Title	Water Modelling-Modelled Data-Long-term average annual extraction limit (LTAAEL)-Barwon-Darling
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
422002_Barwon@Brewarrina	Name: 422002_Barwon@Brewarrina
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	The version of BDL at 28/06/2023 and covers period from 01/07/1895 to 30/06/2022. Based on the superseded version of the base case model (i.e., pre-Floodplain Harvesting work) and software (IQQMv7.96.0).
	Function: download

422003_Barwon@Collarenebri	Name: 422003_Barwon@Collarenebri
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	The version of BDL at 28/06/2023 and covers period from 01/07/1895 to 30/06/2022. Based on the superseded version of the base case model (i.e., pre-Floodplain Harvesting work) and software (IQQMv7.96.0).
	Function: download
422025_Barwon@Tara	Name: 422025_Barwon@Tara
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	The version of BDL at 28/06/2023 and covers period from 01/07/1895 to 30/06/2022. Based on the superseded version of the base case model (i.e., pre-Floodplain Harvesting work) and software (IQQMv7.96.0).
	Function: download
422027_Barwon@Geera	Name: 422027_Barwon@Geera
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	The version of BDL at 28/06/2023 and covers period from 01/07/1895 to 30/06/2022. Based on the superseded version of the base case model (i.e., pre-Floodplain Harvesting work) and software (IQQMv7.96.0).
	Function: download
422028_Barwon@Beemery	Name: 422028_Barwon@Beemery
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	The version of BDL at 28/06/2023 and covers period from 01/07/1895 to 30/06/2022. Based on the superseded version of the base case model (i.e., pre-Floodplain Harvesting work) and software (IQQMv7.96.0).
	Function: download
425004_Darling@Louth	Name: 425004_Darling@Louth
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	The version of BDL at 28/06/2023 and covers period from 01/07/1895 to 30/06/2022. Based on the superseded version of the base case model (i.e., pre-Floodplain Harvesting work) and software (IQQMv7.96.0).
	Function: download
425039_Darling@Warraweena	Name: 425039_Darling@Warraweena
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	The version of BDL at 28/06/2023 and covers period from 01/07/1895 to 30/06/2022. Based on the superseded version of the base case model (i.e., pre-Floodplain Harvesting work) and software (IQQMv7.96.0).
	Function: download
425900_Darling@Tilpa	Name: 425900_Darling@Tilpa

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

Description:

The version of BDL at 28/06/2023 and covers period from 01/07/1895 to 30/06/2022. Based on the superseded version of the base case model (i.e., pre-Floodplain Harvesting work) and software (IQQMv7.96.0).

Function: download

422001_Barwon@DangarBridge

Name: 422001_Barwon@DangarBridge

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

Description:

The version of BDL at 28/06/2023 and covers period from 01/07/1895 to 30/06/2022. Based on the superseded version of the base case model (i.e., pre-Floodplain Harvesting work) and software (IQQMv7.96.0).

Function: download

416050_Barwon@USPresburyWeir

Name: 416050_Barwon@USPresburyWeir

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

Description:

The version of BDL at 28/06/2023 and covers period from 01/07/1895 to 30/06/2022. Based on the superseded version of the base case model (i.e., pre-Floodplain Harvesting work) and software (IQQMv7.96.0).

Function: download

422004_Barwon@MogilMogil

Name: 422004_Barwon@MogilMogil

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

Description:

The version of BDL at 28/06/2023 and covers period from 01/07/1895 to 30/06/2022. Based on the superseded version of the base case model (i.e., pre-Floodplain Harvesting work) and software (IQQMv7.96.0).

Function: download

425003_Darling@BourkeTown

Name: 425003_Darling@BourkeTown

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

Description:

The version of BDL at 28/06/2023 and covers period from 01/07/1895 to 30/06/2022. Based on the superseded version of the base case model (i.e., pre-Floodplain Harvesting work) and software (IQQMv7.96.0).

Function: download

425008_Darling@WilcanniaMainChannel

Name: 425008_Darling@WilcanniaMainChannel

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

Description:

The version of BDL at 28/06/2023 and covers period from 01/07/1895 to 30/06/2022. Based on the superseded version of the base case model (i.e., pre-Floodplain Harvesting work) and software (IQQMv7.96.0).

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	56e33a8a-c53f-43f1-aa6d-9d92a45ba34a

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/56e33a8a-c53f-43f1-aa6d-9d92a45ba34a

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	141.7
East bounding longitude	149.3
North bounding latitude	-34.12
South bounding latitude	-28.7
NSW Place Name	Barwon-Darling 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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Metadata point of contact

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Metadata date
2024-08-20T22:21:35.707160

Metadata language