



## NZ Hill Country Winter Forage 2018

### Metadata

#### File Identifier

C41E03E9-B453-49C7-93E5-886A82CA98FD

#### Language

eng

#### Character Set

##### Character Set Code

utf8

#### Hierarchy Level

##### Scope Code

dataset

#### Hierarchy Level Name

dataset

### Contact

#### Responsible Party

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##### Organisation Name

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##### Country

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**Role**

**Role Code**

distributor

**Date Stamp**

**Date**

2019-08-22

**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**

NZ\_Hill\_Country\_Winter\_Forage\_2018

**Date**

**Date**

**Date**

**Abstract**

The dataset maps areas of winter forage cropping and intensive winter grazing occurring in hill country areas during 2018. Hill country is defined as areas where paddocks have an average slope of greater than 7 degrees. Paddocks are classified into crop type and a measure is provided of the proportion of bare ground within the paddock after grazing.

**Purpose**

This hill country winter forage mapping was undertaken to quantify the extent of the issue to support policy development under the Essential Freshwater package.

**Credit**

Manaaki Whenua - Landcare Research

Status

Progress Code

completed

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

### 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

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Role

Role Code

custodian

Code

nzl

Distribution Info

Distribution

Distributor

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Distributor Contact

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Data Quality Info

DQ \_ Data Quality

Scope

DQ \_ Scope

Level

Scope Code

dataset

Level Description

Scope Description

Other

dataset

## Lineage

### LI \_ Lineage

#### Statement

This winter forage mapping is based on a time series of Sentinel-2 satellite imagery captured between 1 September 2017 and 20 November 2018. Scenes within minimal cloud were selected, calibrated and masked for remaining cloud. Using this time series, paddock boundaries were identified from spectral variation. The average slope for each paddock was calculated based on the Manaaki Whenua - Landcare Research 15m digital elevation model (originally derived from LINZ 20m contours). The mapping extent was then constrained to agricultural areas based on LCDB4.1 cropland and grassland classes. The landslide class was also included here. The mapping extent was further restricted to paddocks with an average slope over 7 degrees. Paddocks within the mapping extent were classified into crop type based on imagery acquired in autumn/early winter. Winter forage cropping paddocks and paddocks showing evidence of pasture renewal were retained for further processing. The time series of imagery was then used to determine when/if these paddocks became bare and for how long. These values are included in the data set for each paddock mapped. The mapping process is described more fully in the report published along with this data set : Belliss et al, 2019, Identification of high-risk agricultural activities: national mapping of the location, scale and extent of winter forage cropping and intensive grazing on hill country land, contract report LC3469 prepared for the Ministry for the Environment. A description of the attributes for this data set and their values can be found in Table 9 on page 31 of this report. The 'BSP' attributes included in the attribute table each represent an individual satellite image scene with the attribute values denoting the proportion of bare ground observed in that scene. A value of 0 indicated that that the paddock was visible in the scene but there was no bare ground. A value of 9999 indicates that the paddock was not visible in that scene.