River Murray Flow Report





Report #13/2020

Issued 10:00 am 27 March 2020

This supersedes the previous flow report issued by the Department for Environment and Water (DEW) on 20 March 2020. The next flow report will be provided on Friday 3 April 2020.

In this report, for ease of representation, large volumes of water are expressed in gigalitres (GL), while smaller volumes are expressed in megalitres (ML). One GL is equal to 1 000 ML.

WATER ALLOCATIONS

Water allocations for South Australian River Murray Class 3 water access entitlement holders are 100%.

For more information on South Australia's water allocations visit the <u>DEW website</u> or email <u>DEWRiverMurrayOps@sa.qov.au</u>

For information on Victoria's water allocations visit Victorian Water Allocations

For information on NSW water allocations visit NSW Water Allocation Statements.

EARLY INFORMATION FOR 2020-21 WATER USE YEAR

In preparation for the 2020-21 water use year, regular updates with early information will continue to be provided ahead of the projected opening minimum water allocation announcement on 15 April 2020.

In response to the Department of Health's guidelines on organised gatherings, the Department for Environment and Water (DEW) is not able to conduct public information sessions this year on the 2020-21 water allocation announcement and processes. DEW understands the importance of communicating with water users on these matters. As such, DEW is currently considering alternative options to provide information and engage with water users. As more details become available, this information will be made available through the River Murray Flow Report, however you can also check on the Department for Environment and Water website for the latest information.

RM WATER USERS REMINDED OF REQUIREMENT TO REMAIN WITHIN ALLOCATIONS

Water users along South Australia's River Murray are reminded of the requirement to ensure that they have not used more water than their available water allocation and to submit meter readings to the Department for Environment and Water (DEW) at the end of each quarter.

Since 2019, penalties apply if water users exceed the volume of water available on their account (their water allocation) at the end of each quarter. This is to help ensure that water can be reliably delivered to all River Murray water users in South Australia and to protect the passage of environmental water through the river system. This change does not affect those water users who operate within the terms of their water account and ensure a credit balance at the end of each quarter. The majority of South Australia's River Murray water users remain within their available allocation.

Water users are encouraged to closely monitor their water use throughout the year and remain within their water allocations. Water users can submit an online meter reading at any time and elect to receive a water usage advice statement (similar to a bank statement) by email or SMS. This helps ensure they are monitoring water use and remaining within their available water allocation.

The end of Quarter 3 of the 2019-20 water use year is 31 March 2020. A penalty will be applied in all instances where the volume of water taken for Quarter 3 is in excess of the available allocation on a water account after **5:00 pm on 31 March 2020**.

It is important to note that in order for a water trade to be considered for Quarter 3 of the 2019-20 water use year, the application must be submitted to DEW before 5:00 pm on 31 March 2020.

For more information or to access the online meter reading form, please see the <u>DEW website</u> or contact the Berri water licencing office via telephone: (08) 8595 2053 or via email: <u>DEWwaterlicensingberri@sa.gov.au</u>.

NORTHERN BASIN

Recent heavy rainfall events have generated inflows in most river systems across the Northern Basin (Barwon-Darling system). On 10 March 2020, the Darling River started to flow into Menindee Lakes (Lake Wetherell). On 23 March 2020, Water NSW advised that the total forecast volume expected to reach Menindee Lakes has increased to around 290 to 355 GL. The projected volume will be updated as changes are observed. For the latest information on inflows please visit https://www.waternsw.com.au/about/newsroom

The Menindee Lakes are currently under the control of Water NSW. If the volume of water in Menindee Lakes increases to 640 GL the Murray-Darling Basin Authority can direct releases to supplement the River Murray system, which is unlikely based on the current estimates of inflow.

FLOW OUTLOOK

Reduced Entitlement Flow will continue during the 2019-20 water year. In addition to reduced Entitlement Flow, South Australia will receive water for the environment.

The flow at the South Australian border is approximately 5 GL/day and will decrease to around 4.4 GL/day during the coming week. It comprises:

- reduced March Entitlement Flow (5.1 GL/day);
- water for the environment (see below Water for the Environment); and
- interstate trade adjustments.

The flow over Lock 1 is approximately 2.4 GL/day and will decrease to around 2 GL/day during the coming week, depending on weather conditions and extractions.

It is important to note that flow forecasts in this advice are based on the information available at the time of preparation. Advice may change as new gauging information becomes available or due to rainfall events or changed operations upstream.

WATER FOR THE ENVIRONMENT

Water for the environment is currently being used to:

- provide for barrage releases to the Coorong to support a productive, food-rich environment for fish and birds;
- maintain good connections from the Coorong to the upstream areas of the River Murray, and its tributaries, to enable fish movement and migration;
- maintain water quality, salinity and water levels below critical thresholds in the River Murray channel, Lower Lakes and Coorong;
- deliver a range of outcomes to wetlands in the Riverland via arrangements with the South Australian Murray-Darling Basin Natural Resources Management Board, Renmark Irrigation Trust, Banrock Station and the Nature Foundation South Australia; and
- deliver a range of outcomes to wetlands on the Chowilla floodplain via The Living Murray.

MURRAY MOUTH

Dredging operations at the Murray Mouth commenced on 9 January 2015 to maintain connectivity (exchange of water) between the Coorong and the Southern Ocean. At 22 March 2020, a total of approximately 5 537 913 cubic metres of sand had been removed by dredging operations.

Two dredges are operating between the Goolwa and Tauwitchere channels 24 hours a day, 7 days a week.

Barrage releases combined with dredging have helped to maintain connectivity of the Murray Mouth.

There are a number of shallow zones in and adjacent to the Murray Mouth. Mariners should use caution when traversing the mouth area, follow all directions, reduce speed and avoid travelling at low tide. Mariners equipped with echo sounders should check depths regularly. Navigation through the Murray Mouth is only permitted during daylight hours. Exclusion Zones established around the dredging operations are in place to ensure public safety. Refer to Notice to Mariners No 42 of 2016 Notice 42.

There is a partial park closure in place for the northern tip of the Coorong National Park. For more information visit Coorong partial park closure notice.

BARRAGE OPERATIONS AND WATER LEVELS IN THE LOWER LAKES

The water level in Lake Alexandrina is approximately 0.52 m AHD and Lake Albert is approximately 0.46 m AHD. The difference in water level is due to wind effects.

Water for the environment has enabled continuous fishway releases and small barrage releases to be undertaken in autumn. During the past week, fishways at all the barrages have provided connectivity between the Coorong and the Lower Lakes. In addition, Tauwitchere Barrage has one gate open plus the fishway. As of Tuesday 24 March 2020, the weekly releases were approximately 2 GL. During adverse weather conditions, SA Water will operate the barrages to minimise the risk of seawater entering Lake Alexandrina, therefore minimising any negative salinity impacts from reverse flow events.

Water levels and barrage operations are monitored closely by the South Australian Government, Murray-Darling Basin Authority and Commonwealth Environmental Water Office.

LOCK 3 RIVER VESSEL WASTE DISPOSAL STATION

The Lock 3 River Vessel Waste Disposal Station is currently out of commission due to an infrastructure failure. This means that boat operators who need to empty sewage tanks will need to use the nearest alternative waste facilities located at Waikerie and Loxton. Alternatively boat operators who require an urgent pump-out in the Kingston-on-Murray area can contact Mr Hayden Smith on 0457 820 553 for help or advice. Normal boat waste (domestic or galley waste) can still be deposited at the Lock 3 facility at the present time.

NAVIGATION ISSUES

Sandbars in the vicinity of the Murray Mouth may cause navigation hazards. Mariners are advised to navigate with caution when operating in the area. Sandbars are also present along sections of the River Murray downstream of Locks 7 and 8 and in South Australia. All Mariners should be aware of the risk of submerged navigation hazards and should regularly check river depth.

SOUTH AUSTRALIAN RIVERLAND FLOODPLAINS INTEGRATED INFRASTRUCTURE PROGRAM CONSTRUCTION WORKS

Katarapko

Construction works on the Katarapko Floodplain are progressing well. It is expected that the complete construction of all infrastructure will be finished before the end of May 2020. All of the major concrete works and track surfacing is complete, with some minor works required around the structures. Still to come is the installation of the guard rails on the structures and commissioning of all the structures to ensure they operate properly.

Some parts of the Murray River National Park currently remain closed for camping and other recreational activities during this period. For safety reasons, the following water access restrictions apply to river vessels and people (other than authorised personnel) until late March 2020:

- Sawmill Creek, the entire length between Katarapko Creek and Eckert's Creek; and
- Eckert's Creek, for 1.3 kilometres upstream of the confluence point with Katarapko Creek (ie The Splash).

Pike

Although work on the regulating structures and blocking bank on the Pike Floodplain is now complete, other works continue in this area. Vessels and persons other than those participating in the works are still prohibited from entering the Pike River near the Rumpagunyah Creek and Tanyaca Creek junction, downstream of the Mundic Creek junction.

RIVER MURRAY WATER LEVELS

Below is a table of River Murray water levels at a number of locations from Lock 10 to Murray Bridge.

River Murray Water Levels

Location	River km	Normal Pool Level	Current Level 25/3/2020	1974 Flood Level	1993 Flood Level	2016 High Water Level
	825.0	(m AHD) 30.80	(m AHD) 30.92	(m AHD) 33.81	(m AHD) 33.32	(m AHD) 32.72
Lock 10						
Lock 9 Kulnine	764.8	27.40	27.35	30.03	29.44	28.85
Lock 8 Wangumma	725.7	24.60	23.63	27.60	27.19	26.85
Lock 7 Rufus River	696.6	22.10	21.58	25.70	25.24	24.97
Lock 6 Murtho	619.8	19.25	19.26	21.03	20.50	20.19
Renmark	567.4	-	16.33	18.54	18.04	17.44
Lock 5	562.4	16.30	16.33	18.07	17.50	17.05
Lyrup	537.8	-	13.33	16.85	16.26	15.80
Berri	525.9	-	13.30	15.81	15.74	15.21
Lock 4	516.2	13.20	13.30	15.65	15.08	14.73
Loxton	489.9	-	10.04	15.05	14.12	13.54
Cobdogla	446.9	-	9.91	13.44	12.38	11.59
Lock 3	431.4	9.80	9.88	13.16	12.02	10.98
Overland Corner	425.9	-	6.28	12.73	11.58	10.41
Waikerie	383.6	-	6.28	11.26	10.24	9.20
Lock 2	362.1	6.10	6.19	10.28	9.30	8.32
Cadell	332.6	-	3.38	9.17	8.08	7.01
Morgan	321.7	-	3.34	8.85	7.65	6.38
Lock 1 Blanchetown	274.2	3.20	3.27	6.81	5.38	4.46
Swan Reach	245.0	0.75	0.54	6.06	4.51	3.11
Mannum PS	149.8	0.75	0.54	3.15	1.90	1.33
Murray Bridge	115.3	0.75	0.50	2.06	1.26	1.04

Note that the above water levels may be affected by local wind conditions

FURTHER INFORMATION

The WaterConnect website is South Australia's comprehensive water information portal. For real-time data (like salinity, water levels) go to the following page: <u>WaterConnect Real-time water data.</u>

Up-to-date River Murray salinity, flow and water level information can be accessed at the Department for Environment and Water, SA Water and Murray-Darling Basin Authority websites:

- Water allocation and carryover announcements
- River Murray real-time water data
- SA Water River Murray info levels, flows etc.
- Murray-Darling Basin real-time water data

The latest news, information and announcements about the River Murray and Basin Plan are available at <u>River Murray Update</u>.

The Department for Environment and Water has published a series of inundation maps for the River Murray. They are available at <u>River Murray Inundation Maps.</u>

Information on the management of acid drainage water in the Lower River Murray can be accessed at: Acid drainage water LMRIA

Details of river height and rainfall information in the River Murray within Victoria and New South Wales are available at the Bureau of Meteorology website:

- Victoria rainfall and river conditions
- NSW rainfall and river conditions

Information provided by the Commonwealth Environmental Water Office can be accessed at <u>CEWH Environmental</u> <u>Watering.</u>

Information on The Living Murray can be accessed at MDBA TLM.

Chowilla Floodplain Icon Site management Chowilla-floodplain.

Department for Environment and Water Home page.

Information provided by the Department of Planning, Transport and Infrastructure on boat licences, registering motor boats, owning and operating water craft, and boat and marine safety can be accessed at <u>Boating and marine</u>.

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