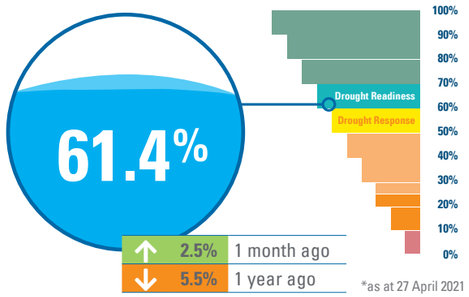
WATER SECURITY STATUS REPORT April 2021

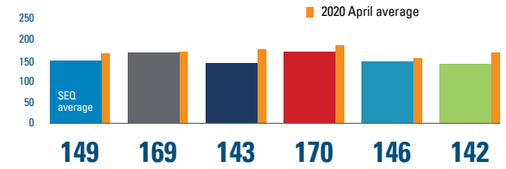
seqwater
WATER FOR LIFE

SEQ Water Grid capacity



*as at 27 April 2021

Average daily residential consumption (L/Person)



*Data range is 25/03/2021 to 21/04/2021 and 26/03/2020 to 22/04/2020

See map below and legend at the bottom of the page for water service provider information.

SEQ Water Grid operations and overall water security position

South East Queensland (SEQ) combined Water Grid storage is at 61.4% as we approach the dry season.

Recent rainfall in March and April has increased levels in coastal storages such as Hinze Dam (now spilling), however there were only minimal increases to the Somerset and Wivenhoe storages (only a 2.4% increase in the last month).

The region's largest water storages, Somerset and Wivenhoe, are at a combined storage level of 49.8%, which is down 8.5% from this time last year. Wivenhoe Dam accounts for more than half of the Water Grid storage volume and has not filled since May 2015.

Grid flow operations help to distribute water to where it is needed most in SEQ. The Southern Regional Water Pipeline continues to operate in a northerly direction and is supported by the Gold Coast Desalination Plant which is in top up mode. In the month of April, the Northern Pipeline Interconnector operated in a southerly direction.

The average residential water usage for April was 149 litres per person, per day (LPD). This is lower than this time last year and is just under the region's drought response target of 150 LPD.

May to July has an unlikely chance of exceeding median rainfall in the SEQ region, according to the Bureau of Meteorology (BOM). The El Niño–Southern Oscillation is neutral, as are most other climate drivers.

Dam storage levels

*Data correct at 27 April 2021 – Dams selected are largest storages for north, south and central areas. Visit the Seqwater website for more information.

Baroon Pocket

Full supply capacity **61,000 ML**
Current capacity **60,837 ML**

↓ 0.4%	1 week ago
↑ 5.3%	1 month ago
↑ 2.1%	1 year ago

STORAGE LEVEL 99.7%

North Pine (Lake Samsonvale)

Full supply capacity **214,302 ML**
Current capacity **144,397 ML**

↓ 0.4%	1 week ago
↑ 5.3%	1 month ago
↑ 1.6%	1 year ago

STORAGE LEVEL 67.4%

Wivenhoe/Somerset

Full supply capacity **1,545,089 ML†**
Current capacity **769,964 ML**

↓ 0.4%	1 week ago
↑ 2.4%	1 month ago
↓ 8.5%	1 year ago

†combined dam levels

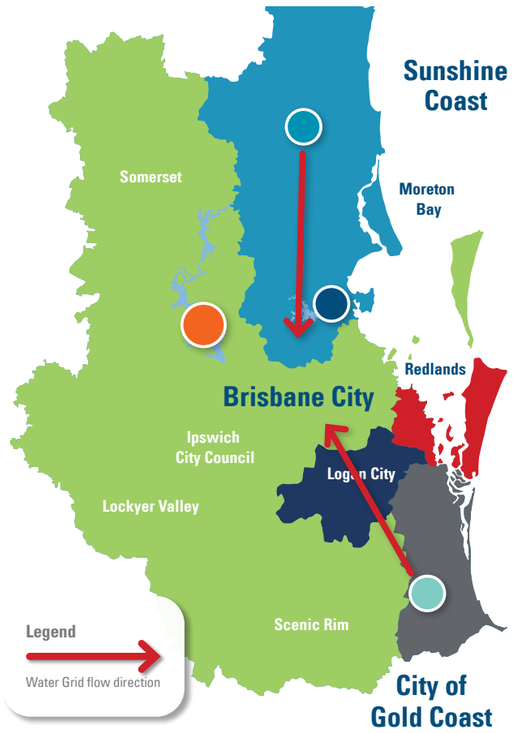
STORAGE LEVEL 49.8%

Hinze

Full supply capacity **310,730 ML**
Current capacity **313,373 ML**

↓ 0.9%	1 week ago
↓ 8.7%	1 month ago
↑ 2.8%	1 year ago

STORAGE LEVEL 100.9%



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

May 21	60.1%	July 21	58.3%
Jun 21	59.4%	Aug 21	56.8%

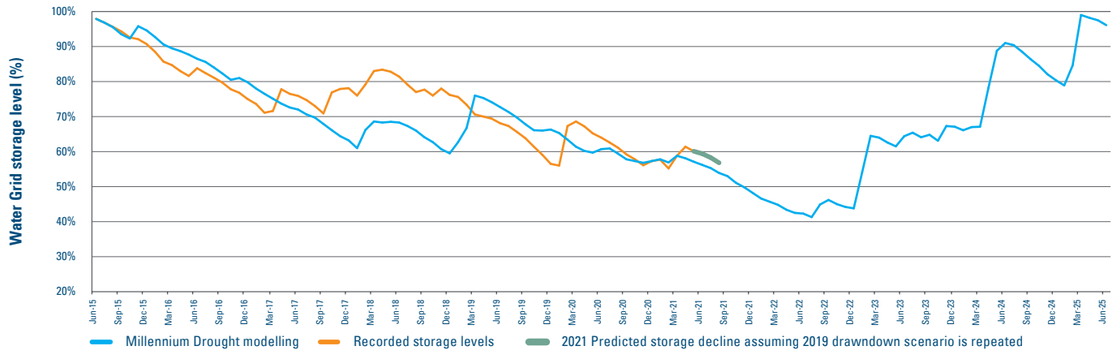
Water Grid storage

Water Grid storage actual drawdown to April 2021, and projected drawdown to July 2021.

The Water Grid drawdown graph shows historical storage data and a projected four month drawdown if the rate observed during the dry calendar year of 2019 was repeated.[1] The 2019 data is used because it was a particularly dry year. The Water Grid storage could reach 50% as soon as December 2021 if dry conditions, as observed in 2019, were to continue from May onwards. The Millennium Drought is shown with today's demand, current grid and drought response plan to compare drawdowns over an extended drought period (see Figure 1).

1. This projected drawdown does not account for differences in demand and supply conditions, such as continued operation of the Gold Coast Desalination Plant.

Figure 1: Water Grid storage drawdowns



Soil moisture

The deep soil moisture for the Brisbane River catchment is at 34.02% full.

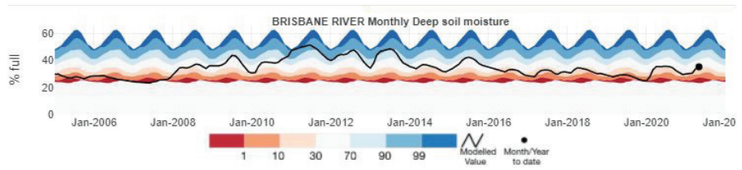
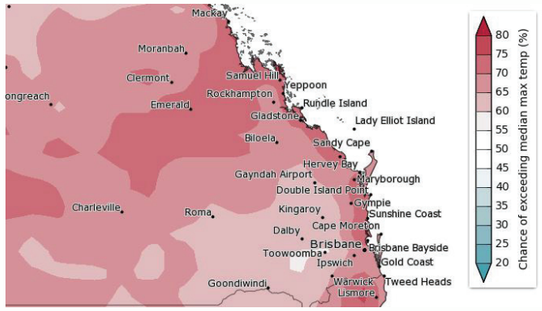


Figure 2: Brisbane River catchment monthly deep soil moisture – modelled estimate to 27 Apr 2021 (source Bureau of Meteorology AWRA-L)

Weather outlook

Temperature

The BOM outlook is for a likely chance of exceeding the 24.1°C median maximum temperature in the Brisbane area from May to July with a 60-65 % probability.



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

Rainfall

The BOM outlook is for an unlikely chance of exceeding the 187mm median rainfall for the Brisbane area from May to July with a 40-45 % probability.

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 table has been updated as at 27 April 2021.

- Low probability of reaching drought trigger in next 3 months
- Medium probability of reaching drought trigger in next 3 months
- High probability of reaching drought trigger in next 3 months

1 Amity Point

Supply: North Stradbroke Island groundwater Standing water level 16.55 m AHD*
Level 1: drought trigger at 15 m AHD

2 Beaudesert

Supply: Maroon Dam 98.2%
Level 1: drought trigger at 50% Maroon Dam level

3 Canungra

Supply: Canungra Creek; stream flow ~73 ML/day
Level 1: preparedness and monitoring; flow falls to <7 ML/day

4 Dayboro

Supply: groundwater/carting; currently carting due to recent rain impacting water quality of bores
Level 1: Well No. 1 standing level falls below 40.88 m AHD

5 Dunwich

Supply: North Stradbroke Island groundwater Standing water level 16.55 m AHD*
Level 1: drought trigger at 15 m AHD

6 Esk

Supply: Wivenhoe Dam 40.8% (Regional Water Grid storages response)
Level 1: drought response in effect as of 15/09/20
Level 2: drought trigger at 50% Water Grid level

7 Jimna

Supply: Yabba Creek; plant operating to meet demand
Level 1: preparedness and monitoring; no water flowing over the weir

8 Kalbar (Boonah, Aratula and Mount Alford)

Supply: Moogerah Dam 42.1%
Level 1: drought response in effect as of 9/9/19
Level 2: drought trigger at 25% dam level

9 Kenilworth

Supply: Wells near the Mary River Mary River (at Bellbird Creek) flow ~100 ML/day
Level 1: drought trigger at 0 ML/day flow

10 Kilcoy

Supply: Somerset Dam 77.7% (Regional Water Grid storages response)
Level 1: drought response in effect as of 15/09/20
Level 2: drought trigger at 50% Water Grid level

11 Kooralbyn

Supply: Maroon Dam 98.2%
Level 1: drought trigger at 50% Maroon Dam level

12 Linville

Supply: Brisbane River at Linville ~35 ML/day
Level 2: drought response in effect as of 15/09/20

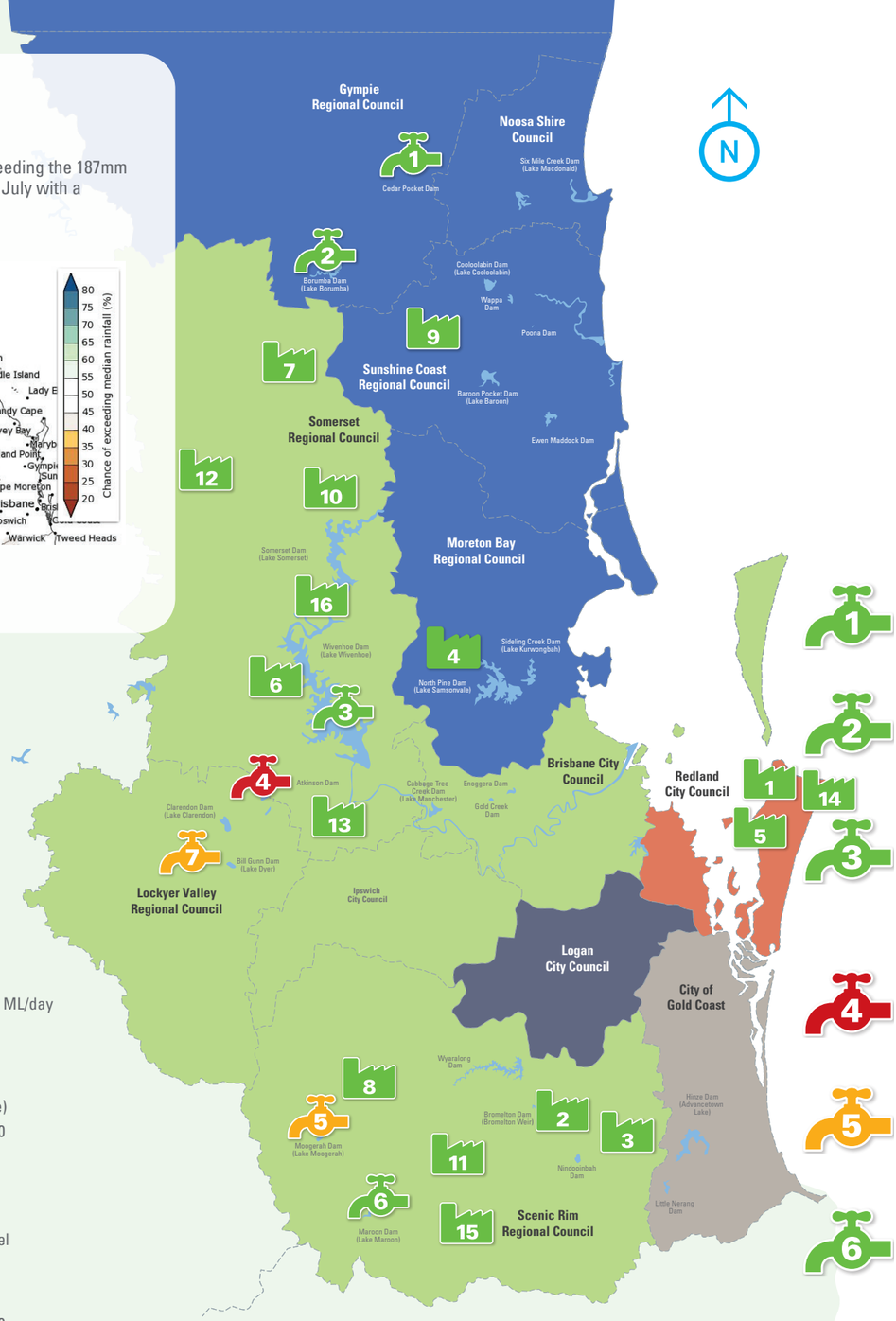
Next drought trigger: Voluntary Conservation, restriction of hydrant standpipes and water carting.

13 Lowood

Supply: Wivenhoe Dam 40.8% (Regional Water Grid storages response)
Level 1: drought response in effect as of 15/09/20
Level 2: drought trigger at 50% Water Grid level

14 Point Lookout

Supply: North Stradbroke Island groundwater Standing water level 16.55 m AHD*
Level 1: drought trigger at 15 m AHD



15 Rathdowney

Supply: Maroon Dam 98.2%
Level 1: drought trigger at 50% Maroon Dam level

16 Somerset

Supply: Somerset Dam 77.7% (Regional Water Grid storages response)
Level 1: drought response in effect as of 15/09/20
Level 2: drought trigger at 50% Water Grid level

*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.

This data has been updated as at 27 April 2021.

Full allocation | Restricted | Suspended

Cedar Pocket Water Supply Scheme

Cedar Pocket Dam currently 99.7% (up 5.7% from last month)
Announced allocations Medium Priority 100%

Mary Valley Water Supply Scheme

Borumba Dam currently 81.8% (up 1.8% from last month)
Announced allocations Medium Priority 100% (also supplies high priority)

Central Brisbane Water Supply Scheme

Wivenhoe Dam/Somerset Dam currently 49.8% (up 2.4% from last month)
Announced allocations Medium Priority 100% (also supplies high priority)

Lower Lockyer Water Supply Scheme

Atkinson Dam currently 4.6% (up 1.1% from last month)
Announced allocations Medium Priority 0%

Warrill Valley Water Supply Scheme

Moogerah Dam currently 42.1% (up 0.2% from last month)
Announced allocations Medium Priority 96% (also supplies high priority)

Logan River Water Supply Scheme

Maroon Dam currently 98.2% (up 8.3% from last month)
Announced allocations Medium Priority 100% (also supplies high priority)

Central Lockyer Water Supply Scheme

Clarendon Dam & Bill Gunn Dam currently 5% (up 6.3% from last month)
Announced allocation (surface water) Morton Vale 0%, Medium Priority 0% (all zones)
Announced allocation (ground water) Medium Priority 80%, Low Priority 60%

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