

## Broken Groundwater Management Area

The Broken Groundwater Management Area (GMA) extends from the upper catchment near Mansfield, north to Tungamah and incorporates the towns of Benalla, Glenrowan and Dookie (shown on map overleaf).

### Groundwater resources

Groundwater resources within the GMA occur in either fractured bedrock aquifers, shallow shoestring sands of the Shepparton Formation, or deep gravel and sands of the Deep Lead. Charts showing groundwater levels and rainfall are provided overleaf.

In 2019/20 groundwater levels in the Shepparton Formation aquifer continued to fluctuate in response to climatic conditions.

The Deep Lead and bedrock aquifers continue to follow a steadily rising trend.

### Groundwater licensed volume and use

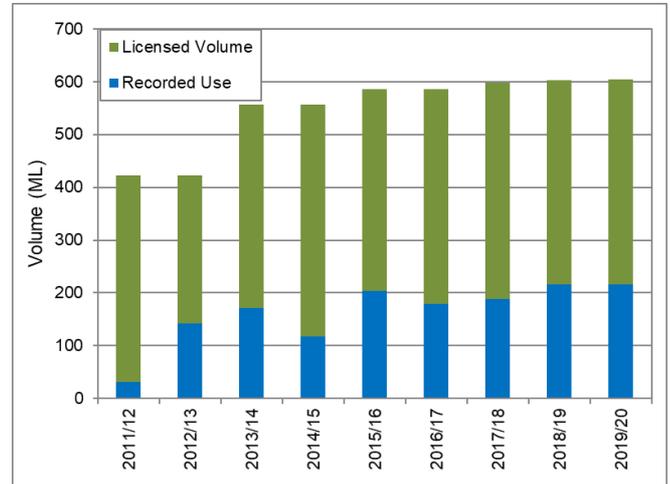
There is currently 2,993.0 megalitres per year (ML/yr) of groundwater licensed entitlement volume (licensed volume) in the GMA (Table 1). Licensed volume in the GMA is limited by a permissible consumptive volume (PCV) of 3,732.0 ML/yr.

**Table 1 Licensed volume and recorded use in the Broken GMA**

| Management zone           | Licensed volume (ML/yr) | Recorded use (ML) |
|---------------------------|-------------------------|-------------------|
| Broken Sedimentary Plains | 1,082.0                 | 103.4             |
| Broken Highlands          | 1,911.0                 | 405.4             |
| <b>Total</b>              | <b>2,993.0</b>          | <b>508.8</b>      |

Recorded use in the GMA in 2019/20 was 508.8 ML, which is 17 per cent of total licensed volume (Table 1).

Groundwater use decreased by five per cent in the GMA compared to 2018/19 (Figure 1), likely attributed to an increase in rainfall.



**Figure 1. Annual recorded use as a proportion of licensed volume in the Broken GMA**

### Groundwater trading

Licence holders may transfer licensed volume on a temporary or permanent basis within or between management zones in the Broken GMA and other Groundwater Management Units, provided that it accords with rules outlined in the Local Management Plan.

One permanent trade of 95 ML/yr occurred in 2019/20, into the Broken Sedimentary Plains Zone from the Mid Goulburn GMA.

#### Looking to buy or sell licensed volume?

Watermatch is an online forum where licence holders can advertise their interest to buy or sell licensed volume; either groundwater or unregulated surface water.

Visit [www.watermatch.com.au](http://www.watermatch.com.au)

Transferring licensed volume can provide an opportunity to generate income from unused entitlement for sellers, or increase production for buyers.

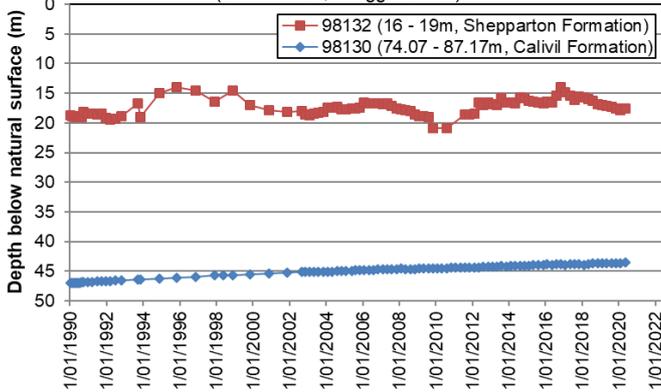
#### Where can I get more information?

You can download a copy of the Broken GMA Local Management Plan from the Goulburn-Murray Water website [www.gmwater.com.au](http://www.gmwater.com.au) or phone GMW on 1800 013 357.

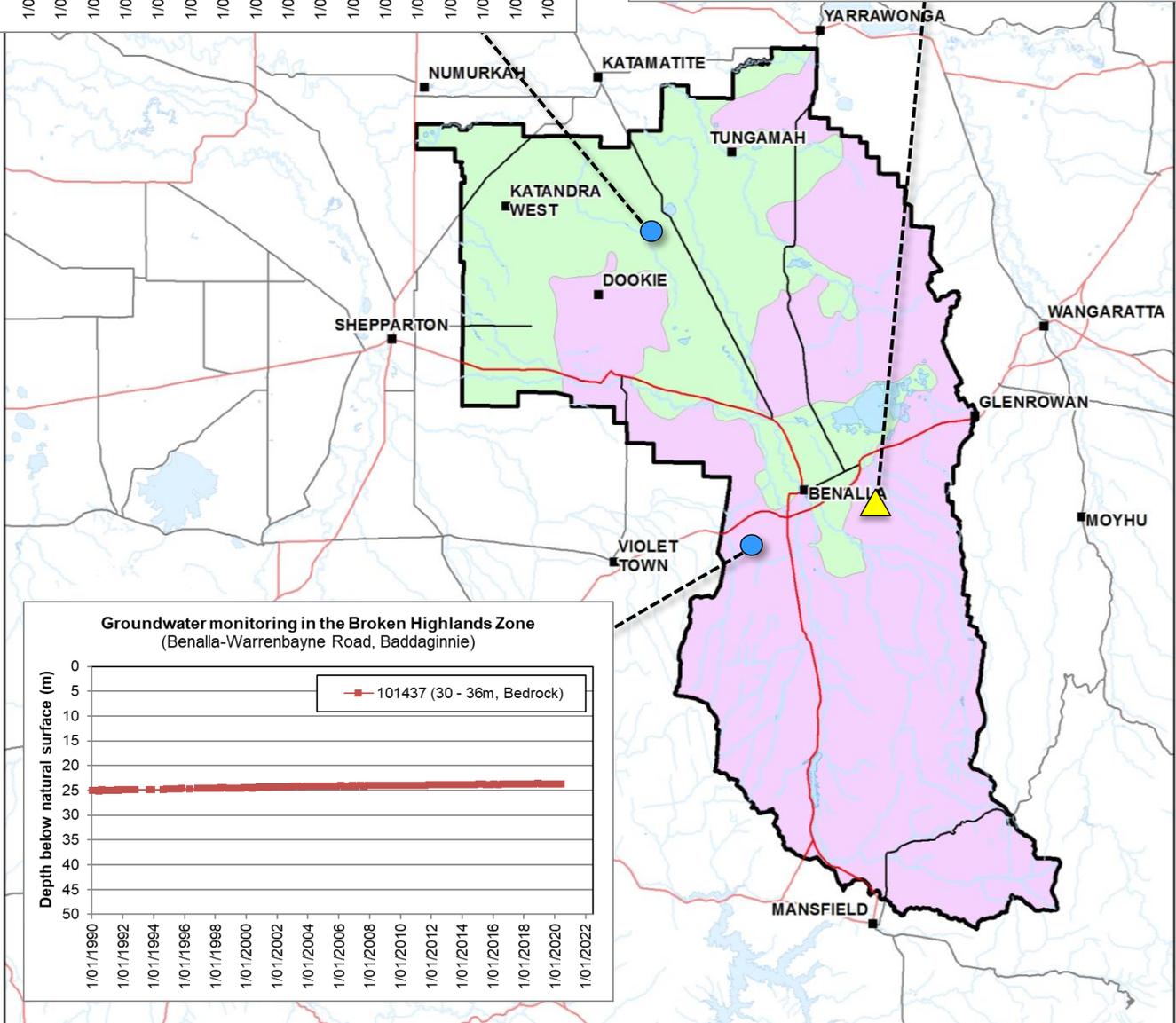
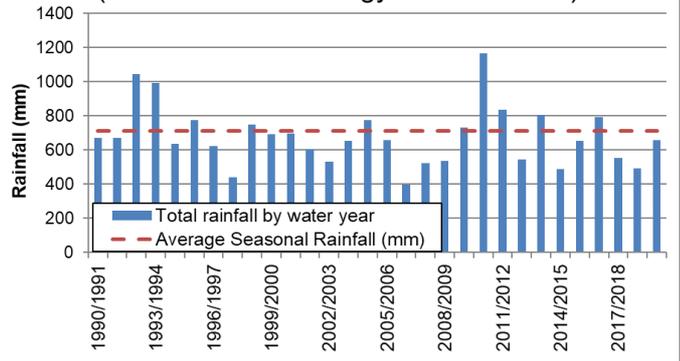
# BROKEN GROUNDWATER MANAGEMENT AREA

GOULBURN-MURRAY WATER

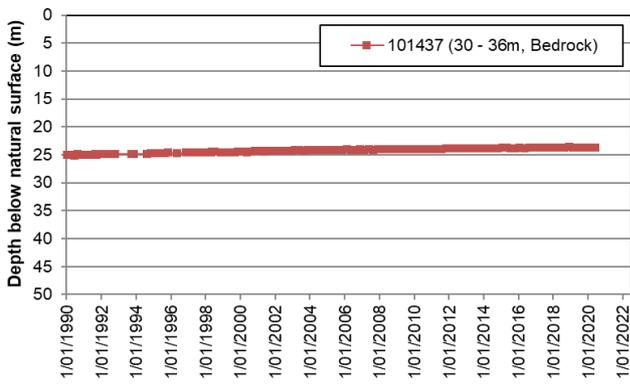
**Groundwater monitoring in the Broken Sedimentary Plains Zone**  
(Dillon Road, Waggarandall)



**Rainfall monitoring at Molyullah**  
(Bureau of Meteorology Station 82109)



**Groundwater monitoring in the Broken Highlands Zone**  
(Benalla-Warrenbayne Road, Baddaginnie)



**GOULBURN-MURRAY WATER**  
IR285503  
28 Aug 2017

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**Legend**

- Freeway/ Highway
- Major Road
- Waterway
- Waterbody
- Broken GMA
- Management Zones
  - Broken Highlands
  - Broken Sedimentary Plain

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