

Name of dataset or data source:	Water Modelling-Modelled Data-Long-term average annual extraction limit (LTAAEL)
Custodian of the dataset or data source:	Chief Knowledge Officer, Water Knowledge
Description:	<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>
Data quality rating:	<ul style="list-style-type: none"> ★ Institutional Environment - 5 ★ Accuracy - 5 ☆ Coherence - 3 ★ Interpretability - 4 ☆ Accessibility - 2

INSTITUTIONAL ENVIRONMENT**Excellent**

- ✓ The data aligns with the Data Quality Framework, including:
 - Legislation
 - Policies
 - Information Asset Governance
 - Standards
 - Data Management Plans
- ✓ The following governance roles and responsibilities for this asset are clearly assigned:
 - Information Asset Owner
 - Information Asset Custodian
 - Information Steward
- ✓ Data collection is authorised by law, regulation or agreement
- ✓ The Custodial agency has no commercial interest or conflict of interest in the data

ACCURACY

Excellent



- ✓ Data has been subject to a data assurance process (for example: Checking for errors at each stage of data collection and processing, or verifying data entry and making corrections if necessary.)
- ✓ Data is revised and the revision is published if errors are identified
- ✓ There are no known gaps in the data or if there are gaps (for example: non-responses, missing records, data not collected), they have been identified in caveats attached to the dataset.
- ✓ No changes have been made or other factors identified (for example: weighting, rounding, de-identification of data, changes or flaws in data collection or verification methods) that could affect the validity of the data; or any changes/factors have been identified in caveats attached to the asset.
- ✓ The data collection met the objectives of the primary user. The data correctly represents what it was designed to measure, monitor or report.

COHERENCE

Good



- ✓ Standard definitions, common concepts, classifications and data recording practices have been used.
- ✓ Elements within the data can be meaningfully compared.
- ✓ This data is generally consistent with similar or related data sources from the same discipline

- ✗ The data can be analysed over time (for example, there have not been any significant changes in the way items are defined, classified or counted over time).
- ✗ The data does not form part of a collection or, if it is the latest in a series of data releases, there have not been any changes in methodology or external impacts since the last data release.

INTERPRETABILITY

Very Good



- ✓ A data dictionary is available to explain the meaning of data elements, their origin, format and relationships
- ✓ Information is available about the primary data sources and methods of data collection (e.g. instruments, forms, instructions).
- ✓ Information is available to explain concepts, help users correctly interpret the data and understand how it can be used

✓ Information is available to explain ambiguous or technical terms used in the data

✗ Information is available to help users evaluate the accuracy of the data and any level of error

i Find out more about the data dictionary from the Custodian (contact details below).

i Find out more about the primary data sources and methods of data collection from the Custodian (contact details below).

i Find out more about concepts used in this dataset and how to understand or interpret the data from the Custodian (contact details below).

i Find out more about ambiguous or technical terms used in the data from the Custodian (contact details below).

ACCESSIBILITY

Fair



✓ Data is available in machine-processable, structured form (e.g. CSV format instead of an image scan of a table)

✓ Data is available in a non-proprietary format (e.g. CSV, XML)

✗ Data is available online with an open licence

✗ Data is described using open standards (e.g. RDF, SPARQL) and persistent identifiers (URIs or DOIs)

✗ Data is linked to other data, to provide context (e.g. employee ID is linked to employee name or species name is linked to genus)

DATA DISCLAIMER

You must check and comply with the licensing conditions for the information you wish to use. This may require you to contact the Department of Planning and Environment (DPE), or other custodial agency, or the third party copyright owner for permission to use the material. You may also use any material in accordance with rights you may have under the [Copyright Act 1968](#) (Cth), for example under the fair dealing provisions or statutory licences. Use of material in a way not permitted by this copyright notice may be an infringement of copyright. Infringing copyright may expose you to legal action by, and liability to, the copyright owner. Wherever a third party holds copyright in material, the copyright remains with that party. Their permission may be required to use the material and you should contact that party directly. As far as practicable, material for which the copyright is owned by a third party will be clearly labelled. Excluded material can only be used under the specific terms of use attached to that material. If you want to use this material in a manner that is not covered by those specific terms of use, you must request permission from the copyright owner of the material.

DPE endeavours to make sure that information provided is correct at the time of its publication. However, as necessary you should obtain independent advice before making any decision based on the information. The information is made available on the understanding that custodial agencies and the State of NSW accept no responsibility for any damage, cost, loss or expense incurred by you as a result of:

- any error, omission or misrepresentation in the information provided
- without limiting the above, any delay, failure or error in recording, displaying or updating information, including but not limited to, data relating to credit holdings.

Custodial agencies and the State of New South Wales disclaim all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages and costs you might incur as a result of the information being inaccurate or incomplete in any way, and for any reason.

For more information about this dataset or data source, contact:

NSW Department of Climate Change, Energy, the Environment and Water

Data Broker email:

data.broker@environment.nsw.gov.au

Data Broker phone:

131555

Understanding the Data Quality Statement

The data quality statement aims to help you understand how a particular dataset could be used and whether it can be compared with other, similar datasets. It provides a description of the characteristics of the data to help you decide whether the data will be fit for your specific purpose.

The Data Quality statement is prepared by the data custodian (provider of the dataset), using a questionnaire that has been developed in accordance with the NSW Government Standard for Data Quality Reporting.

About the quality rating:

The reporting questionnaire asks five questions for each of these data quality dimensions:

- Institutional Environment
- Accuracy
- Coherence
- Interpretability
- Accessibility

For each question: “yes” = 1 point; “no” = 0 points

The number of points determines the Quality Level for each dimension (high, medium, low).

Only dimensions with four or five points receive a star.

Points	Quality Level	Star / No Star
0	Poor	No Star
1	Poor	No Star
2	Fair	No Star
3	Good	No Star
4	Very Good	Star
5	Excellent	Star

Evaluating data quality

Quality relates to the data's “fitness for purpose”. Users can make different assessments about the data quality of the same data, depending on their “purpose” or the way they plan to use the data.

The following questions may help you evaluate data quality for your requirements. This list is not exhaustive. Generate your own questions to assess data quality according to your specific needs and environment.

- What was the primary purpose or aim for collecting the data?
- How well does the coverage (and exclusions) match your needs?
- How useful are these data at small levels of geography?
- Does the population presented by the data match your needs?
- To what extent does the method of data collection seem appropriate for the information being gathered?
- Have standard classifications (eg industry or occupation classifications) been used in the collection of the data? If not, why? Does this affect the ability to compare or bring together data from different sources?
- Have rates and percentages been calculated consistently throughout the data?
- Is there a time difference between your reference period, and the reference period of the data?
- What is the gap of time between the reference period (when the data were collected) and the release date of the data?
- Will there be subsequent surveys or data collection exercises for this topic?
- Are there likely to be updates or revisions to the data after official release?