

Conservation Sudbury's Water Data Portal is a compilation of data sets from a variety of sampling and monitoring programs.

Stage and River Discharge

Stage data made available through the portal is collected through 2 programs:

- 1) Conservation Sudbury gauging stations – water level (HG) only
 - Simmons Rd., Chelmsford
 - Simon Lake, Naughton
 - Centennial Park, Whitefish
 - Leslie St., Sudbury
 - Maley Dam, Sudbury

This is raw data and has not been corrected or transformed to represent geodetic elevations. Use with caution.

- 2) Environment and Climate Change Canada's (ECCC) Water Survey of Canada (WSC) monitoring program – both water level/stage (HG) and discharge (QR)
 - Vermilion River, near Val Caron
 - Whitson River at Val Caron
 - Whiston River at Chelmsford
 - Coniston Creek
 - Junction Creek Below Kelley Lake
 - Junction Creek at Sudbury
 - Wanapitei River near Wanup

All ECCC-WSC sites and the range of their data can also be accessed directly at:

https://wateroffice.ec.gc.ca/google_map/google_map_e.html?map_type=real_time

Hourly and Daily Precipitation

- Conservation Sudbury operates 2 precipitation gauges that report real-time data, located at:
 - Maley Dam, and
 - Whiston River, Val Caron
 - The Whiston River site is also part of a larger 'Climate Change' monitoring program through the Ministry of the Environment, Conservation and Parks (MECP).

CoCoRaHS – Community Collaborative Rain, Hail and Snow Network

- CoCoRaHS is an international ‘daily precipitation’ reporting program that supports landowners in establishing and submitting daily rainfall reports for the area they reside in. Conservation Sudbury has been supporting this program since 2018. In 2020 and 2021, we recruited an additional 15 community volunteers with the help of funding through the RBC Tech for Nature program. If you are a resident of the Sudbury area and are interested in becoming a volunteer rainfall reporter, please reach out to Conservation Sudbury at ndca@conservationsudbury.ca.
- This community science initiative has also been acknowledged by the Ministry of Natural Resources and Forestry (MNRF) as a useful data source when collecting information to provide early warning data relating to flooding or low water risks.
- For additional information on the CoCoRaHS program, you can access their Canadian website at:

<https://www.cocorahs.org/Canada.aspx>



Manual Stage

- As part of our RBC Tech for Nature funding, Conservation Sudbury also launched a volunteer based ‘Community Water Level Reporting Program’. Throughout the city, 15 staff gauges and instructional signs were installed in watercourses of interest in 2021. Most of these are in areas of moderate to high pedestrian traffic. Locals are encouraged to submit a water level reading by scanning the barcode on the instructional sign and submitting a photo of the staff gauge. This data is reviewed by Conservation Sudbury staff before being uploaded to the WDV on a monthly basis.



Snow

- The snow data provided on the portal is part of the Ministry of Natural Resources and Forestry’s (MNRF) Surface Water Monitoring Centre programing.
- Conservation Sudbury collaborates with MNRF to collect and report snow depth (SD) and snow water equivalent (SWE) data between November 15th and May 15th of the year. Throughout this period, data is collected on (or near) the 1st and 15th of each month.
- For more information on the MNRFs Surface Water Monitoring Center, visit their website at:

<https://www.ontario.ca/page/surface-water-monitoring-centre>

PWQMN – Provincial Water Quality Monitoring Network

The Provincial (Stream) Water Quality Monitoring Network is funded through the MECP and measures water quality in rivers and streams across Ontario. This dataset provides stream water quality monitoring data for a number of parameters, including total and dissolved nutrients, metals, and chloride.

Conservation Sudbury collects data for this program at 10 stations throughout the City of Greater Sudbury. A subset of this data has been made available through the portal. A complete data set can be accessed through the PWQMN website:

<https://data.ontario.ca/dataset/provincial-stream-water-quality-monitoring-network>

PGMN – Provincial Groundwater Monitoring Network

The Provincial Groundwater Monitoring Network is funded through MECP and reports on ambient (baseline) groundwater level and chemistry conditions in aquifers across Ontario.

Conservation Sudbury collects data for this program at 7 wells throughout the City of Greater Sudbury. A subset of this data has been made available through the portal. A complete data set can be accessed through the PGMN website:

<https://data.ontario.ca/dataset/provincial-groundwater-monitoring-network>