

Title	Water Modelling-Modelled Data-Annual Permitted Take (APT)-Macquarie
Alternative title(s)	APT
Abstract	<p>Annual permitted take (APT) is a critical component of sustainable resource management, balancing the need for water resource utilisation with the preservation of ecosystems. It is a crucial mechanism for ensuring the long-term annual sustainable diversion limits (SDLs) set under the Murray-Darling Basin Plan are not exceeded, and that enough water is available for the environment. APT is the maximum amount of water permitted to be taken for consumptive purposes each year, and has been enforced since July 2019</p> <p>A method for determining APT is part of each water resource plans (WRPs) developed by the Basin states under the Commonwealth Water Act 2007. When the method is applied over the Basin Plan reference period (1895-2009), the annual APT must be equal to or less than SDL.</p> <p>An APT model is a major component of the APT calculation method. It is used to calculate the APT that would be expected in a year, given that year's water availability and climatic conditions. APT is calculated at the end of each year and compared to actual take in that year, with the difference added to a public register of take. SDL compliance is tracked using the cumulative difference (from water year 2019-20).</p> <p>APT models are configured using estimates of the river management and development (public and private infrastructure) conditions in a river system across the water resource plan period. These estimates include:</p> <ul style="list-style-type: none"> • irrigated crop area and planting decisions • water entitlement holders' distribution and use patterns • how storages are operated to supply water for consumption and the environment.
Resource locator	
Data Quality Statement	<p>Name: Data Quality Statement</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Data quality statement for Water Modelling-Modelled Data-Annual Permitted Take (APT)-Belubula</p> <p>Function: download</p>
421019 Cudgegong@YambleBridge	<p>Name: 421019 Cudgegong@YambleBridge</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>The version of the Annual Permitted Take (APT) model as at 10/07/2023 with data covering period from 01/07/1895 to 30/06/2022. From the latest APT model with input data up to 2022. Model is run using IQQM software version 7.101.0 RC1 [REV4052] from 01/01/1889.</p> <p>Function: download</p>
421025 Macquarie@Bruinbun	<p>Name: 421025 Macquarie@Bruinbun</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>The version of the Annual Permitted Take (APT) model as at 10/07/2023 with data covering period from 01/07/1895 to 30/06/2022. From the latest APT model with input data up to</p>

2022. Model is run using IQQM software version 7.101.0 RC1 [REV4052] from 01/01/1889.

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Description:

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[421005 GunningbarCk@BelowRegulator](#)

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[421023 Bogan@Gongolgon](#)

Name: 421023 Bogan@Gongolgon

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[421088 MareboneBreak@DSMareboneRegulator](#)

Name: 421088 MareboneBreak@DSMareboneRegulator

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[Map View for data download](#)

Name: Map View for data download

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

All the gauges are shown in this map (ESRI Rest Map Service Format), and the data can be downloaded by clicking each gauge in the map.

Function: download

Unique resource identifier

Code

4191a464-d9e2-41bf-9c5e-7c9efb5643ee

Presentation form

Document digital

Edition

1.0

Dataset language

English

Metadata standard

Name

ISO 19115

Edition

2016

Dataset URI

<https://datasets.seed.nsw.gov.au/dataset/4191a464-d9e2-41bf-9c5e-7c9efb5643ee>

Purpose

The data set provided contains flows at several gauges in each river system, as simulated by the annually extended APT model. Notwithstanding the model's inherent limitations, these are a fair

representation of those we would expect under current conditions development and operation rules. They can be compared with flows simulated by other key scenario models, such as long-term average annual extraction limit (LTAAEL) model or without development (WOD) model.

Status	Completed
Spatial representation type	None
Spatial reference system	
Code identifying the spatial reference system	4283
Topic category	

Keyword set	
keyword value	WATER WATER-Surface
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
West bounding longitude	145.94
East bounding longitude	150.36
North bounding latitude	-33.95
South bounding latitude	-29.9
NSW Place Name	Macquarie Valley
Vertical extent information	
Minimum value	-100
Maximum value	2228
Coordinate reference system	
Authority code	urn:ogc:def:cs:EPSG::
Code identifying the coordinate reference system	5711
Temporal extent	
Begin position	1895-01-01
End position	N/A
Dataset reference date	
Resource maintenance	
Maintenance and update frequency	Annually
Contact info	
Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Telephone number	131555
Email address	data.broker@environment.nsw.gov.au
Web address	https://www.nsw.gov.au/departments-and-agencies/dcceew
Responsible party role	pointOfContact
Limitations on public access	

Responsible party

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Telephone number	131555
Email address	data.broker@environment.nsw.gov.au
Web address	https://www.nsw.gov.au/departments-and-agencies/dcceew
Responsible party role	pointOfContact

Metadata point of contact

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Web address	https://www.nsw.gov.au/departments-and-agencies/dcceew
Responsible party role	pointOfContact

Metadata date 2024-08-20T22:23:48.431040

Metadata language