ROTAN Land Use Data

National Institute of Water and Atmospheric Research

Data Documentation
Motu Economic and Public Policy Research

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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:

Simon Anastasiadis (simon.anastasiadis@motu.org.nz) was the key user of this data. Suzi Kerr (suzi.kerr@motu.org.nz) knows of the 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) is his supervisor if Chris can not be contacted.

3. Data keywords:

Lake Rotorua, ROTAN, land-use map, NManager, NIWA

4. Dataset abstract:

LC_All_R2P68_Clip4 is an ArcGIS feature layer that gives detailed land use for the Lake Rotorua catchment. This map was provided by NIWA. ROTAN, NIWA's catchment water model, works from this map.

5. Motu Working Papers using this data set.

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

6. Variables:

- o Area descriptors (see below)
- o Location (it is a map)

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. These data sets were used in conjunction with parcel data for the Lake Rotorua catchment (R9980) and ROTAN cadastral map (R9983).

See the file: "Ensuring consistency between NMANAGER and ROTAN.docx" for how these three datasets were used.

Area descriptors:

Many of these are assumed. No documentation was provided from NIWA, nor was any asked for. The majority of these descriptors were not used in the analysis.

Descriptor	Example	Meaning
OBJECTID_1	1	
FID_LC_All	1	
FID_LC_A_1	82	
FID_LC_A_2	81	
OBJECTID_2	36	
OBJECTID	3	
LC1940	Sheep	Land use in 1940 as specified by Land Care DB
LC1958	Sheep	As above
LC1986	Sheep	As above
LC1996	SheepBeef	As above
LC2001	SheepBeef	As above
LC2003	Sheep	As above
LC1974	Pasture	As above
LUse2005	Lifestyle lawn	Land use in 2005 (possibly derived from LC)
LU1940	Pasture	As above
LU1958	Pasture	As above
LU1974	SepticTanks	As above
LU1986	SepticTanks	As above
LU1996	SepticTanks	As above
LU2001	SepticTanks	As above
LU2003	SepticTanks	As above
LU2005	SepticTanks	As above
Comment	Hamurana	Subcatchment area?
Area_ha	1.00000000000	An geometric measure (worth recalculating in GIS)
LC_Name	SepticTanks	
RecWater	Morea	Subcatchment area?
CensusArea	Hamurana	Subcatchment area?
FID_Aqu_Ki	2	
ID	3.00000000000	
GRIDCODE	43.00000000000	
Shape_Leng	16000.00000000000	An geometric measure (worth recalculating in GIS)
CompOrder	4	
RecWater_1	Kaharoa	Subcatchment area?
GroupID	19	
Area	6200000.00000000000	An geometric measure (worth recalculating in GIS)
Mean_Elev	100.00000000000	Junk
LU_PreFarm	Forest	
LU2010	SepticTanks	Land use in 2010

FID_Struct	-1	
Id_1	0	
Descript		Blank almost everywhere
LU2015	SepticTanks	Estimate land use in 2015
LU2015_A	SepticTanks	Estimate land use in 2015
Shape_Le_1	400.00000000000	An geometric measure (worth recalculating in GIS)
Shape_Area	10000.00000000000	An geometric measure (worth recalculating in GIS)
LU250hdOld	SepticTanks	Land use for some ROTAN scenarios
LU350ndOld	SepticTanks	Land use for some ROTAN scenarios
LU300ndOld	SepticTanks	Land use for some ROTAN scenarios
LUNgoOld	SepticTanks	Land use for some ROTAN scenarios
LU250hdgwO	SepticTanks	Land use for some ROTAN scenarios
LU170Old	SepticTanks	Land use for some ROTAN scenarios
LU250ndOld	SepticTanks	Land use for some ROTAN scenarios
LU300hdOld	SepticTanks	Land use for some ROTAN scenarios
LU2015_AOl	SepticTanks	Land use for some ROTAN scenarios
LU_250hd	SepticTanks	Land use for some ROTAN scenarios
LU_300nd	SepticTanks	Land use for some ROTAN scenarios
LU_350nd	SepticTanks	Land use for some ROTAN scenarios
area_HA_1	1.00000000000	An geometric measure (worth recalculating in GIS)