

# REPORT FOR THE WEEK ENDING

Wednesday, 13 August 2003

Our Ref: RMW305/01//01/sb/ng/bh

15 August, 2003



## *Rainfall*

Good falls of rain ranging from 10 to 50 mm were recorded throughout most of the Murray-Darling catchment for the week ending 9 a.m. 13 August, however, further significant falls occurred to 9 a.m. on 14 August. Heavy falls across the upper Murray catchment resulted in continued significant tributary inflows to the Murray. This resulted in a short period of minor or moderate flood levels in parts of the upper Murray and tributary catchments.

## *Upper Murray Storages*

Combined storage in Hume and Dartmouth Reservoirs increased by 89 GL this week, which is the same increase as last week. However, the recent rain will lead to increased inflows early next week resulting in increased rates of rise in storage volume.

## *System Operation*

Inflows from the Ovens River remained around 7,500 ML/day for the duration of the week, however, significant rises will occur next week. Release from Yarrawonga Weir was reduced from 11,000 ML/day to 7,500 ML/day over the week, but increases will be required next week with the arrival of increased inflow to Lake Mulwala.

Refilling of Stevens Weir pool has continued, with the pool level now 0.7 m below Full Supply Level. Release from Stevens Weir has been maintained near 2 900 ML/day. Diversion Wakool Main Canal for channel filling commenced early in the week with diversions steady at 300 ML/day.

Inflow to the River Murray from the Goulburn River has reduced from 1300 ML/day to 900 ML/day.

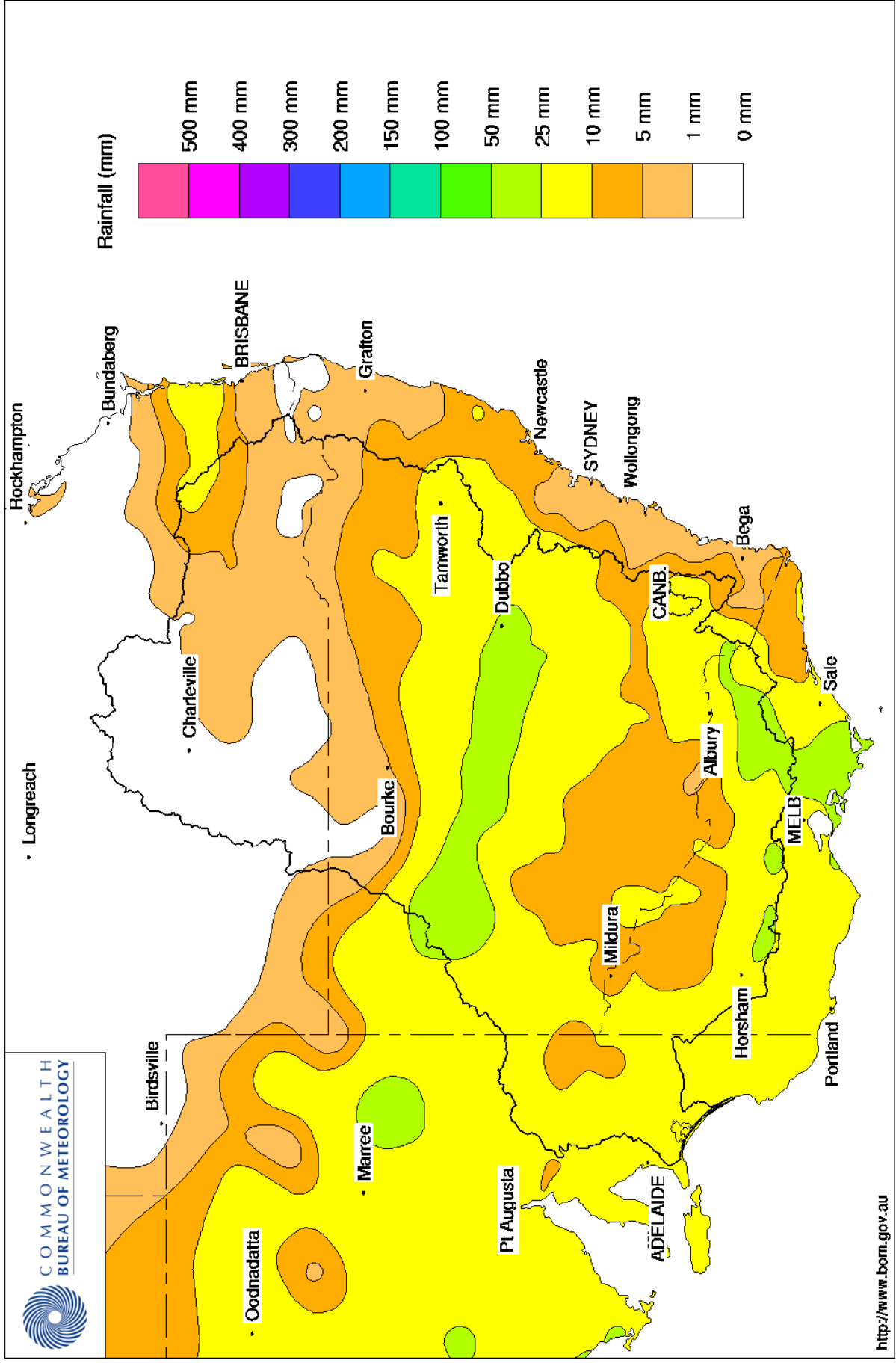
Diversion to National Channel was reduced from 1 000 ML/day to zero over the week in response to the wetter conditions. Release from Torrumbarry Weir has been steady at about 10 000 ML/day, and is expected to slowly decrease next week. Flow at Euston peaked at about 15 000 ML/day before receding to 12 000 ML/day, but further minor rises are expected next week.

Increased Murray flows are being stored in Lake Victoria with storage increasing by 28 GL over the week. Due to capacity constraints of the inlet channel to the Lake, the flow to South Australia was increased from 2 800 to about 7 000 ML/day by the end of the week.

DAVID DOLE  
General Manager

# Murray Darling Rainfall Analysis (mm) Week Ending 13th August 2003

Product of the National Climate Centre



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**Week ending Wednesday 13 Aug 2003**

**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	432.98	1 293	33%	80	1 213	+16
Hume Reservoir	192.00	3 038	177.76	910	30%	30	880	+73
Lake Victoria	27.00	680	24.08	369	54%	100	269	+28
Menindee Lakes		1 603 *		71	4%	640 #	0	-1
<b>Total</b>		<b>9 227</b>		<b>2 643</b>	<b>29%</b>	<b>850</b>	<b>2 362</b>	<b>+116</b>

\* Menindee surcharge capacity 1916 GL

% of Total Active MDBC Storage = **28%**

# NSW Menindee Lakes Reserve

**Major State Storages**

Burrinjuck Reservoir	1 026	121	12%	3	118	+7
Blowering Reservoir	1 631	501	31%	24	477	+48
Eildon Reservoir	3 390	667	20%	100	567	+47

**Snowy Mountains Scheme**

Snowy diversions for week ending 12-Aug-2003

Storage	Active storage (GL)	Weekly change (GL)	Diversion (GL)	This week	From 1 May 2003
Lake Eucumbene - Total	1 505	-40	Snowy-Murray	+31	399
Snowy-Murray Component	645	-16	Tooma-Tumut	+5	52
Target Storage	1 190		Nett Diversion	25.3	347
			Murray 1 Release	+38	463

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

New South Wales	This week	From 1 July 2003
Murray Irrig. Ltd (Net)	2.8	2.8
Wakool System loss	0.0	.1
Western Murray Irrig.	0.1	.6
Licensed Pumps	0.6	4.7
Lower Darling	0.1	.4
<b>TOTAL</b>	<b>3.6</b>	<b>8.6</b>

Victoria	This week	From 1 July 2003
Yarrowonga Main Channel (net)	.0	
Torrumbarry System + Nyah (net)	0.0	37
Sunraysia Pumped Districts	0.0	1
Licensed pumps - GMW (Nyah+u/s)	0.0	
Licensed pumps - SRW	2.6	12
<b>TOTAL</b>	<b>2.6</b>	<b>50</b>

**Flow to South Australia (GL)**

Entitlement this month	124	(4 400 ML/day)
Flow this week	30.5	
Flow so far this month	47	
Flow last month	87	

**Salinity (EC)**

(microsiemens/cm @ 25° C)

	Current	Average over the last week	Average since 1 August 2003
Swan Hill	100	120	130
Euston	140	140	160
Red Cliffs	110	150	140
Merbein	150	140	140
Burtundy (Darling)	1 630	1 650	1 660
Lock 9	180	200	220
Lake Victoria	220	250	270
Berri	410	400	400
Waikerie	-	580	580
Morgan	610	590	580
Mannum	500	500	490
Murray Bridge	540	520	510
Milang (Lake Alex.)	1 110	1 100	1 090
Poltalloch (Lake Alex.)	1 060	1 030	1 040
Meninque (Lake Alb.)	1 480	1 400	1 410
Goolwa Barrages	3 680	3 950	3 960



**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	-	-	-	8 760	R	6 090	5 990
Jingellic	4.0	2.36	208.88	10 770	R	8 820	8 950
Tallandoon ( Mitta Mitta River )	4.2	1.95	218.84	2 540	F	2 460	1 860
Heywoods	5.5	1.18	154.81	600	S	600	600
Doctors Point	5.5	1.83	150.30	2 760	R	3 170	3 120
Albury	4.3	0.91	148.35	-	-	-	-
Corowa	7.0	1.14	127.16	3 650	F	3 340	3 890
Yarrowonga Weir (d/s)	6.4	1.40	116.44	7 500	S	8 070	17 700
Tocumwal	6.4	1.94	105.78	7 970	F	9 450	19 700
Torrumbarry Weir (d/s)	7.3	3.29	81.84	10 660	R	10 270	15 590
Swan Hill	4.5	1.83	64.75	9 820	S	10 690	12 560
Wakool Junction	8.8	3.84	52.96	12 210	F	14 170	9 780
Euston Weir (d/s)	8.8	2.33	44.17	12 310	F	14 100	7 430
Mildura Weir (d/s)	-	-	31.40	13 680	F	12 180	5 210
Wentworth Weir (d/s)	7.3	3.47	28.23	13 600	F	11 190	5 150
Rufus Junction	-	3.45	20.38	6 450	R	3 880	2 490
Blanchetown (Lock 1 d/s)	-	-	-	2 700	S	2 610	2 650
<b>Tributaries</b>							
Kiewa at Bandiana	2.7	2.00	155.23	2 430	R	2 940	2 920
Ovens at Wangaratta	11.9	10.02	147.70	7 241	R	6 490	7 820
Goulburn at McCoys Bridge	9.0	1.49	92.91	890	F	1 110	5 690
Edward at Stevens Weir (d/s)	-	-	-	2 850	S	2 490	1 650
Edward at Liewah	-	2.37	57.75	1 840	R	1 590	1 270
Wakool at Stoney Crossing	-	0.40	54.89	291	R	230	200
Murrumbidgee at Balranald	5.0	0.53	56.49	215	S	240	300
Barwon at Mungindi	-	3.30	-	230	S	150	170
Darling at Bourke	-	4.04	-	280	S	280	250
Darling at Burtundy Rocks	-	0.67	-	28	S	20	10

<b>Natural Inflow to Hume</b> (ie pre Dartmouth & Snowy Mountains scheme)	8 930	9 050
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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	-0.39	-	No. 7 Rufus River	22.10	+0.11	+1.05
No 26 Torrumbarry	86.05	+0.00	-	No. 6 Murtho	19.25	+0.14	+0.14
No. 15 Euston	47.60	-0.04	-	No. 5 Renmark	16.30	+0.05	+0.28
No. 11 Mildura	34.40	+0.01	+0.60	No. 4 Bookpurnong	13.20	+0.10	+0.62
No. 10 Wentworth	30.80	+0.06	+0.83	No.3 Overland Corner	9.80	+0.04	+0.15
No. 9 Kulnine	27.40	+0.12	+0.12	No. 2 Waikerie	6.10	+0.03	+0.10
No. 8 Wangumma	24.60	+0.06	+0.27	No.1. Blanchetown	3.20	+0.05	-0.07

Murrumbidgee	FSL (m AHD)	relation to FSL	d/s gauge ht.		Flow (ML/day)
			local (m)	(m AHD)	
No. 7 Maude	75.40	-0.05	1.31	70.66	1420
No. 5 Redbank	66.90	-0.02	0.15	61.45	269

**Barrages**

FSL = 0.75 m AHD

	Openings	Level	Status
Goolwa	128 openings	0.72	All closed
Mundoo	26 openings	0.72	All closed
Boundary Creek	6 openings	-	All closed
Ewe Island	111 gates	-	All closed
Tauwichee	322 gates	0.71	All closed

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

