



RIVER MURRAY WEEKLY REPORT

FOR THE WEEK ENDING WEDNESDAY, 16 NOVEMBER 2011

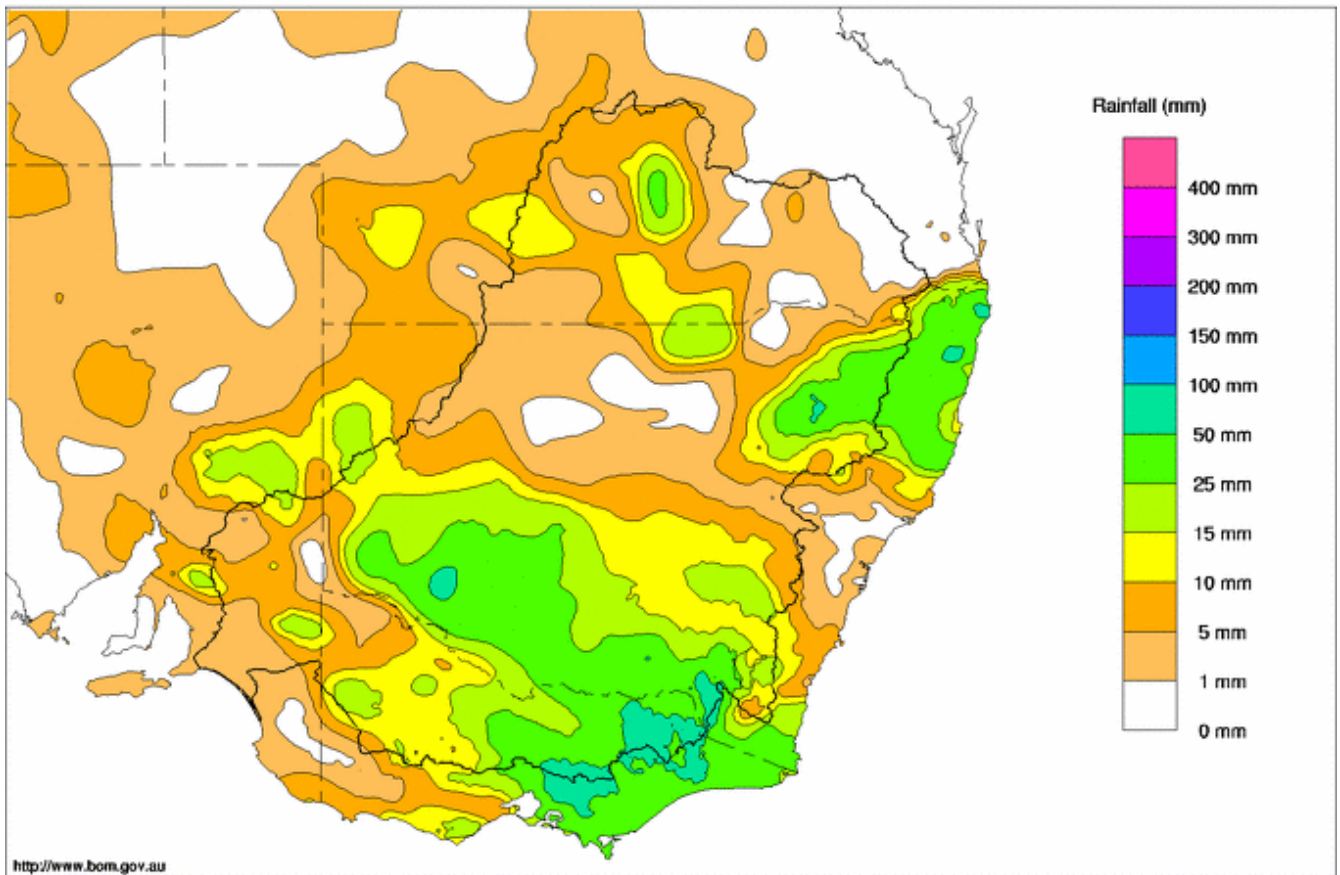
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Rainfall and Inflows

Rainfall this week was focussed over much of the southern Basin and in north eastern NSW (Map 1). Falls in excess of 50 mm were recorded in the alpine regions of NSW and Victoria and in north eastern and southern NSW. In Victoria, the highest totals were 95 mm at Mt Hotham, 92 mm at Rocky Valley, 86 mm at Falls Creek and 78 mm at Mt Buffalo. In southern NSW, 67 mm was recorded at Thredbo and 65 mm at Perisher Valley in the Snowy Mountains, 68 mm at Tumbarumba on the south western slopes, 69 mm at the Rock in the Riverina and 59 mm at Turlee Station in the south west. In northern NSW, 58 mm was recorded at Glen Innes on the northern tablelands and 68 mm at Manilla on the north western slopes.

Stream flows in the upper Murray system tributaries experienced renewed rises following this weeks rain. At Bringenbrong, the upper Murray peaked at 11,000 ML/d, while further downstream the flow at Jingellic peaked at 15,500 ML/day. On the Mitta Mitta River, the flow at Hinnomunjie bridge, upstream of Dartmouth Dam peaked at 5,800 ML/day, while upstream of Hume Dam the flow at Tallandoon peaked at 3,200 ML/day. On the Kiewa River, the flow at Bandiana peaked at 2,800 ML/d, and on the Ovens River, the flow at Rocky Point peaked at 5,800 ML/day.

Murray Darling Rainfall Totals (mm) Week Ending 16th November 2011
Product of the National Climate Centre



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Map 1 - Murray-Darling Basin rainfall for the week ending 9 November 2011 (Source: Bureau of Meteorology).



River Operations

MDBA active storage increased by 29 GL during the week to 7,518 GL (87% capacity). At Dartmouth Reservoir, the total storage increased by 18 GL to 2,876 GL, which is 75% capacity. The release remained steady at the normal minimum of 200 ML/day.

At Hume Reservoir, the storage increased by 21 GL and is currently 2,805 GL (93% capacity). The daily release was relatively low at around 7,000 ML/d for most of the week due to the rain, however is now increasing (currently 12,500 ML/d) in response to increasing demand.

At Lake Mulwala, the pool level is currently 124.78 m AHD after reaching a peak of 124.86 m AHD and will continue to be drawn down to around 124.7 m AHD over the coming days to supplement demand. Diversions to the irrigation off-takes were low for much of the week due to the rain, however demand is increasing rapidly. Mulwala Canal had a minimum diversion of 750 ML/day on Friday 11 November and is currently 1,900 ML/day. Yarrowonga Main Canal recorded no diversion on Thursday 10 November and is currently 1,050 ML/day. The release downstream is currently 11,000 ML/day after peaking at 13,000 ML/day.

Release of environmental water to the Goulburn River continued this week. Following the rain at the start of the week, Goulburn-Murray Water commenced releases downstream of Goulburn Weir targeting around 5,600 ML/day, and this is expected to continue for the next two weeks. In response, the flow at McCoys Bridge has increase from 1,100 ML/day to 4,800 ML/day and is still rising.

At Torrumbarry Weir, diversions to the National Channel reduced by 1,200 ML/day to 900 ML/day following the rain, and held steady for the remainder of the week. This increased the release from Torrumbarry Weir to around 8,400 ML/day where it stayed for most of the week. The release is now rising in response to the increased flow arriving from the Goulburn River and is currently 9,300 ML/day. Downstream at Euston Weir the flow fell away slowly over the week from 10,000 ML/day to 9,100 ML/day.

At Menindee Lakes, the total storage decreased by 4 GL and remains surcharged at 1,844 GL (107% capacity). The release, measured at Weir 32, continues to be pulsed around an average of 500 ML/day. Higher releases are expected to commence in late November. Further information will be provided in a flow advice in the near future.

The storage in Lake Victoria decreased by 5 GL to 667 GL (99% capacity). If dry conditions prevail, the storage will continue to fall away over the coming months as water is released to supplement flow in the River Murray to meet downstream requirements to South Australia. On Monday 14 November, flow to South Australia returned to regulated flow conditions for the first time since 31 August 2010 and has averaged 8,740 ML/day over the last 3 days.

The average level in the Lower Lakes varied between 0.78 and 0.76 m AHD.

For media inquiries contact the Media Officer on 02 6279 0141

DAVID DREVERMAN
Executive Director, River Murray

Water in Storage

Week ending Wednesday 16 Nov 2011

MDBA Storages	Full Supply Level	Full Supply Volume (GL)	Current Storage Level	Current Storage		Dead Storage (GL)	Active Storage (GL)	Change in Total Storage for the Week (GL)
	(m AHD)		(m AHD)	(GL)	%			
Dartmouth Reservoir	486.00	3 856	469.70	2 876	75%	71	2 805	+18
Hume Reservoir	192.00	3 005	190.98	2 805	93%	23	2 782	+21
Lake Victoria	27.00	677	26.93	667	99%	100	567	-5
Menindee Lakes		1 731*		1 844	107%	(480 #)	1 364	-4
Total		9 269		8 192	88%	- -	7 518	+29
Total Active MDBA Storage							87% ^	

Major State Storages

Burrinjuck Reservoir	1 026	916	89%	3	913	-5
Blowering Reservoir	1 631	1 496	92%	24	1 472	-3
Eildon Reservoir	3 334	3 303	99%	100	3 203	-14

* Menindee surcharge capacity – 2050 GL

** All Data is rounded to nearest GL **

NSW takes control of Menindee Lakes when storage falls below 480 GL, and control reverts to MDBA when storage next reaches 640 GL

^ % of total active MDBA storage

Snowy Mountains Scheme

Snowy diversions for week ending 15 Nov 2011

Storage	Active Storage (GL)	Weekly Change (GL)	Diversions (GL)	This Week	From 1 May 2011
Lake Eucumbene - Total	N/A	N/A	Snowy-Murray	N/A	N/A
Snowy-Murray Component	N/A	N/A	Tooma-Tumut	N/A	N/A
Target Storage	N/A		Net Diversion	N/A	N/A
			Murray 1 Release	N/A	N/A

Major Diversions from Murray and Lower Darling (GL) *

New South Wales	This Week	From 1 July 2011	Victoria	This Week	From 1 July 2011
Murray Irrig. Ltd (Net)	10.2	383	Yarrowonga Main Channel (net)	2.1	86
Wakool Sys Allowance	0.0	-2	Torrumbarry System + Nyah (net)	8.4	171
Western Murray Irrigation	0.7	5	Sunraysia Pumped Districts	2.8	25
Licensed Pumps	4.2	64	Licensed pumps - GMW (Nyah+u/s)	1.1	10
Lower Darling	2.5	23	Licensed pumps - LMW	6	69
TOTAL	17.6	473	TOTAL	20.4	361

* Figures derived from estimates and monthly data. Please note that not all data may have been available at the time of creating this report.

** All data above is rounded to nearest 100 ML for weekly data and nearest GL for cumulative data**

Flow to South Australia (GL)

* Flow to SA will be greater than entitlement for November due to Additional Dilution Flow and Unregulated Flows.

Entitlement this month	180.0 *	
Flow this week	67.9	(9 700 ML/day)
Flow so far this month	173.2	
Flow last month	502.6	

Salinity (EC) (microSiemens/cm at 25° C)

	Current	Average over the last week	Average since 1 August 2011
Swan Hill	180	160	140
Euston	130	130	130
Red Cliffs	-	-	110
Merbein	160	150	110
Burtundy (Darling)	400	400	360
Lock 9	160	150	130
Lake Victoria	200	200	200
Berri	290	280	200
Waikerie	-	-	-
Morgan	310	290	240
Mannum	-	290	230
Murray Bridge	290	340	230
Milang (Lake Alex.)	470	490	530
Poltalloch (Lake Alex.)	330	290	270
Meningie (Lake Alb.)	5 440	5 290	5 620
Goolwa Barrages	640	630	1 360

River Levels and Flows

Week ending Wednesday 16 Nov 2011

River Murray	Minor Flood Stage (m)	Gauge Height		Flow (ML/day)	Trend	Average Flow this Week (ML/day)	Average Flow last Week (ML/day)
		local (m)	(m AHD)				
Khancoban	-	-	-	-	F	3 910	3 210
Jingellic	4.0	1.85	208.37	5 610	F	8 560	5 390
Tallandoon (Mitta Mitta River)	4.2	1.55	218.44	830	F	1 080	780
Heywoods	5.5	2.83	156.46	12 630	R	8 150	12 700
Doctors Point	5.5	2.99	151.46	14 530	R	10 200	13 980
Albury	4.3	1.94	149.38	-	-	-	-
Corowa	3.8	2.44	128.46	9 920	R	10 100	14 210
Yarrowonga Weir (d/s)	6.4	1.79	116.83	11 050	F	12 220	11 200
Tocumwal	6.4	2.55	106.39	11 430	F	11 980	10 880
Torrumbarry Weir (d/s)	7.3	2.88	81.43	9 280	R	8 410	7 950
Swan Hill	4.5	1.55	64.47	7 130	R	6 700	7 150
Wakool Junction	8.8	3.51	52.63	10 650	R	10 940	12 410
Euston Weir (d/s)	8.8	1.89	43.73	9 170	F	9 740	11 870
Mildura Weir (d/s)	-	-	-	9 950	F	10 760	14 390
Wentworth Weir (d/s)	7.3	3.15	27.91	8 600	S	9 550	12 810
Rufus Junction	-	3.83	20.76	8 210	R	8 980	10 450
Blanchetown (Lock 1 d/s)	-	1.01	-	9 010	F	8 990	12 110
Tributaries							
Kiewa at Bandiana	2.7	1.75	154.98	1 680	F	1 970	1 490
Ovens at Wangaratta	11.9	8.44	146.12	1 750	F	2 890	1 800
Goulburn at McCoys Bridge	9.0	3.43	94.85	4 830	R	2 320	1 170
Edward at Stevens Weir (d/s)	-	2.12	81.89	2 160	F	2 500	2 050
Edward at Liewah	-	2.76	58.14	2 240	F	2 320	2 410
Wakool at Stoney Crossing	-	1.57	55.06	690	F	780	970
Murrumbidgee at Balranald	5.0	0.94	56.90	580	F	540	630
Barwon at Mungindi	-	3.44	-	670	F	1 130	1 100
Darling at Bourke	-	4.38	-	2 120	R	1 890	2 250
Darling at Burtundy Rocks	-	0.80	-	270	S	390	520

Natural Inflow to Hume (i.e. Pre Dartmouth & Snowy Mountains scheme)	14 280	9 160
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Weirs and Locks Pool levels above or below Full Supply Level (FSL)

Murray	FSL (m AHD)	u/s	d/s		FSL (m AHD)	u/s	d/s
Yarrowonga	124.90	-0.12	-	No. 7 Rufus River	22.10	+0.08	+1.55
No. 26 Torrumbarry	86.05	+0.00	-	No. 6 Murtho	19.25	-0.01	+0.29
No. 15 Euston	47.60	+0.00	-	No. 5 Renmark	16.30	-0.02	+0.28
No. 11 Mildura	34.40	+0.00	+0.28	No. 4 Bookpurnong	13.20	+0.01	+1.03
No. 10 Wentworth	30.80	+0.02	+0.51	No. 3 Overland Corner	9.80	+0.03	+0.46
No. 9 Kulnine	27.40	+0.01	+0.12	No. 2 Waikerie	6.10	+0.04	+0.51
No. 8 Wangumma	24.60	+0.00	+0.38	No. 1 Blanchetown	3.20	+0.05	+0.26

Lower Lakes FSL = 0.75 m AHD

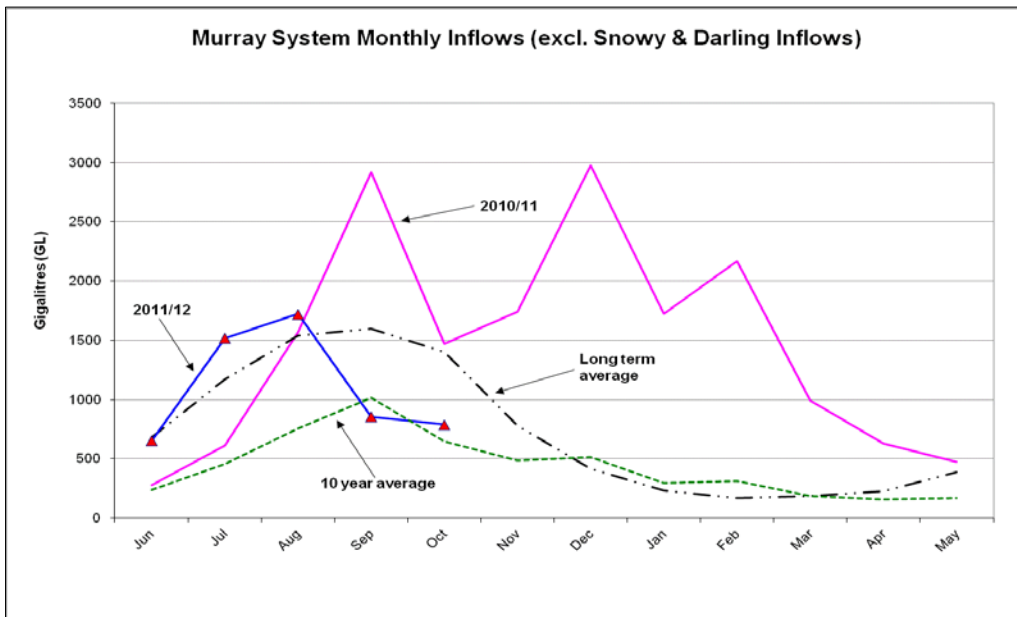
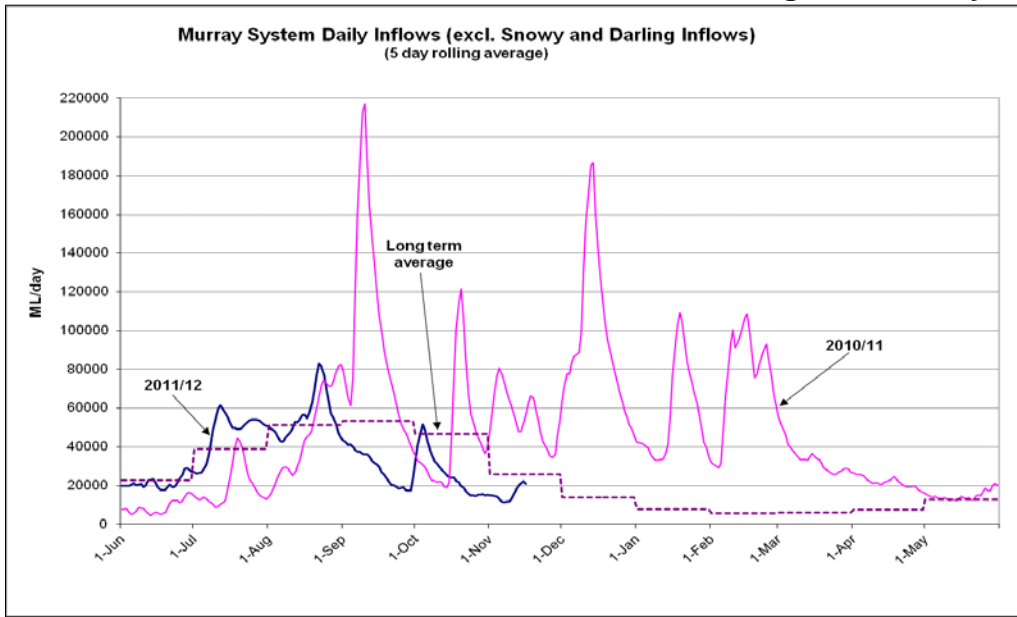
Lake Alexandrina average level for the past 5 days (m AHD)	0.76
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Barrages

Fishways at Barrages

	Openings	Level (m AHD)	No. Open	Rock Ramp	Vertical Slot
Goolwa	128 openings	0.81	3	-	Open
Mundoo	26 openings	0.79	2	-	-
Boundary Creek	6 openings	-	1	-	-
Ewe Island	111 gates	-	3	-	-
Tauwichee	322 gates	0.78	7	Open	Open

AHD = Level relative to Australian Height Datum, i.e. height above sea level



State Allocations (as at 16 Nov 2011)

NSW - Murray Valley

High security	100%
General security	100%

Victorian - Murray Valley

High reliability	100%
Low reliability	0%

NSW - Murrumbidgee Valley

High security	95%
General security	72%

Victorian - Goulburn Valley

High reliability	100%
Low reliability	0%

NSW - Lower Darling

High security	100%
General security	100%

South Australia - Murray Valley

High security	100%
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NSW : <http://www.water.nsw.gov.au/About-us/Media-releases/media/default.aspx>
 VIC : <http://www.g-mwater.com.au/water-resources/allocations/current.asp>
 SA : <http://www.waterforgood.sa.gov.au/category/news/>