

Title	Water Modelling-Modelled Data-Annual Permitted Take (APT)-Murrumbidgee
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"> <li>• irrigated crop area and planting decisions</li> <li>• water entitlement holders' distribution and use patterns</li> <li>• how storages are operated to supply water for consumption and the environment.</li> </ul>
Resource locator	<p><a href="#">Data Quality Statement</a></p> <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> <p><a href="#">410001 Murrumbidgee@Wagga</a></p> <p>Name: 410001 Murrumbidgee@Wagga</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Simulated streamflow from the 2021/22 run of the Murrumbidgee Annual Permitted Take model. Model system file BIDGP103.iqq revsion 326 (run 15 June 2023).</p> <p>Function: download</p> <p><a href="#">410004 Murrumbidgee@Gundagai</a></p> <p>Name: 410004 Murrumbidgee@Gundagai</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Simulated streamflow from the 2021/22 run of the Murrumbidgee Annual Permitted Take model. Model system file BIDGP103.iqq revsion 326 (run 15 June 2023).</p> <p>Function: download</p> <p><a href="#">410005 Murrumbidgee@Narranderra</a></p> <p>Name: 410005 Murrumbidgee@Narranderra</p>

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

Description:

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Function: download

[410006 Tumut@Tumut](#)

Name: 410006 Tumut@Tumut

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

Description:

Simulated streamflow from the 2021/22 run of the Murrumbidgee Annual Permitted Take model. Model system file BIDGP103.iqq revsion 326 (run 15 June 2023).

Function: download

[410007 Yanco@Offtake](#)

Name: 410007 Yanco@Offtake

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

Description:

Simulated streamflow from the 2021/22 run of the Murrumbidgee Annual Permitted Take model. Model system file BIDGP103.iqq revsion 326 (run 15 June 2023).

Function: download

[410008  
Murrumbidgee@Burrinjuck](#)

Name: 410008 Murrumbidgee@Burrinjuck

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

Description:

Simulated streamflow from the 2021/22 run of the Murrumbidgee Annual Permitted Take model. Model system file BIDGP103.iqq revsion 326 (run 15 June 2023).

Function: download

[410015 Yanco@Morundah](#)

Name: 410015 Yanco@Morundah

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

Description:

Simulated streamflow from the 2021/22 run of the Murrumbidgee Annual Permitted Take model. Model system file BIDGP103.iqq revsion 326 (run 15 June 2023).

Function: download

[410016  
Billabong@Jerilderie](#)

Name: 410016 Billabong@Jerilderie

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

Description:

Simulated streamflow from the 2021/22 run of the Murrumbidgee Annual Permitted Take model. Model system file BIDGP103.iqq revsion 326 (run 15 June 2023).

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[410017  
Billabong@Puckawidgee](#)

Name: 410017 Billabong@Puckawidgee

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

Description:

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Function: download

[410018](#)  
[Colombo@Morundah](#)

Name: 410018 Colombo@Morundah

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

Description:

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Function: download

[410021](#)  
[Murrumbidgee@Darlington Point](#)

Name: 410021 Murrumbidgee@Darlington Point

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

Description:

Simulated streamflow from the 2021/22 run of the Murrumbidgee Annual Permitted Take model. Model system file BIDGP103.iqq revsion 326 (run 15 June 2023).

Function: download

[410039 Tumut@Brungle](#)

Name: 410039 Tumut@Brungle

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

Description:

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Function: download

[410073 Tumut@Oddys Bridge](#)

Name: 410073 Tumut@Oddys Bridge

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

Description:

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Function: download

[410078](#)  
[Murrumbidgee@Carrathool](#)

Name: 410078 Murrumbidgee@Carrathool

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

Description:

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Function: download

[410130](#)  
[Murrumbidgee@Balranald Weir](#)

Name: 410130 Murrumbidgee@Balranald Weir

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

Description:

Simulated streamflow from the 2021/22 run of the Murrumbidgee Annual Permitted Take model. Model system file BIDGP103.iqq revsion 326 (run 15 June 2023).

Function: download

[410134 Billabong@Darlot](#)

Name: 410134 Billabong@Darlot

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

Description:

Simulated streamflow from the 2021/22 run of the Murrumbidgee Annual

Permitted Take model. Model system file BIDGP103.iqq revsion 326 (run 15 June 2023).

Function: download

[410136 Murrumbidgee@Hay Weir](#)

Name: 410136 Murrumbidgee@Hay Weir

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

Description:

Simulated streamflow from the 2021/22 run of the Murrumbidgee Annual Permitted Take model. Model system file BIDGP103.iqq revsion 326 (run 15 June 2023).

Function: download

[410148 Forest Creek@Warriston Weir](#)

Name: 410148 Forest Creek@Warriston Weir

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

Description:

Simulated streamflow from the 2021/22 run of the Murrumbidgee Annual Permitted Take model. Model system file BIDGP103.iqq revsion 326 (run 15 June 2023).

Function: download

[410169 Yanco@Yanco Bridge](#)

Name: 410169 Yanco@Yanco Bridge

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

Description:

Simulated streamflow from the 2021/22 run of the Murrumbidgee Annual Permitted Take model. Model system file BIDGP103.iqq revsion 326 (run 15 June 2023).

Function: download

[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	bc667271-f206-4130-85d8-5a4da0a01f15
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Presentation form	Document digital
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Edition	1.0
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Dataset language	English
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## Metadata standard

Name	ISO 19115
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Edition	2016
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Dataset URI	<a href="https://datasets.seed.nsw.gov.au/dataset/bc667271-f206-4130-85d8-5a4da0a01f15">https://datasets.seed.nsw.gov.au/dataset/bc667271-f206-4130-85d8-5a4da0a01f15</a>
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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,
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	such as long-term average annual extraction limit (LTAEL) model or without development (WOD) model.
Status	Completed
Spatial representation type	None
Spatial reference system	
Code identifying the spatial reference system	4283
Topic category	

<b>Keyword set</b>	
keyword value	WATER WATER-Surface
<b>Originating controlled vocabulary</b>	
Title	ANZLIC Search Words
Reference date	2008-05-16
<b>Geographic location</b>	
West bounding longitude	143.2
East bounding longitude	149.58
North bounding latitude	-36.55
South bounding latitude	-33.61
NSW Place Name	Murrumbidgee Valley
<b>Vertical extent information</b>	
Minimum value	-100
Maximum value	2228
<b>Coordinate reference system</b>	
Authority code	urn:ogc:def:cs:EPSG::
Code identifying the coordinate reference system	5711
<b>Temporal extent</b>	
Begin position	1895-01-01
End position	N/A
<b>Dataset reference date</b>	
<b>Resource maintenance</b>	
Maintenance and update frequency	Annually
<b>Contact info</b>	
Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Telephone number	131555
Email address	<a href="mailto:data.broker@environment.nsw.gov.au">data.broker@environment.nsw.gov.au</a>
Web address	<a href="https://www.nsw.gov.au/departments-and-agencies/dcceew">https://www.nsw.gov.au/departments-and-agencies/dcceew</a>
Responsible party role	pointOfContact
<b>Limitations on public access</b>	

## Responsible party

Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Telephone number	131555
Email address	<a href="mailto:data.broker@environment.nsw.gov.au">data.broker@environment.nsw.gov.au</a>
Web address	<a href="https://www.nsw.gov.au/departments-and-agencies/dcceew">https://www.nsw.gov.au/departments-and-agencies/dcceew</a>
Responsible party role	pointOfContact

## Metadata point of contact

Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Telephone number	131555
Email address	<a href="mailto:data.broker@environment.nsw.gov.au">data.broker@environment.nsw.gov.au</a>
Web address	<a href="https://www.nsw.gov.au/departments-and-agencies/dcceew">https://www.nsw.gov.au/departments-and-agencies/dcceew</a>
Responsible party role	pointOfContact

Metadata date 2024-08-20T22:20:00.786464

Metadata language