



## River flows

### Metadata

#### File Identifier

5be83c06-9bd7-6a6f-e0f4-849253df6de1

#### 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

2016-02-17

## 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

River flows

##### Date

### Abstract

"River flow refers to the quantity of water passing a point in the river over a certain amount of time. Different rivers have different flow patterns, such as sharp peak flows following rain with low flows in between, or high spring flows from snow melt. These flow characteristics affect how much water is available for irrigation, drinking water, hydro-electric power generation, and recreational activities such as fishing and boating. River flows are also very important for maintaining the health and form of a waterway. This dataset relates to the "Geographic pattern of natural river flows" measure on the Environmental Indicators, Te taiao Aotearoa website. "

### 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

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23 Kate Sheppard Place, PO Box 10362

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##### Country

New Zealand

##### Electronic Mail Address

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

WATER

Keyword

WATER-Hydrology

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

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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

166.433614218178.545978737-47.2829492-34.4010803484

## Distribution Info

### Distribution

#### Transfer Options

##### Digital Transfer Options

###### On Line

###### Online Resource

###### Linkage

###### URL

<https://data.mfe.govt.nz/layer/53309-river-flows/>

## 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 of Water and Atmospheric Research; regional councils Method: "Measuring river flows provides information on water availability for people and the environment. Multiple measures are used to capture a range of characteristics, such the frequency of peak and low flows, and seasonal patterns. Regional Councils and NIWA have measured flows for five or more years at 485 river sites. These sites enable flows to be modelled on every river in New Zealand. These flow statistics are estimates of the long-term or "all-time" background flows, rather than for particular year or time period. They were derived by using models based on flow measurements at the 485 sites, combined with other information such as the predominant land cover in a catchment and the surrounding landscape characteristics, such as climate, elevation, and geology. Actual flows will vary due to shorter-term weather patterns and/or climate trends, and the effect of water takes. These predictions do not represent observed flow regimes for river reaches downstream of large engineering schemes and dams, such as those found on some of New Zealand's larger rivers (e.g. the Waikato, Rangitata, Waitaki, Clutha and Waiau rivers). Observed flow data is usually available from Regional Councils for these large rivers with significant upstream controls. Mean flow measures the average flow of the river. Some rivers have larger flows simply because their catchments are larger. To allow rivers in different sized catchments to be compared we also report specific mean flows, which take out the effect of catchment size. Predicted flow in river segments of size order 3 and above. Specific mean flow adjusts for different catchment areas, as large catchments tend to have rivers with larger flows. Seven-day mean annual low flow (MALF) is the lowest flow week in the average year. This indicates flow stress from an annual dry period. Predicted flow in river segments of size order 3 and above. Specific mean flow adjusts for different catchment areas, as large catchments tend to have rivers with larger flows. Seven-day five year low flow (Q5) is the lowest flow week in five years. This indicates flow stress from a more severe five-year drought. Predicted flow in river segments of size order 3 and above. Specific Q5 flow adjusts for different catchment areas, as large catchments tend to have rivers with larger flows. The accuracy of the data source is of high quality."

## Metadata Constraints

### Legal Constraints

#### Use Limitation

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Metadata Constraints

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Use Limitation

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