

# Ontario Integrated Hydrology Data

The Water Resources Information Program (WRIP) is pleased to release Ontario Integrated Hydrology Data. The data is a collection of elevation and mapped water features that are used to generate watersheds and to support hydrology analysis applications. For the first time, integrated hydrology data is complete for the entire province making it possible to create a watershed for any location in Ontario.

Four key datasets are included in each data package:

1. Stream network (Enhanced Watercourse)
2. Hydrology-enforced DEM (Stream Enforced DEM)
3. Flow direction grid (Enhanced Flow Direction)
4. Raster representation of the stream network (Stream Grid).

There are also useful reference datasets included to provide some context and information about the data sources used in each package.

The physical data is distributed as nine separate data packages which are assembled and grouped by secondary watershed areas. The new data packages provide the following benefits:

- All the key water datasets required for provincial landscape-scale hydrology applications (e.g. stream network, DEM, flow direction grid, reference watersheds) are available in a single data package.
- By integrating the data into a series of common data packages, the data can be more easily used and referenced in GIS software as well as other hydrology tools, such as ArchHydro and Ontario Flow Assessment Tools (OFAT) III
- Data packages provide seamless watershed coverage across the province using one common map projection (Lambert Conformal Conic) and a 30 metre raster grid resolution.

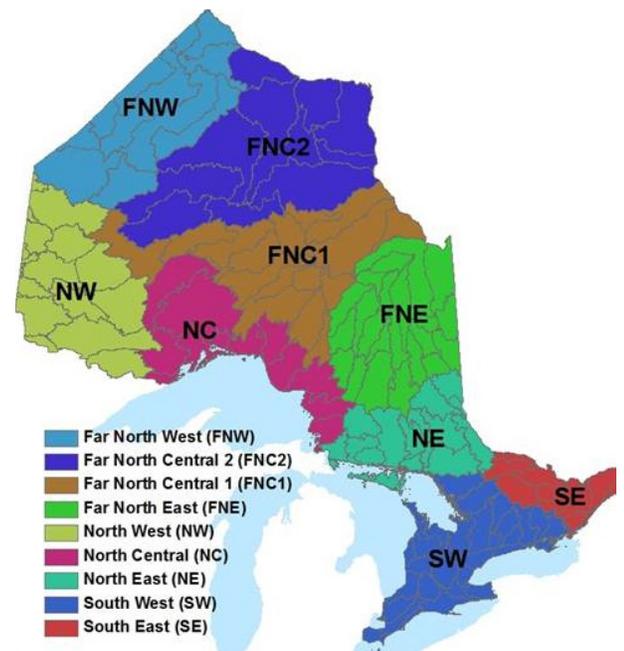


Image: Integrated Hydrology Package Boundaries

- Previous regional-level datasets lacked coverage of Ontario's Far North region which is now included.
- Data packages were established using secondary watersheds as a minimum unit of coverage across the province, allowing for larger hydrologic regions to be accessed through each data package.
- As there are inter-layer dependencies in the Integrated Hydrology Data, data maintenance and the release of updates can be streamlined by packaging all the datasets into one common package. A data maintenance cycle is being established to account for updates to mapped water features and elevation data and will be included in future versions of the data packages.

For more information please refer to the LIO [metadata record](#) or [contact wrip@ontario.ca](mailto:wrip@ontario.ca).