Motu

Parcel Data for Lake Rotorua Catchment for NManager

National Institute of Water and Atmospheric Research

Data Documentation
Motu Economic and Public Policy Research

Date accessed/created: December 2010

Motu Ref ID: DDLR9980

Suggested Citation: National Institute of Water and Atmospheric Research. 2010. "Parcel Data for Lake Rotorua Catchment for NManager," obtained by Motu Economic and Public Policy Research in 2010. Restricted dataset, information available online at www.motu.org.nz.
(To include in citation: Data source, publishing/access date. "Data name," obtained by Motu research in date. Restricted dataset, information available online at www.motu.org.nz.)

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: Simon Anastasiadis (simon.anastasiadis@motu.org.nz). Suzi Kerr (suzi.kerr@motu.org.nz) oversaw this work and knows of the 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) oversees his work if Tim can not be contacted.

3. Data keywords:

Parcel data, Lake Rotorua catchment, NManager, NIWA

4. Dataset abstract:

This data gives the land parcels for the Lake Rotorua catchment. This data was derived by NIWA and was provided to Motu 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. Forhtcoming. "Water Quality Management in Lake Rotorua: A Comparison of Regulatory Approaches using the NManager Model."

6. Variables:

For each parcel we have the following variables:

- Parcel_ID
  - o A unique identifier for the parcel
- DomLCDB2ClassName
  - o The land use in the parcel as defined using the Land Cover Database v2
- FirstOfCatch_Name
  - o The name of the sub-catchment the parcel belongs to
- Catchment Number
  - o And its corresponding number
- Lag zone

- o Each parcel is assigned to a lag zone based on its Mean Resonance Time (MRT)
- MRT (yrs)
  - o The (true) MRT of the parcel. These were determined by NIWA using ROTAN.
- Regulatory MRT (yrs)
  - o The MRT assigned to the parcel depending on the lag zone it is in. All parcels in the same lag zone are assigned the same regulatory MRT.
- DomLC
  - o The dominant land useage of the parcel
- Area (ha)
  - o The size of the parcel in hectares
- Export coeff (kg/ha/yr)
  - o The number of kg of nitrogen that is assumed to leach from properties before regulation is introduced. These figures correspond to those in the Baseline nitrogen export coefficients for NMANAGER data set.
- Export (kg/yr)
  - o Total nitrogen exported by the parcel each year. Calcualted as

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 legacy loads for the historical land use. These can likewise be found in the data library.