

River Murray Flow Report



Report #41/2019

Issued 10:00 am 25 October 2019

This supersedes the previous flow report issued by the Department for Environment and Water (DEW) on 18 October 2019. The next report will be provided on Friday 1 November 2019.

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 AND PRIVATE CARRYOVER

Water allocations for South Australian River Murray Class 3 water access entitlement holders remain at 87%.

The next water allocation announcement will be issued on Friday 1 November 2019. Water availability updates will be provided twice a month during 2019-20 while water allocations are less than 100%.

Further information is included in [SA's River Murray Water Allocation Statement](#).

In 2019-20, private carryover has been made available for eligible Class 3 entitlement holders. There are 869 eligible water users with a total volume of private carryover of 20.4 GL for use (or trade) in 2019-20. The maximum allocation against entitlements for a water year is 100%, including private carryover. To make it easier to understand how private carryover works, please view the [carryover video](#).

FLOW OUTLOOK

The flow at the South Australian border is approximately 13 GL/day and will decrease to around 9 GL/day during the coming week. It comprises:

- reduced October Entitlement Flow of 4.4 GL/day;
- increased flow of water for the environment (see below *Water for the Environment*); and
- interstate trade adjustments.

Due to the dry water resource conditions across the Murray-Darling Basin, South Australia is currently receiving reduced monthly Entitlement Flow. During October 2019, South Australia will receive a reduced Entitlement Flow of 136.4 GL, compared to the full October Entitlement Flow of 170.5 GL. It is likely that reduced Entitlement Flow will continue during 2019-20 unless the water resource conditions improve enough to provide South Australia with close to its full Entitlement Flow. In addition to the reduced Entitlement Flow, South Australia will receive water for the environment.

The flow over Lock 1 is approximately 12 GL/day and will decrease to around 8 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 delivered along the River Murray to mimic the natural river flow pattern typical of spring. Increased flow during spring boosts environmental productivity and promotes conditions that favour native animals and plants. After being re-used multiple times along the river and watering a number of interstate wetlands upstream, the water is being used in South Australia to:

- increase 'flowing water habitat' to benefit native fish, animals and plants in the River Murray channel that have adapted to a riverine environment;
- boost productivity and deliver food resources from upstream and wetlands to support native fish in the River Murray channel, including golden perch and Murray cod;
- provide for increased spring 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;

- improve salinity and water quality in the River Murray channel, Lower Lakes and Coorong; and
- deliver a range of outcomes to wetlands in the Riverland via arrangements with South Australian Murray-Darling Basin Natural Resource Management Board, Renmark Irrigation Trust and Nature Foundation South Australia.

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.

Dredging is being undertaken 24 hours a day, 5 days a week in the Goolwa and Tauwichee channels. At 20 October 2019, a total of approximately 5 002 766 cubic metres of sand had been removed by dredging operations. 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 and Lake Albert is approximately 0.87 m AHD. The increased water level in the Lower Lakes is due to water for the environment being provided. This water is, and will be, managed through the Lower Lakes to the Coorong via barrage releases. Water for the environment will enable barrage releases to be undertaken for a longer period.

As of Tuesday 22 October 2019, the weekly barrage releases were approximately 100 GL. All fishways remain open. 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.

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.

SA RIVERLAND FLOODPLAINS INTEGRATED INFRASTRUCTURE PROGRAM CONSTRUCTION WORKS

Katarapko

Construction works on the Katarapko Floodplain are expected to be completed by mid-2020. As a result, some parts of the Murray River National Park will be temporarily closed for camping and other recreational activities. See the link for temporary park closure map [Caring for Katarapko](#)

For safety reasons, the following water access restrictions apply to river vessels and people (other than authorised personnel) until late March 2020:

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

The construction works will enable over 1120 hectares of floodplain to be inundated more regularly to improve ecological health and resilience. For more information, or to receive regular updates, about the Katarapko Floodplain Project please contact the Department for Environment and Water's Engagement Officer, Ms Ellee Eleftheriadis on 8595 2148 or email ellee.eleftheriadis2@sa.gov.au

Pike

Regulating structures and a blocking bank on the Pike Floodplain are expected to be completed by December 2019. During the construction period, vessels and persons other than those participating in the works are prohibited from entering the Pike River near the Rumpagunyah Creek and Tanyaca Creek junction, downstream of the Mundic Creek junction. The works will enable a portion of the floodplain to be inundated more regularly to improve ecological health and fish to move freely between the River Murray and the floodplain.

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 (m AHD)	Current Level 23/10/2019 (m AHD)	1974 Flood Level (m AHD)	1993 Flood Level (m AHD)	2016 High Water Level (m AHD)
Lock 10	825.0	30.80	30.87	33.81	33.32	32.72
Lock 9 Kulnine	764.8	27.40	27.40	30.03	29.44	28.85
Lock 8 Wangumma	725.7	24.60	25.46	27.60	27.19	26.85
Lock 7 Rufus River	696.6	22.10	22.66	25.70	25.24	24.97
Lock 6 Murtho	619.8	19.25	19.28	21.03	20.50	20.19
Renmark	567.4	-	16.35	18.54	18.04	17.44
Lock 5	562.4	16.30	16.33	18.07	17.50	17.05
Lyrup	537.8	-	13.35	16.85	16.26	15.80
Berri	525.9	-	13.28	15.81	15.74	15.21
Lock 4	516.2	13.20	13.25	15.65	15.08	14.73
Loxton	489.9	-	10.42	15.05	14.12	13.54
Cobdogla	446.9	-	9.88	13.44	12.38	11.59
Lock 3	431.4	9.80	9.81	13.16	12.02	10.98
Overland Corner	425.9	-	6.58	12.73	11.58	10.41
Waikerie	383.6	-	6.30	11.26	10.24	9.20
Lock 2	362.1	6.10	6.11	10.28	9.30	8.32
Cadell	332.6	-	3.55	9.17	8.08	7.01
Morgan	321.7	-	3.42	8.85	7.65	6.38
Lock 1 Blanchetown	274.2	3.20	3.21	6.81	5.38	4.46
Swan Reach	245.0	0.75	0.93	6.06	4.51	3.11
Mannum PS	149.8	0.75	0.87	3.15	1.90	1.33
Murray Bridge	115.3	0.75	0.82	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:

[WaterConnect Real-time water data](#)

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 [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 [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 [CEWH Environmental Watering](#)

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

[Boating and marine](#)

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