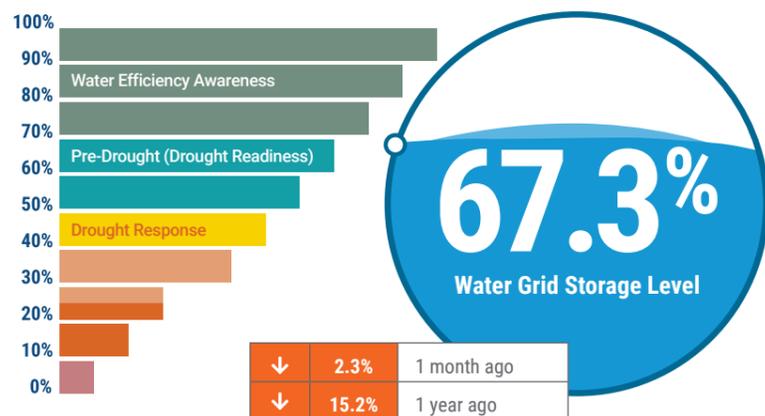


# WATER SECURITY STATUS REPORT October 2023

## Overall water security position



\*as at 31 October 2023

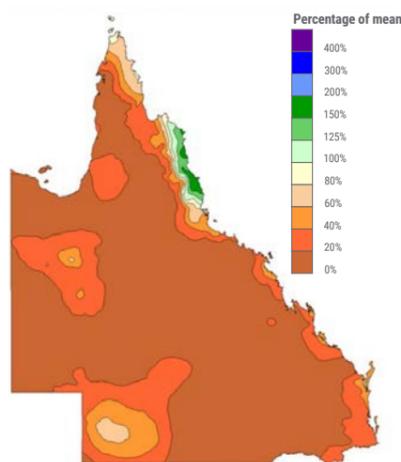
The Bureau of Meteorology officially declared an El Nino weather event on 19th September, following a hot dry winter and a warmer than average September. An El Nino and positive Indian Ocean Dipole (IOD) continue to be underway.

Rainfall during October was well below average, and maximum temperatures well above average. Due to these hot dry conditions and material increases in demand (up 15% on September), the SEQ Water Grid level has continued to steadily decline. Storage levels dropped below 70% on 24th September triggering the Pre-drought (Drought Readiness) phase of the SEQ Drought Response Plan. Given the low likelihood of exceeding average rainfall over the next 3 months (35-50%), and the increasingly dry catchments the trend of decreasing Grid levels looks likely to continue.

Three off-grid communities are currently being monitored due to reduced source water. Kenilworth entered Drought Readiness mode on the 29th October. Canungra is also in Drought Readiness mode due to continued dry conditions. Dayboro entered Drought Response mode on the 17th October triggering preparations for water conservation measures and potential water carting. All three communities continue to be closely monitored, with drought response planning underway.

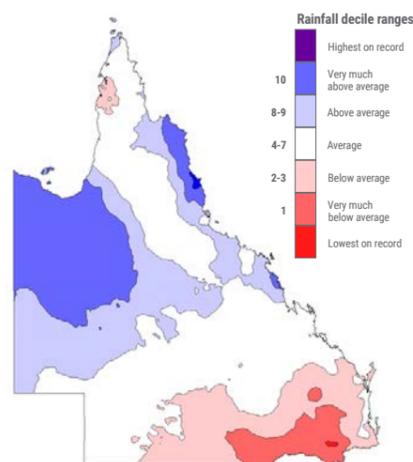
## Queensland rainfall percentages

01 August 2023 to 31 October 2023  
Australian Gridded Climate Data



## Queensland rainfall deciles

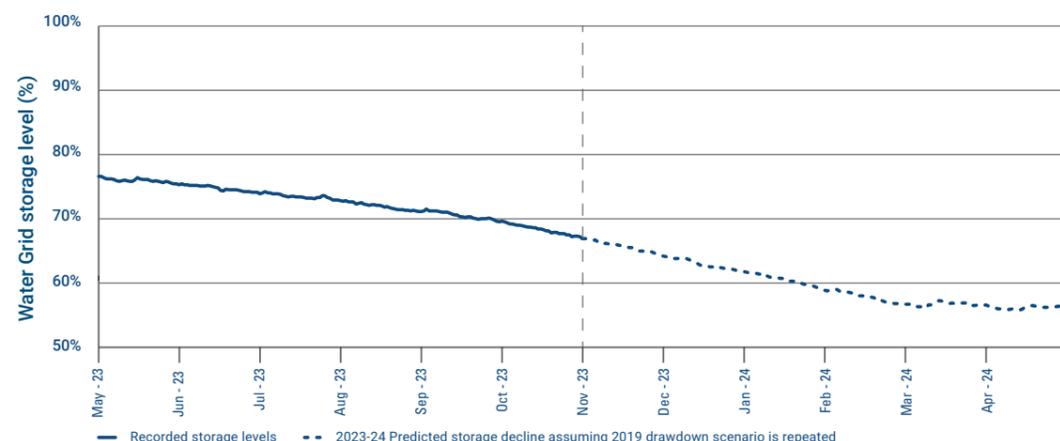
01 August 2023 to 31 October 2023  
Australian Gridded Climate Data



## Water Grid storage

With an El Nino event continuing throughout this spring, the Bureau of Meteorology's outlook is for dry conditions for the next 3 months. If very dry conditions occur (similar to the very dry year of 2019) forecast storage levels indicate the South East Queensland region could reach 60% SEQ Water Grid storage level by the end of January 2024.

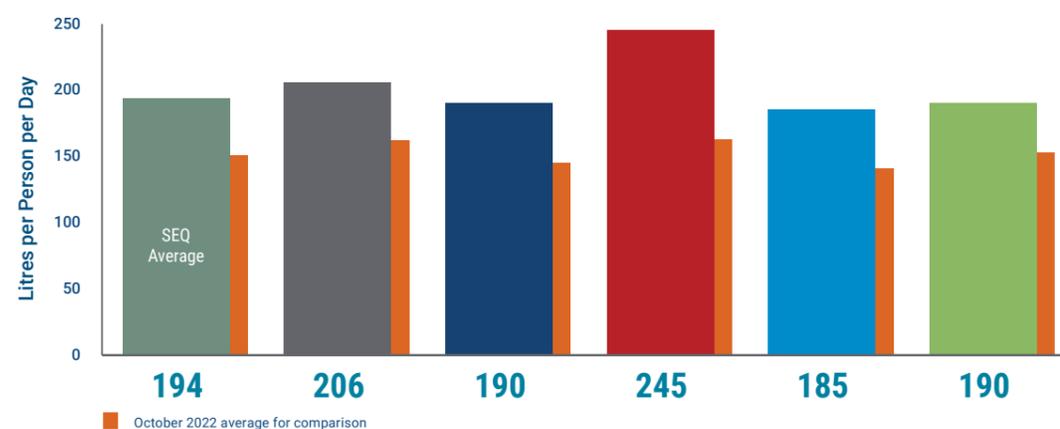
The soil moisture level in the Wivenhoe Dam catchment dipped below 5% in early October this year and has remained at very low levels since. The last time soil moisture was this low for an extended time period was at the end of 2019. For comparison, this time last year the soil moisture level was between 30% and 40%. Low soil moisture level results in higher rainfall required to generate inflows into our storages.



## Average daily residential consumption

Average residential consumption in October was 194 litres per person per day (LPD), a 20 LPD increase on the September consumption rate, and a 43 LPD increase compared to the same time last year.

\*Date range is 28/09/2023 - 25/10/2023 and 29/09/2022 - 26/10/2022



## Did you know?

From 1 November the Gold Coast Desalination Plant (GCDP) will ramp up production to preserve South East Queensland's dam levels. This facility is playing a crucial role supplying water across the southeast. At full capacity the GCDP can supply more than 10% of South East Queensland's daily water demand, pumping as much as 133 ML into the grid in a day.

## Water Grid operation

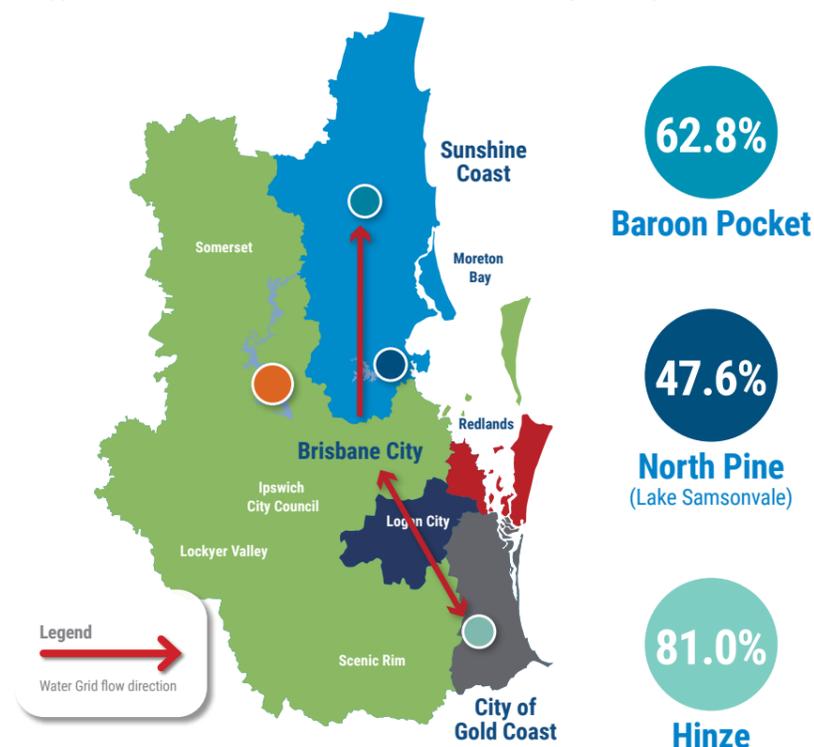
The Southern Regional Water Pipeline has primarily operated in the dual flow direction and the Northern Pipeline Interconnector has primarily operated in a northerly direction this month.

## Purified Recycled Water

Seqwater is continuing to provide Purified Recycled Water to industrial customers.

## Desalinated water production

Gold Coast Desalination Plant (GCDP) averaged around 30 ML/d for the month of October to support grid operations. From November 1 production from GCDP will be maximised to support the SEQ Water Grid and slow the decline of SEQ water grid storages.



## Wivenhoe/ Somerset (Combined)

Full supply capacity 1,545,089 ML    Current capacity 1,041,810 ML

Wivenhoe and Somerset Dams are SEQ's largest storages, and combined make up about 70% of the region's water supply (dams).

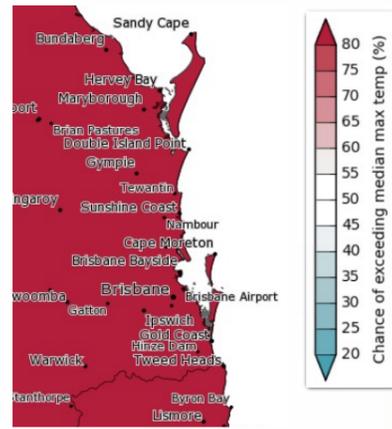
↓	0.4%	1 Week ago
↓	2.2%	1 month ago
↓	11.4%	1 year ago

67.4%

## Weather outlook

### Temperature

The Bureau of Meteorology (BOM) outlook is that there is a greater than 80% chance of exceeding median maximum temperature from November to January.

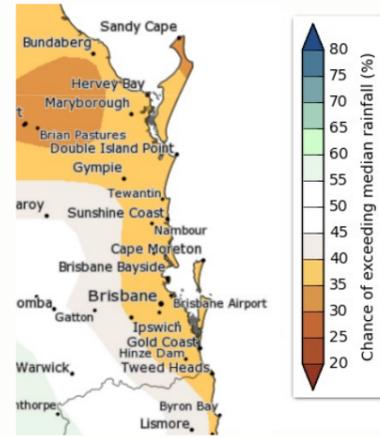


<http://www.bom.gov.au/climate/outlooks/#/temperature/maximum/median/seasonal/0>

\*as at 31 October 2023

### Rainfall

The BOM outlook is that there is a low chance (35-50%) of receiving above average rainfall from November to January across the SEQ region.



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

## 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.

\*This data has been updated as at 31 October 2023

### Sunshine Coast Regional Council

<b>1</b> Kenilworth	Mary River at Bellbird Creek flow: 0.0 ML/d	●	●
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### Moreton Bay Regional Council

<b>2</b> Dayboro	Groundwater Well No 1 standing water level: 40.03 m AHD (latest available read on 29 October, North Pine River is currently not flowing)	●	●
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### Somerset Regional Council

<b>3</b> Jimna	Yabba Creek flow - Big Hole Weir level is 1.5m below the weir crest	●	●
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<b>4</b> Linville	Brisbane River at Linville 0.33 ML/day	●	●
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### Redland City Council

<b>5</b> Amity Point		●	●
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<b>6</b> Point Lookout	North Stradbroke Island Groundwater standing water level (primary bore): 19.916 m AHD	●	●
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<b>7</b> Dunwich		●	●
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### Scenic Rim Regional Council

<b>8</b> Kalbar	Moogerah Dam storage level: 77.4%	●	●
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<b>9</b> Canungra	Canungra Creek flow: 6.47 ML/day	●	●
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<b>10</b> Beaudesert		●	●
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<b>11</b> Kooralbyn	Maroon Dam storage level: 95.6%	●	●
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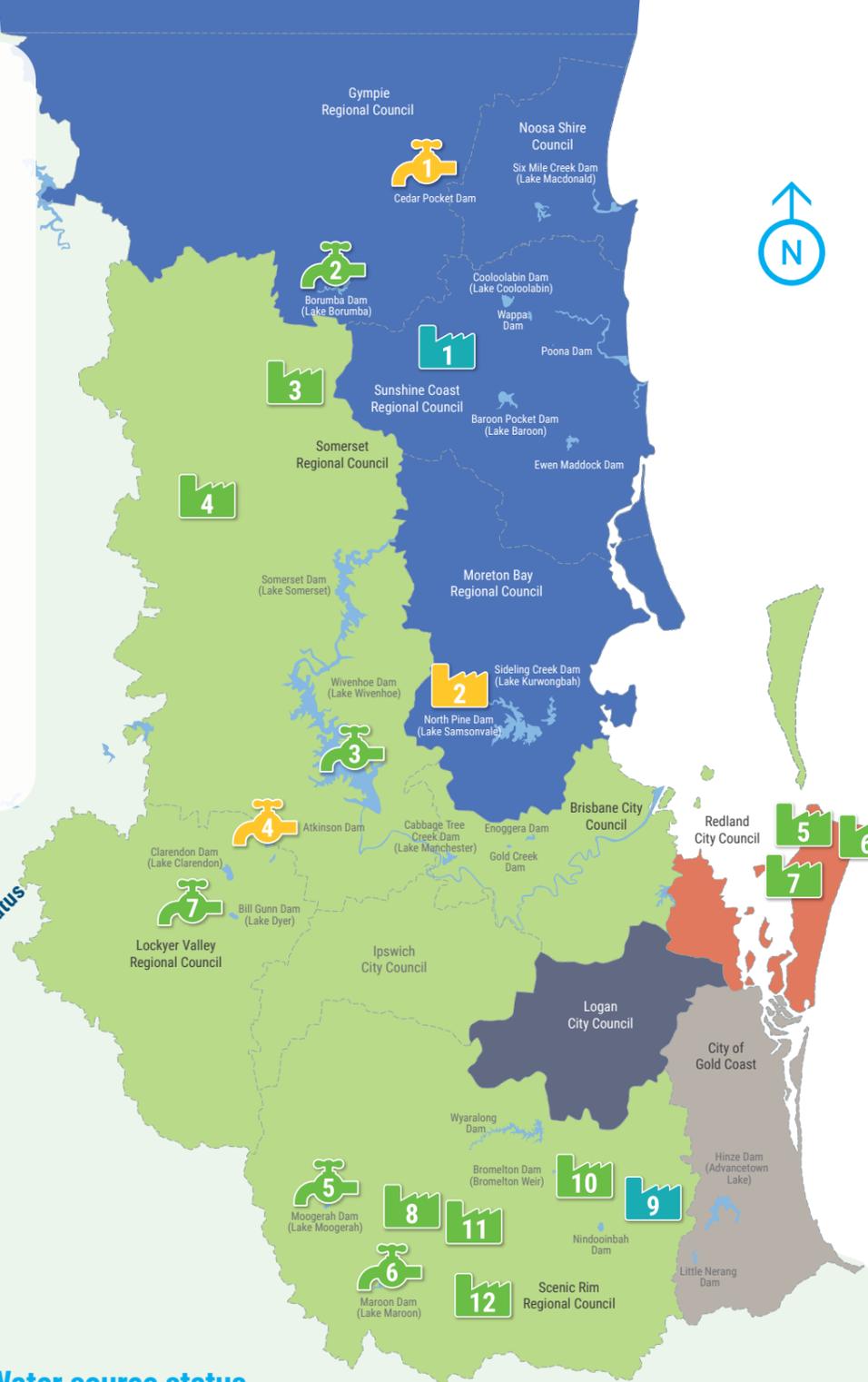
<b>12</b> Rathdowney		●	●
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## Water source status

- Source meeting demand
- Increased monitoring of source
- Approaching water carting
- Supplementary carting
- Full carting

## Restrictions status

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



## 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.

\*as at 31 October 2023



Full allocation



Restricted



Suspended



### Cedar Pocket Water Supply Scheme

Cedar Pocket Dam currently 26.4% (Down 17.9% from last month)  
**Announced Allocations** Medium Priority 70%



### Mary Valley Water Supply Scheme

Borumba Dam currently 78.4% (Down 6.7% from last month)  
**Announced Allocations** Medium Priority 100% (also supplies high priority)



### Central Brisbane Water Supply Scheme

Wivenhoe Dam/Somerset Dam currently 67.4% (Down 2.2% from last month)  
**Announced Allocations** Medium Priority 100% (also supplies high priority)



### Lower Lockyer Water Supply Scheme

Atkinson Dam currently 54.5% (Down 7.2% from last month)  
**Announced Allocations** Medium Priority 91%



### Warrill Valley Water Supply Scheme

Moogerah Dam currently 77.4% (Down 4.5% from last month)  
**Announced Allocations** Medium Priority 100% (also supplies high priority)



### Logan River Water Supply Scheme

Maroon Dam currently 95.6% (Down 0.9% from last month)  
**Announced Allocations** Medium Priority 100% (also supplies high priority)



### Central Lockyer Water Supply Scheme

Clarendon Dam & Bill Gunn Dam currently 59% (Down 7.8% from last month)  
**Announced allocation (surface water)** Morton Vale 100%, Medium Priority Zones 100%  
**Announced allocation (groundwater)** Medium Priority 100%, Low Priority 100%