

Greater Sydney Operations Report

April 2020

Contents

Introduction	3
Key messages	3
Storage Levels	4
Rainfall.....	5
Inflows	6
Environmental releases	7
Water supplied to our customers.....	7
Forecast	9
More Information.....	10

Introduction

Welcome to our first monthly Greater Sydney Operations Report for April 2020. This report highlights the most significant issues that have occurred throughout the month including the rainfall we have received in our catchments.

While April saw below average rainfall across most areas in the Greater Sydney catchments, the system received major inflows in February which had a big impact on our storages.

With our storages now exceeding 80%, transfers from the Shoalhaven system have ceased and water restrictions lifted across Greater Sydney from Level 2 to Level 1.



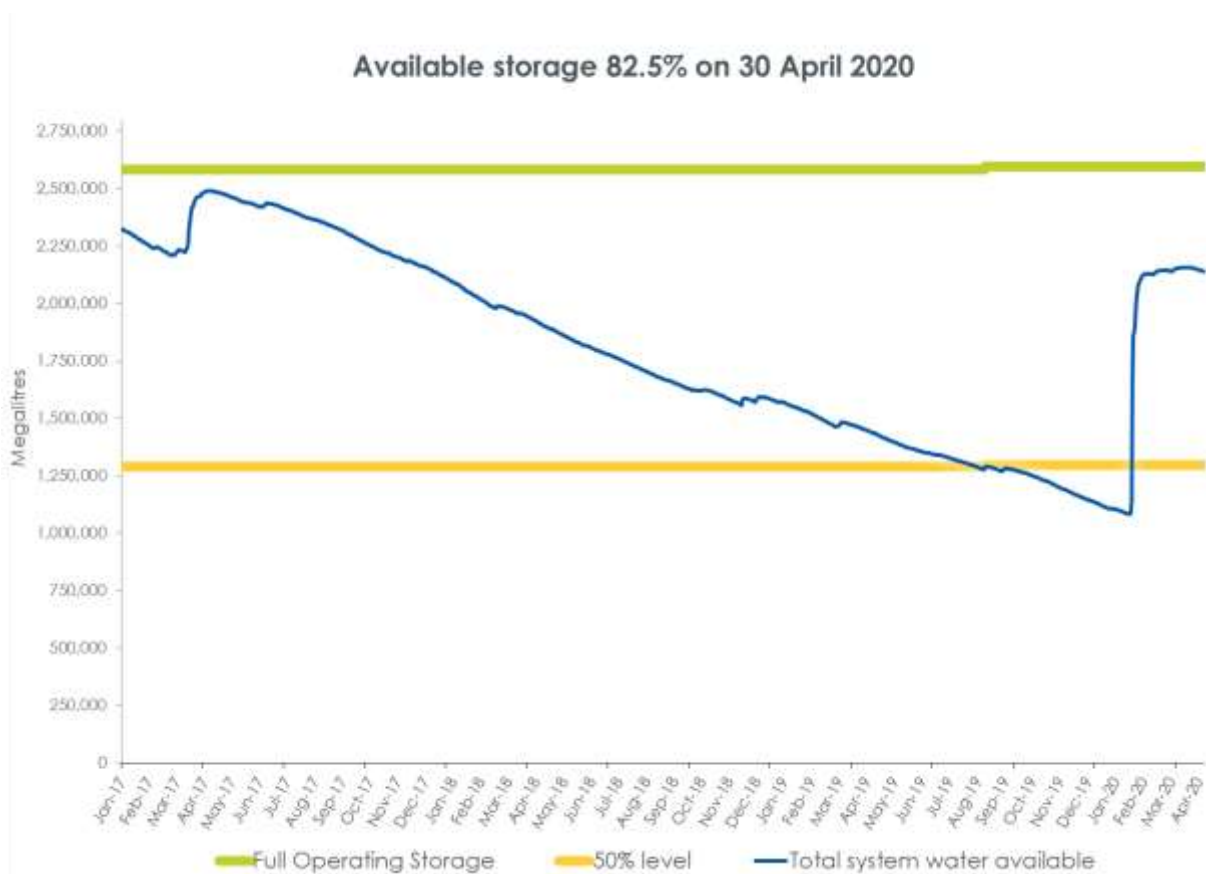
In terms of inflows into storages, April saw more than 58 GL flow into our dams across Greater Sydney, compared to just 17GL for the same time last year. Due to the heavy rainfall that fell in February, our total inflows this calendar year have already reached 1,400 GL – more than half our annual long term average.

Key messages

- As at Thursday 30th April 2020 the total available water held in Greater Sydney storages was **82.5%**, a decrease of just 0.4% from last month.
- Total inflows for the month were 58.5 GL.
- Level 2 Water Restrictions have been lifted and returned to Level 1 starting from 1 March 2020.
- As total system storage now exceeds 80%, the trigger to cease Shoalhaven Transfers was reached on 17 February 2020 and as such there were no transfers during the month.
- As total system storage declines with normal supply, it is expected we will reach 75% (the trigger to re-commence Shoalhaven Transfers) in September 2020 at the earliest.
- In excess of 65 GL was transferred from the Shoalhaven over the duration of the drought. Transfers resulted in approximately 2.4% increase in total system storage or 6 weeks supply to Sydney. More importantly, during this drought the Shoalhaven Scheme resulted in a 15% boost to storage levels in the Upper Nepean system which would have fallen to 21% capacity without transfers.
- Water for Macarthur Water Filtration Plant (WFP) was sourced from Nepean Dam during April. WNSW routinely changes the source of supply for the Macarthur supply zone in response to relative storage levels, water quality and asset availability.
- Water for Prospect WFP was sourced from Warragamba Dam 87%, Nepean Dam 9% and Prospect Reservoir 4%.
- WaterNSW continues to work closely with Sydney Water and other stakeholders to manage water quality risks associated with the heavy rainfall in February.

Storage Levels

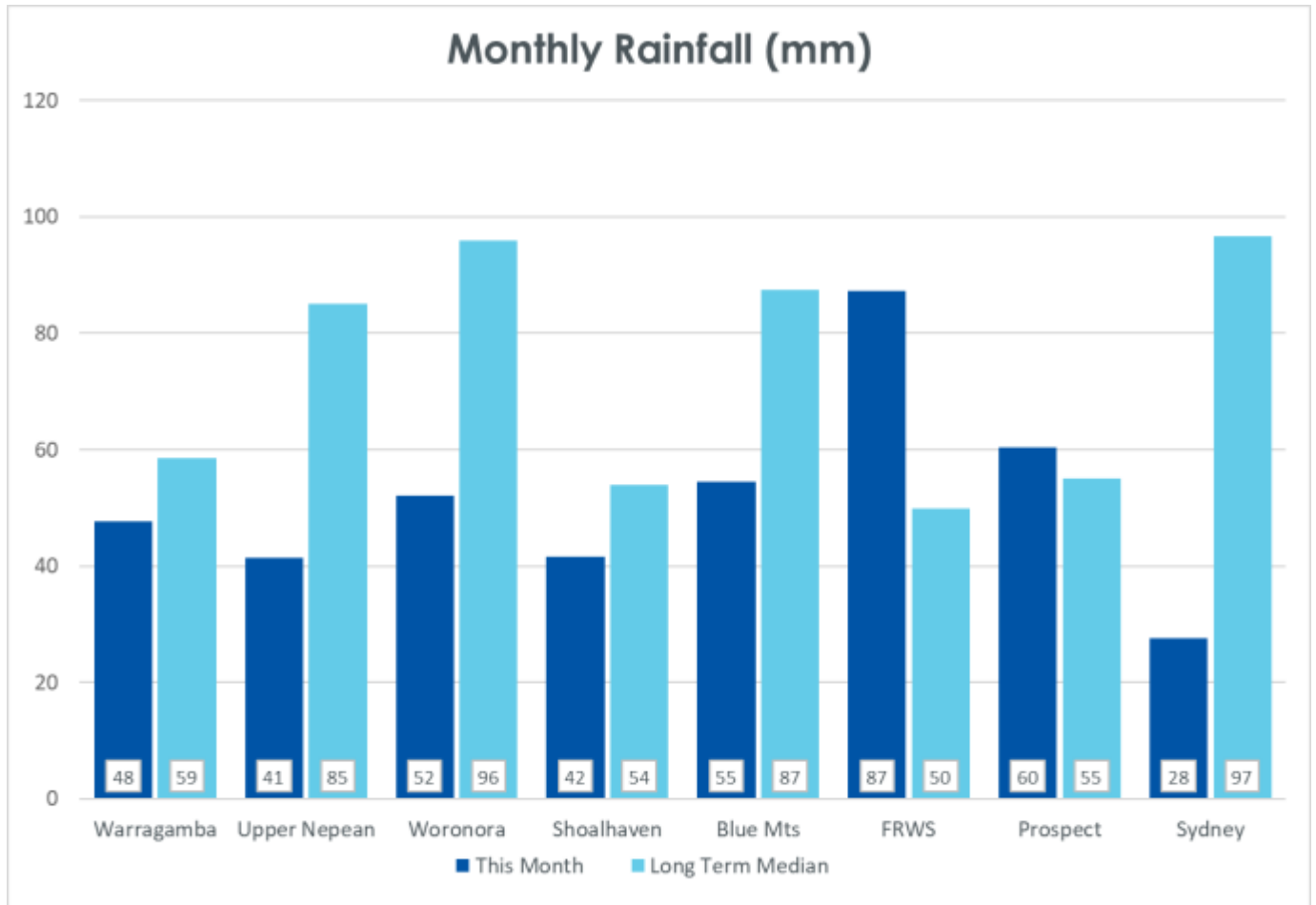
As at Thursday 30th April 2020 the total available water held in Greater Sydney storages was **82.5%**, a decrease of 0.4% since the end of last month. For more information on Greater Sydney Dam levels please visit www.watersw.com.au/sydneydamlevels



Storage	Capacity (ML)	Thursday 30 April 2020			Tuesday 31 March 2020		
		Level (m)	Available (ML)	Available (%)	Level (m)	Available (ML)	Available (%)
Cataract	97,190	-3.88	67,905	69.9	-4.02	66,953	68.9
Cordeaux	93,640	-3.22	70,903	75.7	-3.27	70,587	75.4
Avon	146,700	-1.73	128,943	87.9	-1.46	131,332	89.5
Nepean	67,730	-5.29	52,391	77.4	-3.06	58,493	86.4
Woronora	71,790	-8.20	45,846	63.9	-8.20	45,794	63.8
Warragamba	2,027,000	-4.61	1,694,567	83.6	-4.57	1,697,347	83.7
Prospect	33,330	-0.60	30,261	90.8	-0.39	31,277	93.8
Wingecarribee	24,130	-1.18	19,097	79.1	-1.15	19,262	79.8
Fitzroy Falls	9,950	-0.69	6,672	67.1	-0.43	7,894	79.3
Tallowa	21,800	0.03	21,800	100.0	0.05	21,800	100.0
Blue Mountains	2,890	-	2,605	90.1	-	2,706	93.6
TOTAL	2,596,150		2,140,990	82.5		2,153,445	82.9

Rainfall

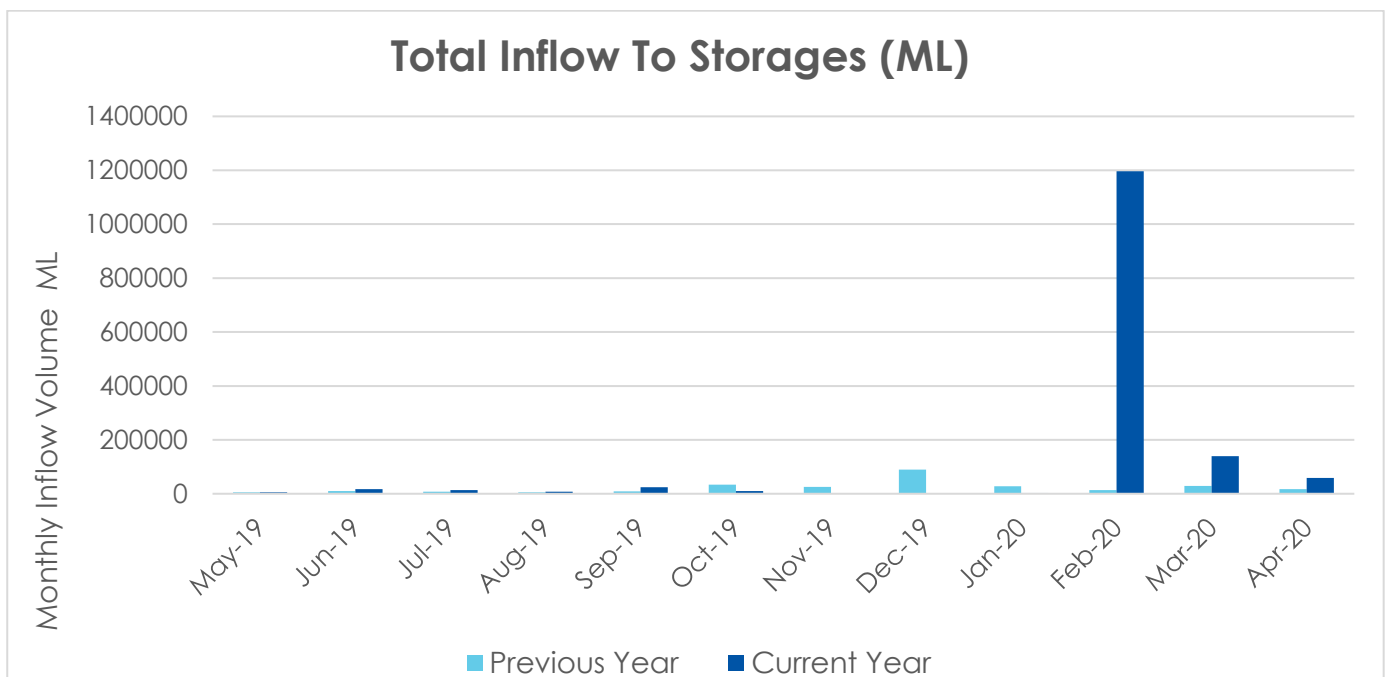
During April, below average rain was received across Sydney catchment areas, with 48mm rain recorded across the Warragamba catchment.



Inflows

After a month of recording extremely high inflows in February, moderate inflows to Sydney storages were recorded during April.

Monthly Inflow (ML)	Warragamba	Upper Nepean	Woronora	Tallowa	TOTAL
	37,792	5,304	1,202	14,236	58,534

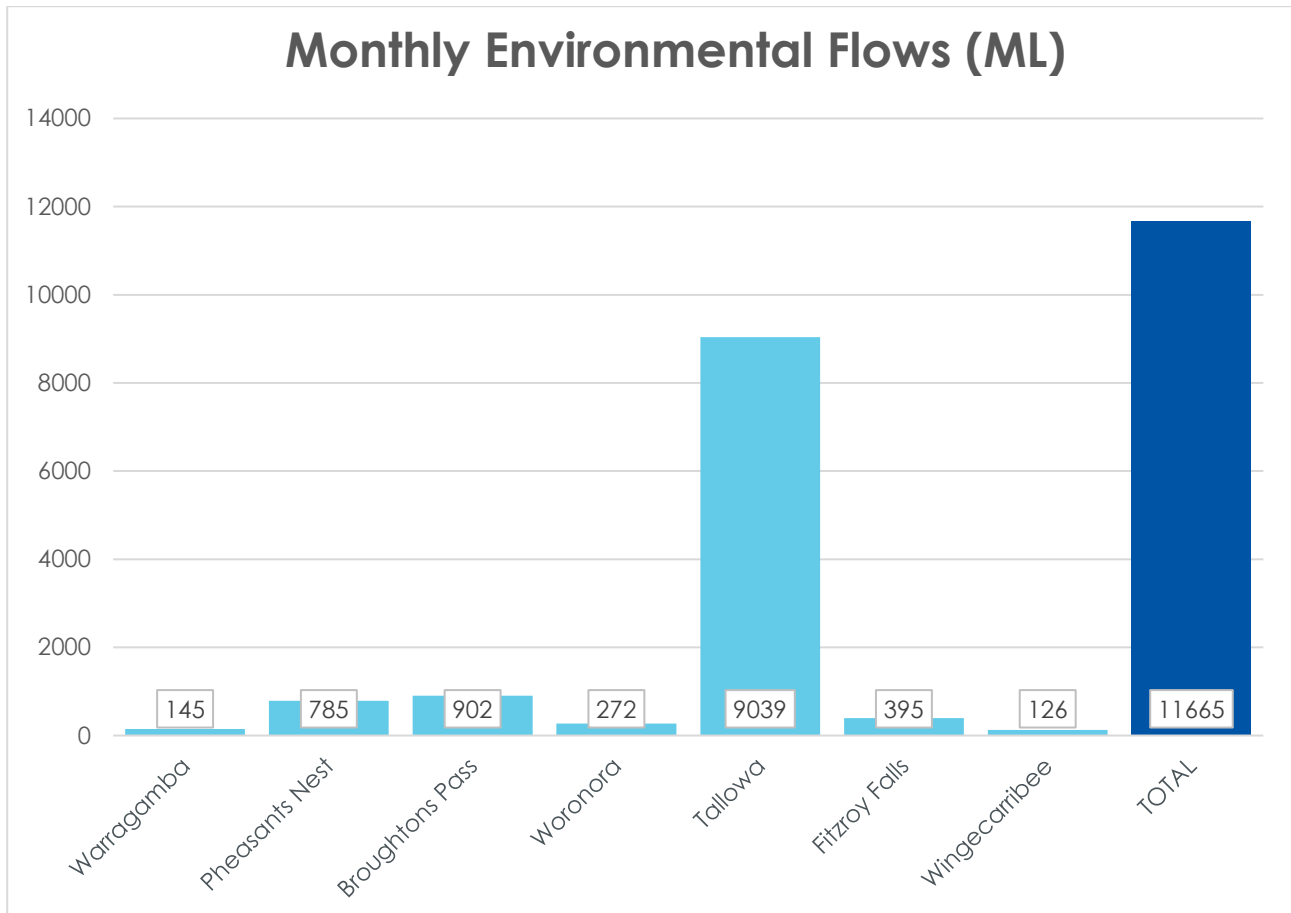


Calendar Year	Warragamba Inflow (ML)	Upper Nepean Inflow (ML)	Woronora Inflow (ML)	Tallowa Inflow (ML)	TOTAL
Average Annual	1,069,000	316,000	30,000	1,071,000	2,486,000
2018	103,234	32,199	2,433	136,559	274,425
2019	50,350	35,828	2,755	78,024	166,956
2020 to 30 Apr	905,077	101,604	14,441	376,083	1,397,204

Note: The tables above do not include smaller inflows into storages such as Wingecarribee, Fitzroy Falls, Prospect or the Blue Mountains Dams.

Environmental releases

During the month a total of 11,665 ML was released from Sydney water sources for the environment.

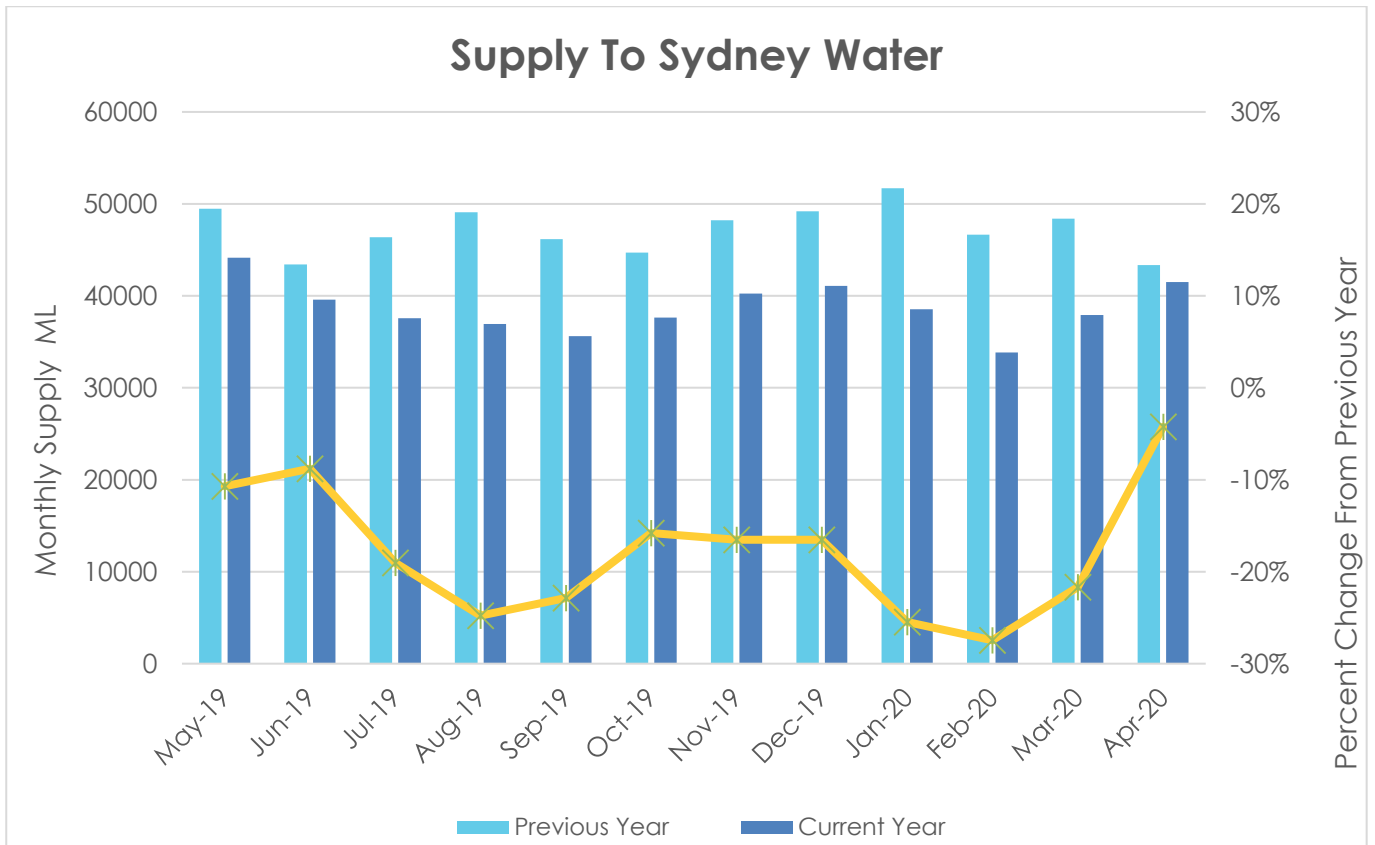


Water supplied to our customers

In the Greater Sydney area, WaterNSW supplies raw water to over 60 customers including Sydney Water Corporation, Wingecarribee Shire Council, Shoalhaven City Council, Goulburn Mulwaree Council and other minor customers.

Sydney Water supplies treated drinking water to the people of Sydney, Illawarra and the Blue Mountains and is our largest customer accounting for more than 99% of the total volume supplied from the Sydney system.

The volume supplied to Sydney Water this month was 41,512 ML, with a daily average supply of 1,384 ML/D. This is a four percent decrease from the same time last year.

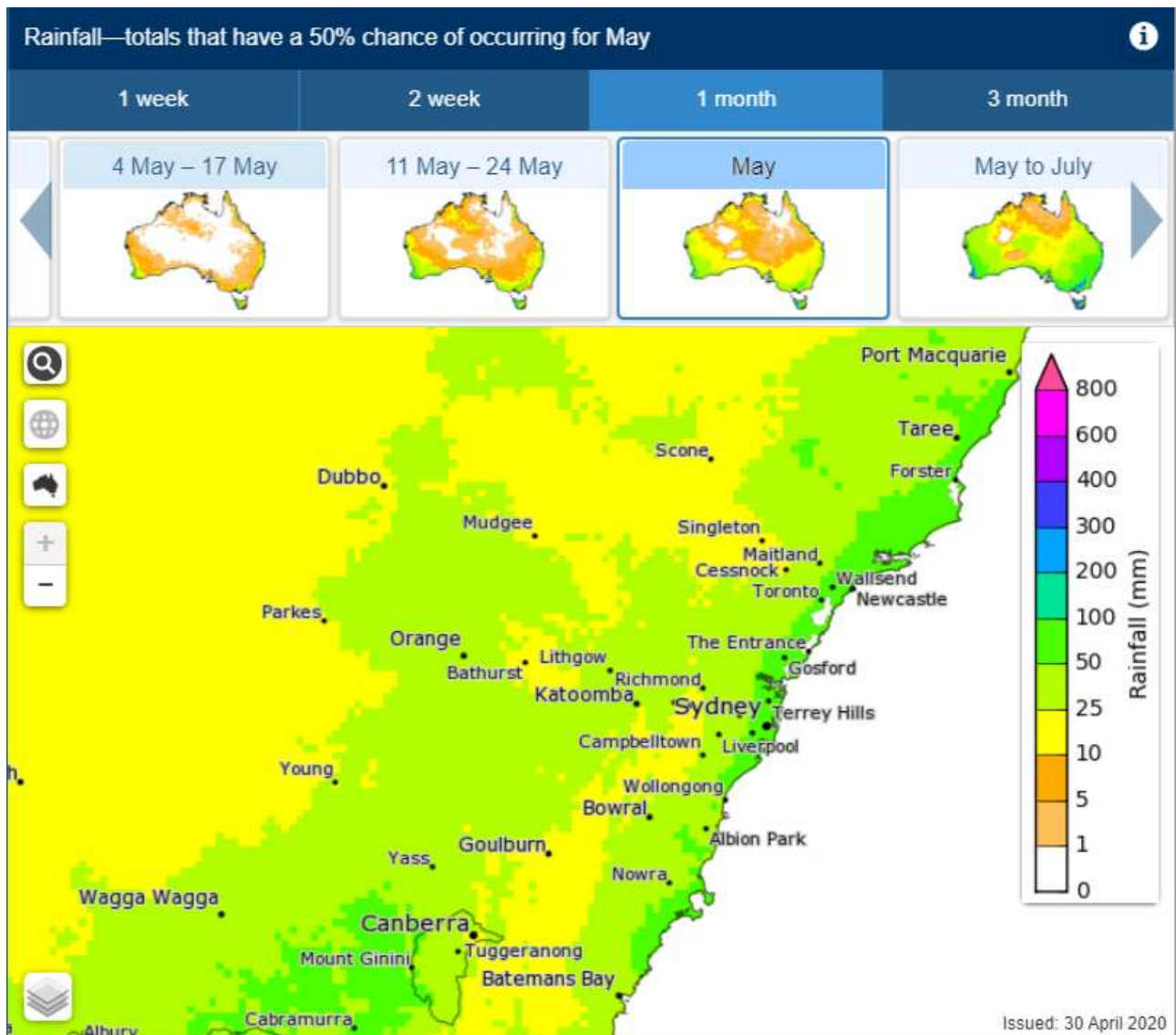


WaterNSW supplies raw, untreated water from our dams to the water filtration plants below:

Filtration Plant	Monthly Supply (ML)	Average Daily Supply (ML)
Cascade	221	7
Illawarra	2321	77
Macarthur	2330	78
Nepean	377	13
North Richmond	506	17
Orchard Hills	1910	64
Prospect	33024	1101
Warragamba	101	3
Woronora	722	24
TOTAL	41512	1384

Forecast

The Bureau of Meteorology predict conditions in May to be drier than the long term median, with rainfall amounts forecast below:



For more information on weather in NSW please visit the BoM <http://www.bom.gov.au/nsw/>

More Information

WaterNSW is a state-owned corporation established under the *Water NSW Act 2014* and operates under an Operating License issued and monitored by the Independent Pricing and Regulatory Tribunal (IPART).

WaterNSW operate the state's rivers and water supply systems in accordance with the rules set out by regulators. With more than 40 dams across the state, we supply two-thirds of water used in NSW to regional towns, irrigators, Sydney Water Corporation and local water utilities. We also own and operate the largest surface and groundwater monitoring network in the southern hemisphere and build, maintain and operate essential infrastructure.

The Greater Sydney system includes 15 major dams that are interconnected by a complex system of rivers, weirs, canals and pipelines. WaterNSW manages this system in the most efficient way to provide the best quality raw water to our customers, whilst also ensuring long-term security of supply is maintained for the future.

Warragamba Dam is the largest dam in the system and provides around 80% of Sydney's water supply. When the total system storage falls below 75%, WaterNSW can transfer water from the Shoalhaven system into the Upper Nepean Dams or Warragamba Dam.

The total system storage for Greater Sydney (all our Dams combined):
2,596,150 ML (approximately 2 600 GL)

1 Kilolitre (KL) = 1000 litres

1 Megalitre (ML) = 1000 Kilolitres

1 Gigalitre (GL) = 1000 Megalitres

For more information, or to view our daily and weekly Greater Sydney catchment updates, please visit our website at <https://www.waternsw.com.au/greatersydney>