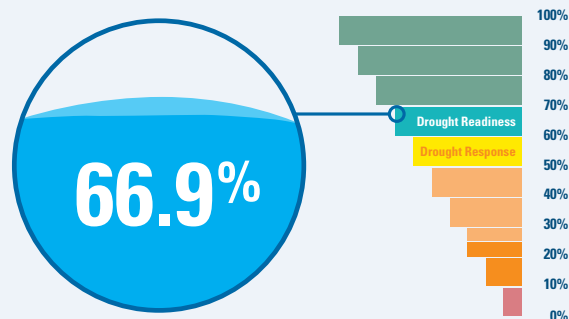


WATER SECURITY STATUS REPORT

April 2020



Water Grid capacity



Dam storage levels

*Data correct at 30 April 2020 – Dams selected are largest storages for North, South and Central areas. North Pine and Wivenhoe currently have reduced full storage capacity. Visit the Seqwater website for more information.



Baroon Pocket

Full supply capacity 61,000 ML
Current capacity 59,979 ML

↓ 0.8%	1 week ago
↓ 2.9%	1 month ago
↓ 3.4%	1 year ago

STORAGE LEVEL
97.4%



North Pine (Lake Samsonvale)

Full supply capacity 214,302 ML
Current capacity 141,578 ML

↓ 0.5%	1 week ago
↓ 1.8%	1 month ago
↓ 5.9%	1 year ago

STORAGE LEVEL
65.6%



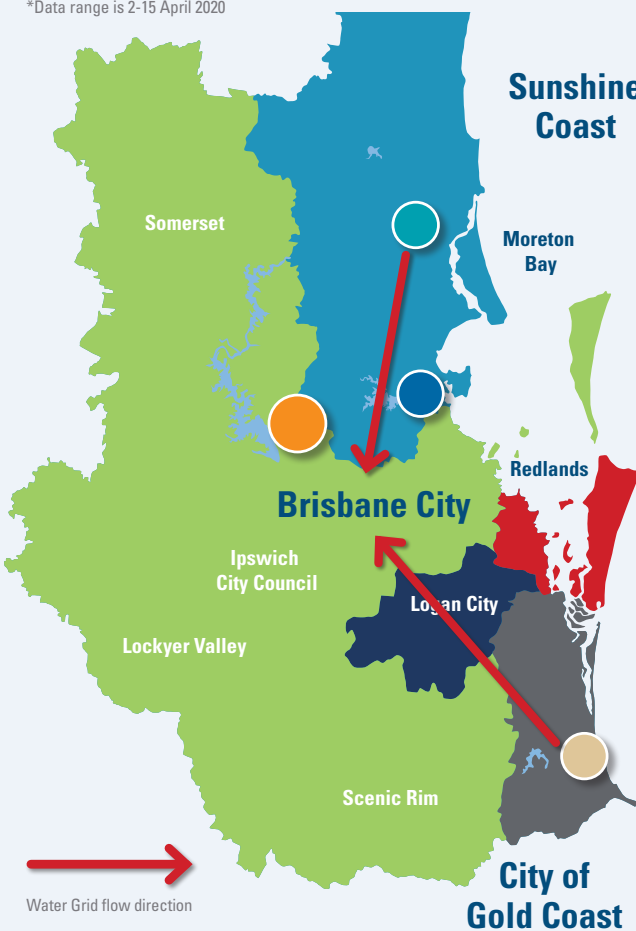
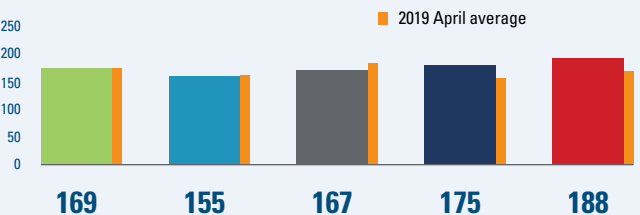
Wivenhoe

Full supply capacity 1,165,240 ML
Current capacity 603,018 ML

↓ 0.3%	1 week ago
↓ 1.1%	1 month ago
↓ 6.8%	1 year ago

STORAGE LEVEL
51.5%

Average daily residential consumption (L/Person)



Hinze

Full supply capacity 310,730 ML
Current capacity 306,161 ML

↓ 0.4%	1 week ago
↓ 1.7%	1 month ago
↑ 4.4%	1 year ago

STORAGE LEVEL
98%

Grid operations and overall water security position

April was a dry month across the region resulting in the South East Queensland (SEQ) Water Grid storage reducing to 66.9%. Lake Wivenhoe – the region's largest water storage – remains at levels not seen since the millennium drought and has reduced further to 51.5%. Litre per day water usage is also higher in April in comparison to March.

The Southern Regional Water Pipeline (SRWP) continues to operate in a northerly direction supported by the Gold Coast Desalination Plant when required. The northern pipeline continues to operate in a southerly direction.

The Water Grid Storage level slightly decreased during April and SEQ remains in the 'drought readiness' phase of the region's Drought Response Plan.

The storage situation is worse than April 2019 when the level was above 70%. If the extreme conditions experienced in 2019 were repeated this year, the level would reach 60% in late September or early October 2020. The BOM climate outlook for Autumn is for hot weather and less than average rainfall.

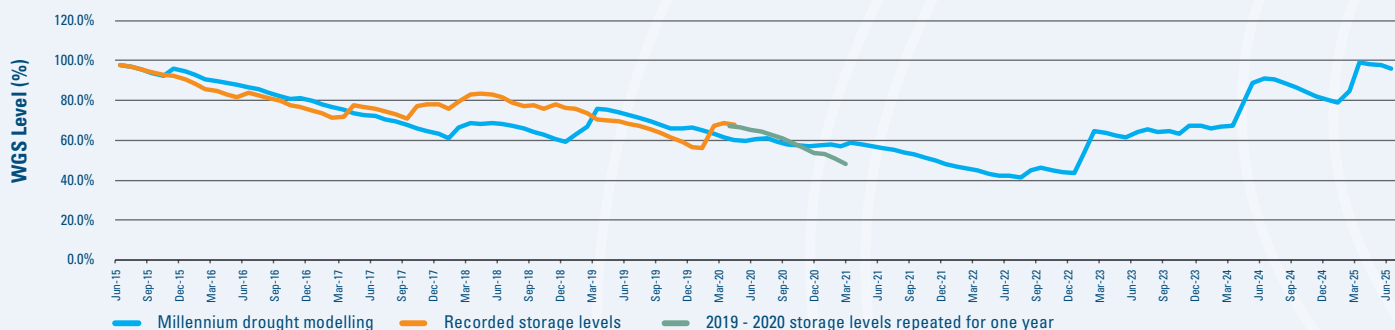
Water Grid storage

Water Grid Storage actual drawdown to 23 April 2020, and projected draw down.

The Water Grid drawdown graph shows historical storage data and a projected draw down if the same rate observed in 2019 occurred in the corresponding months from April 2020 until March 2021.¹ The millennium drought is shown to compare drawdowns over an extended drought period (see figure 1).

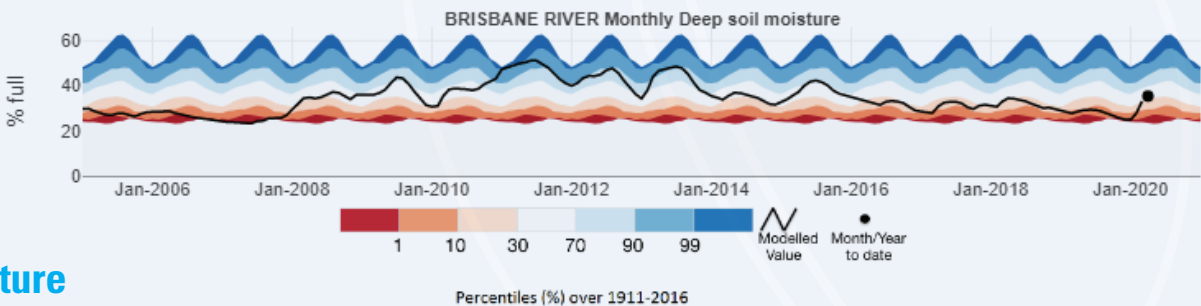
Figure 1: Water Grid storage drawdowns.

1. This projected drawdown does not account for differences in demand and supply conditions in 2020, such as continued operation of the Gold Coast Desalination Plant.



End of month storage level assuming repeat of 2019 storage level decline:

May-20	66.6%	Nov-20	56.3%
Jun-20	65.3%	Dec-20	53.7%
Jul-20	64.5%	Jan-21	53.2%
Aug-20	62.8%	Feb-21	50.9%
Sep-20	61.1%	Mar-21	48.2%
Oct-20	58.7%		



Soil moisture

We have recently seen a slight replenishment in deep soil moisture due to the above average Feb-March 2020 rainfall. Although rainfall was above average, significant additional rainfall would be required to see recovery and inflows into the catchment. With above average temperatures predicted for the Winter month this is unlikely to occur. (see figure 2).

Figure 2: Brisbane River monthly deep soil moisture data to March 2020.

UrbanUtilities

Unitywater

CITY OF GOLD COAST

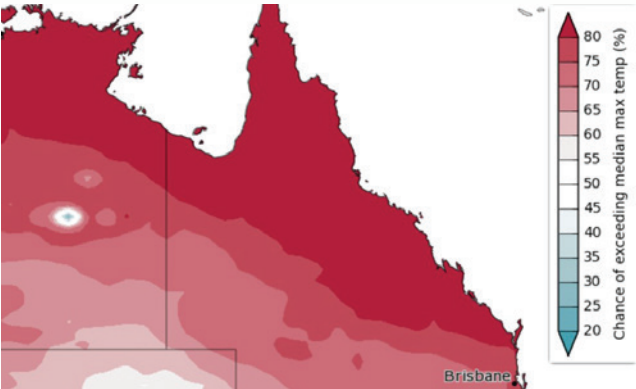
LOGAN CITY COUNCIL

Redland CITY COUNCIL

Weather forecasts

Temperature

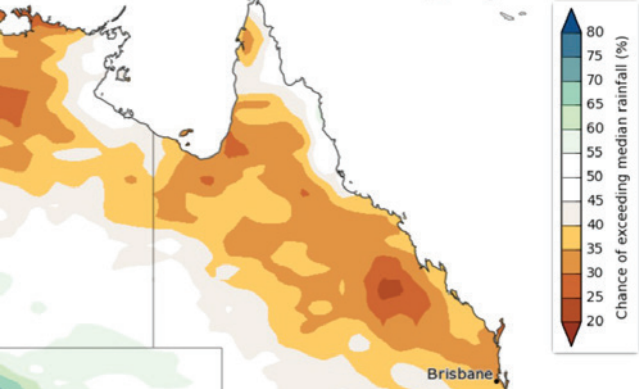
Median maximum temperature for the Brisbane area is forecast at 23.8°C. The chance of exceeding the median temperature is very likely with an over 80% probability. The past accuracy of these predictions has been classed as “high”.



Source: Bureau of Meteorology

Rainfall

Median rainfall for the Brisbane area in May is forecast at 41.5mm. There is an unlikely chance of exceeding the median with a 30% - 40% probability. The past accuracy of these predictions has been classed as “very low”.



Off-grid community drought status

This table has been updated as at 30 April 2020.

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 16.664 m AHD
Level 1 drought trigger at 15 m AHD
- 2

Beaudesert
Supply: Maroon Dam 59.8%
Level 1 drought trigger at 50% dam level
- 3

Canungra
Supply: Canungra Creek
Stream flow ~15 ML/day
Level 1 drought trigger at <7 ML/day flow
- 4

Dayboro
Supply: groundwater
Well No. 1 standing level >RL 41.23 m AHD
Level 1 drought trigger at RL 40.7 m AHD
- 5

Dunwich
Supply: North Stradbroke Island groundwater
Standing water level 16.664 m AHD
Level 1 drought trigger at 15 m AHD
- 6

Esk
Supply: Wivenhoe Dam 51.5% (Regional Water Grid Storages response)
Drought reponse at 60% dam level
- 7

Jimna
Supply: Yabba Creek
Water flowing over the weir
Level 1 drought trigger when no water flowing over weir

- 8

Kalbar (Boonah, Aratula and Mount Alford)
Level 1 drought response in effect as of 9/9/19
Supply: Moogerah Dam 34.8%
Level 2 drought trigger at 25% dam level
- 9

Kenilworth
Supply: Wells near the Mary River
Bellbird Creek flow ~30 ML/day
Level 1 drought trigger at 0 ML/day flow
- 10

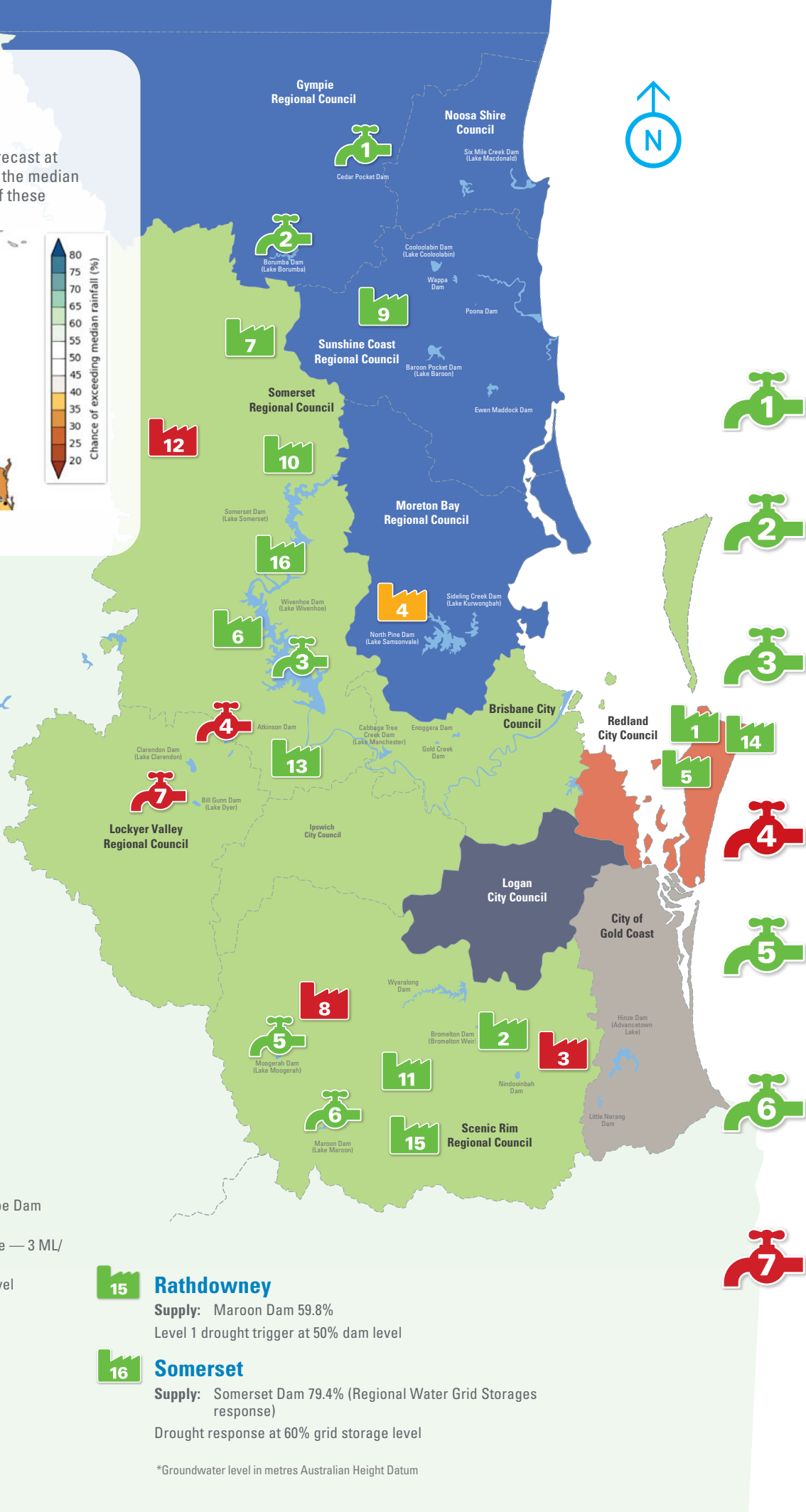
Kilcoy
Supply: Somerset Dam 79.4% (Regional Water Grid Storages response)
Drought response at 60% grid storage level
- 11

Kooralbyn
Supply: Maroon Dam 59.8%
Level 1 drought trigger at 50% dam level
- 12

Linville
Supply: Brisbane River beds, upstream of Wivenhoe Dam (Currently carted from Kilcoy)
New WTP now operational, Brisbane River at Linville — 3 ML/day
Level 1 drought trigger at 60% water grid storage level
- 13

Lowood
Supply: Wivenhoe Dam 51.5% (Regional Water Grid Storages response)
Drought response at 60% dam level
- 14

Point Lookout
Supply: North Stradbroke Island groundwater
Standing water level 16.664 m AHD
Level 1 drought trigger at 15 m AHD



Water Supply Scheme status

This data has been updated as at 01 May 2020

100% allocated

< 100% allocated

0% allocated

- 1

Cedar Pocket Water Supply Scheme
Cedar Pocket Dam currently 94.7% (down 5.3% from last month)
Entitlement volume: 495 ML
Announced allocations: Medium Priority 100%
- 2

Mary Valley Water Supply Scheme
Boorumba Dam currently 98.8% (down 1.2% from last month)
Entitlement volume: 21,829 ML
Announced allocations: Medium Priority 100% (also supplies high priority)
- 3

Central Brisbane Water Supply Scheme
Wivenhoe Dam/Somerset Dam currently 58.5% (down 1% from last month)
Entitlement volume: 7,194 ML
Announced allocations: Medium Priority 100% (also supplies high priority)
*Proposed amendments to water sharing rules by 1 July.
- 4

Lower Lockyer Water Supply Scheme
Atkinson Dam currently 5.4% (down 0.5% from last month)
Entitlement volume: 12,620 ML
Announced allocations: Medium Priority 0%
- 5

Warrill Valley Water Supply Scheme
Moogerah Dam currently 34.6% (down 3% from last month)
Entitlement volume: 22,884 ML
Announced allocations: Medium Priority 100% (also supplies high priority)
*Proposed amendments to water sharing rules by 1 July.
- 6

Logan River Water Supply Scheme
Maroon Dam currently 59.7% (down 1.1% from last month)
Entitlement volume: 13,555 ML
Announced allocations: Medium Priority 100% (also supplies high priority)
*Proposed amendments to water sharing rules by 1 July.
- 7

Central Lockyer Water Supply Scheme
Clarendon Dam & Bill Gunn Dam currently 0% (no change from last month)
Entitlement (surface water): 3,507 ML Morton Vale, 5,304 ML Medium Priority
Entitlement (ground water): 9,494 ML Medium Priority, 18,901 Low Priority
Announced allocation (surface water): Morton Vale 0%, Medium Priority 0% (all zones)
Announced allocation (ground water): TBD

*Groundwater level in metres Australian Height Datum