



## Annual rainfall Units: percentage of normal, 2008

### Metadata

#### File Identifier

87d97e9d-4ebe-f55b-568c-d1e255c8094b

#### 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, 2008  
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 2008 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

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

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

Use Constraints

Restriction Code

copyright

Resource Constraints

Legal Constraints

Use Limitation

Creative Commons Attribution 3.0 New Zealand by Ministry for the Environment

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/53009-annual-rainfall-units-percentage-of-normal-2008/>

## 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 25km<sup>2</sup> 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**

Creative Commons Attribution 3.0 New Zealand by Ministry for the Environment

**Access Constraints**

**Restriction Code**

license

**Metadata Constraints**

**Legal Constraints**

**Use Limitation**

Creative Commons Attribution 3.0 New Zealand by Ministry for the Environment

**Use Constraints**

**Restriction Code**

license