

Thursday, August 7, 2025

#### Overview

The ORCA watershed is currently experiencing a **Level 1 seasonal drought**, driven by a combination of **low rainfall** and **high temperatures** during **June and July**. These conditions are affecting **crop yields**, **water supplies**, and **aquatic ecosystems**.

# Meteorological Data Summary (May-July)

## **Rainfall & Temperature Trends**

- May: Rainfall was above normal at both Peterborough Municipal Airport and Trent University.
- June & July: Significant rainfall deficits and increased high temperatures.
  - o **June**: Rainfall was 76% below normal (Airport) and 68% below normal (Trent).
  - o **July**: Rainfall was 32% below normal (Airport) and 86% below normal (Trent).
  - o High temperature days (above 30°C) increased notably in July.

### **3-Month Totals**

- **Peterborough Airport**: 20% below normal rainfall, 7 weeks without rain (<7.6 mm), 16 days above 30°C.
- **Trent University**: 40% below normal rainfall, 7 weeks without rain (<7.6 mm), 18 days above 30°C.

## **Hydrological Drought Conditions**

### **Streamflow Observations**

- Jackson Creek (Peterborough & Jackson Heights): Flow at 22% and 29% of lowest average summer month (LASM) flow → Level 3 drought.
- Ouse River (Wetwood): Flow at 50% of LASM → Level 2 drought.
- Baxter Creek (Millbrook): Flow at 108% of LASM → No drought because significant portion of the water comes from the outflow of groundwater into the creek.

### **Impacts**

- Watercourses reliant on rainfall/snowmelt runoff are facing Level 2 or Level 3 hydrological drought.
- Aquatic ecosystems and water-dependent systems are at risk due to abnormally low streamflows.

For more information, please feel free to contact

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