

# REPORT FOR THE WEEK ENDING

Wednesday, 17 November 2004

*Our Ref : RMW305/01/01/dg:bwh*  
*Trim Ref : 04/12201DO*

19 November, 2004



## ***Rainfall and Inflows***

There was further good rainfall across the Basin, with parts of the Upper Murray, Murrumbidgee and Goulburn catchments receiving in excess of 50 mm over the week (see attached rainfall map). With the catchments already wet, this rain has maintained improved inflows to the River Murray System.

Inflow to Dartmouth and Hume Reservoirs averaged 5 000 ML/day and 16 000 ML/day respectively. In addition, inflow to the River Murray from the Kiewa, Ovens and Goulburn Rivers averaged 3 000, 6 000 and 3 000 ML/day respectively with flows now receding.

The inflow of water from Barr Creek to the Murray which commenced on 8 November, has resulted in a temporary increase in the River Murray salinity at Swan Hill from 90 to 215 EC. As a result, further downstream temporary salinity rises of about 80 EC are expected along the Murray between Euston and Lake Victoria over the coming weeks.

## ***System Operation***

The rain and cooler temperatures have reduced irrigation demand, which in combination with increased inflow, has resulted in a further increase in total active MDBC storage of 101 GL this week. Dartmouth Reservoir increased by 7 GL to 47% of capacity, which is the first rise in Dartmouth storage since mid September 2004. Storage in Hume Reservoir increased by 87 GL to 53% of capacity, which is the highest storage volume this season. Release from Hume was reduced to 2 700 ML/day before being increased to 7 000 ML/day at the end of the week.

Following rain early in the week, release from Dartmouth Reservoir was reduced from 6 000 to 3 000 ML/day in order to avoid high flow rates in the Mitta Mitta downstream of tributaries including Snowy Creek. The release from Dartmouth has since been increased to 6 000 ML/day, however, the rate of transfer from Dartmouth Reservoir to Hume Reservoir will be reviewed in light of recent significant increases in storage in Hume Reservoir and Lake Victoria.

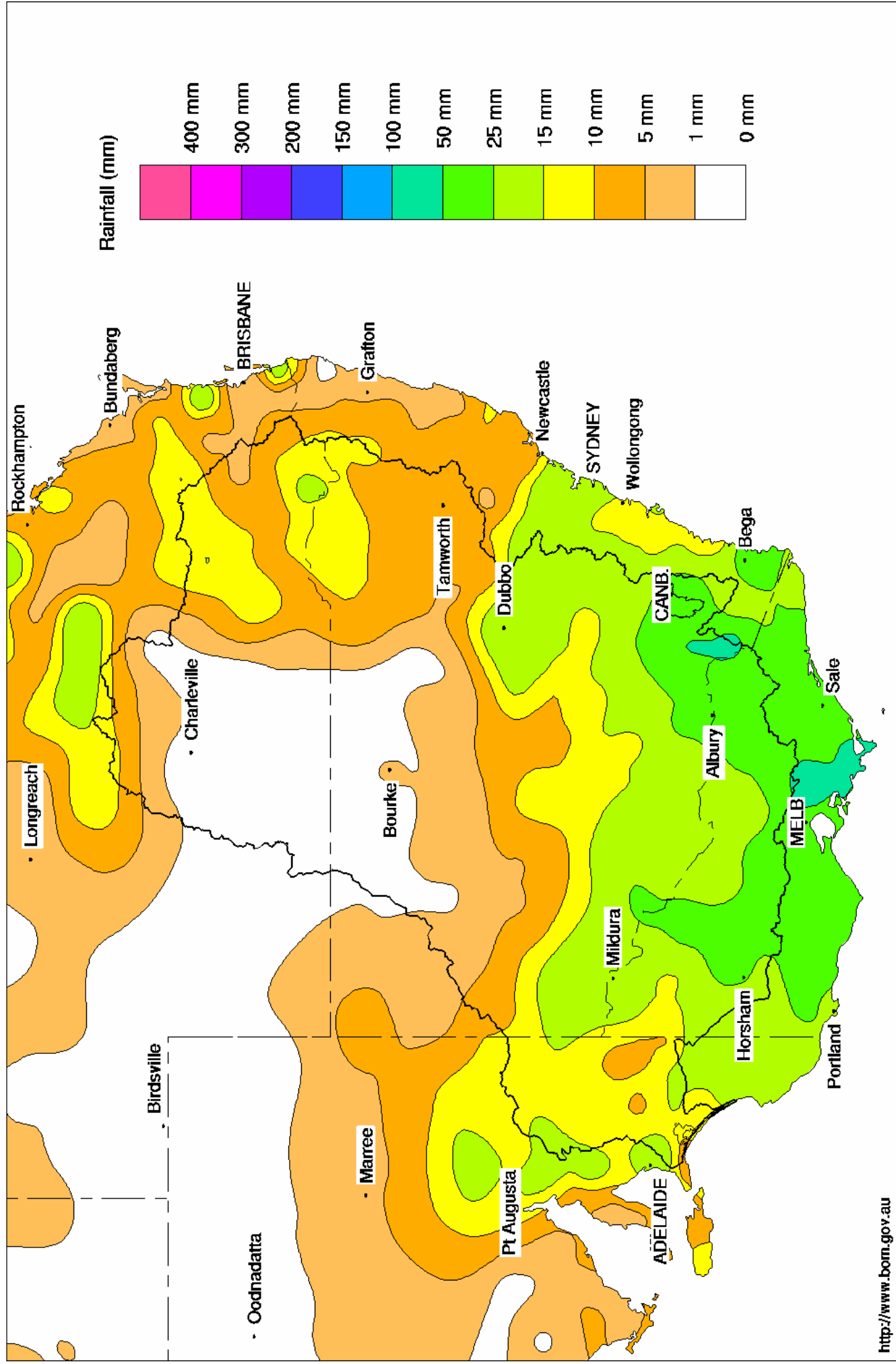
Release from Yarrawonga Weir was reduced from 13 000 to 10 300 ML/day after the passing of the Ovens River peak. With the increased Murray and Goulburn flow, the Murray flow at Torrumbarry Weir peaked at 11 000 ML/day. Further downstream, flow in the River Murray at Euston has increased to 13 000 ML/day, and is expected to peak at about 14 000 ML/day on 21 November. Storage in Lake Victoria has increased by 14 GL to 94% of capacity as a result of tributary flow increases, reduced irrigation demand and reduced river losses, and it is expected that Lake Victoria will approach full by early December.

In response to the improved storage position with Lake Victoria, the rate of transfer from Hume Reservoir has been reduced by cutting back the rate of transfer of water through Mulwala Canal and through subsequent escape to the Edward-Wakool System. This will result in lower flow rates along Colligen Creek and the Edward, Neimur and lower Wakool Rivers over the coming weeks.

DAVID DREVERMAN  
General Manager

# Murray Darling Rainfall Analysis (mm) Week Ending 17th November 2004

Product of the National Climate Centre



**Water in Storage**

MDBC Storages	Full Supply Level (m AHD)	Full Supply Volume (GL)	Current Storage Level (m AHD)	Current Storage		Dead Storage (GL)	Active Storage (GL)	Change in Storage for the week (GL)
				(GL)	%			
Dartmouth Reservoir	486.00	3 906	446.96	1 818	47%	80	1 738	+7
Hume Reservoir	192.00	3 038	183.47	1 599	53%	30	1 569	+87
Lake Victoria	27.00	677	26.68	638	94%	100	538	+14
Menindee Lakes		1 603 *		263	16%	640 #	0	-7
<b>Total</b>		<b>9 224</b>		<b>4 318</b>	<b>47%</b>	<b>850</b>	<b>3 845</b>	<b>+101</b>

\* Menindee surcharge capacity 1916 GL

% of Total Active MDBC Storage = 46%

# NSW Menindee Lakes Reserve

**Major State Storages**

Burrinjuck Reservoir	1 026		191	19%	3	188	+18
Blowering Reservoir	1 631		492	30%	24	468	-11
Eildon Reservoir	3 390		1 444	43%	100	1 344	+47

**Snowy Mountains Scheme**

Snowy diversions for week ending 16-Nov-2004

Storage	Active storage (GL)	Weekly change (GL)	Diversion (GL)	This week	From 1 May 2004
Lake Eucumbene - Total	2 495	+72	Snowy-Murray	+0	306
Snowy-Murray Component	1 146	+35	Tooma-Tumut	+8	191
Target Storage	1 450		Nett Diversion	-7.5	115
			Murray 1 Release	+18	575

**Major Diversions from Murray and Lower Darling (GL)**

New South Wales	This week	From 1 July 2004
Murray Irrig. Ltd (Net)	7.5	267.5
Wakool System loss	-1.2	2.1
Western Murray Irrig.	0.3	7.6
Licensed Pumps	8.5	90.3
Lower Darling	0.4	7.0
<b>TOTAL</b>	<b>15.6</b>	<b>374.4</b>

Victoria	This week	From 1 July 2004
Yarrowonga Main Channel (net)	2.4	98
Torrumbarry System + Nyah (net)	0.0	226
Sunraysia Pumped Districts	1.3	38
Licensed pumps - GMW (Nyah+u/s)	0.4	8
Licensed pumps - SRW	6.7	103
<b>TOTAL</b>	<b>10.8</b>	<b>472</b>

**Flow to South Australia (GL)**

Entitlement this month	180	(6 100 ML/day)
Flow this week	42.6	
Flow so far this month	103	
Flow last month	171	

**Salinity (EC)**

(microsiemens/cm @ 25° C)

	Current	Average over the last week	Average since 1 August 2004
Swan Hill	130	150	100
Euston	100	100	110
Red Cliffs	70	80	90
Merbein	90	90	100
Burtundy (Darling)	480	480	440
Lock 9	130	140	140
Lake Victoria	180	180	180
Berri	230	230	260
Waikerie	-	-	430
Morgan	370	370	440
Mannum	500	500	520
Murray Bridge	570	580	560
Milang (Lake Alex.)	1 300	1 300	1 240
Poltalloch (Lake Alex.)	1 210	990	1 030
Meningie (Lake Alb.)	2 160	2 110	2 090
Goolwa Barrages	1 710	1 730	1 840

**River Levels and Flows**

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	-	-	-	5 550	R	4 350	5 320
Jingellic	4.0	2.28	208.80	9 970	F	10 170	10 430
Tallandoon ( Mitta Mitta River )	4.2	2.83	219.72	7 680	R	6 470	7 520
Heywoods	5.5	2.20	155.83	7 390	R	4 370	9 640
Doctors Point	5.5	2.58	151.05	9 320	R	6 890	11 960
Albury	4.3	1.57	149.01	-	-	-	-
Corowa	7.0	1.64	127.66	5 870	S	7 620	14 190
Yarrowonga Weir (d/s)	6.4	1.81	116.85	10 400	R	11 340	11 390
Tocumwal	6.4	2.34	106.18	10 730	F	12 220	11 180
Torrumbarry Weir (d/s)	7.3	3.08	81.63	9 830	F	10 260	7 790
Swan Hill	4.5	1.98	64.90	10 790	R	10 030	6 330
Wakool Junction	8.8	4.23	53.35	14 240	R	13 060	8 630
Euston Weir (d/s)	8.8	2.45	44.29	13 100	R	11 880	7 800
Mildura Weir (d/s)	-	-	31.27	11 110	F	9 480	7 040
Wentworth Weir (d/s)	7.3	3.20	27.96	10 910	R	8 930	6 370
Rufus Junction	-	3.32	20.25	5 680	R	5 690	5 630
Blanchetown (Lock 1 d/s)	-	-	-	4 690	F	4 850	4 090
<b>Tributaries</b>							
Kiewa at Bandiana	2.7	2.01	155.24	2 450	F	2 940	2 640
Ovens at Wangaratta	11.9	9.89	147.57	6 709	F	6 460	4 360
Goulburn at McCoys Bridge	9.0	1.56	92.98	983	F	1 910	960
Edward at Stevens Weir (d/s)	-	-	-	2 920	F	2 900	2 930
Edward at Liewah	-	3.07	58.45	2 830	R	2 740	2 630
Wakool at Stoney Crossing	-	0.93	55.42	1 820	R	1 650	990
Murrumbidgee at Balranald	5.0	0.88	56.84	547	R	770	800
Barwon at Mungindi	-	3.21	-	70	S	60	50
Darling at Bourke	-	3.98	-	72	S	80	140
Darling at Burtundy Rocks	-	0.68	-	48	R	40	40

<b>Natural Inflow to Hume</b> (ie pre Dartmouth & Snowy Mountains scheme)	19 000	16 150
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**Weirs and Locks**

**Pool levels above or below design level**

Murray	FSL (m AHD)	u/s	d/s		FSL (m AHD)	u/s	d/s
Yarrowonga	124.90	-0.04	-	No. 7 Rufus River	22.10	+0.08	+1.03
No 26 Torrumbarry	86.05	+0.00	-	No. 6 Murtho	19.25	+0.10	+0.07
No. 15 Euston	47.60	+0.00	-	No. 5 Renmark	16.30	-0.02	+0.16
No. 11 Mildura	34.40	-0.01	+0.47	No. 4 Bookpurnong	13.20	+0.03	+0.62
No. 10 Wentworth	30.80	+0.07	+0.56	No.3 Overland Corner	9.80	+0.03	+0.19
No. 9 Kulnine	27.40	+0.00	+0.05	No. 2 Waikerie	6.10	+0.04	+0.14
No. 8 Wangumma	24.60	+0.03	+0.22	No 1. Blanchetown	3.20	+0.03	+0.05

Murrumbidgee	FSL (m AHD)	relation to FSL	d/s gauge ht.		Flow (ML/day)
			local (m)	(m AHD)	
No. 7 Maude	75.40	-0.26	0.6	69.95	296
No. 5 Redbank	66.90	-0.00	0.16	61.46	278

**Barrages**

FSL = 0.75 m AHD

	Openings	Level	Status
Goolwa	128 openings	0.86	All closed
Mundoo	26 openings	0.90	All closed
Boundary Creek	6 openings	-	All closed
Ewe Island	111 gates	-	All closed
Tauwitchere	322 gates	0.88	All closed



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