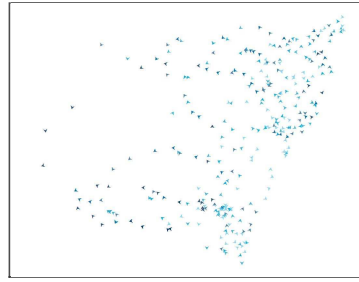


Stream flow long term average (1975-2014)

File Geodatabase Feature Class



Tags

Stream flow, long term average, rivers, NSW

Summary

The 'streamflow average' layer provides the spatial distribution of streamflow measured in streams, rivers or creeks for display at a national scale in the Regional Water Information portal.

Description

The 'streamflow average' map shows how much streamflow has occurred in the streams, rivers or creeks for the long-term period and area chosen. Streamflow is the measured volume of water in streams, rivers, creeks or other channels in time and at a certain location. Streamflow time series data are collected from approximately 3500 measurement stations across Australia are included in this analysis. However only a subset of these stations will be shown for the long-term streamflow analysis, as there are less gauging stations available that contain long-term time series.

The monthly and annual 'streamflow total' maps are based on the daily streamflow data generated as per streamflow data provided to the Bureau of Meteorology. The maps show the streamflow quantities across Australia in the form of a point data set representing the values for gauging stations. Each point represents a gauging station value expressed as the average flow per day within a chosen period.

Annual and monthly long-term maps (July–June) are based on the reference period (July 1975 – June 2014). The 1975 was chosen as a starting period given a good coverage of streamflow gauging stations across the country.

The colours are graded to represent different amounts of streamflow from light blue (small amounts of average streamflow) to dark blue (high streamflow amounts).

Credits

Bureau of Meteorology. Streamflow data as provided by lead water organisations and agencies around the country. Material (pages, documents, online graphs) on this website is subject to copyright.

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Use limitations

Please refer to the 'Resource Constraints' section for limitations of use.

Extent

West 142.268262 **East** 153.498100
North -28.201201 **South** -37.370400

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata ►

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE inlandWaters

* CONTENT TYPE Downloadable Data
EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

THEME KEYWORDS RENEWABLES-Hydro

[Hide Topics and Keywords ▲](#)

Citation ►

TITLE Stream flow long term average (1975-2014)
CREATION DATE 2015-10-15 00:00:00
PUBLICATION DATE 2016-07-25 00:00:00
REVISION DATE 2018-11-30 00:00:00

EDITION 1.3
EDITION DATE 2018-11-30

PRESENTATION FORMATS * digital map
FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

OTHER CITATION DETAILS

It is recommended that this dataset be referred to as:

Wade S.L., Barry C.M., Nelson M.D. & Gammridge L. (compilers) 2018. Renewable energy map of New South Wales, Version 1.3 (Digital Dataset). Geological Survey of New South Wales, Maitland.

Please note the raw data has been sourced from the "Bureau of Meteorology"

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Citation Contacts ►

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CONTACT'S ROLE custodian

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RESPONSIBLE PARTY

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ORGANIZATION'S NAME NSW Resources and Geoscience, Geological Survey of NSW
CONTACT'S ROLE publisher

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ADMINISTRATIVE AREA New South Wales
POSTAL CODE 2320
COUNTRY AU
E-MAIL ADDRESS geoscience.info@geoscience.nsw.gov.au

ONLINE RESOURCE

LOCATION <http://www.resourcesandgeoscience.nsw.gov.au>
NAME NSW Resources and Geoscience website
DESCRIPTION The website of the NSW Department of Planning & Environment, Division of Resources and Geoscience
FUNCTION PERFORMED information

[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

Resource Details ►

DATASET LANGUAGES * English (AUSTRALIA)
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS completed
SPATIAL REPRESENTATION TYPE * vector

* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.4.0.5524

CREDITS

Bureau of Meteorology. Streamflow data as provided by lead water organisations and agencies around the country. Material (pages, documents, online graphs) on this website is subject to copyright.

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ARCGIS ITEM PROPERTIES

* NAME Hydro_Stream_Flow_Long_Term_Average
* SIZE 0.017
* LOCATION file://\Maitlfp11\group\Geosurvey\GeoInfo\GeoSpatial\Products\Mapping\State\NSW Renewables\2019\Online data\RenewablesData.gdb
* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

Extents ►

EXTENT

GEOGRAPHIC EXTENT
BOUNDING RECTANGLE
EXTENT TYPE Extent used for searching
* WEST LONGITUDE 142.268262
* EAST LONGITUDE 153.498100
* NORTH LATITUDE -28.201201
* SOUTH LATITUDE -37.370400
* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM
* WEST LONGITUDE 142.268262
* EAST LONGITUDE 153.498100
* SOUTH LATITUDE -37.370400
* NORTH LATITUDE -28.201201
* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

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CONTACT'S ROLE custodian

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VOICE 03 9669 4082

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CONTACT'S ROLE publisher

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DESCRIPTION The website of the NSW Department of Planning & Environment, Division of Resources and Geoscience
FUNCTION PERFORMED information

[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY unknown

SCOPE OF THE UPDATES dataset

[Hide Resource Maintenance ▲](#)

Resource Constraints ►

LEGAL CONSTRAINTS

LIMITATIONS OF USE

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CONSTRAINTS

LIMITATIONS OF USE

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Spatial Reference ►

ARCGIS COORDINATE SYSTEM

* TYPE Geographic
* GEOGRAPHIC COORDINATE REFERENCE GCS_GDA_1994
* COORDINATE REFERENCE DETAILS
GEOGRAPHIC COORDINATE SYSTEM
WELL-KNOWN IDENTIFIER 4283
X ORIGIN -400
Y ORIGIN -400
XY SCALE 999999999.99999988
Z ORIGIN -100000
Z SCALE 10000
M ORIGIN -100000
M SCALE 10000
XY TOLERANCE 8.9831528411952133e-009
Z TOLERANCE 0.001
M TOLERANCE 0.001

HIGH PRECISION true
LEFT LONGITUDE -180
LATEST WELL-KNOWN IDENTIFIER 4283
WELL-KNOWN TEXT GEOGCS["GCS_GDA_1994",DATUM["D_GDA_1994",SPHEROID
["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT
["Degree",0.0174532925199433],AUTHORITY["EPSG",4283]]

REFERENCE SYSTEM IDENTIFIER

* VALUE 4283
* CODESPACE EPSG
* VERSION 8.3.4(3.0.1)

[Hide Spatial Reference ▲](#)

Spatial Data Properties ►

VECTOR ►

* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME Hydro_Stream_Flow_Long_Term_Average
* OBJECT TYPE point
* OBJECT COUNT 312

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME Hydro_Stream_Flow_Long_Term_Average
* FEATURE TYPE Simple
* GEOMETRY TYPE Point
* HAS TOPOLOGY FALSE
* FEATURE COUNT 312
* SPATIAL INDEX TRUE
* LINEAR REFERENCING FALSE

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

Data Quality ►

SCOPE OF QUALITY INFORMATION ►

RESOURCE LEVEL dataset

[Hide Scope of quality information ▲](#)

[Hide Data Quality ▲](#)

Lineage ►

LINEAGE STATEMENT

- Long-term average of streamflow data was obtained from the Bureau of Meteorology.
- Arrows showing direction of flow were assigned to abovementioned streamflow data points. Indicative streamflow direction was derived from the Surface Hydrology Network Web Map Service hosted by the Australian Bureau of Meteorology.

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Note: This dataset has been reviewed as part of the NSW Renewable Energy Mapping Project update (version 1.3, November 2018), with no updates required.

[Hide Lineage ▲](#)

Distribution ►

DISTRIBUTOR ►

CONTACT INFORMATION

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ORGANIZATION'S NAME NSW Resources and Geoscience, Geological Survey of NSW
CONTACT'S ROLE publisher

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ADMINISTRATIVE AREA New South Wales

POSTAL CODE 2320

COUNTRY AU

E-MAIL ADDRESS geoscience.info@geoscience.nsw.gov.au

ONLINE RESOURCE

LOCATION <http://www.resourcesandgeoscience.nsw.gov.au>

NAME NSW Resources and Geoscience website

DESCRIPTION The website of the NSW Department of Planning & Environment, Division of Resources and Geoscience

FUNCTION PERFORMED information

[Hide Contact information ▲](#)

[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

* NAME File Geodatabase Feature Class

VERSION 10.3.1

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT [Hydro_Stream_Flow_Long_Term_Average](#) ►

* TYPE Feature Class

* ROW COUNT 312

DEFINITION

Long-term average streamflow (megalitres per day)

DEFINITION SOURCE

Bureau of Meteorology

FIELD OBJECTID ►

* ALIAS OBJECTID

* DATA TYPE OID

* WIDTH 4

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Internal feature number.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

[Hide Field OBJECTID ▲](#)

FIELD Shape ►

* ALIAS Shape

* DATA TYPE Geometry

- * WIDTH 0
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
Feature geometry.
- * DESCRIPTION SOURCE
Esri
- * DESCRIPTION OF VALUES
Coordinates defining the features.

[Hide Field Shape ▲](#)

FIELD [Symbol_Rotation ▶](#)

- * ALIAS Symbol rotation
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION
Angle of rotation of arrow (in degrees)
- DESCRIPTION SOURCE
GSNSW

[Hide Field Symbol_Rotation ▲](#)

FIELD [Site ▶](#)

- * ALIAS Site
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION
Streamflow station site number
- DESCRIPTION SOURCE
Bureau of Meteorology

[Hide Field Site ▲](#)

FIELD [Name ▶](#)

- * ALIAS Name
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION
Streamflow station site name
- DESCRIPTION SOURCE
Bureau of Meteorology

[Hide Field Name ▲](#)

FIELD [Latitude ▶](#)

- * ALIAS Latitude
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION
Latitudinal coordinates (in decimal degrees)
- DESCRIPTION SOURCE
Bureau of Meteorology

[Hide Field Latitude ▲](#)

FIELD Longitude ►

- * ALIAS Longitude
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Longitudinal coordinates (in decimal degrees)

DESCRIPTION SOURCE

Bureau of Meteorology

[Hide Field Longitude ▲](#)

FIELD date ►

- * ALIAS Reference period
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

End year of period used for long-term average

DESCRIPTION SOURCE

Bureau of Meteorology

[Hide Field date ▲](#)

FIELD Stream_Flow_Value ►

- * ALIAS Stream flow value (ML/day)
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Precise average stream flow (megalitres per day)

DESCRIPTION SOURCE

GSNSW

[Hide Field Stream_Flow_Value ▲](#)

FIELD class ►

- * ALIAS class
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Grouping of stream flow values in megalitres per day for simplified visual display (e.g. 0-100, 100-250, etc.)

DESCRIPTION SOURCE

Bureau of Meteorology

[Hide Field class ▲](#)

FIELD Stream_Flow_Value_Rounded ►

- * ALIAS Stream flow value rounded (ML/day)
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Average stream flow rounded to nearest whole number (megalitres per day)

DESCRIPTION SOURCE

GSNSW

[Hide Field Stream_Flow_Value_Rounded ▲](#)

[Hide Details for object Hydro_Stream_Flow_Long_Term_Average ▲](#)

[Hide Fields ▲](#)

References ►

PORTRAYAL CATALOGUE CITATION ►

TITLE **Stream flow long term average (1975-2014)**
PUBLICATION DATE 2016-07-25 00:00:00
REVISION DATE 2018-11-30 00:00:00
CREATION DATE 2015-10-15 00:00:00

EDITION 1.3
EDITION DATE 2018-11-30

PRESENTATION FORMATS digital map
FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

OTHER CITATION DETAILS

It is recommended that this dataset be referred to as:

Wade S.L., Barry C.M., Nelson M.D. & Gammridge L. (compilers) 2018. Renewable energy map of New South Wales, Version 1.3 (Digital Dataset). Geological Survey of New South Wales, Maitland.

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[Hide Portrayal catalogue citation ▲](#)

[Hide References ▲](#)

Metadata Details ►

* METADATA LANGUAGE English (AUSTRALIA)
* METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

METADATA IDENTIFIER DBDF65B9-FC21-4426-A303-723C95CED14A

SCOPE OF THE DATA DESCRIBED BY THE METADATA * dataset
SCOPE NAME * dataset

* LAST UPDATE 2019-02-11

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0
METADATA STYLE ISO 19139 Metadata Implementation Specification
STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

CREATED IN ARCGIS FOR THE ITEM 2016-06-21 14:20:40
LAST MODIFIED IN ARCGIS FOR THE ITEM 2019-02-11 15:30:47

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2019-02-11 15:30:47

ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2016-06-22 12:31:56
FROM G:\Geosurvey\GeoInfo\GeoSpatial\Work_in_Progress\Mapping\State_NSW_Renewables\Online\Final online data\Hydro\Shapefiles\Stream_flow_long_term_average_arrows
To \\maitlandfp1\groups\$\Geosurvey\GeoInfo\GeoSpatial\Work_in_Progress\Mapping\State_NSW_Renewables\Online\Final online data\Hydro\Stream_flow_long_term_average_arrows

[Hide Metadata Details ▲](#)

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CONTACT'S ROLE custodian

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NAME NSW Resources and Geoscience website
DESCRIPTION The website of the NSW Department of Planning & Environment, Division of Resources and Geoscience
FUNCTION PERFORMED information

[Hide Contact information ▲](#)

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Metadata Maintenance ▶

MAINTENANCE

UPDATE FREQUENCY unknown

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Metadata Constraints ▶

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Thumbnail and Enclosures ▶

THUMBNAIL

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FGDC Metadata (read-only) ▼