# Water Quantity

## Summary of Observations, Issues and Information Gaps

### Observations

* Two tributaries monitoring since 2021, two lake-level monitor (one logger-base, the other a staff gauge), one precipitation and temperature gauge operation only during the summer.

### Key Issues

* No long term gauge

### Information Gaps

* Lake Dalrymple is in a need for a long-term monitoring program should one need to understand the lake’s hydrology. The current program, which was initiated in 2021, is set to expire in June 2024. As shown below, the current program, in its early stages, is insufficient to get reliable estimates of the lake’s water-budget.

## Drainage Network

Lake Dalrymple is located to the North East of Lake Simcoe that straddles the western boundary of the City of Kawartha Lakes (FIGX). The 1,386 hectare lake is fairly elongated with a 43.8 km shoreline. There are two distinct waterbodies that make up Lake Dalrymple: The “upper lake” is the more southerly portion that discharges into “lower lake”, crossing Kirkfield Rd. The lower lake then drains northward toward Head River. Upstream of the Lake Dalrymple’s outlet (toward Head River) is a catchment area of roughly 152 km2.

Lake Dalrymple is fairly shallow, with depths in the lower lake ranging from 5 to 10 m (OMNR, 1967). The upper lake is quite shallow and as such is mapped as an evaluated Provincially Significant (swamp) Wetland.

Headwaters of Lake Dalrymple

## References

Dalrymple Lake Fishing Map | Nautical Charts App. Accessed January 29, 2024. <https://www.gpsnauticalcharts.com/main/ca_on_r_103380154-dalrymple-lake-nautical-chart.html>.

Ontario Ministry of Natural Resources and Forestry, Lake Dalrymple Bathymetry. 1967. Ontario GeoHub: Historic Bathymetry Maps. Accessed January 29, 2024. https://www.publicdocs.mnr.gov.on.ca/mirb/Bathymetry/17-6500-49453.jpg.