

RIVER MURRAY FLOW REPORT

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Report #10/2015

Issued 10:00 am 13 March 2015

This supersedes the previous flow report issued by the Department of Environment, Water and Natural Resources (DEWNR) on 6 March 2015. The next flow report, including the water resources update, will be provided on Friday 20 March 2015.

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 9.8 GL/day and will decrease to around 6.5 GL/day during the coming week. It comprises the normal March Entitlement Flow of 6 GL/day plus environmental water from the Commonwealth Environmental Water Holder (CEWH). The environmental water is being delivered to provide in-channel, Lower Lakes, and Coorong environmental and water quality benefits. In particular, it will enable the maintenance of barrage flows to the Coorong in the coming months. South Australia is working with the CEWH to identify further opportunities to deliver environmental water during autumn.

The flow over Lock 1 is approximately 7.2 GL/day and will decrease to around 5.5 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. They may change as new gauging information becomes available, or due to rainfall events or changed operations upstream. Flow forecasts are dependent on predictions made by the Bureau of Meteorology, Murray-Darling Basin Authority and water management agencies in upstream jurisdictions. They will be revised as new information becomes available.

MANAGEMENT OF SOUTH AUSTRALIA'S DEFERRED WATER

The Murray-Darling Basin Authority advised that on 1 March 2015, South Australia had 42.7 GL of water deferred and stored in Dartmouth (29.5 GL for critical human water needs and 13.2 GL for private carryover use in future dry years). Volumes stored are adjusted for net evaporation losses until delivered to South Australia.

DEWNR is continuing to investigate opportunities to defer additional Entitlement Flow during 2014-15.

MURRAY MOUTH

Dredging operations at the Murray Mouth commenced on 9 January 2015 to maintain connectivity (exchange of water) between the river and the Southern Ocean. Dredges are currently operating in the Tauwitchere and Goolwa Channels. Mariners are reminded that navigation through the Murray Mouth is only permitted during daylight hours and that Exclusion Zones established around the dredging operations are still in place to ensure public safety. For more information refer to the Notice to Mariners at:

http://webapps.transportsa.com.au/news/templates/dtei_template2010.aspx?articleid=2865&zoneid=15

There is also a partial park closure in place for the northern tip of the Coorong National Park. For more information refer to the following:

http://www.environment.sa.gov.au/parks/Safety/Park_closures/141219-coorong-national-park

Signage has been installed at appropriate locations and flyers have been distributed advising of Exclusion Zones.

Any boats navigating through the Murray Mouth region should proceed with caution due to sandbars being present at shallow depth. Boats equipped with 'echo sounders' are strongly encouraged to regularly check depths and avoid travelling at low tide.



BARRAGE OPERATIONS AND WATER LEVELS IN THE LOWER LAKES

The water level in Lake Alexandrina is approximately 0.54 m AHD and Lake Albert is approximately 0.51 AHD. Barrage releases are being prioritised through Tauwitchere and Goolwa, adjacent to the fishways. SA Water will continue to operate the barrages to minimise any negative salinity impacts from reverse flow events. All fishways are operating.

To see live salinity and water level data at various locations on the River Murray and in the Lower Lakes, please refer to the following website: <http://www.waterconnect.sa.gov.au/Systems/RTWD/SitePages/Home.aspx>

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

WEIR POOL OPERATIONS

Lock 1 is approximately 0.1 m below the normal pool level of 3.2 m AHD to enable engineering investigations to be undertaken at the weir.

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 Lock 7 and 8 and in South Australia. All watercraft users should be aware of the risk of submerged navigation hazards, and should regularly check river depth.

CONSTRUCTION WORKS

Lock 7

Remedial works at Lock 7 commenced on 27 January 2015 and will take approximately 12 weeks to complete. The works are necessary to maintain the structural integrity of the Lock chamber. During this period Lock 7 will be closed to navigation.

Lake Victoria Outlet (advanced notice)

Remedial works at the Lake Victoria Outlet are planned to commence on 16 March 2015 and will take approximately eight weeks to complete. This is not anticipated to have any impact on river users.

Pike Floodplain

Construction works are underway at Banks B and C on the Pike Floodplain to reinstate fish passage and hydraulic connectivity between the River Murray and Mundic Creek. Works are expected to be completed by July 2015. This activity will not cause restrictions to navigation on the main channel of the River Murray. Mundic Creek Road will be closed while works are underway.

Yatco Lagoon

Work is underway to relocate pump offtakes from Yatco Lagoon and install new pump offtakes on the River Murray. The construction work is expected to be completed by mid-2015.

Katarapko Floodplain, Murray River National Park

Construction works have commenced on the Katarapko Floodplain. Road and waterway access to Bank N, Bank K, South Arm Road Crossing, Eckert Creek Bridge, Eckert Creek Log Crossing and the Stone Weir will be restricted during construction. These works will improve water flow and movement of native fish through Katarapko and Eckert Creeks. Work at Bank N, Bank K, Eckert Creek Bridge and South Arm Road Crossing is due for completion by the end of March 2015. Eckert Creek Log Crossing is due for completion by mid-June 2015.

For further information on the Katfish Reach Project please refer to the following website: <http://katfish.org.au/>

RIVER MURRAY WATER LEVELS

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

River Murray Water Levels on 10 March 2015

Location	River km	Normal Pool Level	Current Level (m AHD)	1974 Flood Level (m AHD)	1993 Flood Level (m AHD)	2011 High Water Level (m AHD)
Lock 10	825.0	30.80	30.89	33.81	33.32	32.28
Lock 9 Kulnine	764.8	27.40	27.31	30.03	29.44	28.80
Lock 8 Wangumma	725.7	24.60	24.02	27.60	27.19	26.79
Lock 7 Rufus River	696.6	22.10	22.14	25.70	25.24	24.92
Lock 6 Murtho	619.8	19.25	19.26	21.03	20.50	20.11
Renmark	567.4	-	-	18.54	18.04	17.38
Lock 5	562.4	16.30	16.34	18.07	17.50	17.05
Lyrup	537.8	-	13.29	16.85	16.26	15.68
Berri	525.9	-	13.28	15.81	15.74	15.16
Lock 4	516.2	13.20	13.26	15.65	15.08	14.75
Loxton	489.9	-	10.19	15.05	14.12	13.42
Cobdogla	446.9	-	9.89	13.44	12.38	11.52
Lock 3	431.4	9.80	9.83	13.16	12.02	10.93
Overland Corner	425.9	-	6.33	12.73	11.58	10.27
Waikerie	383.6	-	6.27	11.26	10.24	9.06
Lock 2	362.1	6.10	6.13	10.28	9.30	8.25
Cadell	332.6	-	3.27	9.17	8.08	6.82
Morgan	321.7	-	3.20	8.85	7.65	6.20
Lock 1 Blanchetown	274.2	3.20	3.10	6.81	5.38	4.42
Swan Reach	245.0	0.75	0.58	6.06	4.51	3.09
Mannum PS	149.8	0.75	0.56	3.15	1.90	1.46
Murray Bridge	115.3	0.75	0.50	2.06	1.26	1.21

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

River Murray Flow Report

FURTHER INFORMATION

The WaterConnect website is South Australia's comprehensive water information portal and can be accessed at: <http://www.waterconnect.sa.gov.au>

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

<http://www.waterconnect.sa.gov.au/Systems/RTWD/SitePages/Home.aspx>

<http://www.sawater.com.au/SAWater/Environment/WaterProofingAdelaide/TheRiverMurray/RMOU/Dailyflow.htm>

<http://www.mdba.gov.au/river-data/live-river-data>

The Department of Environment, Water and Natural Resources has published a series of inundation maps for the River Murray. They are available at: <http://www.waterconnect.sa.gov.au/Systems/RMIM/Pages/default.aspx>

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

http://www.epa.sa.gov.au/environmental_info/water_quality/acid_sulfate_soils_ass/lower_river_murray_reclaimed_irrigation_area_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: <http://www.bom.gov.au/vic/flood>

Information provided by the Commonwealth Environmental Water Office can be accessed at:

www.environment.gov.au/ewater/southern/murray/lower-murray.html

Information on The Living Murray can be accessed at:

<http://www.mdba.gov.au/about-basin/environmental-sites>

Department of Environment, Water and Natural Resources

<http://www.environment.sa.gov.au/Home>

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