Title	Water Modelling-Modelled Data-Long-term average annual extraction limit (LTAAEL)-Murrumbidgee
Alternative title(s)	LTAAEL
Abstract	Long-term average annual extraction limit (LTAAEL) is a regulatory limit set on annual water extractions from a river system. It ensures that average extractions over the long term are sustainable, and thus help prevent environmental degradation. In NSW these limits are defined by water sharing plans (WSPs). Every WSP outlines how the water in a river system will be shared over a 10-year period. They also define: • how LTAAEL compliance is to be assessed for each river system • what conditions will trigger noncompliance action • what compliance action can be taken. The Natural Resources Commission regularly reviews all WSPs to ensure extractions from each river system are within the limits set, and the Murray-Darling Basin Authority reviews sustainable diversion limit (SDL) compliance each year. To assess compliance, we model LTAAEL using a model that has been configured to represent the development and management rules defined by a system WSP (this refers to as LTAAEL model). We then compare this modelled LTAAEL with the modelled under current conditions long-term average annual extractions (LTAAEs) (which are usually those modelled by the annual permitted take, or APT, model). Although, the LTAAEL includes multiple types of water use, the compliance assessment is based on the total. We do this annually using the best available models, and the outcomes are published on the DPE website. Where river system's LTAAE exceed LTAAEL, the system is considered noncompliant. If the noncompliance trigger conditions in the WSP are met, noncompliance action is taken. The data set provided contains flows at several gauges in each river system, as simulated by the annually extended LTAAEL model. Notwithstanding the model's inherent limitations, these are a fair representation of those we would expect under WSP operation and development conditions. They can be compared with flows simulated by other key scenario models, such as annual permitted take (APT) model or without development (WOD) model.
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-Long-term average annual extraction limit (LTAAEL) Function: download
410001_Murrumbidgee@Wagga	Name: 410001_Murrumbidgee@Wagga Protocol: WWW:DOWNLOAD-1.0-http--download Description: Simulated streamflow from the 2021/22 run of the Murrumbidgee LTAAEL model. Model system file BIDGP103.iqq revsion 325 (run 6 January 2023). Function: download
410004_Murrumbidgee@Gundagai	Name: 410004_Murrumbidgee@Gundagai

	Protocol: WWW:DOWNLOAD-1.0-http--download Description: Simulated streamflow from the 2021/22 run of the Murrumbidgee LTAAEL model. Model system file BIDGP103.iqq revsion 325 (run 6 January 2023). Function: download
410005_Murrumbidgee@Narranderra	Name: 410005_Murrumbidgee@Narranderra Protocol: WWW:DOWNLOAD-1.0-http--download Description: Simulated streamflow from the 2021/22 run of the Murrumbidgee LTAAEL model. Model system file BIDGP103.iqq revsion 325 (run 6 January 2023). 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 LTAAEL model. Model system file BIDGP103.iqq revsion 325 (run 6 January 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 LTAAEL model. Model system file BIDGP103.iqq revsion 325 (run 6 January 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 LTAAEL model. Model system file BIDGP103.iqq revsion 325 (run 6 January 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 LTAAEL model. Model system file BIDGP103.iqq revsion 325 (run 6 January 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 LTAAEL model. Model system file BIDGP103.iqq revsion 325 (run 6 January 2023).

Function: download

410017_Billabong@Puckawidgee	Name: 410017_Billabong@Puckawidgee Protocol: WWW:DOWNLOAD-1.0-http--download Description: Simulated streamflow from the 2021/22 run of the Murrumbidgee LTAAEL model. Model system file BIDGP103.iqq revsion 325 (run 6 January 2023). Function: download
410018_Colombo@Morundah	Name: 410018_Colombo@Morundah Protocol: WWW:DOWNLOAD-1.0-http--download Description: Simulated streamflow from the 2021/22 run of the Murrumbidgee LTAAEL model. Model system file BIDGP103.iqq revsion 325 (run 6 January 2023). Function: download
410039_Tumut@Brungle	Name: 410039_Tumut@Brungle Protocol: WWW:DOWNLOAD-1.0-http--download Description: Simulated streamflow from the 2021/22 run of the Murrumbidgee LTAAEL model. Model system file BIDGP103.iqq revsion 325 (run 6 January 2023). Function: download
410078_Murrumbidgee@Carrathool	Name: 410078_Murrumbidgee@Carrathool Protocol: WWW:DOWNLOAD-1.0-http--download Description: Simulated streamflow from the 2021/22 run of the Murrumbidgee LTAAEL model. Model system file BIDGP103.iqq revsion 325 (run 6 January 2023). 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 LTAAEL model. Model system file BIDGP103.iqq revsion 325 (run 6 January 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 LTAAEL model. Model system file BIDGP103.iqq revsion 325 (run 6 January 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 LTAAEL model. Model system file BIDGP103.iqq revsion 325 (run 6 January 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 LTAAEL model. Model system file BIDGP103.iqq revsion 325 (run 6 January 2023). Function: download
410021_Murrumbidgee@DarlingtonPoint	Name: 410021_Murrumbidgee@DarlingtonPoint Protocol: WWW:DOWNLOAD-1.0-http--download Description: Simulated streamflow from the 2021/22 run of the Murrumbidgee LTAAEL model. Model system file BIDGP103.iqq revsion 325 (run 6 January 2023). Function: download
410073_Tumut@Oddys_Bridge	Name: 410073_Tumut@Oddys_Bridge Protocol: WWW:DOWNLOAD-1.0-http--download Description: Simulated streamflow from the 2021/22 run of the Murrumbidgee LTAAEL model. Model system file BIDGP103.iqq revsion 325 (run 6 January 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 LTAAEL model. Model system file BIDGP103.iqq revsion 325 (run 6 January 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	89c0386a-14fc-47a5-9869-46ddbac0dffd
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/89c0386a-14fc-47a5-9869-46ddbac0dffd
Purpose	The data set provided contains flows at several gauges in each river system, as simulated by the annually extended LTAAEL model. Notwithstanding the model's inherent limitations, these are a fair representation of those we would expect under WSP operation and development conditions. They can be compared with flows simulated by other key scenario models, such as annual permitted take (APT) 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	143.2
East bounding longitude	149.58
North bounding latitude	-36.55
South bounding latitude	-33.61
NSW Place Name	Murrumbidgee

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

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

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

Metadata date

2024-08-20T22:20:52.046632

Metadata language