

RIVER MURRAY FLOW ADVICE

Flow to South Australia

Issued 10:00 1 July 2011

This supersedes the previous flow advice update issued by the Department for Water on 24 June 2011. A further flow advice will be provided on Friday 8 July 2011.

FLOW OUTLOOK

All catchments remain wet and volumes in storage are higher compared to the same time last year. As a result, even with average rainfall, good stream flow responses will occur. Rainfall, inflow and storage conditions across the Murray-Darling Basin will be closely monitored over the next six months and, if necessary, operations such as pre-releases from upstream storages will be undertaken to minimise potential risks associated with high flow and flood events.

Although the flow to South Australia has gradually reduced over the last few months, return flows from environmental assets, tributaries and the delivery of environmental water entitlements have maintained good flows upstream. This has enabled water to be released from the Murrumbidgee storages for environmental purposes. This environmental water release will flow into the River Murray and will be used for normal operating purposes including refilling of Lake Victoria, which commenced on 13 June 2011.

The flow to South Australia is currently around 19,000 ML/day. Flow should reduce to between 10,000 and 12,000 ML/day by mid July 2011, before increasing to around 20,000 ML/day by late July 2011, as water arrives from upstream. By early August a flow of 7,000 ML/day, comprising 4,000 ML/day of normal regulated entitlement flow and Additional Dilution Flow of 3,000 ML/day, is expected. Flow at Lock 1 is 21,000 ML/day and may remain around this level over the coming week, before gradually reducing as the flow to South Australia declines.

All locks and weirs upstream and within South Australia have been reinstated.

This outlook may change in response to the operation of Lake Victoria, further rainfall and improved inflow conditions upstream.

BARRAGE OPERATIONS AND WATER LEVELS IN THE LOWER LAKES

The water level in Lake Alexandrina is currently around 0.74m AHD. Water levels in Lake Alexandrina, Lake Albert and the Goolwa Channel have increased due to the closure of barrage gates. Over the coming months, barrage operations will continue to lower and raise water levels to further freshen Lake Albert and remove accumulated salt from the Lower Lakes. It is anticipated that water levels will remain within a range of 0.55m to 0.8m AHD.

In order to decrease and increase water levels in both lakes, it is necessary for some of the barrage gates/bays to be opened and closed to maintain the desired water level target. Water levels and barrage operations are continually monitored by the Department for Water, SA Water and the Department of Environment and Natural Resources.

It is important to note that water levels in the Lower Lakes may vary considerably with wind speed and direction. This, when combined with the high water level or high tides, could result in sea water backflow



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events and/or some inundation of low-lying areas around the edges of Lake Alexandrina, Lake Albert or the Goolwa Channel.

A number of seawater backflow events have occurred during May and June, which has caused elevated salinity levels upstream of each of the barrages. This situation has generally only lasted for a few days after each event, dissipating as water is again released to the Coorong. Elevated salinity levels have lasted slightly longer in some locations. The potential for these events should reduce with a lower number of barrage gates open over the coming months.

The Department for Water is also responsible for monitoring salinity in the Lower Lakes and maintains a network of salinity recording devices at a number of locations. Data collected from this monitoring network informs the Murray-Darling Basin Authority and Government of South Australia for barrage operations, conducting scientific analysis and formulating policy positions.

RIVER MURRAY WATER LEVELS

SA Water and the Department for Water have developed a River Murray Water Level chart (attached) to provide water levels at a number of locations from Lock 10 (near Wentworth) to Murray Bridge.

FURTHER INFORMATION

The Department for Water has published a series of inundation maps for the River Murray. They are available at www.waterconnect.sa.gov.au

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

<http://data.rivermurray.sa.gov.au>

www.sawater.com.au/SAWater/Environment/TheRiverMurray/River+Murray+Levels.htm

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

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 on the discharge of acid drainage water into the Lower River Murray can be accessed online at www.waterforgood.sa.gov.au



River Murray Water Levels as at 30 June 2011

Location	River Km	Normal Pool Level	Current Level (m AHD)
Lock 10	825.0	30.80	30.80
Lock 9 Kulnine	764.8	27.40	27.45
Lock 8 Wangumma	725.7	24.60	24.66
Lock 7 Rufus River	696.6	22.10	22.19
Lock 6 Murtho	619.8	19.25	19.27
Renmark	567.4	-	16.32
Lock 5	562.4	16.30	16.29
Lyrup	537.8	-	13.41
Berri	525.9	-	13.30
Lock 4	516.2	13.20	13.22
Loxton	489.9	-	10.78
Cobdogla	446.9	-	9.87
Lock 3	431.4	9.80	9.84
Overland Corner	425.9	-	7.10
Waikerie	383.6	-	-
Lock 2	362.1	6.10	6.14
Cadell	332.6	-	-
Morgan	321.7	-	3.65
Lock 1 Blanchetown	274.2	3.20	3.24
Swan Reach	245.0	0.75	0.97
Mannum PS	149.8	0.75	0.74
Murray Bridge	115.3	0.75	0.67

Note that water levels do not take into account local wind conditions.

Regularly updated daily water level information can be found at the following websites:

SA Water

www.sawater.com.au/SAWater/Environment/TheRiverMurray/River+Murray+Levels.htm

Department for Water

<http://www.waterconnect.sa.gov.au/RMWD/Pages/default.aspx>

Information is also available from the SA Water Hotline on **08 8595 2299**

UPDATES

This advice remains current until the Department for Water notifies otherwise.



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