



# Groundwater Information



For the first time, decision-makers in industry, government and the community have easy access to comprehensive, nationally consistent information on groundwater across Australia.

## Why aggregate and analyse groundwater information Australia-wide?

Groundwater is major source of water for many urban and rural communities, as well as industry and agriculture. In some places it is the only water available. Groundwater also sustains many rivers and wetlands during dry periods. Nationally consistent groundwater information is needed to underpin national decisions about this precious resource.

## Who can benefit from groundwater information?

The Bureau's suite of groundwater products is valuable to both technical and non-technical users, such as resource managers, farmers, property owners, policymakers, consultants, researchers, scientists and interested public.



## Australian Groundwater Insight

Interpreted national and regional groundwater information ... [Insight](#)



The **Australian Groundwater Insight** is a user-friendly map portal designed for non-experts in government, policy development and the general public.

The Insight shows hydrogeological information alongside information about licences, entitlements, bore density and groundwater management areas. The Insight also presents trends in groundwater levels over time and recent groundwater levels compared to the long-term average.

It's a valuable tool for non-experts as it provides background information that can be used to understand groundwater at a particular location or across Australia. It's also mobile friendly. For example, a farmer looking to find out about groundwater on their property could look up information on management areas, groundwater entitlements and groundwater level trends and status, all of which would be returned for the GPS location of their mobile device.

To find out more about this product go to [www.bom.gov.au/water/groundwater/insight](http://www.bom.gov.au/water/groundwater/insight)

## Australian Groundwater Explorer

Bore data visualisation, selection and download ... [Explorer](#)



The **Australian Groundwater Explorer** is a sophisticated mapping portal for visualising and analysing groundwater data from more than 800 000 bores. The interactive map allows you to explore the national dataset of groundwater information, tailor searches for specific information and view bore logs and 3D aquifers. Water level and salinity data are available as tables and graphs.

Data can be downloaded in several formats: ESRI File Geodatabase, CSV, ESRI Shapefile and KML.

The Explorer is a valuable tool for technical experts in government, research, education and industry sectors. For example, a consultant can easily access standardised groundwater data to use in an environmental impact assessment of a mining application.

To find out more about the Explorer go to [www.bom.gov.au/water/groundwater/explorer](http://www.bom.gov.au/water/groundwater/explorer)

## Groundwater Dependent Ecosystems Atlas

National inventory of groundwater dependent ecosystems ... [Atlas](#)



The **Groundwater Dependent Ecosystems Atlas** is another mapping portal, providing a comprehensive national inventory of ecosystems that depend on groundwater. It presents the location and detailed ecological and hydrogeological information about these important ecosystems.

It includes ecosystems that rely on the surface expression of groundwater, such as rivers, wetlands and springs; those that rely on subsurface groundwater including vegetation ecosystems; and subterranean ecosystems, such as caves and aquifers (Tasmania only).

The Atlas is a valuable source of information for experts in government, research and industry sectors who work with ecosystems. It supports the consideration of ecosystem groundwater requirements in natural resource management, water planning and environmental impact assessment. For example, a researcher could use the data to model the impact of groundwater salinity on wetlands.

To find out more about the Atlas go to [www.bom.gov.au/water/groundwater/gde](http://www.bom.gov.au/water/groundwater/gde)

## National Groundwater Information System

Spatial groundwater database for GIS specialists ... [Information System](#)



The **National Groundwater Information System** is a database of spatial information on more than 800 000 bores and their attributes—such as purpose, water level and date they were drilled. The database also includes logs of their lithology, construction and hydrostratigraphy.

The data are sourced from State and Territory databases and have been standardised to be nationally consistent. For example, the National Aquifer Framework, developed by the Bureau, has been used to consistently name and group hydrogeologic units.

The database has been designed for GIS specialists who need access to the full dataset. The files are in ESRI File Geodatabase format and require ESRI ArcGIS 10 or above.

The data is also represented in an interactive mapping portal that doesn't require specialist software in the Australian Groundwater Explorer, outlined above.

To find out more about the NGIS go to [www.bom.gov.au/water/groundwater/ngis](http://www.bom.gov.au/water/groundwater/ngis) or to request the current data, write to [groundwater@bom.gov.au](mailto:groundwater@bom.gov.au)

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