



Legacy Loads for Lake Rotorua 1920–2099: Estimation
from ROTAN

National Institute of Water and Atmospheric Research

Data Documentation

Motu Economic and Public Policy Research

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Raw or derived data: Derived dataset

Restrictions: Restricted (Not available on web but potentially available if you want to use it for research. Contact Motu with the details below.)

Can Motu put this data on our website? No

Can Motu put this dataset documentation on our website? Yes

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Data Documentation

Please note that this is informal documentation intended to help users.
It is not a polished document. Additions/corrections are welcomed at info@motu.org.nz.

1. Main Motu contact for this data:

Simon Anastasiadis (simon.anastasiadis@motu.org.nz) used this data for NManager. Suzi Kerr (suzi.kerr@motu.org.nz) knows of this data.

2. Other contacts for this data:

Data was provided by Chris Palliser (c.palliser@niwa.co.nz) who develops ROTAN at NIWA. Kit Rutherford (k.rutherford@niwa.co.nz) over saw Chris' work if he can not be contacted.

3. Data keywords:

Lake Rotorua, NIWA, NManager, Legacy Loads

4. Dataset abstract:

This data gives the legacy loads from historic land use for the Lake Rotorua catchment. Nutrients leach from the catchment into the groundwater and then into the lake. The legacy loads are the leaching from the groundwater to the lake.

5. Motu Working Papers using this data set.

Anastasiadis, Simon, Marie-Laure Nauleau, Suzi Kerr, Tim Cox and Kit Rutherford. Forthcoming. Water Quality Management in Lake Rotorua: A Comparison of Regulatory Approaches using the NManager Model.

6. Variables:

- The data is set out in a single large table. Weekly time periods label each of the rows. Sub-catchment names label each of the columns. So each entry gives weekly leaching from a particular sub-catchment.
- The Lake Rotorua catchment was grouped into a series of sub-catchments, based on the location of rivers, as part of ROTAN.
- Total weekly loads are given in the right most column.

7. Additional notes.

This data set is only one of the data sets used to update NMANAGER between December 2010 and January 2011. The update also used Baseline nitrogen export coefficient data for the Lake Rotorua catchment and the parcel data for the Lake Rotorua catchment. These can likewise be found in the data library.