Title	Water Modelling-Modelled Data-Annual Permitted Take (APT)-Hunter
Alternative title(s)	APT
Abstract	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 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. 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). 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: • 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	Name: Data Quality Statement Protocol: WWW:DOWNLOAD-1.0-http--download Description: Data quality statement for Water Modelling-Modelled Data-Annual Permitted Take (APT)-Belubula Function: download
210001 Hunter@Singleton	Name: 210001 Hunter@Singleton 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
210002 Hunter@Muswellbrook Bridge	Name: 210002 Hunter@Muswellbrook Bridge 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
210044 Glennies@Middle Falbrook	Name: 210044 Glennies@Middle Falbrook 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
210055 Hunter@Denman	Name: 210055 Hunter@Denman 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
210064 Hunter@Greta	Name: 210064 Hunter@Greta 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
210084 Glennies@The Rocks#2	Name: 210084 Glennies@The Rocks#2 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
210122_Glennies@US Hunter	Name: 210122_Glennies@US Hunter 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	a2b99836-9138-4ae8-ab4a-b92276d803b0
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/a2b99836-9138-4ae8-ab4a-b92276d803b0
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	149.66
East bounding longitude	152.75
North bounding latitude	-33.4
South bounding latitude	-31.27
NSW Place Name	Hunter 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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Responsible party role	pointOfContact

Metadata date

2024-08-20T22:21:55.228999

Metadata language