

# REPORT FOR THE WEEK ENDING

Wednesday, 6 November 2002

Our Ref: MDBC:269 :dc:bwh

7 November, 2002



*No relief from dry conditions.*

The only rainfall reported this week was generally confined to the southern boundary of the Murray-Darling Basin with maximum falls reaching between 5 and 10 mm in central Victoria.

*MDBC storage position*

With continuing dry conditions, low inflows and irrigation demand, total MDBC active storage has fallen to 40 % of capacity (*refer to attached diagram*). If very dry conditions continue, storage levels in Hume Reservoir and Lake Victoria are projected to fall to very low levels in summer/autumn 2003. This may lead to temporary supply difficulties along the River Murray at the time.

With release continuing at channel capacity in the Mitta Mitta River, storage at Dartmouth Reservoir declined 65 GL to 2 426 GL or 62 % of capacity. If conditions remain very dry, high release rates from Dartmouth will be required into autumn 2003.

Storage at Hume Reservoir has declined by 57 GL to 671 GL or 22 % of capacity, with release averaging about 20 000 ML/day (at the dam) during the week. Release from Hume was today increased to target a flow of 22 000 ML/day at Albury/Wodonga in order to meet ongoing irrigation demand and an increase in the rate of transfer of water to Lake Victoria.

Storage in Lake Victoria rose by 16 GL to 480 GL or 71% of capacity, and is forecast to continue rising in coming weeks. Storage in Menindee Lakes fell by a further 17 GL to 206 GL (or 12% of nominal capacity).

*Mid Murray operation*

Release from Yarrawonga Weir was increased from 14 000 to 15 000 ML/day on 7 November in consultation with Victorian and New South Wales natural resource agencies responsible for management of the Barmah-Millewa Forest. Part of the River Murray flow will continue to be directed through Victorian forest regulators so that the component of flow above normal channel capacity in the forest bypasses the Barmah 'choke' for efficient transfer of water to Lake Victoria.

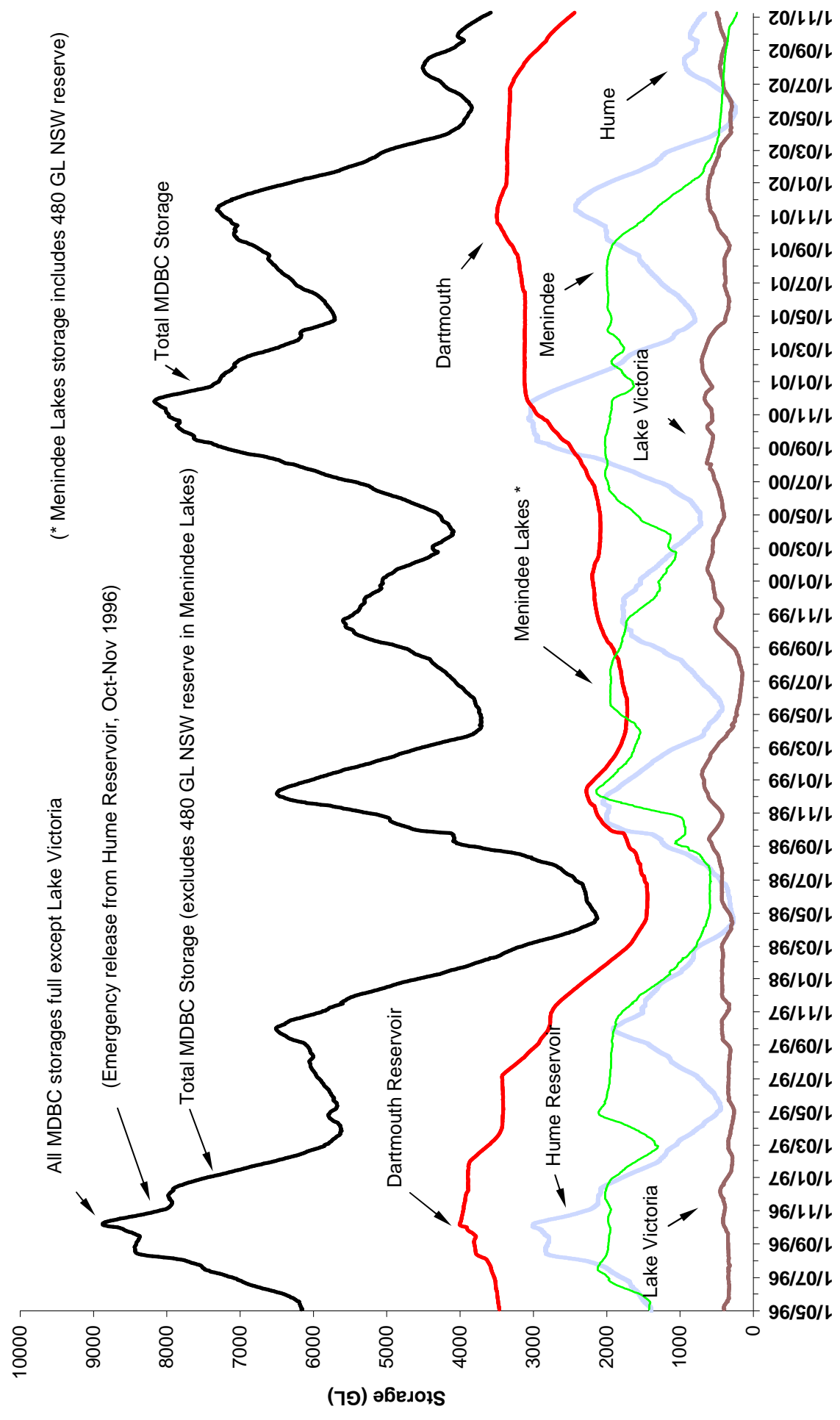
Diversion from Lake Mulwala to Mulwala Canal will be temporarily ceased for a short period next week to allow Murray Irrigation Limited to undertake peripheral works associated with the installation of a new small hydro-electric power station at 'The Drop' on Mulwala Canal. As a result of this temporary shutdown, it is anticipated that there will be a small short term reduction in flow in the Edward River downstream of Stevens Weir, and flow in some escapes which are currently transferring water through the Edward /Wakool system to supplement flow in the River Murray.

Flow in the River Murray at Euston Weir has increased from 11 000 to 11 400 ML/day, and is expected to continue near this rate next week.

Flow to South Australia was increased this week from 5 500 ML/day to the November entitlement rate of 6 000 ML/day.

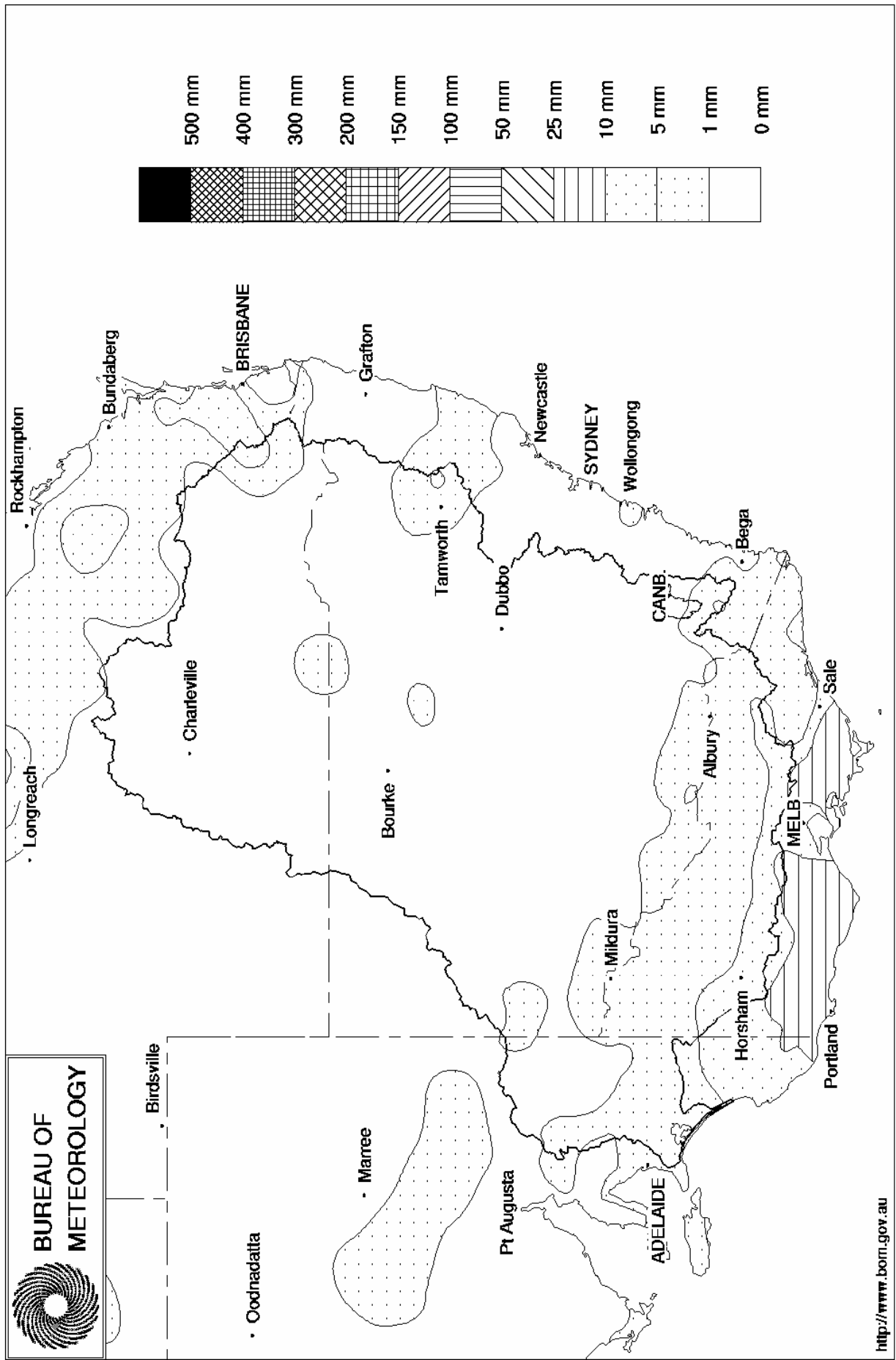
DAVID DOLE  
General Manager

# MDBC Storages : 1 May 1996 to 07 November 2002



# Murray Darling Rainfall Analysis (mm) Week Ending 6th November 2002

Product of the National Climate Centre



## Week ending Wednesday 06 Nov 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	460.30	2 426	62%	80	2 346	-65
Hume Reservoir	192.00	3 038	175.30	671	22%	30	641	-57
Lake Victoria	27.00	680	25.16	480	71%	100	380	+16
Menindee Lakes		1 682 *		206	12%	640 #	0	-17
<b>Total</b>		<b>9 306</b>		<b>3 783</b>	<b>41%</b>	<b>850</b>	<b>3 366</b>	<b>-123</b>

\* Menindee surcharge capacity 1999 GL

% of Total Active MDBC Storage = **40%**

# NSW Menindee Lakes Reserve

### Major State Storages

Burrinjuck Reservoir	1 026	302	29%	3	299	-4
Blowering Reservoir	1 631	293	18%	24	269	-52
Eildon Reservoir	3 390	746	22%	100	646	-17

### Snowy Mountains Scheme

Snowy diversions for week ending 05-Nov-2002

Storage (GL)	Current storage	Weekly change	Diversion	This week	From 1 May 2002
Lake Eucumbene - Total	3 191	-1	Snowy-Murray	+13	217
Snowy-Murray Component	1 554	-	Tooma-Tumut	+3	178
Target Storage	1 450		Nett Diversion	10.1	39
			Murray 1 Release	+14	447

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

New South Wales	This week	From 1 July 2002
Murray Irrig. Ltd (Net)	10.4	286.8
Wakool System loss	0.4	15.8
Western Murray Irrig.	0.7	7.3
Licensed Pumps	3.9	86.4
Lower Darling	5.4	59.5
<b>TOTAL</b>	<b>20.7</b>	<b>455.8</b>

Victoria	This week	From 1 July 2002
Yarrawonga Main Channel (net)	15.9	183
Torrumbarry System + Nyah (net)	17.3	373
Sunraysia Pumped Districts	4.9	42
Licensed pumps - GMW (Nyah+u/s)	1.6	21
Licensed pumps - SRW	3.5	49
<b>TOTAL</b>	<b>43.3</b>	<b>667</b>

### Flow to South Australia (GL)

Entitlement this month	180	(5 900 ML/day)
Flow this week	41.3	
Flow so far this month	36	
Flow last month	171	

### Salinity (EC)

(microsiemens/cm @ 25° C)

	Current	Average over the last week	Average since 1 August 2002
Swan Hill	60	70	100
Euston	80	80	160
Red Cliffs	100	100	180
Merbein	100	110	190
Burtundy (Darling)	920	920	860
Lock 9	140	140	240
Lake Victoria	340	270	350
Berri	320	330	410
Waikerie	-	550	570
Morgan	570	580	610
Mannum	650	650	660
Murray Bridge	720	720	730
Milang (Lake Alex.)	1 020	1 010	970
Poltalloch (Lake Alex.)	1 090	1 080	1 110
Meningie (Lake Alb.)	1 510	1 480	1 470
Goolwa Barrages	2 770	2 820	3 620



**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	-	-	-	2 260	F	2 180	2 320
Jingellic	4.0	1.52	208.04	3 510	S	3 560	4 470
Tallandoon ( Mitta Mitta River )	4.2	3.20	220.09	10 020	R	10 030	9 990
Heywoods	5.5	3.33	156.96	19 180	F	20 210	19 040
Doctors Point	5.5	3.45	151.92	19 700	F	20 840	20 030
Albury	4.3	2.51	149.95	-	-	-	-
Corowa	7.0	3.79	129.81	21 500	F	21 410	20 970
Yarrowonga Weir (d/s)	6.4	2.24	117.28	14 000	S	14 000	13 990
Tocumwal	6.4	2.79	106.63	14 030	S	13 930	13 870
Torrumbarry Weir (d/s)	7.3	2.73	81.28	8 400	F	8 340	8 110
Swan Hill	4.5	1.52	64.44	7 760	R	7 630	7 430
Wakool Junction	8.8	3.74	52.86	10 950	S	10 840	10 550
Euston Weir (d/s)	8.8	2.20	44.04	11 350	R	11 190	10 910
Mildura Weir (d/s)	-	-	31.14	8 390	F	8 090	7 610
Wentworth Weir (d/s)	7.3	3.13	27.89	9 030	R	8 550	8 170
Rufus Junction	-	3.29	17.77	5 500	R	5 410	5 140
Blanchetown (Lock 1 d/s)	-	-	-	3 060	S	3 080	3 240
<b>Tributaries</b>							
Kiewa at Bandiana	2.7	0.84	154.07	400	F	600	830
Ovens at Wangaratta	11.9	7.96	145.64	643	F	690	980
Goulburn at McCoys Bridge	9.0	1.15	92.57	349	F	390	410
Edward at Stevens Weir (d/s)	-	-	-	2 900	F	2 890	2 950
Edward at Liewah	-	3.03	58.41	2 780	R	2 740	2 670
Wakool at Stoney Crossing	-	0.86	55.35	1 640	S	1 610	1 570
Murrumbidgee at Balranald	5.0	0.49	56.45	220	R	220	280
Barwon at Mungindi	-	3.07	-	0	F	30	60
Darling at Bourke	-	3.96	-	80	F	110	140
Darling at Burtundy Rocks	-	0.31	-	0	F	0	0

<b>Natural Inflow to Hume</b> (ie pre Dartmouth & Snowy Mountains scheme)	3 130	5 210
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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	+0.12	+0.98
No 26 Torrumbarry	86.05	+0.00	-	No. 6 Murtho	19.25	+0.05	+0.08
No. 15 Euston	47.60	+0.00	-	No. 5 Renmark	16.30	+0.04	+0.15
No. 11 Mildura	34.40	+0.05	+0.34	No. 4 Bookpurnong	13.20	+0.05	+0.52
No. 10 Wentworth	30.80	+0.06	+0.49	No.3 Overland Corner	9.80	+0.00	+0.13
No. 9 Kulnine	27.40	+0.03	+0.06	No. 2 Waikerie	6.10	+0.00	+0.08
No. 8 Wangumma	24.60	+0.02	+0.22	No 1. Blanchetown	3.20	+0.00	-0.05

Murrumbidgee	FSL (m AHD)	relation to FSL	d/s gauge ht.		Flow (ML/day)
			local (m)	(m AHD)	
No. 7 Maude	75.40	-1.28	0.75	70.1	457
No. 5 Redbank	66.90	-1.48	0.14	61.44	261

**Barrages**

FSL = 0.75 m AHD

	Openings	Level	Status
Goolwa	128 openings	0.76	All closed
Mundoo	26 openings	-	All closed
Boundary Creek	6 openings	-	All closed
Ewe Island	111 gates	-	All closed
Tauwitechere	322 gates	0.79	All closed

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

