



Baseline Nitrogen Export Coefficients for NManager

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:

Main user of this data was Simon Anastasiadis (simon.anastasiadis@motu.org.nz). Suzi Kerr (suzi.kerr@motu.org.nz) is aware of this dataset.

2. Other contacts for this data:

Data was provided by Tim Cox (t.cox@niwa.co.nz) who develops NManager at NIWA. Kit Rutherford (k.rutherford@niwa.co.nz) is his supervisor if Tim can not be contacted.

3. Data keywords:

Leaching coefficients, nitrogen, NManager, NIWA, Lake Rotorua

4. Dataset abstract:

This data gives the assumed baseline nitrogen leaching per hectare for land in the Lake Rotorua catchment depending on land use. This data set was provided by NIWA as part of the design and building of NMANAGER.

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:

- Land use
 - These are the land use categories that are included in NMANAGER (Though they may be merged where appropriate)
- Area (ha)
 - This is the total land area assigned to each land use within the catchment.
- Yield (kg/ha/yr)
 - This is the quantity of nitrogen leaching from the land into the lake, per hectare per year (in kg)
- Loads (t/yr)

- This is the total quantity of nitrogen arriving at the lake from the catchment per year (in tonnes). It is approximately equal to

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 parcel data for the Lake Rotorua catchment and legacy loads for the historical land use. These can likewise be found in the data library.