



## Annual rainfall Units: percentage of normal, 2013

### Metadata

#### File Identifier

6b820719-2efa-305c-82c7-303eb59e5b65

#### Language

eng

#### Character Set

##### Character Set Code

utf8

#### Hierarchy Level

##### Scope Code

dataset

#### Hierarchy Level Name

dataset

### Contact

#### Responsible Party

##### Organisation Name

Environmental Reporting, Ministry for the Environment and Statistics New Zealand

##### Position Name

Analyst

#### Contact Info

##### Contact

##### Address

##### Address

##### Delivery Point

23 Kate Sheppard Place, PO Box 10362

##### City

Wellington 6143

##### Country

New Zealand

##### Electronic Mail Address

Environmental.Reporting@mfe.govt.nz

#### Role

##### Role Code

distributor

### Date Stamp

#### Date

2016-01-26

## 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

Annual rainfall Units: percentage of normal, 2013

##### Date

### Abstract

"Annual rainfall is the total accumulated rain over one year. Rain is vital for life, including plant growth, drinking water, river ecosystem health, and sanitation. Floods and droughts affect our environment, economy, and recreational opportunities. This layer shows the annual rainfall as a percentage of normal across New Zealand for 2013 as part of the data series for years 1972 to 2013. Annual rainfall is the total accumulated rain over one year. It is estimated from the daily rainfall estimates of the Virtual Climate Station Network (NIWA). 'Normal' is defined as the average annual rainfall from 1972-2013. This dataset relates to the ""Annual average rainfall"" measure on the Environmental Indicators, Te taiao Aotearoa website. Geometry: raster catalogue Unit: percent

### Status

#### Progress Code

completed

### Point Of Contact

#### Responsible Party

##### Organisation Name

Environmental Reporting, Ministry for the Environment and Statistics New Zealand

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Analyst

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23 Kate Sheppard Place, PO Box 10362

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Role

Role Code

distributor

Resource Maintenance

Maintenance Information

Maintenance And Update Frequency

Maintenance Frequency Code

irregular

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

CLIMATE-AND-WEATHER

Keyword

CLIMATE-AND-WEATHER-Rainfall

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 3.0 New Zealand by Ministry for the Environment

Access Constraints

Restriction Code

license

Resource Constraints

Legal Constraints

Use Limitation

Creative Commons Attribution 3.0

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Restriction Code

copyright

Resource Constraints

Legal Constraints

Use Limitation

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Use Constraints

Restriction Code

license

Language

eng

Character Set

Character Set Code

utf8

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

164.373835631-178.368273496-47.5566512869-33.826801176

## Distribution Info

### Distribution

#### Transfer Options

##### Digital Transfer Options

###### On Line

###### Online Resource

###### Linkage

###### URL

<https://data.mfe.govt.nz/layer/53019-annual-rainfall-units-percentage-of-normal-2013/>

## Data Quality Info

### DQ \_ Data Quality

#### Scope

##### DQ \_ Scope

###### Level

###### Scope Code

dataset

###### Level Description

###### Scope Description

###### Other

dataset

## Lineage

### LI \_ Lineage

#### Statement

Source: National Institute for Water and Atmospheric Research Method: "Annual rainfall Units: percentage of normal was derived from annual rainfall data. Units: percentage of normal was calculated by dividing the annual rainfall for a particular year/the average annual rainfall for all years from 1972-2013. Annual rainfall data records the total accumulated rainfall over a year. It is estimated from the daily rainfall estimates of the Virtual Climate Station Network (NIWA). Virtual climate station estimates are produced every day, for every 25km2 around the country. They use a statistical model to estimate the values between observations made at actual climate stations. This model uses information such as the pattern of annual rainfall to help with the estimations. (NIWA, Tait et al 2005; Tait et al 2006, Tait et al 2012). The New Zealand precipitation values in the Water Physical Stock - surface water components show the total precipitation. The maps in this case study highlight spatial and time variations. The accuracy of the data source is of high quality. References: NIWA (nd). Virtual climate station data and products. Accessed 3 June 2015 from [www.niwa.co.nz](http://www.niwa.co.nz). Tait, A, Henderson, R, Turner, R, & Zheng, XG (2006). Thin plate smoothing spline interpolation of daily rainfall for New Zealand using a climatological rainfall surface. *International Journal of Climatology*, 26(14), 2097-2115. Available from <http://onlinelibrary.wiley.com>. Tait, A, Sturman, J, & Clark, M (2012). An assessment of the accuracy of interpolated daily rainfall for New Zealand. *Journal of Hydrology (New Zealand)*, 51(1), 25-44. Tait, A, & Turner, R (2005). Generating multiyear gridded daily rainfall over New Zealand. *Journal of Applied Meteorology*, 44(9), 1315-1323. Available from <http://journals.ametsoc.org>."

## Metadata Constraints

### Legal Constraints

#### Use Limitation

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##### Restriction Code

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