

# REPORT FOR THE WEEK ENDING

Wednesday, 23 October 2002

Our Ref: MDBC:269 :dc:bwh

24 October, 2002



## *Dry conditions persist*

Very little rainfall was recorded across the Murray-Darling Basin this week - no rainfall was recorded in almost all of the central and northern areas of the Basin, and only some minor falls were recorded along the Basin's southern boundary.

## *Upper Murray storage volumes continue to fall*

Storage in Dartmouth Reservoir declined by a further 60 GL to 2 551 GL or 63 % of capacity. If conditions remain very dry, it is expected that release from Dartmouth Reservoir will be maintained at channel capacity in the Mitta Mitta River (10 000 ML/day at Tallandoon) until April 2003.

Hume Reservoir storage also continued to steadily decline this week by a further 35 GL to 764 GL or 25 % of capacity. Release from Hume was reduced from 21 000 to 19 000 ML/day at Albury/Wodonga, however, it is expected to be increased to about 21 000 ML/day next week in order to meet ongoing downstream requirements.

## *Mid Murray operation*

Combined diversions from Lake Mulwala at the major offtakes remained relatively steady this week and averaged 7 300 ML/day or 56 % of capacity (which includes about 2 800 ML/day being transferred to the Edward/Wakool system via the Mulwala Canal for transfer to Lake Victoria). The total rate of transfer from Hume Reservoir to Lake Victoria (via the Murray and Edward/Wakool systems) averaged about 6 900 ML/day (as measured near Yarrawonga). However, the rate of effective gain in storage in Lake Victoria is expected to gradually fall over the coming weeks as both diversions and transmission losses between Yarrawonga and Lake Victoria are expected to increase due to higher temperatures. Without significant rainfall, release from Yarrawonga Weir will continue to be maintained at 14 000 ML/day.

Diversion from Torrumbarry Weir pool to National Channel also remained steady at 3 000 ML/day (71% of capacity). This rate of diversion is expected to continue over the coming week, and flow downstream of Torrumbarry Weir is forecast to remain steady near 7 800 ML/day.

Flow at Euston Weir increased from 9 800 to 10 400 ML/day mainly as a result of reductions in diversion to National Channel in mid October. As a result of the ongoing transfer of water from Hume Reservoir to Lake Victoria, storage in Lake Victoria has risen by 8 GL to 448 GL or 66 % of capacity. If conditions remain dry, storage in Lake Victoria is forecast to continue to gradually rise during late October and November.

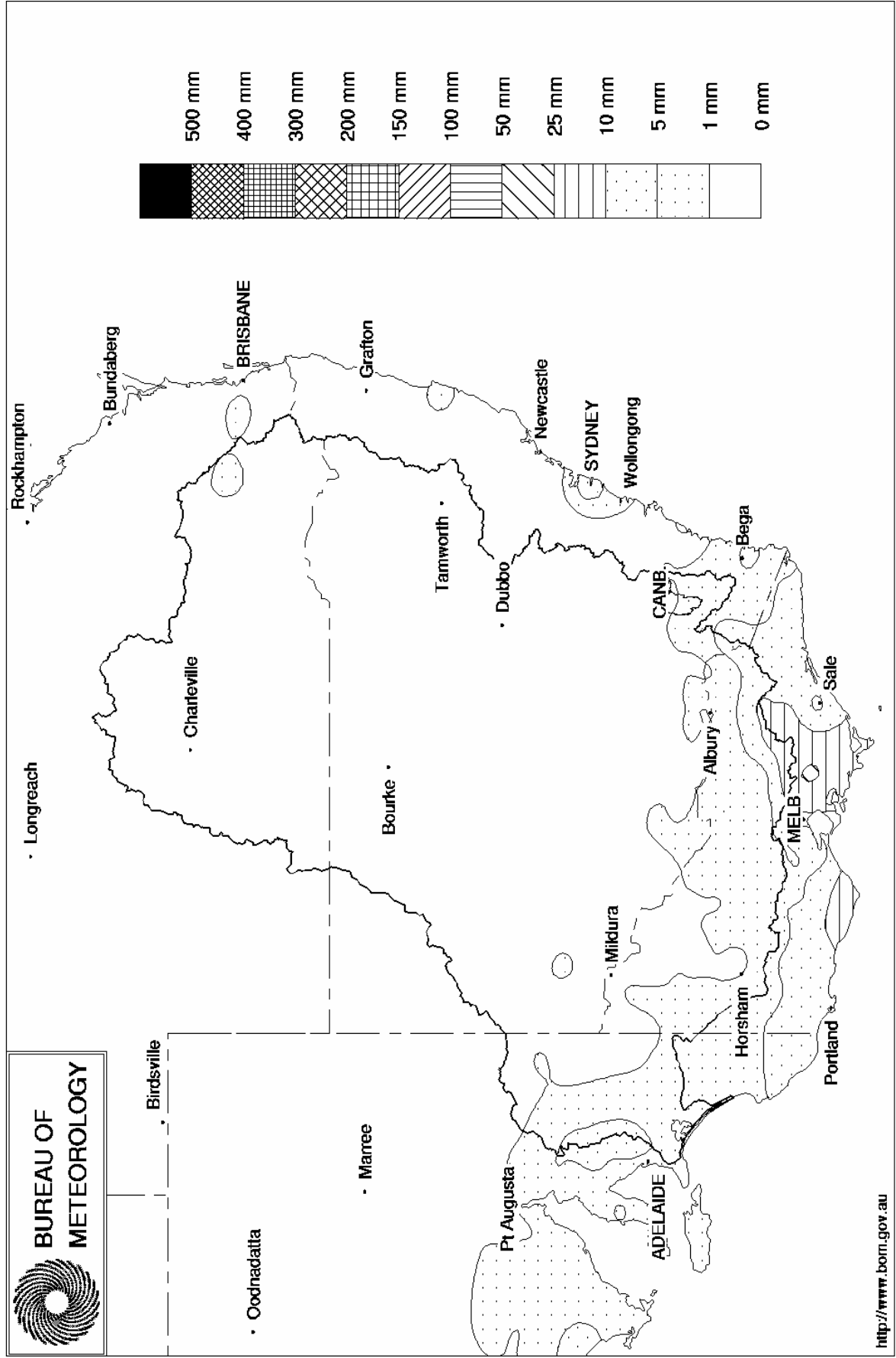
## *Increased release from Menindee Lakes for stock and domestic supplies*

Release from Menindee Lakes was increased from very low rates to 180 ML/day in mid October (at Weir 32) by the NSW Department of Land and Water Conservation in order to maintain stock and domestic water supply in the lower Darling River. However, in order to conserve resources, release will once again be reduced to low levels when increased flows travel far enough downstream to meet short-term requirements.

DAVID DOLE  
General Manager

# Murray Darling Rainfall Analysis (mm) Week Ending 23rd October 2002

Product of the National Climate Centre



## Week ending Wednesday 23 Oct 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	462.78	2 551	65%	80	2 471	-60
Hume Reservoir	192.00	3 038	176.30	764	25%	30	734	-35
Lake Victoria	27.00	680	24.86	448	66%	100	348	+8
Menindee Lakes		1 682 *		250	15%	640 #	0	-36
<b>Total</b>		<b>9 306</b>		<b>4 014</b>	<b>43%</b>	<b>850</b>	<b>3 553</b>	<b>-123</b>

\* Menindee surcharge capacity 1999 GL

% of Total Active MDBC Storage = **42%**

# NSW Menindee Lakes Reserve

### Major State Storages

Burrinjuck Reservoir	1 026		314	31%	3	311	-22
Blowering Reservoir	1 631		402	25%	24	378	+1
Eildon Reservoir	3 390		771	23%	100	671	-4

### Snowy Mountains Scheme

Snowy diversions for week ending 22-Oct-2002

Storage (GL)	Current storage	Weekly change	Diversion	This week	From 1 May 2002
Lake Eucumbene - Total	3 180	-14	Snowy-Murray	+8	193
Snowy-Murray Component	1 550	-	Tooma-Tumut	+5	172
Target Storage	1 400		Nett Diversion	3.4	20
			Murray 1 Release	+19	419

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

New South Wales	This week	From 1 July 2002
Murray Irrig. Ltd (Net)	16.4	264.7
Wakool System loss	0.6	15.0
Western Murray Irrig.	0.7	5.9
Licensed Pumps	4.6	77.1
Lower Darling	0.2	52.2
<b>TOTAL</b>	<b>22.6</b>	<b>415.0</b>

Victoria	This week	From 1 July 2002
Yarrawonga Main Channel (net)	14.7	152
Torrumbarry System + Nyah (net)	19.6	339
Sunraysia Pumped Districts	4.5	32
Licensed pumps - GMW (Nyah+u/s)	1.7	18
Licensed pumps - SRW	3.5	42
<b>TOTAL</b>	<b>43.9</b>	<b>583</b>

### Flow to South Australia (GL)

Entitlement this month	170	(5 400 ML/day)
Flow this week	37.9	
Flow so far this month	127	
Flow last month	136	

### Salinity (EC)

(microsiemens/cm @ 25° C)

	Current	Average over the last week	Average since 1 August 2002
Swan Hill	80	90	110
Euston	110	110	170
Red Cliffs	100	100	190
Merbein	110	140	200
Burtundy (Darling)	860	990	850
Lock 9	170	170	250
Lake Victoria	350	360	360
Berri	410	400	420
Waikerie	-	-	580
Morgan	600	560	620
Mannum	650	650	660
Murray Bridge	750	740	730
Milang (Lake Alex.)	-	980	950
Poltalloch (Lake Alex.)	-	1 060	1 120
Meningie (Lake Alb.)	-	1 590	1 460
Goolwa Barrages	3 040	2 990	3 740



**Week ending Wednesday 23 Oct 2002**

**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	-	-	-	4 350	F	3 570	3 240
Jingellic	4.0	1.85	208.37	6 080	S	5 530	5 560
Tallandoon ( Mitta Mitta River )	4.2	3.20	220.09	10 020	F	10 050	10 010
Heywoods	5.5	3.20	156.83	18 170	F	18 940	19 060
Doctors Point	5.5	3.39	151.86	19 000	F	20 090	20 460
Albury	4.3	2.44	149.88	-	-	-	-
Corowa	7.0	3.77	129.79	21 300	S	21 270	20 740
Yarrowonga Weir (d/s)	6.4	2.24	117.28	14 000	S	14 010	14 000
Tocumwal	6.4	2.78	106.62	13 950	S	13 910	13 750
Torrumbarry Weir (d/s)	7.3	2.55	81.10	7 780	S	7 810	7 390
Swan Hill	4.5	1.45	64.37	7 310	R	7 080	6 480
Wakool Junction	8.8	3.61	52.73	10 320	R	9 970	9 580
Euston Weir (d/s)	8.8	2.05	43.89	10 410	R	10 160	9 800
Mildura Weir (d/s)	-	-	31.08	7 350	F	7 300	7 260
Wentworth Weir (d/s)	7.3	3.08	27.84	7 720	F	7 790	7 900
Rufus Junction	-	3.25	18.31	5 270	R	4 910	5 010
Blanchetown (Lock 1 d/s)	-	-	-	3 060	F	3 320	3 650
<b>Tributaries</b>							
Kiewa at Bandiana	2.7	1.38	154.61	1 180	R	1 140	1 330
Ovens at Wangaratta	11.9	8.12	145.80	979	R	1 130	1 390
Goulburn at McCoys Bridge	9.0	1.18	92.60	399	F	450	440
Edward at Stevens Weir (d/s)	-	-	-	2 890	F	2 890	2 900
Edward at Liewah	-	2.95	58.33	2 660	R	2 640	2 710
Wakool at Stoney Crossing	-	0.84	55.33	1 560	S	1 580	1 490
Murrumbidgee at Balranald	5.0	0.59	56.55	300	R	200	250
Barwon at Mungindi	-	3.26	-	150	F	100	50
Darling at Bourke	-	3.96	-	80	F	100	120
Darling at Burtundy Rocks	-	0.44	-	0	F	0	0

<b>Natural Inflow to Hume</b> (ie pre Dartmouth & Snowy Mountains scheme)	5 570	7 370
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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	-0.22	-	No. 7 Rufus River	22.10	+0.08	+0.94
No 26 Torrumbarry	86.05	+0.00	-	No. 6 Murtho	19.25	+0.01	+0.05
No. 15 Euston	47.60	+0.00	-	No. 5 Renmark	16.30	+0.02	+0.12
No. 11 Mildura	34.40	+0.01	+0.28	No. 4 Bookpurnong	13.20	+0.02	+0.47
No. 10 Wentworth	30.80	+0.01	+0.44	No.3 Overland Corner	9.80	+0.01	+0.15
No. 9 Kulnine	27.40	+0.03	+0.00	No. 2 Waikerie	6.10	+0.02	+0.12
No. 8 Wangumma	24.60	-0.04	+0.13	No 1. Blanchetown	3.20	+0.00	+0.29

Murrumbidgee	FSL (m AHD)	relation to FSL	d/s gauge ht.		Flow (ML/day)
			local (m)	(m AHD)	
No. 7 Maude	75.40	-1.22	0.6	69.95	296
No. 5 Redbank	66.90	-1.72	0.2	61.5	314

**Barrages**

FSL = 0.75 m AHD

	Openings	Level	Status
Goolwa	128 openings	0.48	All closed
Mundoo	26 openings	-	All closed
Boundary Creek	6 openings	-	All closed
Ewe Island	111 gates	-	All closed
Tauwitchere	322 gates	0.37	All closed

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

