

# REPORT FOR THE WEEK ENDING

Wednesday, 2 February 2005

*Our Ref : RMW305/01/01/dg*  
*Trim Ref : 05/240*

4 February, 2005



## **Rainfall and temperature**

Earlier this week patchy rain was recorded across the Murray-Darling Basin, with the Mallee region of north-west Victoria and south-west NSW receiving falls of up to 25mm (see attached map). However at the time of writing this report, widespread heavy rain was falling throughout Victoria and south-eastern NSW with many areas receiving more than 100mm of rain. This will provide significantly increased inflows from the Ovens and Goulburn catchments over the coming week. The cold front associated with this rain brought strong winds and unseasonably low temperatures that in some areas were up to 20 degrees below average.

## **River Murray Operation**

Release from Dartmouth Dam has remained steady this week at about 800 ML/day, which led to the storage level falling by 6 GL to 1 699 GL (44% of capacity). In anticipation of significant rainfall and a reduction in diversions for irrigation, the release from Hume Dam has been gradually reduced this week and is currently near 13 000 ML/day, with further reductions planned for the next few days. However due to relatively low inflow, the storage in Hume Reservoir continued to decline and is currently at 1 145 GL (38% of capacity).

Earlier this week RMW requested an increase in the flow from the Goulburn River to meet higher River Murray diversions resulting from inter-valley water trade from the Goulburn System to the River Murray System. As a result, the inflow to the River Murray from the Goulburn River increased to about 1 000 ML/day. This request has now been cancelled, however the inflow from the Goulburn is likely to remain high due to the recent rain.

The higher inflow from the Goulburn River has caused the flow downstream of Torrumbarry Weir to steadily increase this week. At Swan Hill the flow has increased to about 5 000 ML/day, while at Euston Weir it is currently about 6 000 ML/day. The release from Lake Victoria is about 5 000 ML/day and the storage has fallen by 30 GL to 529 GL (78% capacity). The average water level at Lake Alexandrina has remained steady at 0.70m AHD.

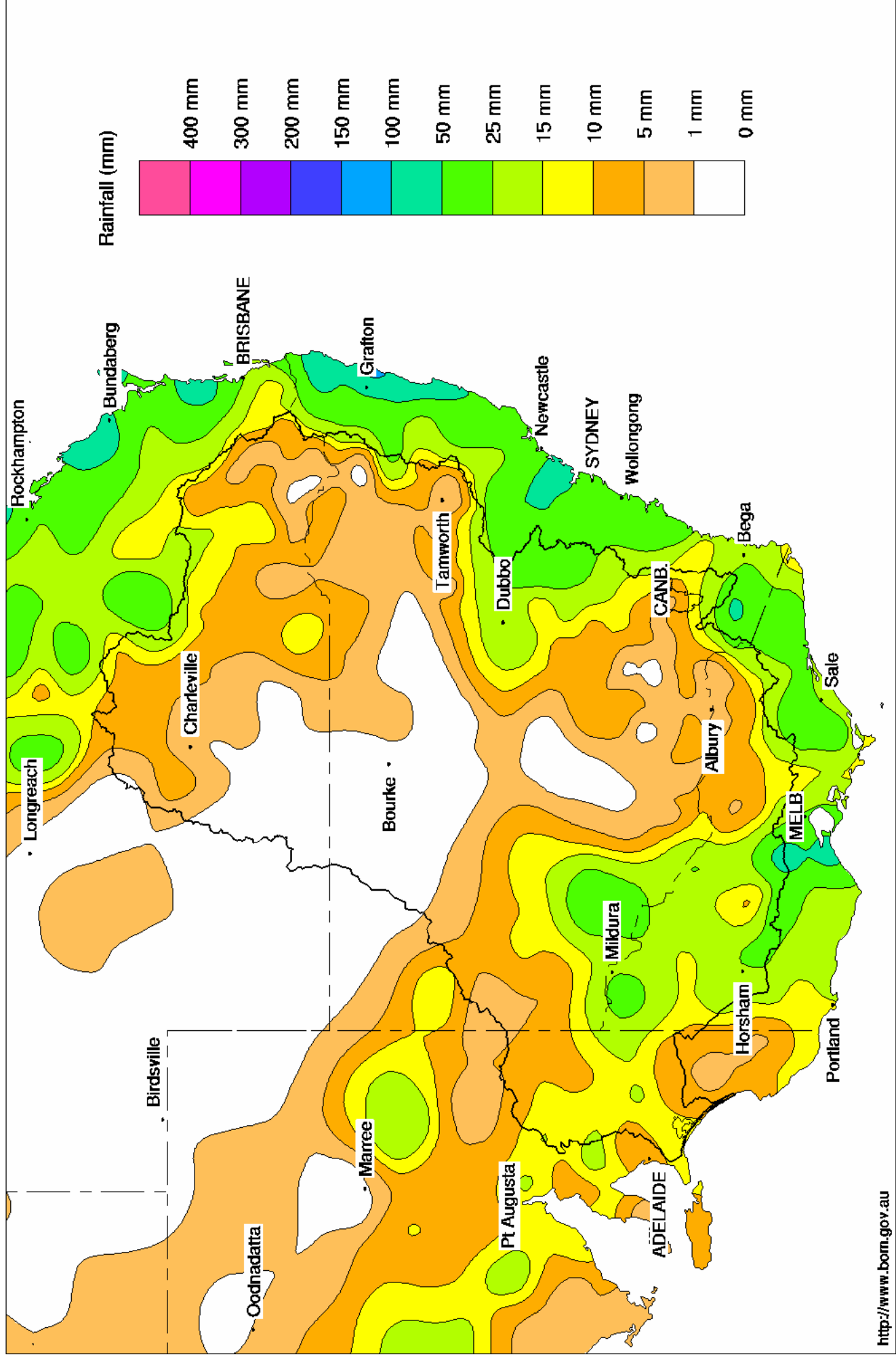
## **Darling River Flow**

As a result of the recent rise in flow in the Darling River, storage in Menindee Lakes has increased by a further 20 GL. The storage peaked on 31 January at 439 GL (25% capacity) but will gradually fall over the coming months unless there is further significant rainfall in the Darling catchment. The flow in the Darling River downstream of Menindee has been maintained at about 400 ML/day during this event.

DAVID DREVERMAN  
General Manager

# Murray Darling Rainfall Analysis (mm) Week Ending 2nd February 2005

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)	MDBC Active Storage (GL)	Change in Storage for the week (GL)
				(GL)	%			
Dartmouth Reservoir	486.00	3 906	444.05	1 699	44%	80	1 619	-6
Hume Reservoir	192.00	3 038	179.89	1 145	38%	30	1 115	-64
Lake Victoria	27.00	677	25.74	529	78%	100	429	-30
Menindee Lakes		1 731 *		436	25%	(- -) #	0	+27
<b>Total</b>		<b>9 352</b>		<b>3 809</b>	<b>41%</b>	<b>--</b>	<b>3 163</b>	<b>-71</b>

\* Menindee surcharge capacity 2050 GL

% of Total Active MDBC Storage = **37%**

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

### Major State Storages

Burrinjuck Reservoir	1 026	250	24%	3	247	-2
Blowering Reservoir	1 631	313	19%	24	289	+14
Eildon Reservoir	3 390	1 274	38%	100	1 174	-27

### Snowy Mountains Scheme

Snowy diversions for week ending 01-Feb-2005

Storage	Active storage (GL)	Weekly change (GL)	Diversions (GL)	This week	From 1 May 2004
Lake Eucumbene - Total	2 589	-36	Snowy-Murray	+37	407
Snowy-Murray Component	1 188	-25	Tooma-Tumut	+3	241
Target Storage	1 460		Nett Diversion	33.9	166
			Murray 1 Release	+37	745

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

New South Wales	This week	From 1 July 2004	Victoria	This week	From 1 July 2004
Murray Irrig. Ltd (Net)	23.4	489.7	Yarrawonga Main Channel (net)	10.8	224
Wakool System loss	1.1	10.6	Torrumbarry System + Nyah (net)	19.9	385
Western Murray Irrig.	0.6	20.9	Sunraysia Pumped Districts	3.8	109
Licensed Pumps	9.8	170.1	Licensed pumps - GMW (Nyah+u/s)	1.5	22
Lower Darling	0.5	18.1	Licensed pumps - SRW	6.9	175
<b>TOTAL</b>	<b>35.3</b>	<b>709.5</b>	<b>TOTAL</b>	<b>43.0</b>	<b>916</b>

### Flow to South Australia (GL)

Entitlement this month	194	
Flow this week	52.4	(7 500 ML/day)
Flow so far this month	14	
Flow last month	225	

### Salinity (EC)

(microsiemens/cm @ 25° C)

	Current	Average over the last week	Average since 1 August 2004
Swan Hill	90	70	110
Euston	110	110	120
Red Cliffs	140	160	110
Merbein	170	180	120
Burtundy (Darling)	660	670	500
Lock 9	170	180	140
Lake Victoria	190	190	180
Berri	210	210	240
Waikerie	-	320	380
Morgan	330	330	400
Mannum	390	390	490
Murray Bridge	460	420	540
Milang (Lake Alex.)	1 330	1 350	1 300
Poltalloch (Lake Alex.)	1 120	1 180	1 020
Meningie (Lake Alb.)	2 120	2 160	2 100
Goolwa Barrages	2 300	2 080	1 870

### River Levels and Flows

	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)				
<b>River Murray</b>							
Khancoban	-	-	-	2 550	F	5 680	2 920
Jingellic	4.0	1.67	208.19	4 660	F	7 120	3 550
Tallandoon ( Mitta Mitta River )	4.2	1.59	218.48	1 160	R	1 140	1 460
Heywoods	5.5	2.82	156.45	12 850	F	15 850	13 460
Doctors Point	5.5	2.92	151.39	13 100	F	16 300	14 000
Albury	4.3	1.94	149.38	-	-	-	-
Corowa	7.0	3.20	129.22	17 000	F	17 430	15 540
Yarrowonga Weir (d/s)	6.4	1.76	116.80	10 000	S	10 040	10 010
Tocumwal	6.4	2.27	106.11	10 200	S	10 220	10 390
Torrumbarry Weir (d/s)	7.3	1.89	80.44	5 380	R	5 130	4 760
Swan Hill	4.5	1.12	64.04	5 130	R	4 640	4 160
Wakool Junction	8.8	2.72	51.84	6 820	R	6 290	6 010
Euston Weir (d/s)	8.8	1.27	43.11	5 780	R	5 560	5 220
Mildura Weir (d/s)	-	-	30.93	4 930	F	4 370	3 650
Wentworth Weir (d/s)	7.3	2.92	27.68	5 090	R	3 950	3 060
Rufus Junction	-	3.41	20.34	6 220	F	7 020	6 930
Blanchetown (Lock 1 d/s)	-	-	-	5 740	F	4 800	4 190
<b>Tributaries</b>							
Kiewa at Bandiana	2.7	0.86	154.09	460	F	550	590
Ovens at Wangaratta	11.9	7.80	145.48	400	F	390	620
Goulburn at McCoys Bridge	9.0	1.60	93.02	1 065	R	940	480
Edward at Stevens Weir (d/s)	-	-	-	2 120	F	1 990	2 290
Edward at Liewah	-	2.65	58.03	2 120	R	2 010	1 930
Wakool at Stoney Crossing	-	-	-	345	F	360	420
Murrumbidgee at Balranald	5.0	0.49	56.45	224	S	220	190
Barwon at Mungindi	-	3.32	-	270	S	430	290
Darling at Bourke	-	4.14	-	603	F	690	1 010
Darling at Burtundy Rocks	-	0.75	-	176	F	220	240

<b>Natural Inflow to Hume</b> (ie pre Dartmouth & Snowy Mountains scheme)	1 450	3 450
---	-------	-------

### 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	-0.08	-	No. 7 Rufus River	22.10	+0.12	+1.11
No 26 Torrumbarry	86.05	+0.00	-	No. 6 Murtho	19.25	-0.03	+0.17
No. 15 Euston	47.60	+0.00	-	No. 5 Renmark	16.30	+0.00	+0.27
No. 11 Mildura	34.40	+0.02	+0.13	No. 4 Bookpurnong	13.20	+0.04	+0.78
No. 10 Wentworth	30.80	+0.04	+0.28	No.3 Overland Corner	9.80	+0.07	+0.31
No. 9 Kulnine	27.40	-0.03	-0.03	No. 2 Waikerie	6.10	+0.10	+0.24
No. 8 Wangumma	24.60	-0.02	+0.12	No 1. Blanchetown	3.20	+0.09	+0.12

Murrumbidgee	FSL (m AHD)	relation to FSL	d/s gauge ht.		Flow (ML/day)
			local (m)	(m AHD)	
No. 7 Maude	75.40	-0.41	0.98	70.33	781
No. 5 Redbank	66.90	-1.16	0.24	61.54	353

### Barrages

FSL = 0.75 m AHD

	Openings	Level	Status
Goolwa	128 openings	0.54	All closed
Mundoo	26 openings	0.67	All closed
Boundary Creek	6 openings	-	All closed
Ewe Island	111 gates	-	All closed
Tauwitchere	322 gates	0.60	All closed

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