



## MfE Low-slope extent 2019 DEPRECATED

### Metadata

#### File Identifier

da11fb79-8989-9f91-ee55-3fe138aaff1b

#### Language

eng

#### Character Set

##### Character Set Code

utf8

#### Hierarchy Level

##### Scope Code

dataset

#### Hierarchy Level Name

dataset

### Contact

#### Responsible Party

##### Individual Name

Deborah Burgess

##### Organisation Name

Ministry for the Environment

##### Position Name

Senior Analyst

#### Contact Info

##### Contact

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##### Delivery Point

23 Kate Sheppard Place, PO Box 10362

##### City

Wellington 6143

##### Country

New Zealand

##### Electronic Mail Address

lucas@mfe.govt.nz

#### Role

##### Role Code

distributor

### Date Stamp

**Date**

2019-08-29

**Metadata Standard Name**

ANZLIC Metadata Profile: An Australian/New Zealand Profile of AS/NZS ISO 19115:2005, Geographic information - Metadata

**Metadata Standard Version**

1.1

**Reference System Info****Reference System****Reference System Identifier****Identifier****Code**

2193

**Identification Info****Data Identification****Citation****Citation****Title**

MfE Low-slope extent 2019

**Date****Date****Date****Abstract**

This dataset shows land parcels within grassland and annual cropping areas which have an average slope of less than 10 degrees. Polygons are attributed into 3 slope classes: less than 5 degrees mean slope; 5 - 7 degrees mean slope; 7 - 10 degrees mean slope.

**Purpose**

This layer has been developed to support the "Action for Healthy Waterways" consultation published by the Ministry for the Environment in September, 2019. This layer relates to section 8 of that document concerning improving farm practices.

**Status****Progress Code**

completed

**Resource Maintenance****Maintenance Information****Maintenance And Update Frequency****Maintenance Frequency Code**

notPlanned

**Resource Format****Format****Name**

\*.xml

**Version**

Unknown

**Descriptive Keywords**

Keywords

Keyword

New Zealand

Type

Keyword Type Code

theme

Thesaurus Name

Citation

Title

ANZLIC Jurisdictions

Date

Edition

Version 2.1

Edition Date

Date

2008-10-29

Identifier

Identifier

Code

<http://asdd.ga.gov.au/asdd/profileinfo/anzlic-jurisdic.xml#anzlic-jurisdic>

Cited Responsible Party

Responsible Party

Organisation Name

ANZLIC the Spatial Information Council

Role

Role Code

custodian

Descriptive Keywords

Keywords

Keyword

LAND-Use

Keyword

AGRICULTURE-Livestock

Keyword

LAND-Topography

Type

Keyword Type Code

theme

Thesaurus Name

Citation

Title

ANZLIC Search Words

Date

Edition

Version 2.1

Edition Date

Date

2008-05-16

Identifier

Identifier

Code

<http://asdd.ga.gov.au/asdd/profileinfo/anzlic-theme.xml#anzlic-theme>

Cited Responsible Party

Responsible Party

Organisation Name

ANZLIC the Spatial Information Council

Role

Role Code

custodian

Resource Constraints

Legal Constraints

Use Limitation

Creative Commons Attribution 4.0 International by Ministry for the Environment

Access Constraints

Restriction Code

license

Resource Constraints

Legal Constraints

Use Limitation

Creative Commons Attribution 4.0 International by Ministry for the Environment

Use Constraints

Restriction Code

license

Spatial Representation Type Code

vector

Language

eng

Character Set

Character Set Code

utf8

Topic Category Code

farming

Topic Category Code

environment

Extent

EX\_ Extent

Geographic Element

EX\_ Geographic Description

Identifier

Authority

Citation

Title

ANZMet Lite Country codelist

Date

Edition

Version 1.0

Edition Date

Date

2009-03-31

Identifier

Identifier

Code

<http://asdd.ga.gov.au/asdd/profileinfo/anzlic-country.xml#Country>

Cited Responsible Party

Responsible Party

Organisation Name

ANZLIC the Spatial Information Council

Role

Role Code

custodian

Code

nzl

Extent

EX\_ Extent

Geographic Element

EX\_ Geographic Bounding Box

166.89320538953788178.5445163505261-47.26824804643544-34.41799640222569

Distribution Info

Distribution

Distributor

Distributor

Distributor Contact

Responsible Party

Individual Name

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Organisation Name

Ministry for the Environment

Position Name

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Contact Info

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lucas@mfe.govt.nz

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Role Code

distributor

Transfer Options

Digital Transfer Options

On Line

Online Resource

Linkage

URL

<https://data.mfe.govt.nz/layer/103847-mfe-low-slope-extent-2019-deprecated/>

Data Quality Info

DQ \_ Data Quality

Scope

DQ \_ Scope

Level

Scope Code

dataset

Level Description

Scope Description

Other

dataset

Lineage

LI \_ Lineage

Statement

This layer is derived from LINZ parcel data and the Manaaki Whenua - Landcare Research 15m Digital Elevation Model (DEM). This DEM was originally derived from LINZ 20m contours and processed to maximise the accuracy of slope and aspect calculations for use in topographic correction to the spectral reflectance in satellite imagery. A slope layer was derived from the DEM and zonal statistics were calculated for each land parcel (excluding Road and Hydro parcels) to determine the average slope. Parcels with an average slope of less than 10 degrees were selected. This layer was clipped to the extent of low and high-producing grassland and annual cropland (derived from the LUCAS 2016 v006 land use map) and the Public Conservation Land area was removed. Finally, the remaining land parcels were classified into mean slopes of less than 5 degrees, 5 to 7 degrees and 7 to 10 degrees. \*Data Quality\* This layer is likely to have captured some land parcels which have some type of reserve status or other restriction which means that livestock grazing is not permitted. It is therefore likely to be an over-estimate of the land area which would be affected by the proposed stock exclusion regulation. Conversely, some rural land parcels are large and include intensively grazed flat areas and very steep hill-country areas. It is likely that some of these intensively grazed part-parcels will not be covered by the low-slope extent because the average parcel slope is greater than 10 degrees. The DEM used for this slope calculation has been judged to be the best available nationally consistent DEM for identifying low slope areas which are likely to be intensively grazed. It is recognised that the use of a high resolution LiDAR-based DEM would yield a different result and may require the adjustment of slope thresholds to cover the required area of intensive use. As part of the "Action for Healthy Waterways" consultation feedback is being sought on whether the slope threshold for identifying the stock exclusion area should be set at 5, 7 or 10 degrees using this DEM.

\*Attributes\* "id" = LINZ Parcel id; "slope\_mean" = mean parcel slope; "slope\_class" =  
(1\_lteq5: slope\_mean <= 5 degrees) (2\_5to7: slope\_mean between 5 and 7 degrees)  
(3\_7to10: slope\_mean between 7 and 10 degrees)

## Metadata Constraints

### Legal Constraints

#### Use Limitation

Attribution 4.0 International

#### Use Limitation

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### Use Constraints

#### Restriction Code

license