



## ROTAN Consistent Parcel Data for NManager

National Institute of Water and Atmospheric Research. Processed  
by Motu Economic and Public Policy 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](mailto:info@motu.org.nz).

### 1. Main Motu contact for this data:

This dataset was constructed by Simon Anastasiadis ([simon.anastasiadis@motu.org.nz](mailto:simon.anastasiadis@motu.org.nz)) for NManager from datasets provided by NIWA. Suzi Kerr ([suzi.kerr@motu.org.nz](mailto:suzi.kerr@motu.org.nz)) knows of this data.

### 2. Other contacts for this data:

See documentation of the source data for its origins

### 3. Data keywords:

Lake Rotorua, NManager, ROTAN consistent

### 4. Dataset abstract:

The data is given in two sheets. The first sheet gives each parcel in the Lake Rotorua catchment, the amount of land assigned to each land use and the regulatory information for the parcel (lag zone & MRT). Combining all three parts of this information is the accomplishment of this data set. Initially we had all this information in three different data sets (R9983, R9982 and R9980). The second sheet compares the data against the numbers we have for ROTAN from NIWA. It also provides land use divided over the lag zones.

### 5. Motu Working Papers using this data set.

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

### 6. Variables:

- Parcel ID
- Land within parcel assigned to each difference land use (ha)  
The land uses are: Dairy, forest, forest\_waipa, lifestyle, pasture (sheep/beef), RLTS, septic tanks, Tikitere, urban, urban open space, water (this is not useful or accurate) and whaka.
- Total parcel area (sum of the individual areas)

- Unique land use – this is the dominant land use in each parcel. It is consistent with the unique land uses provided by Tim Cox in R9980 for all but 10 parcels.
- Lag zone
- MRT (yrs) – the true MRT of the parcel
- Regulatory MRT (yrs) – an approximate MRT so that all parcels in the same lag zone have the same MRT.

#### 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.

See also “Ensuring consistency between NMANAGER and ROTAN.docx”. This documents the process of constructing this data.