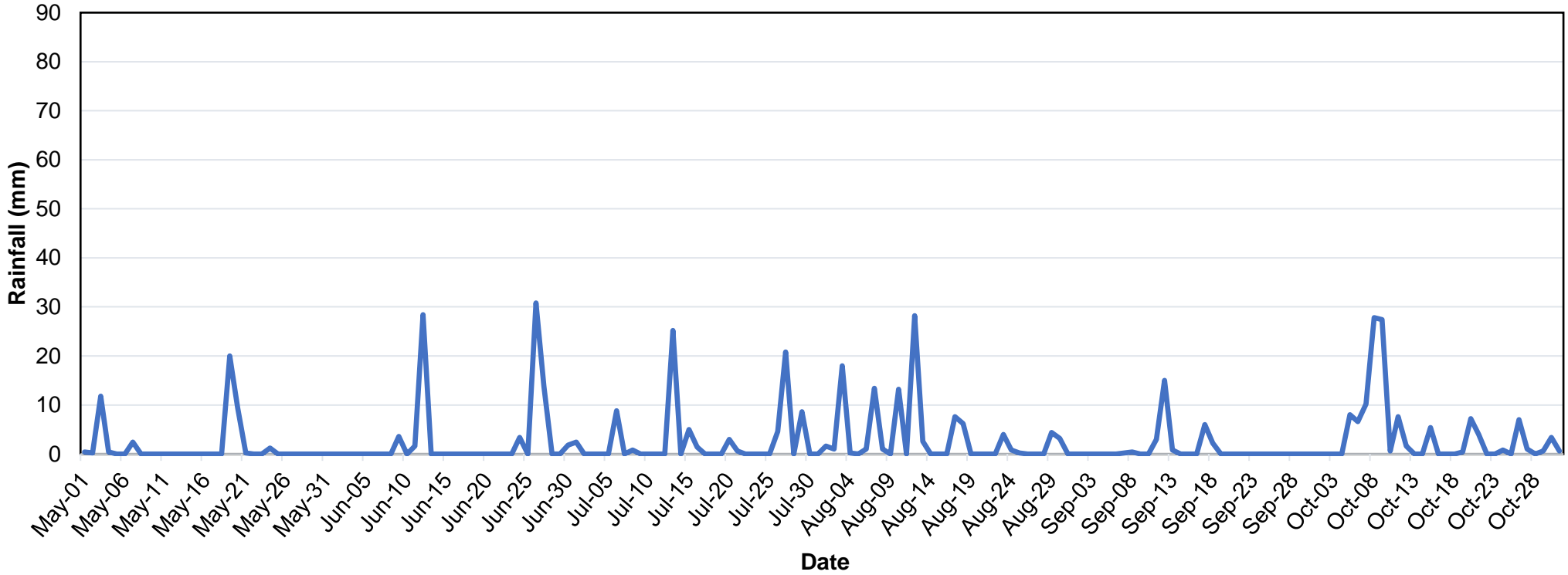


Crop Heat Unit calculations were based on Daily Max. and Min. Air Temperatures collected in Lafontaine, at the Municipally owned property, using an ADCON weather station. Data from May 1 to November 13, 2023 (first occurrence of -2°C or lower) was used to compile the results. The calculation method can be found at: <https://www.ontario.ca/files/2022-10/omafra-agronomy-guide-for-field-crops-en-2022-10-13.pdf> (Page 254)

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2023 Daily Rainfall, Lafontaine, Ontario

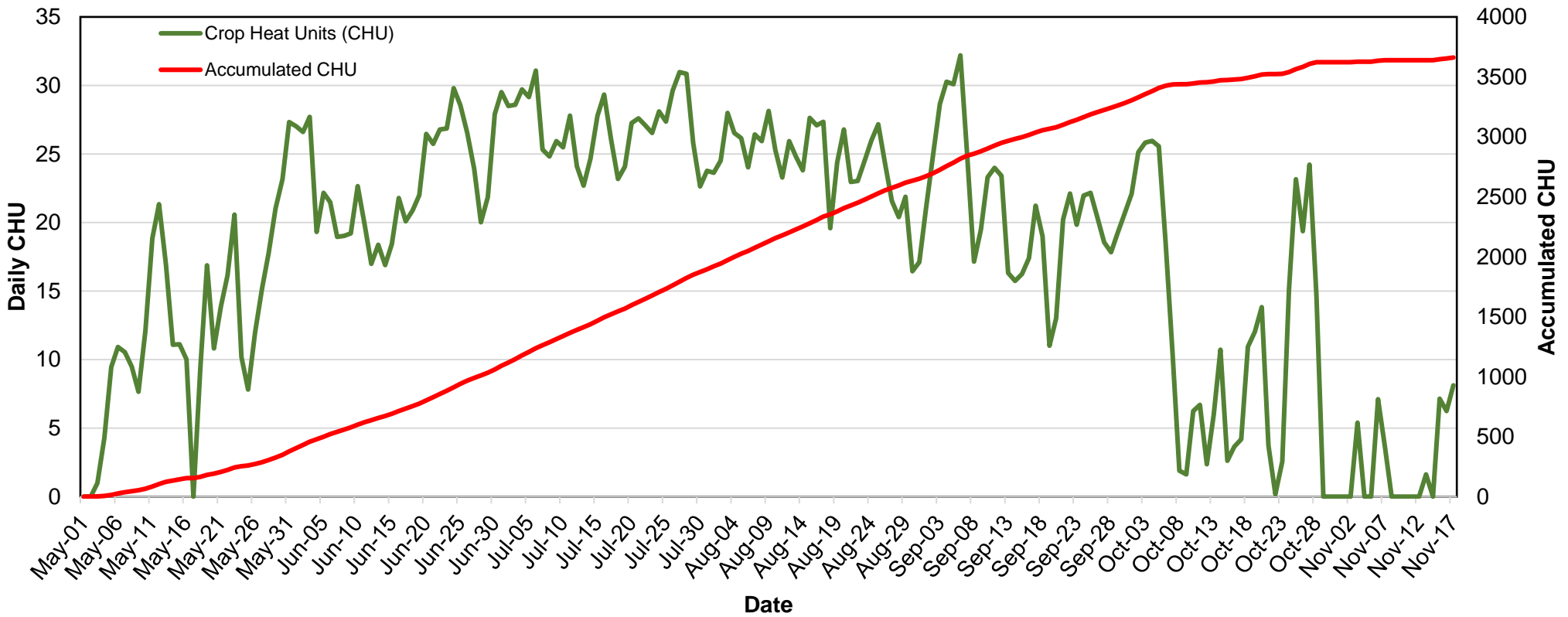


Rainfall amounts were based on continuous measurements recorded at the Lafontaine Ontario, Municipally, owned property, using a weather station equipped with a tipping bucket rain gauge. Data from May 1 to October 31, 2023 was used to compile the results.

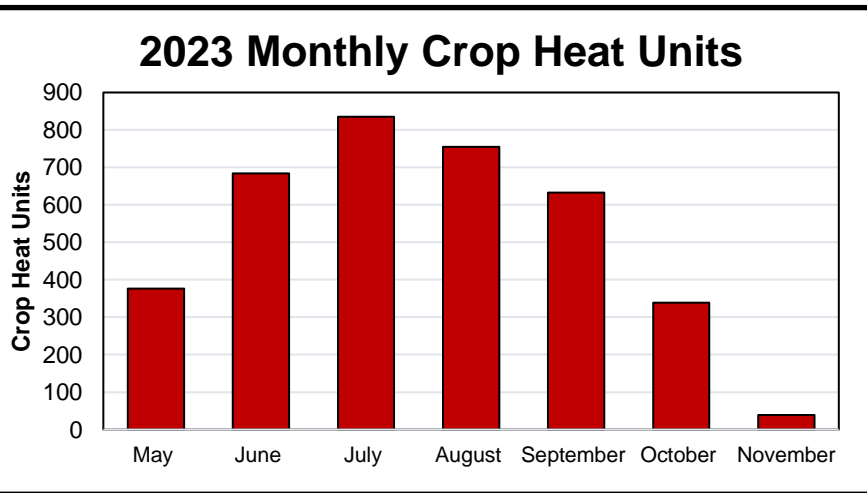
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2023 Crop Heat Units, Midland, Ontario



Month	Monthly Crop Heat Units
May	377
June	684
July	835
August	755
September	632
October	339
November	39
Total	3661

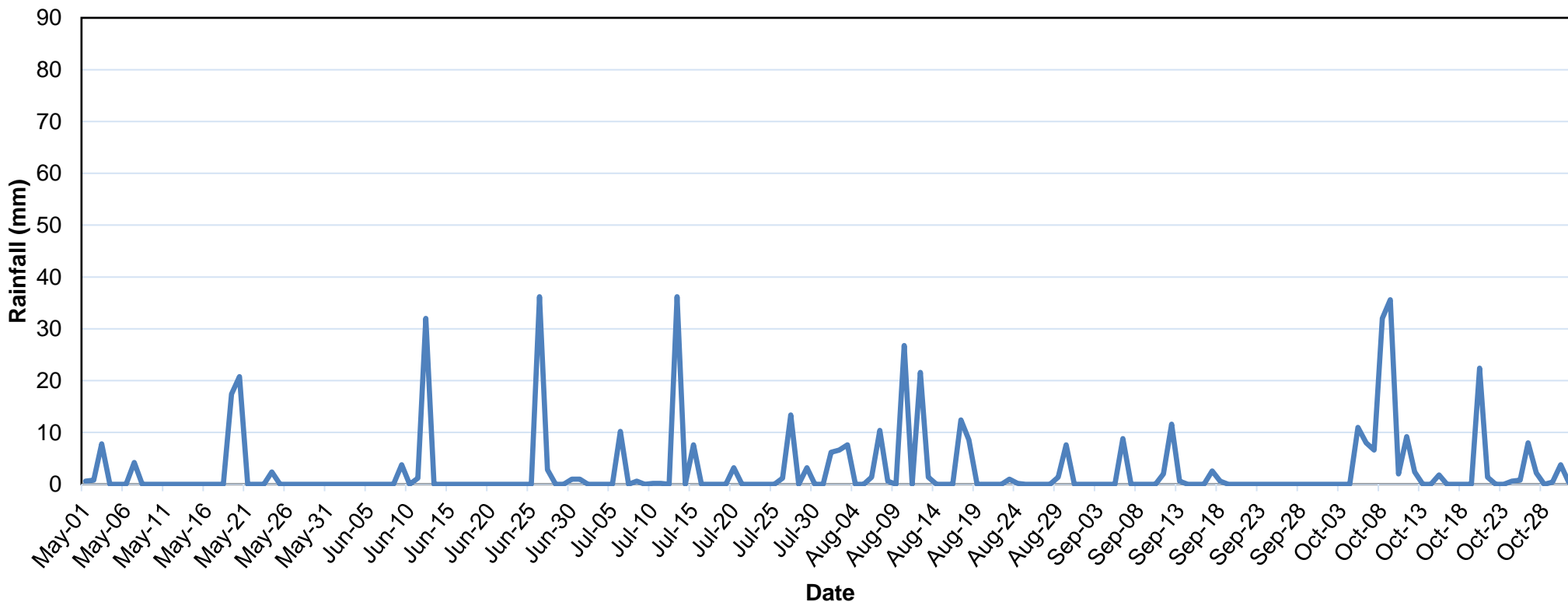


Crop Heat Unit calculations were based on Daily Max. and Min. Air Temperatures collected in Midland, at the Water and Wastewater Operations Facility, using an ADCON weather station. Data from May 1 to November 13, 2023 (first occurrence of -2°C or lower) was used to compile the results. The calculation method can be found at: <https://www.ontario.ca/files/2022-10/omafra-agronomy-guide-for-field-crops-en-2022-10-13.pdf> (Page 254)

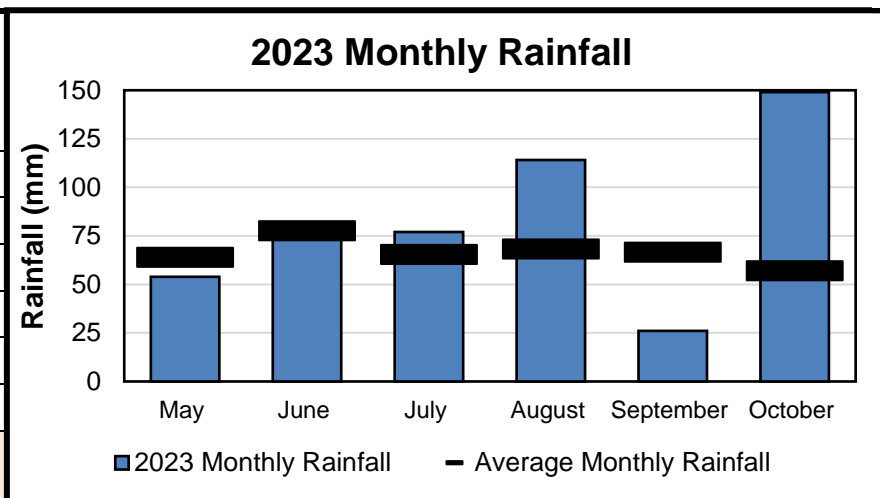
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2023 Daily Rainfall Midland, Ontario



Month	Monthly Rainfall (mm)
May	54
June	77
July	77
August	114
September	26
October	149
Total	497



Rainfall amounts were based on continuous measurements recorded at the Midland, Ontario, Water and Wastewater Operations Facility, using a weather station equipped with a tipping bucket rain gauge. Data from May 1 to October 31, 2023 was used to compile the results.

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