

# REPORT FOR THE WEEK ENDING

Wednesday, 6 August 2003

Our Ref: RMW305/01//01-03/12933DO/ng

8 August, 2003



## ***Rainfall***

Little or no rain was received across most of the Basin, however, light falls of between 5 and 25 mm were recorded across the upper Murray. This has resulted in minor renewed rises in tributary flows in the upper Murray.

## ***Tributary inflows***

Inflows to Dartmouth and Hume Reservoirs, whilst receding significantly from last week, further boosted storage volume of 89 GL over the week, compared with 155 GL last week. Inflows to the River Murray from the Kiewa responded to the rain with inflow reaching about 3000 ML/day. Inflows from the Ovens and Goulburn Rivers have receded significantly since the end of last week, and have shown little or no response to this week's rainfall.

## ***System Operation***

Diversion from Lake Mulwala to Mulwala Canal commenced at low rates this week to allow the filling of Murray Irrigation Limited's channel system in New South Wales. Diversion via Yarrawonga Main Channel to fill the Victorian irrigation channel system is expected to begin on 11 August. With the rapid recession of inflow from the Owen River, release from Yarrawonga Weir has been reduced from 21 000 to 8 000 ML/day by 8 August. Without further rain it is expected that release will gradually be reduced to about 5 000 ML/day by 15 August. The level of Lake Mulwala remains about 0.5 m below normal operating level to enable completion of remedial works on the fishway structure at Yarrawonga Weir, but the level is scheduled to be raised next week in preparation for commencement of the irrigation season.

Flow to the Edward River and Gulpa Creek increased to about 3 000 ML/day in response to the rain late in July, and flows in other nearby creeks systems have increased following recent high flows in the Murray. This inflow has assisted in the refilling of Stevens Weir pool which commenced on 1 August. By 8 August, the pool level was about 1.5 m below Full Supply Level, and is expected to reach normal operating levels by mid August. Release from Stevens Weir has been increased to about 2000 ML/day, and is expected to remain below about 2900 ML/day, with release to the Wakool River, Yallakool and Colligen Creeks expected to commence shortly.

Flow downstream of Torrumbarry Weir peaked at about 19 500 ML/day on 1 August, and has since receded to about 10 000 ML/day. River level at Swan Hill peaked at 2.8 m, and is now 2.1 m and falling. The weir pools of Euston, Mildura and Wentworth are being manipulated to help attenuate the flow peak in order to maximise storage of the increased flow in Lake Victoria. The pool levels at these structures have been drawn about 0.1 m below FSL and will return to FSL as the peak passes.

Flow to South Australia in August is being maintained at 2 800 ML/day, which is the same flow rate as provided in July. Storage in Lake Victoria increased by 14 GL to 340 GL (50% of capacity), but more significant rises will occur in coming weeks as increased river flows are conserved in the Lake.

DAVID DOLE  
General Manager

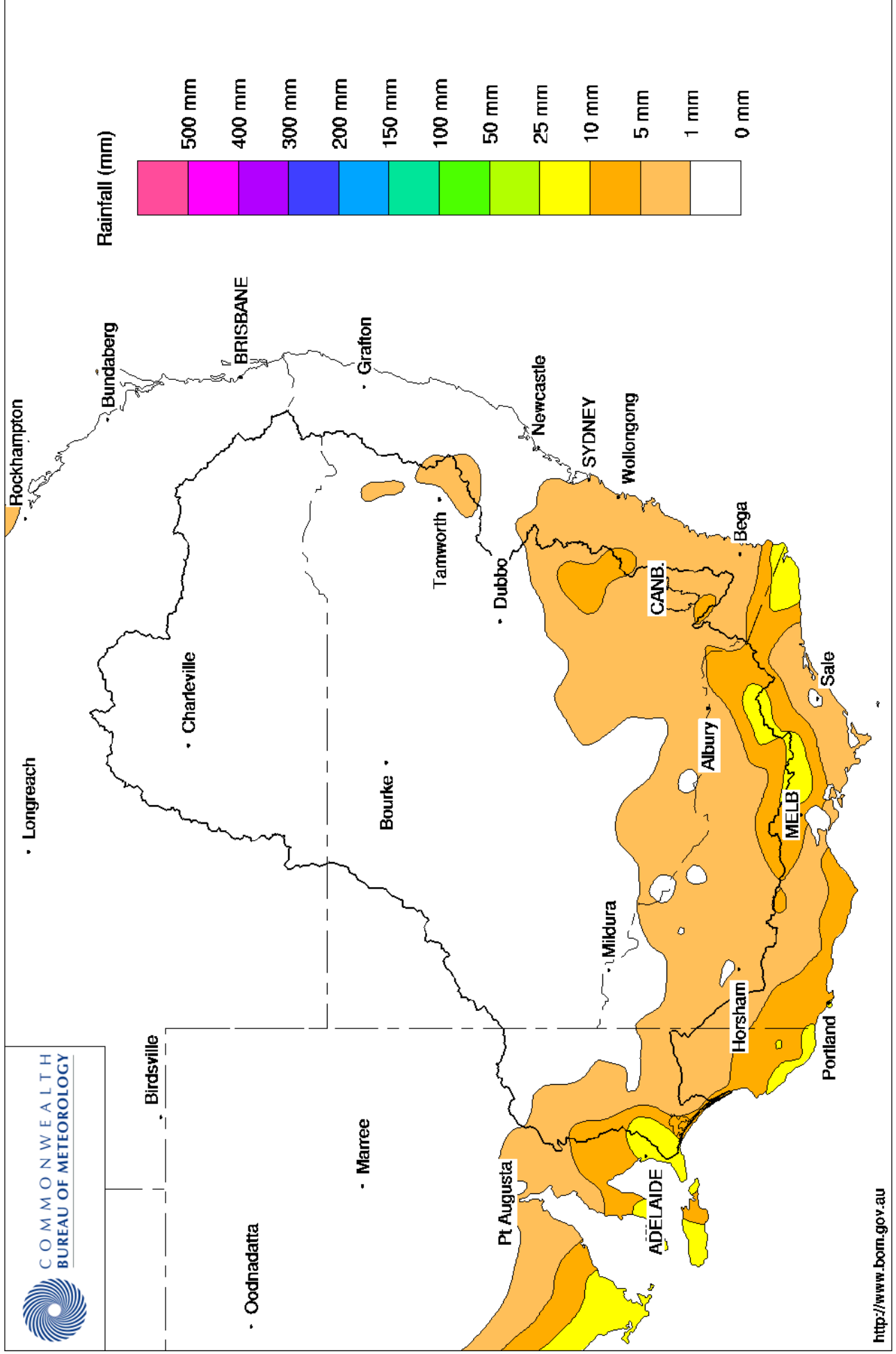
*River Murray Water*

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# Murray Darling Rainfall Analysis (mm) Week Ending 6th August 2003

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	432.49	1 277	33%	80	1 197	+12
Hume Reservoir	192.00	3 038	177.04	837	28%	30	807	+77
Lake Victoria	27.00	680	23.80	341	50%	100	241	+14
Menindee Lakes		1 603 *		72	4%	640 #	0	+0
<b>Total</b>		<b>9 227</b>		<b>2 526</b>	<b>27%</b>	<b>850</b>	<b>2 244</b>	<b>+103</b>

\* Menindee surcharge capacity 1916 GL

% of Total Active MDBC Storage = 27%

# NSW Menindee Lakes Reserve

## Major State Storages

Burrinjuck Reservoir	1 026		114	11%	3	111	+7
Blowering Reservoir	1 631		453	28%	24	429	+50
Eildon Reservoir	3 390		620	18%	100	520	+47

## Snowy Mountains Scheme

Snowy diversions for week ending 05-Aug-2003

Storage	Active storage (GL)	Weekly change (GL)	Diversion (GL)	This week	From 1 May 2003
Lake Eucumbene - Total	1 545	-49	Snowy-Murray	+32	369
Snowy-Murray Component	660	-21	Tooma-Tumut	+4	47
Target Storage	1 190		Nett Diversion	27.8	322
			Murray 1 Release	+35	426

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

New South Wales	This week	From 1 July 2003
Murray Irrig. Ltd (Net)	.0	.0
Wakool System loss	0.0	.1
Western Murray Irrig.	0.1	.4
Licensed Pumps	0.6	4.2
Lower Darling	0.1	.3
<b>TOTAL</b>	<b>0.8</b>	<b>5.0</b>

Victoria	This week	From 1 July 2003
Yarrawonga Main Channel (net)	.0	
Torrumbarry System + Nyah (net)	7.5	31
Sunraysia Pumped Districts	0.4	1
Licensed pumps - GMW (Nyah+u/s)	0.0	
Licensed pumps - SRW	2.6	10
<b>TOTAL</b>	<b>10.5</b>	<b>41</b>

## Flow to South Australia (GL)

Entitlement this month	124	(2 800 ML/day)
Flow this week	19.3	
Flow so far this month	17	
Flow last month	87	

## Salinity (EC)

(microsiemens/cm @ 25° C)

	Current	Average over the last week	Average since 1 August 2003
Swan Hill	150	140	140
Euston	180	180	180
Red Cliffs	140	130	130
Merbein	130	140	140
Burtundy (Darling)	1 680	1 670	1 670
Lock 9	220	230	230
Lake Victoria	280	280	280
Berri	370	400	410
Waikerie	580	580	580
Morgan	570	570	570
Mannum	490	490	490
Murray Bridge	500	490	490
Milang (Lake Alex.)	1 100	1 070	1 080
Poltalloch (Lake Alex.)	1 030	1 050	1 050
Meningie (Lake Alb.)	1 390	1 410	1 410
Goolwa Barrages	3 880	4 060	3 980



**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	-	-	-	4 350	R	5 990	6 260
Jingellic	4.0	1.92	208.44	6 710	F	8 950	10 280
Tallandoon ( Mitta Mitta River )	4.2	1.91	218.80	2 380	R	1 860	2 760
Heywoods	5.5	1.17	154.80	600	S	600	600
Doctors Point	5.5	1.80	150.27	2 590	R	3 120	4 620
Albury	4.3	0.89	148.33	-	-	-	-
Corowa	7.0	0.98	127.00	2 880	F	3 890	4 430
Yarrawonga Weir (d/s)	6.4	1.94	116.98	11 400	F	17 700	14 740
Tocumwal	6.4	2.94	106.78	15 080	F	19 700	9 660
Torrumbarry Weir (d/s)	7.3	3.39	81.94	11 130	F	15 590	6 700
Swan Hill	4.5	2.64	65.56	15 370	F	12 560	3 930
Wakool Junction	8.8	4.51	53.63	15 660	R	9 780	5 330
Euston Weir (d/s)	8.8	2.39	44.23	12 710	R	7 430	5 440
Mildura Weir (d/s)	-	-	30.86	6 150	F	5 210	5 040
Wentworth Weir (d/s)	7.3	2.96	27.72	6 470	R	5 150	4 910
Rufus Junction	-	2.83	19.76	2 760	R	2 490	2 520
Blanchetown (Lock 1 d/s)	-	-	-	2 580	S	2 650	2 630
<b>Tributaries</b>							
Kiewa at Bandiana	2.7	1.94	155.17	2 290	R	2 920	3 910
Ovens at Wangaratta	11.9	9.64	147.32	5 724	F	7 820	21 310
Goulburn at McCoy's Bridge	9.0	2.05	93.47	1 869	F	5 690	8 190
Edward at Stevens Weir (d/s)	-	-	-	1 820	F	1 650	1 230
Edward at Liewah	-	1.99	57.37	1 390	R	1 270	1 060
Wakool at Stoney Crossing	-	0.33	54.82	197	S	200	220
Murrumbidgee at Balranald	5.0	0.71	56.67	320	F	300	210
Barwon at Mungindi	-	3.26	-	150	F	170	200
Darling at Bourke	-	4.03	-	250	R	260	240
Darling at Burtundy Rocks	-	0.66	-	10	S	10	10

<b>Natural Inflow to Hume</b> (ie pre Dartmouth & Snowy Mountains scheme)	9 050	17 690
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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
Yarrawonga	124.90	-0.66	-	No. 7 Rufus River	22.10	+0.04	+0.51
No. 26 Torrumbarry	86.05	+0.00	-	No. 6 Murtho	19.25	+0.02	-0.05
No. 15 Euston	47.60	-0.10	-	No. 5 Renmark	16.30	+0.01	+0.08
No. 11 Mildura	34.40	-0.04	+0.06	No. 4 Bookpurnong	13.20	+0.03	+0.27
No. 10 Wentworth	30.80	-0.10	+0.32	No.3 Overland Corner	9.80	-0.01	+0.12
No. 9 Kulnine	27.40	+0.03	-0.01	No. 2 Waikerie	6.10	+0.01	+0.08
No. 8 Wandumma	24.60	+0.00	+0.06	No 1. Blanchetown	3.20	+0.04	-0.15

Murrumbidgee	FSL (m AHD)	relation to FSL	d/s gauge ht.		Flow (ML/day)
			local (m)	(m AHD)	
No. 7 Maude	75.40	-0.04	1.73	71.08	2280
No. 5 Redbank	66.90	-0.07	0.15	61.45	269

**Barrages**

FSL = 0.75 m AHD

	Openings	Level	Status
Goolwa	128 openings	0.64	All closed
Mundoo	26 openings	0.66	All closed
Boundary Creek	6 openings	-	All closed
Ewe Island	111 gates	-	All closed
Tauwichee	322 gates	0.67	All closed

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

