

Land Use New Zealand (LUNZ) Map with Slope  
Information

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Data Documentation  
Motu Economic and Public Policy Research

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**Restrictions**

Restricted

Derived data set

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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 welcome at [info@motu.org.nz](mailto:info@motu.org.nz).)

### 1. Abstract

This data set was created by Maribeth Todd. She combined information from the slope map from LENZ and the Land Use New Zealand map (created by Landcare). The attributes of the final map includes all attributes from LUNZ as well as maximum, minimum, median slopes for each polygon (i.e. each sub-farm of LUNZ).

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

Todd, Maribeth and Suzi Kerr. 2009. "Changing Land Cover and Use in New Zealand: How Does It Related to Land-Use Capability and Slope?," *Forthcoming Motu Working Paper*, Wellington, New Zealand.

### 3. Variables

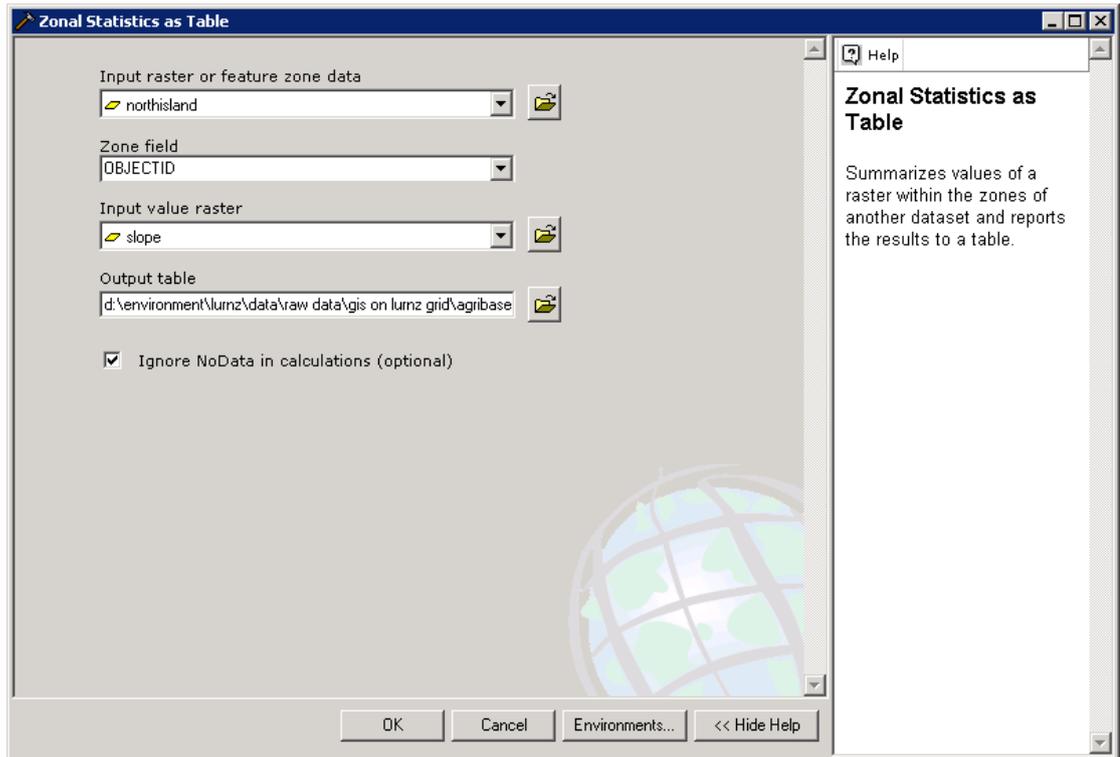
In addition to the original variables from LUNZ, several variables characterizing slope on each polygon are included.

### 4. Additional notes: anything else that may be useful to know

The files **ni\_ag\_slope.shp** and **si\_ag\_slope.shp** contain summary statistics on slope for each Agribase sub-farm shape. They were created in order to look at the geophysical characteristics for Agribase sub-farm shapes in particular land uses/covers or that went through particular land cover transitions.

The underlying slope data comes from the LENZ slope raster in

I used the tool "Zonal Statistics as Table" found under [Spatial Analyst Tools/Zonal](#) in ArcGIS to create a table of summary statistics on slope for each polygon in the Agribase dataset. This table was then joined back to the Agribase polygons by the OBJECTID attribute. The resulting shapefiles were cleaned up so that they only contain the slope statistics and some identifying information for the Agribase polygons, particularly the OBJECTID.



Note: If you have any trouble opening the Spatial Analyst Tools, you may need to turn on the [Spatial Analyst Extension](#). You can do this under the “Tools” menu in ArcMap. Select “Extensions...” and tick the box next “Spatial Analyst” then close the window and try again.