

Title	Water Modelling-Modelled Data-Long-term average annual extraction limit (LTAAEL)-Murrumbidgee
Alternative title(s)	LTAAEL
Abstract	<p>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.</p> <p>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:</p> <ul style="list-style-type: none"> • how LTAAEL compliance is to be assessed for each river system • what conditions will trigger noncompliance action • what compliance action can be taken. <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
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-Long-term average annual extraction limit (LTAAEL)</p> <p>Function: download</p>
410001_Murrumbidgee@Wagga	<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 LTAAEL model. Model system file BIDGP103.iqq revsion 325 (run 6 January 2023).</p> <p>Function: download</p>
410004_Murrumbidgee@Gundagai	<p>Name: 410004_Murrumbidgee@Gundagai</p>

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).

[410017_Billabong@Puckawidgee](#)

Function: download

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
revision 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 revision 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 revision 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 revision 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 revision 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-47a5-9869-46ddbac0dff

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-47a5-9869-46ddbac0dff4
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

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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 2024-08-20T22:20:52.046632

Metadata language