

Greater Sydney Operations Report

November 2021

Contents

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

Key messages

- On Tuesday 30 November 2021 the total available water held in Greater Sydney dams was **96.6%**, an increase of 2.9% from the previous month. The Greater Sydney catchments experienced well above average rainfall for the month of November, in fact, our records show that it was the highest rainfall received in November for at least the past 30 years.
- Approximately 776 GL of water flowed into our dams this month compared to 209 GL for the same time last year. Total inflows this calendar year have reached 4,805 GL, which is almost double the annual long-term average.
- With our dams exceeding 75%, there were no transfers from the Shoalhaven System and Water Wise Guidelines are in place across Greater Sydney.
- As total system storage declines with normal supply, it is expected we will reach 75% (the trigger to re-commence Shoalhaven Transfers) in October 2022 at the earliest.

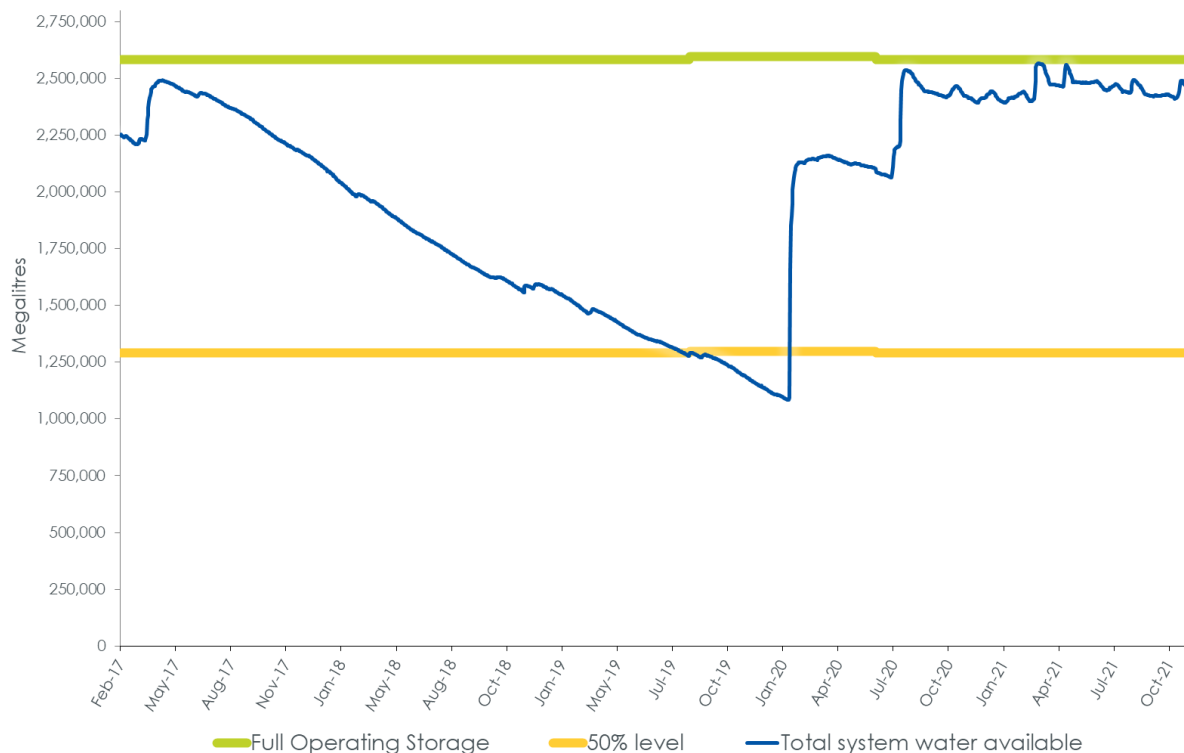


Storage Levels

On Tuesday 30 November 2021 the total available water held in Greater Sydney storages was **96.6%**, an increase of 2.9% from the previous month.

For more information on Greater Sydney Dam levels please visit www.watarnsw.com.au/sydneydamlevels

Available storage 96.6% on 30 November 2021

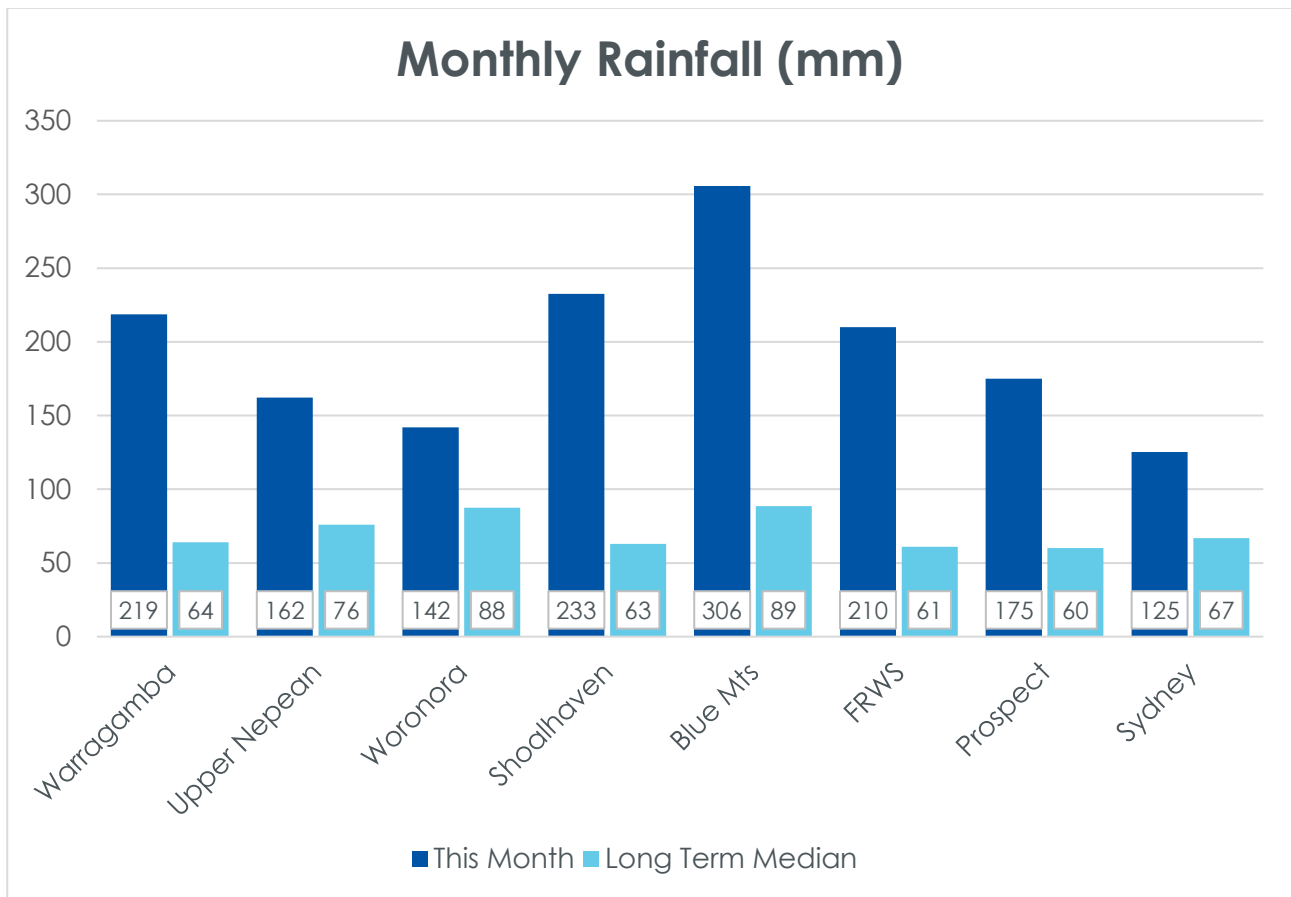


Storage	Capacity (ML)	Tuesday 30 November 2021			Sunday 31 October 2021		
		Level (m)	Available (ML)	Available (%)	Level (m)	Available (ML)	Available (%)
Cataract	97,190	-5.33	58,478	60.2	-4.67	62,715	64.5
Cordeaux	93,640	-0.75	87,910	93.9	-0.98	86,134	92.0
Avon	146,700	-1.34	132,734	90.5	-1.42	131,932	89.9
Nepean	67,730	-1.59	62,804	92.7	-3.10	58,378	86.2
Woronora	71,790	-4.95	55,060	76.7	-4.96	55,030	76.7
Warragamba	2,027,000	0.06	2,027,000	100.0	-0.91	1,959,454	96.7
Prospect	33,330	-0.60	30,261	90.8	-0.54	30,514	91.6
Wingecarribee	24,130	-0.75	20,852	86.4	-0.99	19,925	82.6
Fitzroy Falls	9,950	-0.21	8,941	89.9	-0.82	6,066	61.0
Tallowa	7,500	0.43	7,500	100.0	0.10	7,500	100.0
Blue Mountains	2,890	-	2,627	90.9	-	2,220	76.8
TOTAL	2,581,850		2,494,167	96.6		2,419,868	93.7

Note: The weekly percentage change is based on the total variation in volume measured in megalitres. Percentages are rounded to the nearest 0.1 percent.

Rainfall

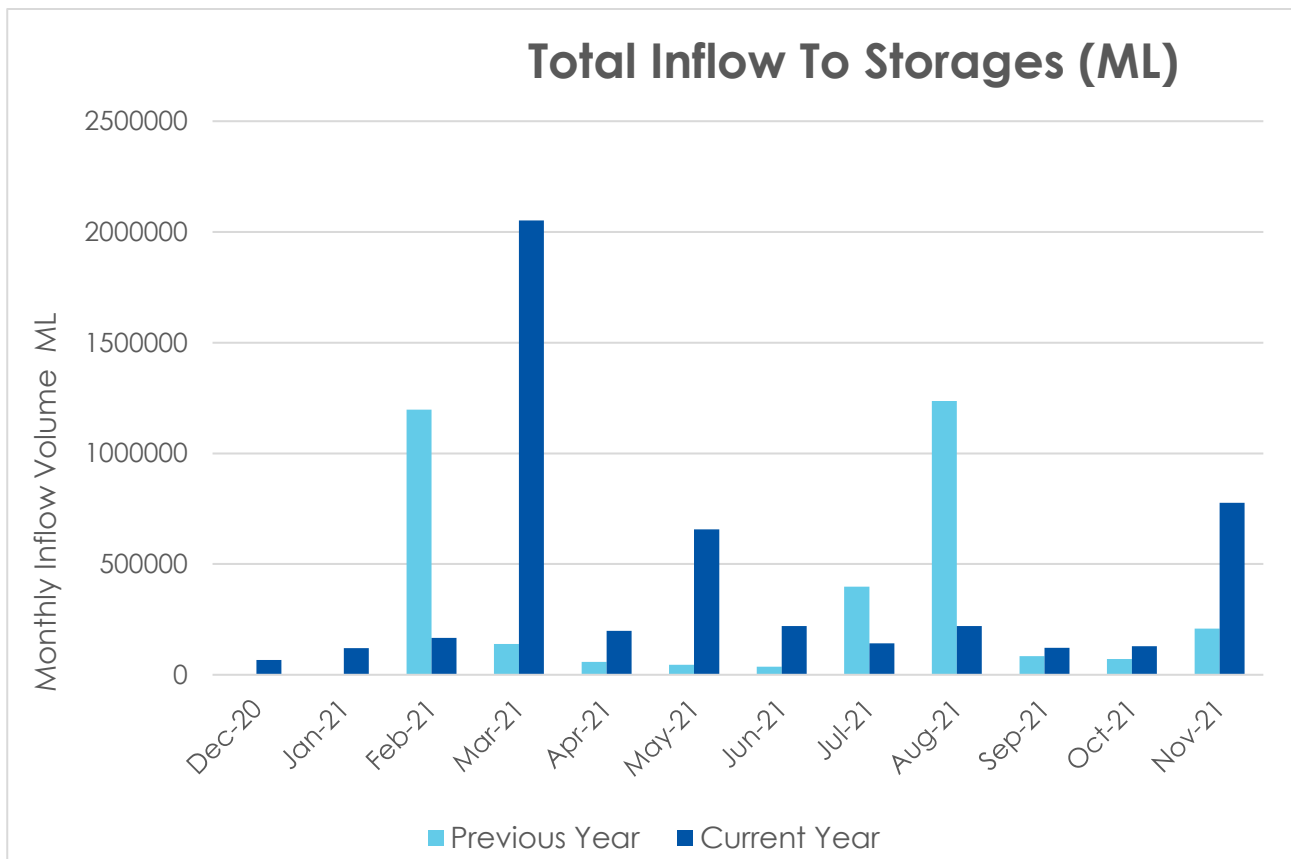
During November 2021, rainfall was well above the November long-term median for all catchment areas. WaterNSW records show that this is the highest rainfall received in November for at least the past 30 years.



Inflows

Sydney's storages received significant inflows during November 2021. The inflow to Warragamba Dam is already more than double the annual average.

Monthly Inflow (ML)	Warragamba	Upper Nepean	Woronora	Tallowa	TOTAL
	382,659	12,847	933	379,789	776,229

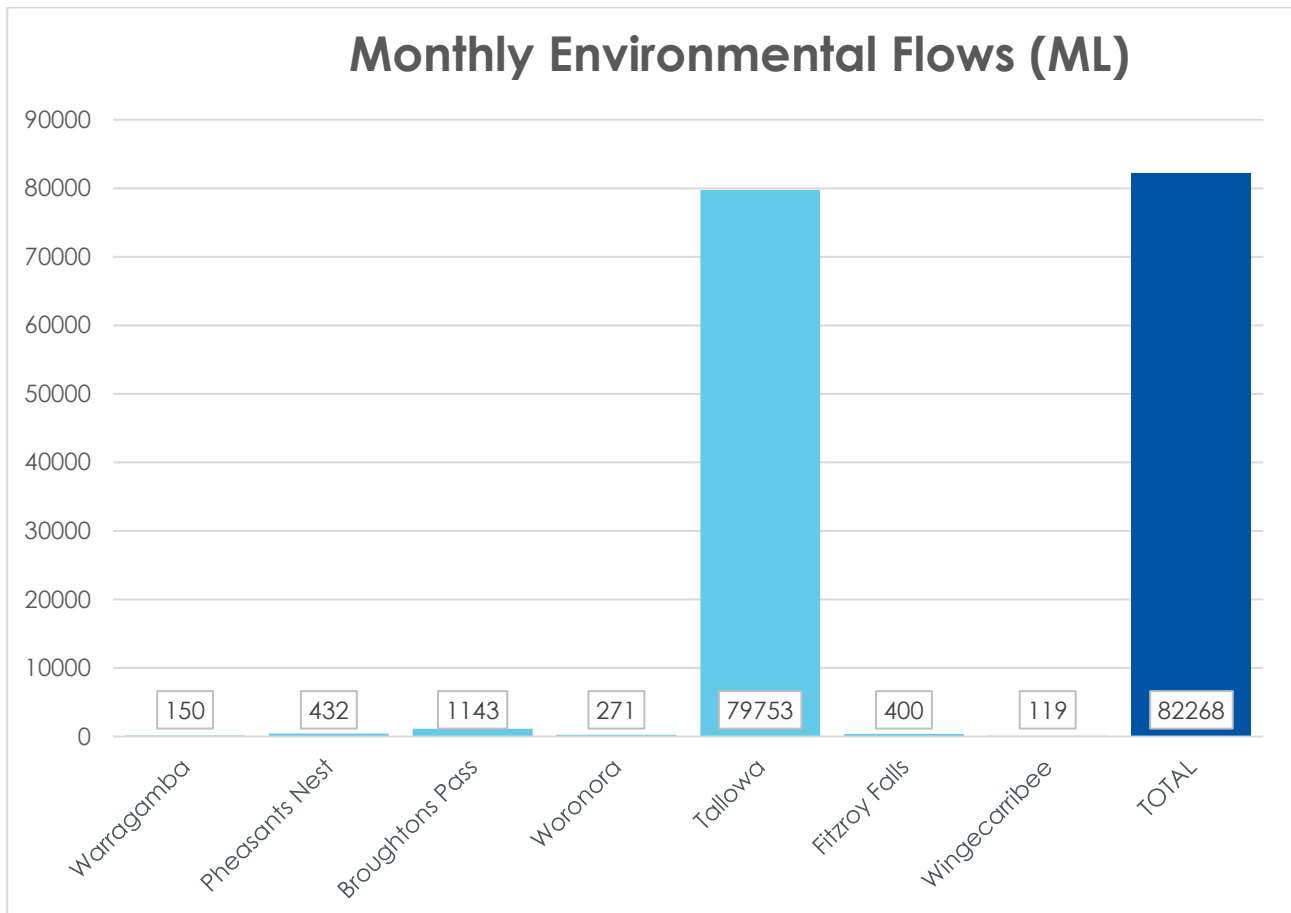


Calendar Year	Warragamba Inflow (ML)	Upper Nepean Inflow (ML)	Woronora Inflow (ML)	Tallowa Inflow (ML)	TOTAL
Average Annual	1,069,000	316,000	30,000	1,071,000	2,486,000
2018	103,234	32,199	2,433	136,559	274,425
2019	50,350	35,828	2,755	78,024	166,956
2020	1,745,619	276,838	34,570	1,487,432	3,544,459
2021 to 30 Nov	2,286,771	268,354	16,578	2,232,884	4,804,588

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

Environmental releases

During November, a total of 82 268 ML was released from Sydney water sources for the environment.

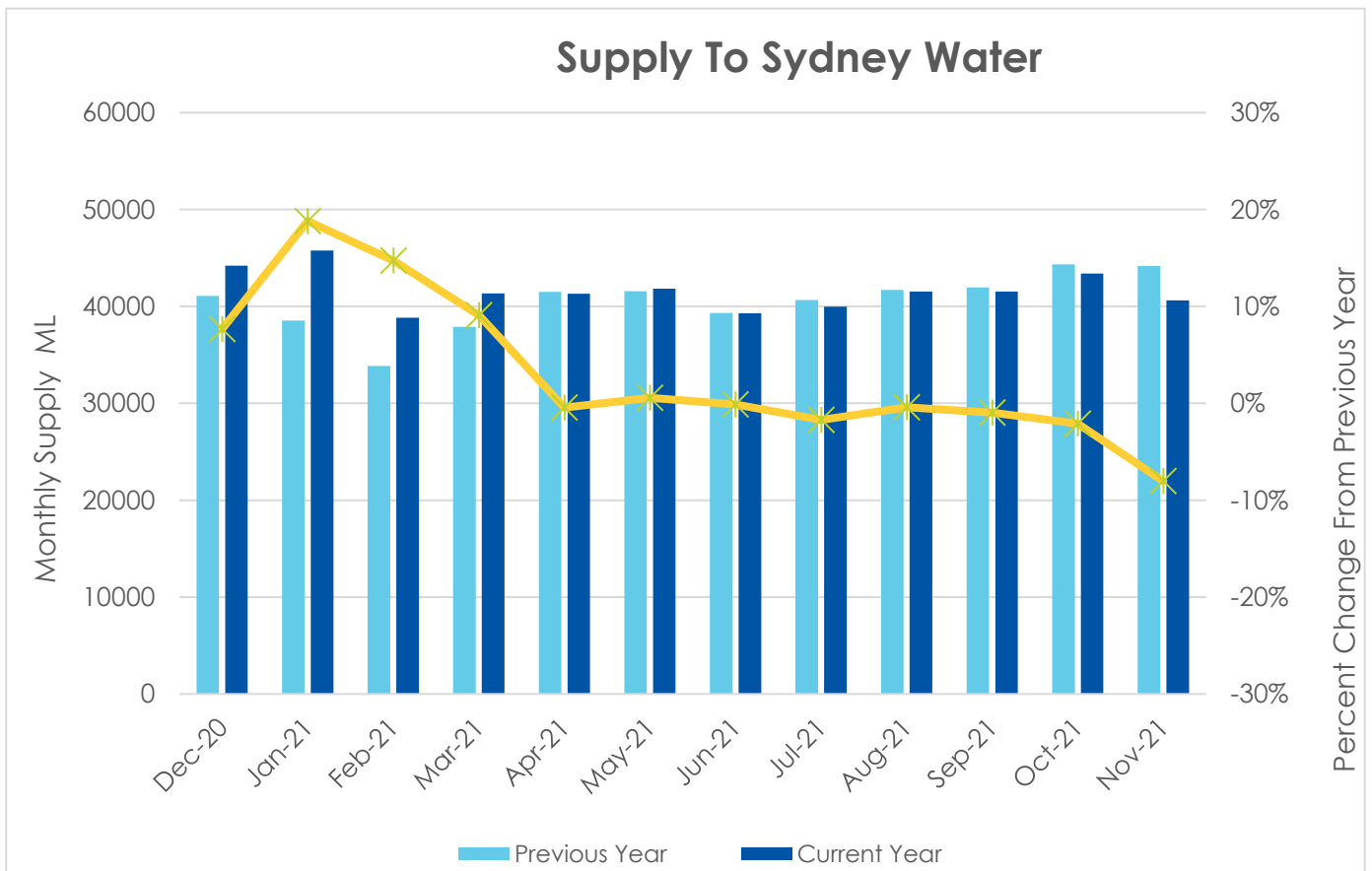


Water supplied to our customers

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 40,633ML with a daily average supply of 1,354ML/D, which is 8% less than the same time last year (demand reduced due to the heavy rainfall).

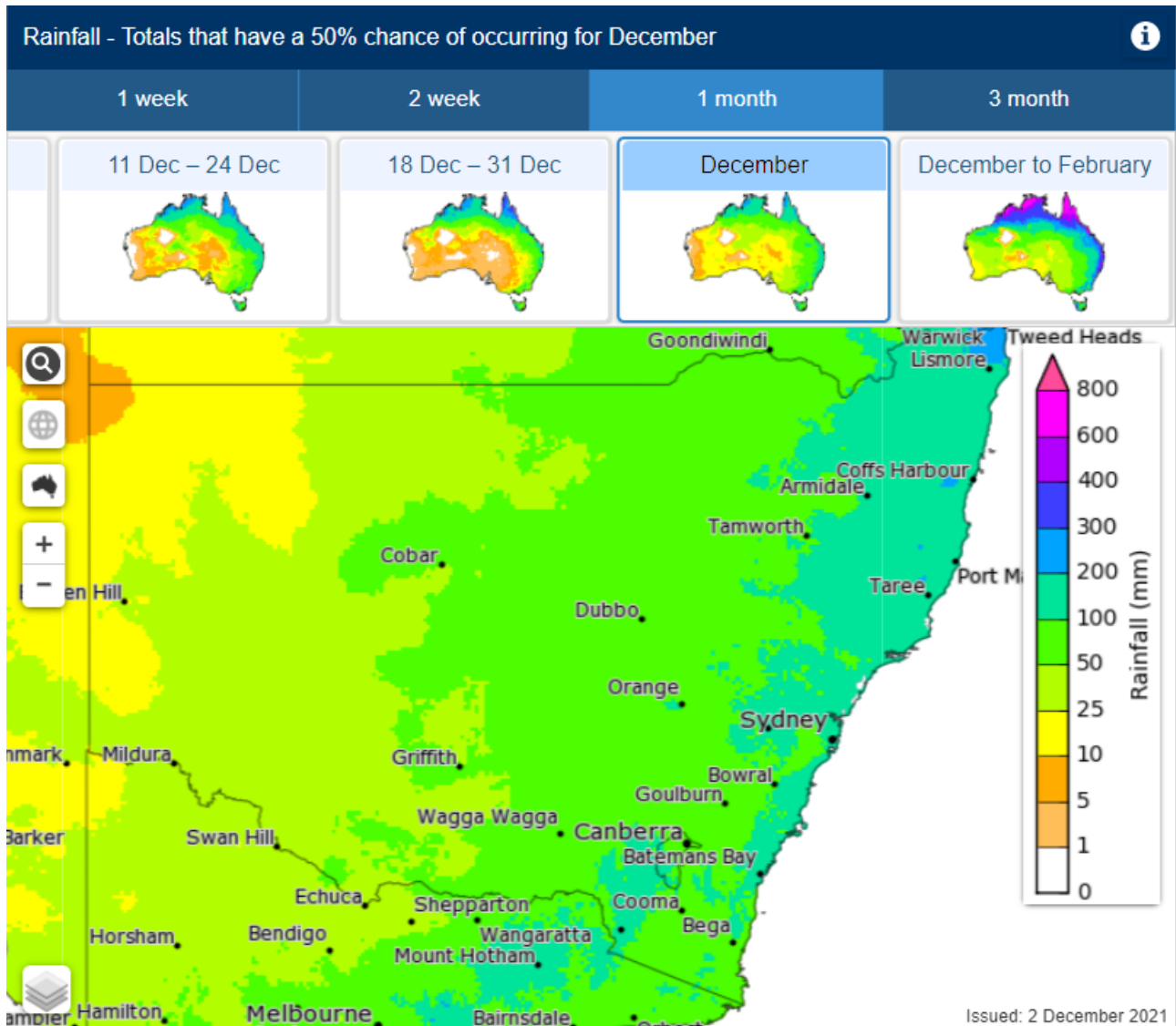


WaterNSW supplies raw, untreated water from our dams to the water filtration plants below:

Filtration Plant	Monthly Supply (ML)	Average Daily Supply (ML)
Cascade	395	13
Illawarra	2453	82
Macarthur	2566	86
Nepean	361	12
North Richmond	510	17
Orchard Hills	1758	59
Prospect	31375	1046
Warragamba	87	3
Woronora	1128	38
TOTAL	40633	1354

Forecast

According to the Bureau of Meteorology, the remainder of December is likely to be wetter than average for Sydney's catchment areas. BOM forecast rainfall amounts are shown 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):
2,581,850 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>