

# REPORT FOR THE WEEK ENDING

Wednesday, 11 September 2002

*Our Ref: MDBC:269 :dc:bwh*

13 September, 2002



Little or no rainfall was recorded across most of the Murray-Darling Basin, however, falls of between 10 and 25 mm were recorded in parts of the upper Murray catchment and eastern areas of the Basin. Continuing dry conditions have resulted in unregulated flows in most tributaries in upper catchment areas continuing to recede to low levels for this time of year.

Inflow to Dartmouth Reservoir peaked at about 4 000 ML/day early in the week as a result of rain late last week. Storage in Dartmouth has decreased by 50 GL to 2 898 GL or 74 % of capacity. Transfer of water from Dartmouth to Hume Reservoir will be maintained near channel capacity in the Mitta Mitta River (10 000 ML/day at Tallandoon) unless there is a significant improvement in conditions along the River Murray.

Inflow to Hume Reservoir as a result of unregulated inflows, and release from the Snowy Mountains Scheme and Dartmouth Reservoir, is currently near the rate of release from Hume. As a result, storage in Hume Reservoir fell by only 2 GL to 781 GL or 26 % of capacity. Release from Hume is currently set to target a flow of 19 000 ML/day at Albury/Wodonga, and is expected to be maintained near this rate next week.

Combined diversion from Lake Mulwala via the major offtakes is currently 7 200 ML/day (55 % of capacity). If conditions remain dry, release from Yarrawonga Weir will be maintained near the current rate of 13 000 ML/day. This includes a transfer of water from Hume to Lake Victoria of about 3 800 ML/day, and is in addition to 2 600 ML/day currently being transferred via Mulwala Canal to the Edward/Wakool system to supplement storage in Lake Victoria.

In the Edward River System, release from Stevens Weir has been maintained at regulated channel capacity (2 900 ML/day) since 2 September. Diversion to Wakool Canal has fallen to 400 ML/day or 17 % of capacity. As a result, to prevent flows downstream of Stevens Weir exceeding regulated channel capacity, diversion at the Colligen Offtake has been increased from 300 ML/day to 600 ML/day in order to supplement transfer of water to Lake Victoria.

At Euston Weir, release has been increased from 4 500 to 6 800 ML/day due to the arrival of increased flows from the Murray, Edward and Wakool Rivers, and reductions in diversions along the Murray. Flow at Euston is expected to further increase to about 9 000 ML/day next week.

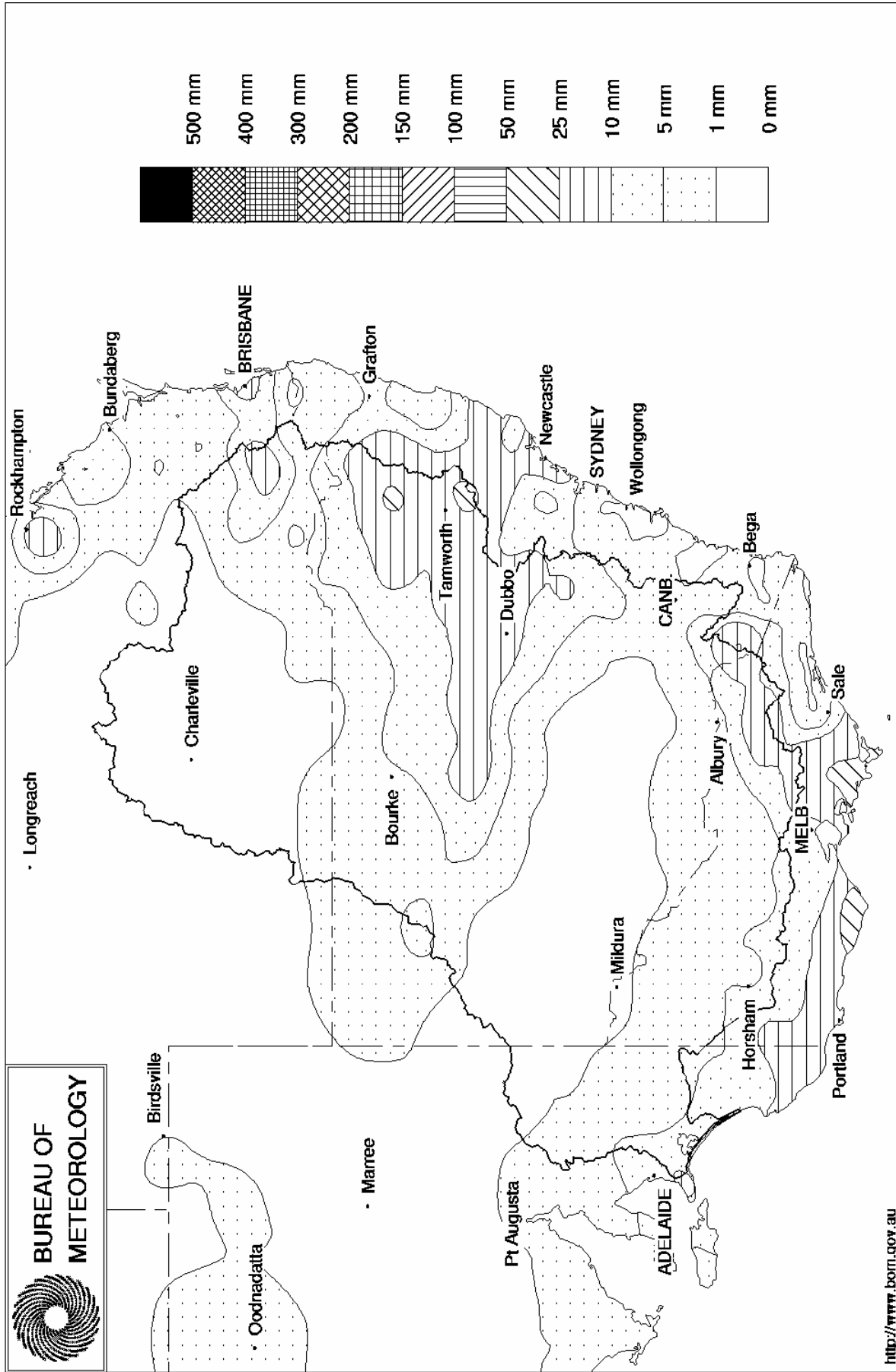
Lake Victoria storage has declined by 14 GL to 359 GL (53 % of capacity), but is forecast to commence rising late next week with the arrival of increased flows in transit in the mid Murray. Flow to South Australia is being maintained at the September entitlement rate of 4 500 ML/day.

With continuing dry conditions throughout the Darling River system, storage in Menindee Lakes is continuing to slowly decrease (currently 338 GL or 20% of capacity). With the lakes currently under NSW control, the Department of Land and Water Conservation has recently been releasing a low flow of about 30 ML/day at Weir 32 in view of the low storage volume in the lakes. Further downstream, flow at Burtundy has declined to about 10 ML/day.

DAVID DOLE  
General Manager

# Murray Darling Rainfall Analysis (mm) Week Ending 11th September 2002

Product of the National Climate Centre



**Week ending Wednesday 11 Sep 2002**

**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	468.38	2 848	73%	80	2 768	-50
Hume Reservoir	192.00	3 038	176.48	781	26%	30	751	-2
Lake Victoria	27.00	680	23.98	359	53%	100	259	-14
Menindee Lakes		1 682 *		338	20%	640 #	0	-12
<b>Total</b>		<b>9 306</b>		<b>4 325</b>	<b>46%</b>	<b>850</b>	<b>3 777</b>	<b>-79</b>

\* Menindee surcharge capacity 1999 GL

% of Total Active MDBC Storage = **45%**

# NSW Menindee Lakes Reserve

**Major State Storages**

Burrinjuck Reservoir	1 026	315	31%	3	312	+8
Blowering Reservoir	1 631	493	30%	24	469	-24
Eildon Reservoir	3 390	780	23%	100	680	-12

**Snowy Mountains Scheme**

Snowy diversions for week ending 10-Sep-2002

Storage (GL)	Current storage	Weekly change	Diversion	This week	From 1 May 2002
Lake Eucumbene - Total	3 001	+43	Snowy-Murray	+2	173
Snowy-Murray Component	1 387	+27	Tooma-Tumut	+14	115
Target Storage	1 240		Nett Diversion	-12.8	58
			Murray 1 Release	+18	296

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

New South Wales	This week	From 1 July 2002
Murray Irrig. Ltd (Net)	22.7	174.0
Wakool System loss	1.7	8.6
Western Murray Irrig.	0.5	2.5
Licensed Pumps	6.4	40.9
Lower Darling	5.4	41.3
<b>TOTAL</b>	<b>36.7</b>	<b>267.3</b>

Victoria	This week	From 1 July 2002
Yarrawonga Main Channel (net)	9.5	67
Torrumbarry System + Nyah (net)	16.8	211
Sunraysia Pumped Districts	3.3	12
Licensed pumps - GMW (Nyah+u/s)	0.9	6
Licensed pumps - SRW	2.0	20
<b>TOTAL</b>	<b>32.4</b>	<b>316</b>

**Flow to South Australia (GL)**

Entitlement this month	135	(4 500 ML/day)
Flow this week	31.4	
Flow so far this month	49	
Flow last month	124	

**Salinity (EC)**

(microsiemens/cm @ 25° C)

	Current	Average over the last week	Average since 1 August 2002
Swan Hill	70	82	128
Euston	170	147	196
Red Cliffs	200	260	232
Merbein	330	290	232
Burtundy	810	830	823
Lock 9	310	295	274
Lake Victoria	370	372	356
Berri	420	411	420
Waikerie	600	610	609
Morgan	630	634	642
Mannum	660	655	658
Murray Bridge	760	754	729
Meningie	1 440	1 460	1 400
Goolwa Barrages	3 630	3 624	4 067



**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	-	-	-	2 590	F	3 410	2 300
Jingellic	4.0	1.80	208.32	5 640	F	6 670	4 810
Tallandoon ( Mitta Mitta River )	4.2	3.19	220.08	9 960	S	9 820	9 740
Heywoods	5.5	3.19	156.82	17 980	R	15 880	19 710
Doctors Point	5.5	3.40	151.87	19 100	R	17 070	20 390
Albury	4.3	2.45	149.89	-	-	-	-
Corowa	7.0	3.42	129.44	18 600	R	18 400	22 670
Yarrowonga Weir (d/s)	6.4	2.13	117.17	13 000	S	13 000	13 000
Tocumwal	6.4	2.65	106.49	12 760	S	12 780	12 730
Torrumbarry Weir (d/s)	7.3	2.48	81.03	7 480	F	7 150	5 000
Swan Hill	4.5	1.29	64.21	6 250	R	5 420	3 300
Wakool Junction	8.8	2.92	52.04	7 440	R	6 010	3 900
Euston Weir (d/s)	8.8	1.45	43.29	6 760	R	5 330	3 630
Mildura Weir (d/s)	-	-	30.88	3 460	F	3 020	2 210
Wentworth Weir (d/s)	7.3	2.82	27.58	3 470	R	3 050	2 180
Rufus Junction	-	3.02	18.40	4 050	R	3 980	3 780
Blanchetown (Lock 1 d/s)	-	-	-	3 030	R	2 770	2 630
<b>Tributaries</b>							
Kiewa at Bandiana	2.7	1.47	154.70	1 340	R	1 380	840
Ovens at Wangaratta	11.9	8.12	145.80	979	F	1 030	1 000
Goulburn at McCoys Bridge	9.0	1.21	92.63	463	S	490	480
Edward at Stevens Weir (d/s)	-	-	-	2 880	F	2 870	2 340
Edward at Liewah	-	2.65	58.03	2 200	R	1 800	1 430
Wakool at Stoney Crossing	-	0.46	54.95	420	R	230	60
Murrumbidgee at Balranald	5.0	0.62	56.58	320	R	240	230
Barwon at Mungindi	-	3.11	-	0	F	10	30
Darling at Bourke	-	3.98	-	120	S	120	130
Darling at Burtundy Rocks	-	0.64	-	10	S	10	10

<b>Natural Inflow to Hume</b> (ie pre Dartmouth & Snowy Mountains scheme)	10 590	5 760
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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	-0.25	-	No. 7 Rufus River	22.10	+0.09	+0.69
No 26 Torrumbarry	86.05	-0.01	-	No. 6 Murtho	19.25	+0.02	+0.01
No. 15 Euston	47.60	+0.00	-	No. 5 Renmark	16.30	+0.02	+0.12
No. 11 Mildura	34.40	+0.03	+0.08	No. 4 Bookpurnong	13.20	+0.02	+0.43
No. 10 Wentworth	30.80	+0.04	+0.18	No.3 Overland Corner	9.80	+0.02	+0.15
No. 9 Kulnine	27.40	+0.01	+0.01	No. 2 Waikerie	6.10	+0.04	+0.10
No. 8 Wangumma	24.60	+0.03	+0.10	No 1. Blanchetown	3.20	+0.04	+0.01

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	0.56	69.91	260
No. 5 Redbank	66.90	-0.76	0.24	61.54	353

**Barrages**

FSL = 0.75 m AHD

	Openings	Level	Status
Goolwa	128 openings	0.80	All closed
Mundoo	26 openings	0.80	All closed
Boundary Creek	6 openings	-	All closed
Ewe Island	111 gates	-	All closed
Tauwichee	322 gates	0.82	All closed

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

