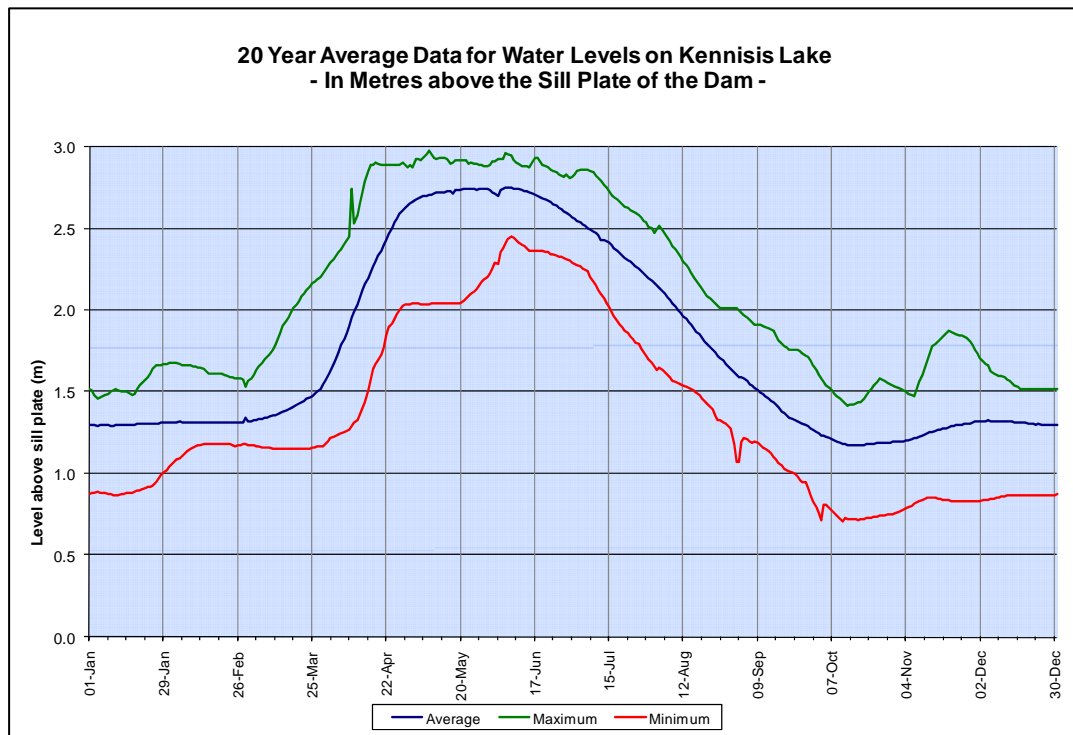


Example of Seasonal Variation of Water Level on Kennisis Lake

The following example is based on data kindly provided by the Trent Severn Waterway for the period 1988 - 2008. The chart records the average water level (blue line) in metres above the sill plate of the dam. The variation in water level, from year to year, for any particular date is indicated by the green line (high water) and red line (low water).

For those who prefer to measure water levels in terms of the drop from the high water level, the second chart presents the same data but the vertical axis reads in inches below the full control level (top of the dam).

The equivalent data for some other lakes may be made available upon request to Dave Ness at the TSW. Detailed information on the reservoir lakes and the operation of the TSW is contained in "A Study of the Past, Present and Future of Water Management on the Trent Severn Waterway National Historic Site" prepared by EcoPlans Limited for Parks Canada Agency and dated May 31, 2007. It is available at: <http://www.tswpanel.ca/english/downloads/Water-Management-Program.pdf>



The cycle of events during an average (calendar) year that is reflected in the graph is as follows:

January to the end of March	the lake is frozen and the level of the ice surface remains constant about 5 feet below the top of the dam;
Early April to mid-May	the surface level rises steadily by about 5 feet with the ice 'going out' sometime in mid-to-late April. At the end of this period the lake level is typically within some 6 inches of the top of the dam.
Mid-May to mid-June	The lake level is maintained relatively constant - within some 6 inches of the top of the dam.
Mid-June to end of September	The lake drops steadily by about 5 feet: that is equivalent to an average of some 4 inches a week. Some years the rate is about twice as fast – but over a shorter period.
October	The lake level usually holds steady at its low point for the year, about 5 feet 6 inches below the top of the dam.
November	The level rises slightly, peaking near the end of November at about 5 feet below the top of the dam.
December	The lake freezes during the latter part of December.

**20 Year Average Data for Water Levels on Kennisis Lake
- In Inches Below the Top of the Dam (Full Control Level) -**

