

River Murray Flow Report



Report #5/2022

Issued 10:00 am 04 February 2022

This supersedes the previous flow report issued by the Department for Environment and Water (DEW) on 28 January 2022. The next flow report will be provided on Friday 11 February 2022.

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.



FLOW OUTLOOK

The flow at the South Australian border is approximately 27 GL/day and will decrease to 25 GL/day over the coming week. It comprises:

- full February Entitlement Flow (6.929 GL/day);
- plus water for the environment (see below *Environmental News*);
- interstate trade adjustments;
- Additional Dilution Flow (ADF); and
- Unregulated flow.

The flow over Lock 1 is approximately 26 GL/day and will decrease to 24 GL/day over the coming week.

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.

ENVIRONMENTAL NEWS

Fish monitoring undertaken throughout November and December 2021 has shown a significant breeding response from native fish in the River Murray due to recent high flows in the system as well as the delivery of water for the environment. This monitoring event has recorded the largest numbers of golden perch (callop) larvae in eight years. For more information visit [Environment SA News](#).

Unregulated flow from rainfall in upstream catchments continues to reach South Australia as flows from the Murray, Murrumbidgee and Lower Darling combine. South Australia is also receiving water for the environment from South Australia's environmental water allocation and return flows from upstream watering.

The current flows from the River Murray and upstream tributaries, through to the Coorong, will provide a range of benefits for the environment in SA, including:

- providing 'flowing water habitat' to benefit native fish, animals and plants in the River Murray channel that have adapted to a riverine environment, including supporting conditions that favour spawning and recruitment of golden perch and Murray cod. Monitoring detected golden perch eggs and larvae at various sites throughout the Lower Murray during spring;

- providing for barrage releases to the Coorong to support a productive, food-rich environment for fish and birds and promote suitable conditions for estuarine fish to spawn and support salinities and water levels that encourage the reproduction and growth of keystone native plant *Ruppia tuberosa*;
- providing habitat for birds, frogs and threatened small-bodied native fish species in the Lower Lakes;
- maintaining good connections from the Coorong to the upstream areas of the River Murray, and its tributaries, to enable fish movement and migration;
- maintaining healthy water quality, salinity and water levels in the River Murray Channel and the Lower Lakes and Coorong;
- removing excess salt from the River Murray; and
- delivering a range of outcomes to wetlands in the Riverland via arrangements with Nature Foundation Limited, Australian Landscape Trust, Accolade Wines Ltd and the Murraylands and Riverland Landscape Board.

YABBY MONITORING

A targeted yabby monitoring project was underway last week at various wetlands within Meningie, Narrung, Wellington and Hindmarsh Island. The project stemmed from last years' Yarning Circles project whereby Ngarrindjeri community members expressed a desire to get back on Country, participate in cultural activities, learn new skills in ecological monitoring and share stories between generations.

The Ngarrindjeri Aboriginal Corporation (NAC) initiated the idea with funding and project management support from the Murray-Darling Basin Authority's – The Living Murray Program and the Department for Environment and Water. The University of Adelaide and NAC also co-developed the methodology with input from Ngarrindjeri community participants.

Monitoring included catching, weighing, measuring, sexing and assessing the condition of yabbies, along with testing water quality and depth.



Photo credit: Tina Kartinyeri (NAC)



Photo credit: Luke Vial (DEW)

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 30 January 2022, a total of approximately 8 040 464 cubic metres of sand had been removed by dredging operations. Both dredges are currently operating in the Goolwa and Tauwichee channels 24 hours a day, 5 days a week.

Barrage releases combined with dredging have helped to maintain flow connectivity of the River Murray Channel to the Murray Mouth and have assisted in exporting salt from the river system.

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 0.82 m AHD and Lake Albert is approximately 0.65 m AHD. The difference is due to wind effects.

As of Tuesday 01 February 2022, the weekly releases were approximately 118 GL. Total daily release volumes from the barrage can now be accessed via [Water Data SA](#) by searching for the gauge [A4261002](#).

Gate openings at the barrages during the week can be seen in Table 1. Barrage releases are currently being prioritised through Tauwichee barrage in order to maintain water levels in the Coorong.

Table 1: Number of barrage gates open each day for the week ending Tuesday 01 February 2022

Barrage (total number of gates)	26 Jan 2022	27 Jan 2022	28 Jan 2022	29 Jan 2022	30 Jan 2022	31 Jan 2022	01 Feb 2022	Objective of releases
Goolwa (120)	3	3	3	3	3	3	3	Maintain connectivity between the River Murray channel through to the Murray Mouth to support fish migration, provide some scouring of the Goolwa Channel and Murray Mouth.
Mundoo (25)	0	0	0	0	0	0	0	Provide some localised freshening conditions in the Mundoo channel and support fish passage.
Boundary Creek (5)	1*	1*	1*	1*	1*	1*	1*	Provide attractant flow adjacent the fish way to support fish passage.
Ewe Island (110)	6	6	6	6	6	6	6	Releases will help push fresher water down the Coorong to assist lowering salinity levels and provide habitat diversity.
Tauwichee (319)	60	40 → 50	40	40	40	40	40	
Fishways	Fishways at all barrages and at Hunters Creek (11 in total) were open during the entire week							Provide for fish passage between the Coorong and Lower Lakes.

*Automated gate utilised to maximise delivery to Coorong and avoid reverse flows.

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.

RIVER VESSEL WASTE DISPOSAL STATIONS

The Lock 3 River Vessel Waste Disposal Station is currently out of commission due to an infrastructure failure. Investigations are currently underway to replace the station. In the interim, river vessel users can contact Riverland Tank and Drain directly on 0412 839 392 for emptying of black and grey water in the Lock 3 area. Alternatively they can utilise the nearest alternative waste facility located at Waikerie. 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.

RIVER MURRAY WATER LEVELS

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

Location	River km	Normal Pool Level (m AHD)	Current Level 02/02/2022 (m AHD)	2016 High Water Level (m AHD)
Lock 10	825.0	30.80	30.82	32.72
Lock 9 Kulnine	764.8	27.40	27.40	28.85
Lock 8 Wangumma	725.7	24.60	24.64	26.85
Lock 7 Rufus River	696.6	22.10	22.91	24.97
Lock 6 Murtho	619.8	19.25	19.29	20.19
Renmark	567.4	-	16.41	17.44
Lock 5	562.4	16.30	16.35	17.05
Lyrup	537.8	-	13.56	15.80
Berri	525.9	-	13.39	15.21
Lock 4	516.2	13.20	13.26	14.73
Loxton	489.9	-	11.04	13.54
Cobdogla	446.9	-	-	11.59
Lock 3	431.4	9.80	9.81	10.98
Overland Corner	425.9	-	7.28	10.41
Waikerie	383.6	-	6.54	9.20
Lock 2	362.1	6.10	6.13	8.32
Cadell	332.6	-	4.10	7.01
Morgan	321.7	-	3.77	6.38
Lock 1 Blanchetown	274.2	3.20	3.25	4.46
Swan Reach	245.0	0.75	1.27	3.11
Mannum	149.8	0.75	0.90	1.33
Murray Bridge	115.3	0.75	0.77	1.04

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

FURTHER INFORMATION

The Water Data SA website is South Australia's comprehensive water information portal. For real-time data (like salinity, water levels) go to the following page: [Water Data SA](#).

Up-to-date River Murray salinity, flow and water level information can also be accessed at the 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 [River Murray Update](#).

The Department for Environment and Water has published a series of inundation maps for the River Murray. They are available at [River Murray Inundation Maps](#).

Information on the management of acid drainage water in the Lower River Murray can be accessed at: [Managing Acid Sulfate Soils Research Project](#)

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 [CEWH Environmental Watering](#).

Information on The Living Murray can be accessed at [MDBA TLM](#).

Chowilla Floodplain Icon Site management [Chowilla-floodplain](#).

[Katarapko Floodplain](#) site management

[Pike Floodplain](#) site management

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 [Boating and marine](#).

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