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| Title  | Water Modelling-Modelled Data-Annual Permitted Take (APT)-Paterson   |
| 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                               |  |
| <a href="#">Data Quality Statement</a>         | <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>  |
| <a href="#">210021 Paterson@DS Lostock Dam</a> | <p>Name: 210021 Paterson@DS Lostock Dam</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>The version of Current Conditions scenario model at 27/02/2023 (combined Hunter/Paterson/Williams model) run on software (IQQMv7.91.6). Data set covers period from 01/07/1895 to 30/06/2022.</p> <p>Function: download</p>  |
| <a href="#">210022 Allyn@Halton</a>            | <p>Name: 210022 Allyn@Halton</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>The version of Current Conditions scenario model at 27/02/2023 (combined Hunter/Paterson/Williams model) run on software (IQQMv7.91.6). Data set covers period from 01/07/1895 to 30/06/2022.</p> <p>Function: download</p>   |
| <a href="#">210079 Paterson@Gostwyck</a>       | <p>Name: 210079 Paterson@Gostwyck</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p>   |

Description:

The version of Current Conditions scenario model at 27/02/2023 (combined Hunter/Paterson/Williams model) run on software (IQQMv7.91.6). Data set covers period from 01/07/1895 to 30/06/2022.

Function: download

[210143 Allyn@Flying Fox Lane](#)

Name: 210143 Allyn@Flying Fox Lane

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

Description:

The version of Current Conditions scenario model at 27/02/2023 (combined Hunter/Paterson/Williams model) run on software (IQQMv7.91.6). Data set covers period from 01/07/1895 to 30/06/2022.

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 abd8a65d-aca0-4a44-88ef-a9a72049655a

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/abd8a65d-aca0-4a44-88ef-a9a72049655a>

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

|  |   |
|--|---|
| <b>Topic category</b>                            |   |
| <b>Keyword set</b>                               |   |
| keyword value                                    | WATER<br>WATER-Surface  |
| <b>Originating controlled vocabulary</b>         |   |
| Title  | ANZLIC Search Words   |
| Reference date                                   | 2008-05-16  |
| <b>Geographic location</b>                       |   |
| West bounding longitude                          | 150.22  |
| East bounding longitude                          | 151.73  |
| North bounding latitude                          | -32.73  |
| South bounding latitude                          | -31.48  |
| NSW Place Name                                   | Paterson 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

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| 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** 2024-08-20T22:23:26.980180

**Metadata language**