



Stock Exclusion Low Slope Land 2020

Title
StockEx Low Slope Land 2020

Creator
Ministry for the Environment

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Ministry for the Environment

Date
2020

Date
2020-08-05

Description
The Stock Exclusion Low Slope Land 2020 layer identifies areas of "low slope land" as defined in the Resource Management (Stock Exclusion) Regulations 2020. The layer shows the land parcels, or part parcels, defined as low slope land. These areas have a mean slope is less than or equal to 10 degrees. Parcels with a parcel intent of "ROAD" are excluded. Areas of lakes, ponds, settlements and urban parkland, as defined in Land Cover Database 5, are also excluded. Areas of low-slope grassland and annual cropland within high-slope parcels are also included in the Stock Exclusion Low Slope Land extent.

Source
The general steps in the geo-processing methodology to create this dataset were as follows: 1. Starting with LCDB5, an exclusion layer of the built-up areas, open parkland, transport infrastructure and lakes and ponds was created (LCDB5 exclusion layer). 2. The LINZ Primary Parcel layer was converted to single part and Road parcels were removed (Primary Parcel layer). 3. The LCDB5 exclusion layer was erased from the Primary Parcel layer. 4. The Slope layer was calculated in degrees from the MWLR DEM using ERDAS Imagine. 5. The average slope for each primary parcel or part parcel was calculated. 6. All land parcels with a mean slope of less than or equal to 10 degrees were selected (Initial low slope extent). 7. To identify the remaining low slope grazing areas that occur within high slope parcels, all land parcels with a mean slope greater than 10 degrees were selected and clipped to the area of high and low producing grassland, and annual cropland in LCDB5. 8. The mean slopes for these polygons were recalculated and the polygons with a mean slope < 10 degrees elected. These polygons, that represent low-slope pockets within high-slope parcels, were added to the initial low-slope extent to form the All low slope areas layer. 9. This layer was dissolved without creating multipart. 10. Polygons with an area greater or equal to 2 hectares were selected. (Final low slope extent).

Coverage
-48.3 165 -33.6 179

Identifier
<https://data.mfe.govt.nz/layer/104827-stock-exclusion-low-slope-land-2020/>

Type
vector

Language
eng

Subject
New Zealand

Subject
AGRICULTURE-Livestock

Subject
LAND-Use

Subject
farming

Subject
environment