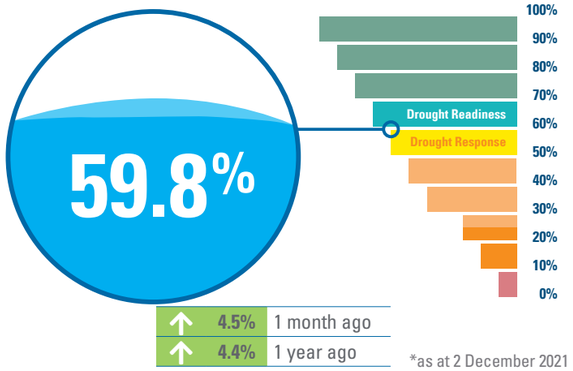
WATER SECURITY STATUS REPORT November 2021

seqwater
WATER FOR LIFE

Overall water security position



*as at 2 December 2021

The SEQ Water Grid storage levels have increased this month due to recent rainfall which has resulted in the filling of many of the region's smaller storages.

South East Queensland's largest storages, Wivenhoe and Somerset Dam – which combined make up about 70% of the region's water supply – continue to be the areas of interest, as their combined storage level is 48.4%. Recent rainfall has wet the dam catchments enough to produce runoff which is continuing to flow into dam storages and add to storage volumes daily.

As we enter the traditional wet season, above average rainfall is forecast to continue over the coming months, with the BOM confirming La Niña conditions present in the tropical Pacific.

Wivenhoe/Somerset

Full supply capacity	1,545,089 ML†
Current capacity	747,823 ML

↑ 3.0%	1 week ago
↑ 3.6%	1 month ago
— 0.0%	1 year ago

†combined dam levels

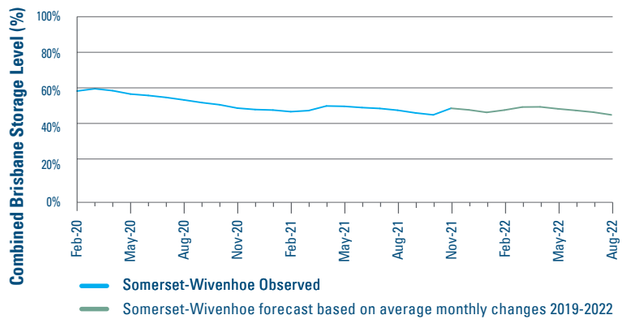
STORAGE LEVEL 48.4%

Baroon Pocket	North Pine (Lake Samsonvale)	Hinze
85.0%	67.2%	98.3%

Purified Recycled Water (PRW) continues to be supplied to industry, substituting water that otherwise would have been taken from Wivenhoe Dam. This initiative is helping us to preserve the Grid water supply. Over 4,496 ML has been supplied to industry since SEQ entered drought response in 15 September 2020.

Two additional trains at Luggage Point Advanced Water Treatment Plant are currently being recommissioned to triple the supply of PRW available to industry; reducing the demand on the Grid further.

Wivenhoe and Somerset future levels should recent conditions repeat

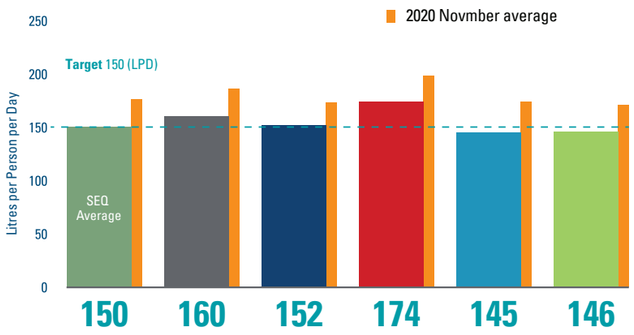


Average daily residential consumption

Wet weather experienced across the region in November resulted in a lower average daily consumption of 150 litres per person per day (LPD) this month compared with last month (October average was 162 LPD).

Based on the current Grid level, we continue to operate in drought response mode and Seqwater continues to encourage the community to be water efficient.

It is recognised that recent increases in the Water Grid storage level means that the likelihood of the Grid reaching 50% in the short-term is unlikely, however Seqwater and the Water Service Providers will continue to prepare for potential water restrictions in the event they are required for the 2022 dry season.



*Data range is 28/10/2021 to 24/11/2021 and 29/10/2020 to 25/11/2020

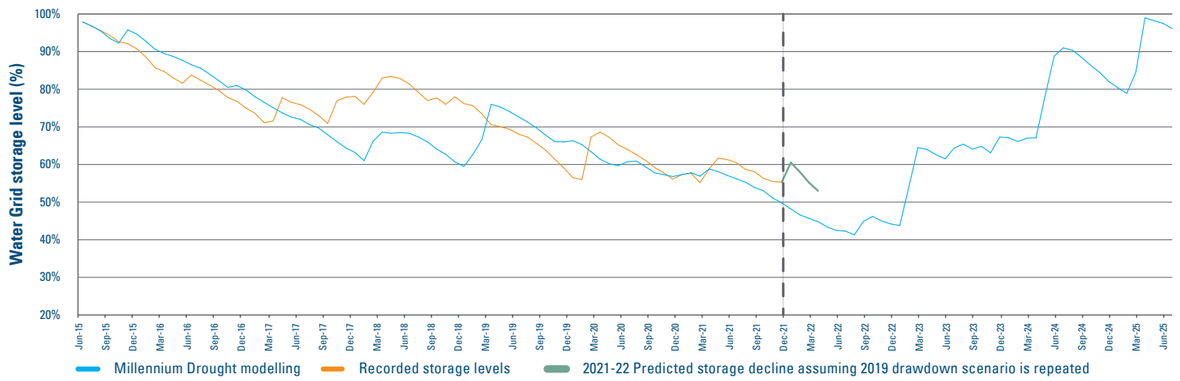
Water Grid storage

Water Grid storage actual draw down to the start of December 2021 with projected drawdown to March 2022

The SEQ Water Grid drawdown graph below shows historical storage data and a projected five month drawdown if the rate observed during the dry calendar year of 2019 was repeated[1]. Due to recent rainfall, drawdown projections have improved from last month. The Water Grid storage could reach 50% in July 2022 if dry conditions, as observed in 2019, were to continue from December onwards.

The 2019 data is used because it was a particularly dry year, however it is noted that a repeat of these conditions is considered unlikely at this stage based on recent continuing rainfall and current forecasts. The Millennium Drought is also shown on the following graph, adjusted with today's demand, current Grid and drought response plan to compare drawdowns over an extended drought period.

1. This projected drawdown does not account for adjustments to demand and supply conditions due to operation of the Gold Coast Desalination Plant.



End of month storage decline assuming a repeat of the particularly dry 2019 year (2020 data not used):

Dec 21 - 60.5% | Jan 22 - 58% | Feb 22 - 55.2% | Mar 22 - 53%

The Southern Regional Water Pipeline has consistently operated in the northern direction and the Northern Pipeline Interconnector has consistently operated in the southern direction for this month.

The Gold Coast Desalination Plant continues to operate to slow the drawdown of dam storages. Since Drought Response was initiated 15 September 2020, the desalination plant has contributed over 24,313 ML to the Grid.

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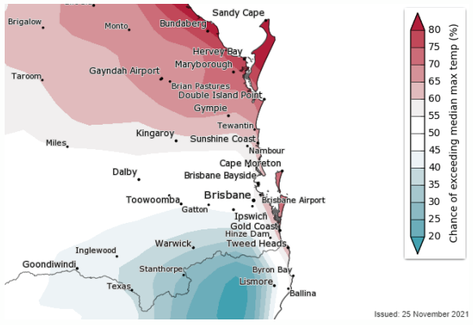
Weather outlook

Temperature

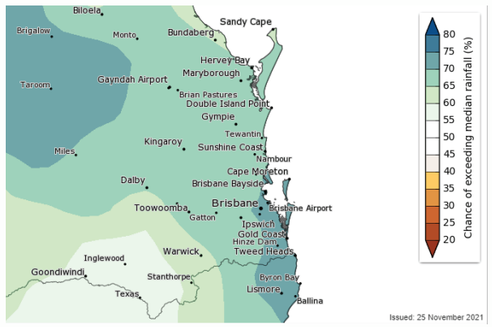
The Bureau of Meteorology (BOM) outlook is that there is a 40-75% chance of exceeding median maximum temperature December 2021 to February 2022.



http://www.bom.gov.au/climate/outlooks/#/temperature/maximum/median/seasonal/0

Rainfall

The BOM outlook is that there is a 65-75% chance of exceeding median rainfall December 2021 to February 2022.



http://www.bom.gov.au/climate/outlooks/#/rainfall/median/seasonal/0

*as at 25 November 2021

Likelihood of grid levels improving in the short term

Rainfall coupled with milder temperatures experienced across the region this month have provided improvements to SEQ Water Grid storage levels. In addition, runoff from recent and ongoing rainfall events continues to flow into storages as we enter December.

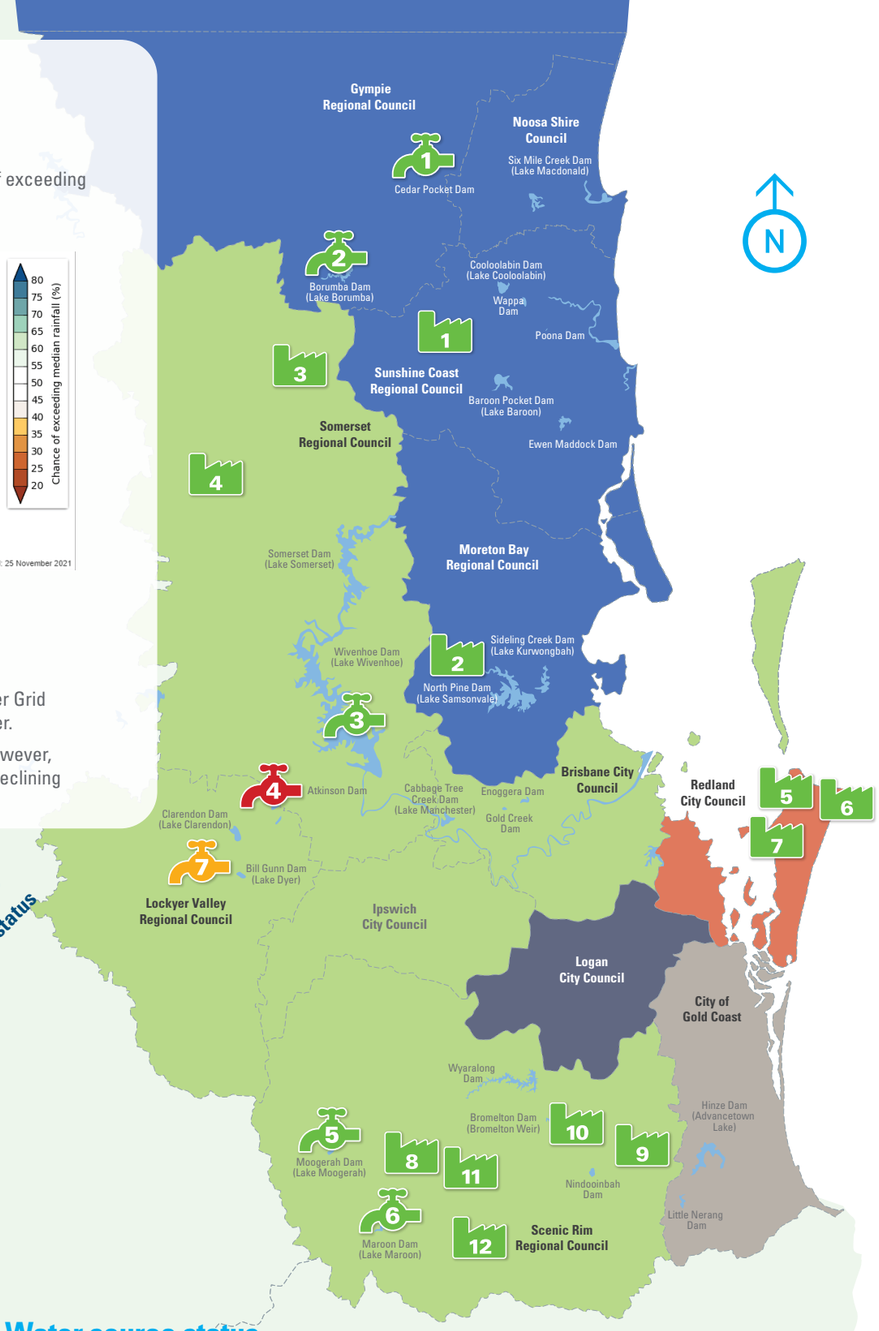
It is considered likely that Grid levels will continue to improve in the short-term based on the current BOM weather outlook. However, the longevity and extent of these. Improvements is uncertain. Seqwater and the Water Service Providers continue to plan for declining Water Grid Storage levels.

Off-grid community drought status

The SEQ Water Grid allows us to move treated drinking water around the region. Off-grid communities are not connected to the SEQ Water Grid. Similar to the Grid, continued improvement in off-grid water source levels is expected over the coming days due to recent rainfall.

This data has been updated as at 2 December 2021

			Water source status	Restriction status
Sunshine Coast Regional Council				
1	**Kenilworth**	Mary River at Bellbird Creek flow: ~ 3,039 ML/day	●	●
Moreton Bay Regional Council				
2	**Dayboro**	Groundwater Well No 1 standing water level: 41.09 m AHD	●	●
Somerset Regional Council				
3	**Jimna**	Yabba Creek flow: water flowing over the Big Hole Weir	●	●
4	**Linville**	Brisbane River at Linville: ~ 23,385 ML/day	●	●
Redland City Council				
5	**Amity Point**			
6	**Point Lookout**	North Stradbroke Island Groundwater standing water level: 17.50 m AHD*	●	●
7	**Dunwich**			
Scenic Rim Regional Council				
8	**Kalbar** (Boonah, Aratula and Mount Alford)	Moogerah Dam storage level: 67.6%	●	●
9	**Canungra**	Canungra Creek flow: ~ 1,416 ML/day	●	●
10	**Beaudesert**			
11	**Kooralbyn**	Maroon Dam storage level: 108.7%	●	●
12	**Rathdowney**			



Water source status

- Source meeting demand
- Approaching water carting
- Supplementary carting
- Full carting

Restrictions status

- Water efficiency awareness
- Voluntary conservation
- Medium level water restrictions
- High level water restrictions or greater

*The bore chosen has the most reliable and up-to-date data that can be continuously monitored.

Water supply scheme status

Seqwater supplies water to rural landholders and businesses that are licensed to take water from dams and waterways via water supply schemes. The amount of water that can be extracted by licensed irrigators varies according to local water conditions. In times of drought or low flows, irrigation entitlements may be restricted or suspended.

Additional inflow is expected due to the recent rain events and some announced allocations may increase in the coming days.

This data has been updated as at 2 December 2021

Full allocation | Restricted | Suspended

1 Cedar Pocket Water Supply Scheme

Cedar Pocket Dam currently 103.6% (up 29.7% from last month)

Announced allocations Medium Priority 100%

2 Mary Valley Water Supply Scheme

Borumba Dam currently 103.4% (up 28.6% from last month)

Announced allocations Medium Priority 96% (also supplies high priority)

3 Central Brisbane Water Supply Scheme

Wivenhoe Dam/Somerset Dam currently 48.4% (up 3.6% from last month)

Announced allocations Medium Priority 85% (also supplies high priority)

4 Lower Lockyer Water Supply Scheme

Atkinson Dam currently 12.7% (up 9.4% from last month)

Announced allocations Medium Priority 0%

5 Warrill Valley Water Supply Scheme

Moogerah Dam currently 67.6% (up 28.1% from last month)

Announced allocations Medium Priority 100% (also supplies high priority)

6 Logan River Water Supply Scheme

Maroon Dam currently 108.1% (up 10.0% from last month)

Announced allocations Medium Priority 100% (also supplies high priority)

7 Central Lockyer Water Supply Scheme

Clarendon Dam & Bill Gunn Dam currently 8.29% (up 6.46% from last month)

Announced allocation (surface water) Morton Vale 0%, Medium Priority 0% (all zones)

Announced allocation (groundwater) Medium Priority 80%, Low Priority 60%

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