

RIVER MURRAY FLOW ADVICE AND WATER RESOURCE UPDATE

Flow to South Australia

Issued 10:00 15 July 2011

This supersedes the previous flow advice update issued by the Department for Water on 8 July 2011. A further flow advice and water resource update will be provided on Friday 22 July 2011.

WATER RESOURCE UPDATE

The River Murray system inflow to the end of May 2011 was around 17,140 gigalitres, compared to the long-term average of 9,230 gigalitres for the same period.

The above average inflow to the River Murray system resulted in a total flow to South Australia of around 15,140 gigalitres from 1 July 2010 to the end of June 2011. Inflow during June 2011 was approximately 650 gigalitres, which is slightly below the long-term average of 680 gigalitres but significantly higher than June 2010 when 260 gigalitres was received.

Murray-Darling Basin Authority storage levels as at 14 July 2011 and around the same time last year

Storage	Full Supply Volume GL	14/7/2011 GL	14/7/2010 GL	Long-term Average (end July) GL
Dartmouth	3,856	2,546 (66%)	1,278 (33%)	
Hume	3,003	2,835 (94%)	897 (30%)	
Lake Victoria	677	535 (79%)	342 (51%)	
Menindee Lakes (FSL)	1,731	1,955 (113%)	1,541 (89%)	
TOTAL	9,267 (100%)	7,868 (85%)	4,100 (44%)	6,659 (72%)

River Murray System inflow during July 2011 is expected to be at least 800 GL. The long-term average inflow for July is 1,170 GL.

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.



Government of South Australia
Department for Water

WATER IS GOOD

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 27,000 ML/day and should increase to 30,000 ML/day by 15 July 2011. Flow at Lock 1 is 24,000 ML/day and may remain around this level over the coming week.

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 0.77m 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 seawater backflow 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 2011, 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 into 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.



LICENSED WATER USE AND ALLOCATION TRANSFERS

Carryover ceased on 30 June 2011. Water licence holders who have no Water Entitlement and require water at the start of the water year will be able to use water so long as they purchase sufficient water allocation to cover their water use by the end of September. The Department for Water reconciles water use and water allocations at the end of each quarter. Failure to secure sufficient water to cover water use may be subject to financial and other penalties.

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 13 July 2011

Location	River Km	Normal Pool Level	Current Level (m AHD)
Lock 10	825.0	30.80	30.85
Lock 9 Kulnine	764.8	27.40	27.55
Lock 8 Wangumma	725.7	24.60	24.78
Lock 7 Rufus River	696.6	22.10	22.61
Lock 6 Murtho	619.8	19.25	19.32
Renmark	567.4	-	16.36
Lock 5	562.4	16.30	16.33
Lyrup	537.8	-	-
Berri	525.9	-	13.39
Lock 4	516.2	13.20	13.28
Loxton	489.9	-	-
Cobdogla	446.9	-	-
Lock 3	431.4	9.80	9.81
Overland Corner	425.9	-	7.26
Waikerie	383.6	-	-
Lock 2	362.1	6.10	6.21
Cadell	332.6	-	-
Morgan	321.7	-	3.69
Lock 1 Blanchetown	274.2	3.20	3.23
Swan Reach	245.0	0.75	1.02
Mannum PS	149.8	0.75	0.80
Murray Bridge	115.3	0.75	0.75

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.



Government of South Australia

Department for Water

WATER IS GOOD