

# REPORT FOR THE WEEK ENDING

**Wednesday, 5 December 2001**

*Our Ref : MDBC:269 :ng:bwh*

**7 December, 2001**



Light falls of rain were recorded across much of the Murray-Darling Basin, including falls of between 1 and 10 mm in Southern Queensland, along the Great Divide in New South Wales and in the Victorian and South Australian portions of the Basin. Some heavier falls of between 10 and 25 mm were recorded in the headwaters of the upper Murray tributaries, however. These produced no significant rise in streamflows.

The program of cyclic variation in release from Dartmouth Reservoir for environmental purposes is continuing, and release is being slowly varied between 3 200 and 4 800 ML/day with an average release of about 4 000 ML/day.

Late this week, release from Hume Reservoir was reduced from 20 000 to 18 000 ML/day in response to a slight reduction in irrigation demand as a result of cooler conditions. Storage in Hume has declined by 56 GL to 2 315 GL or 76% of capacity.

Total diversion from Lake Mulwala reached about 10 900 ML/day (or about 80% of capacity) by the end of the week. Some of this diversion is being transferred via Mulwala Canal to the Edward River to augment flow in the River Murray further downstream.

Release from Yarrawonga Weir has been maintained at 10 400 ML/day which is equivalent to channel capacity for flow downstream through the Barmah-Millewa Forest. To assist in meeting downstream requirements in the River Murray, flow in the Edward River downstream of Stevens Weir has been increased to 1 800 ML/day.

Diversion from Torrumbarry Weir pool to National Channel has increased from 3 000 to 3 800 ML/day to meet increasing demand in the Torrumbarry Irrigation System, and further increases to near capacity rates are expected next week.

Release from Euston Weir was temporarily increased from 3 600 to 4 000 ML/day late this week with the aim of meeting higher diversion rates at the weekend between Euston and Mildura. This program of weekly pulsing of releases will be continued as far as possible over the coming summer months to assist in preventing fluctuations in flow downstream of Mildura during periods of low regulated flow.

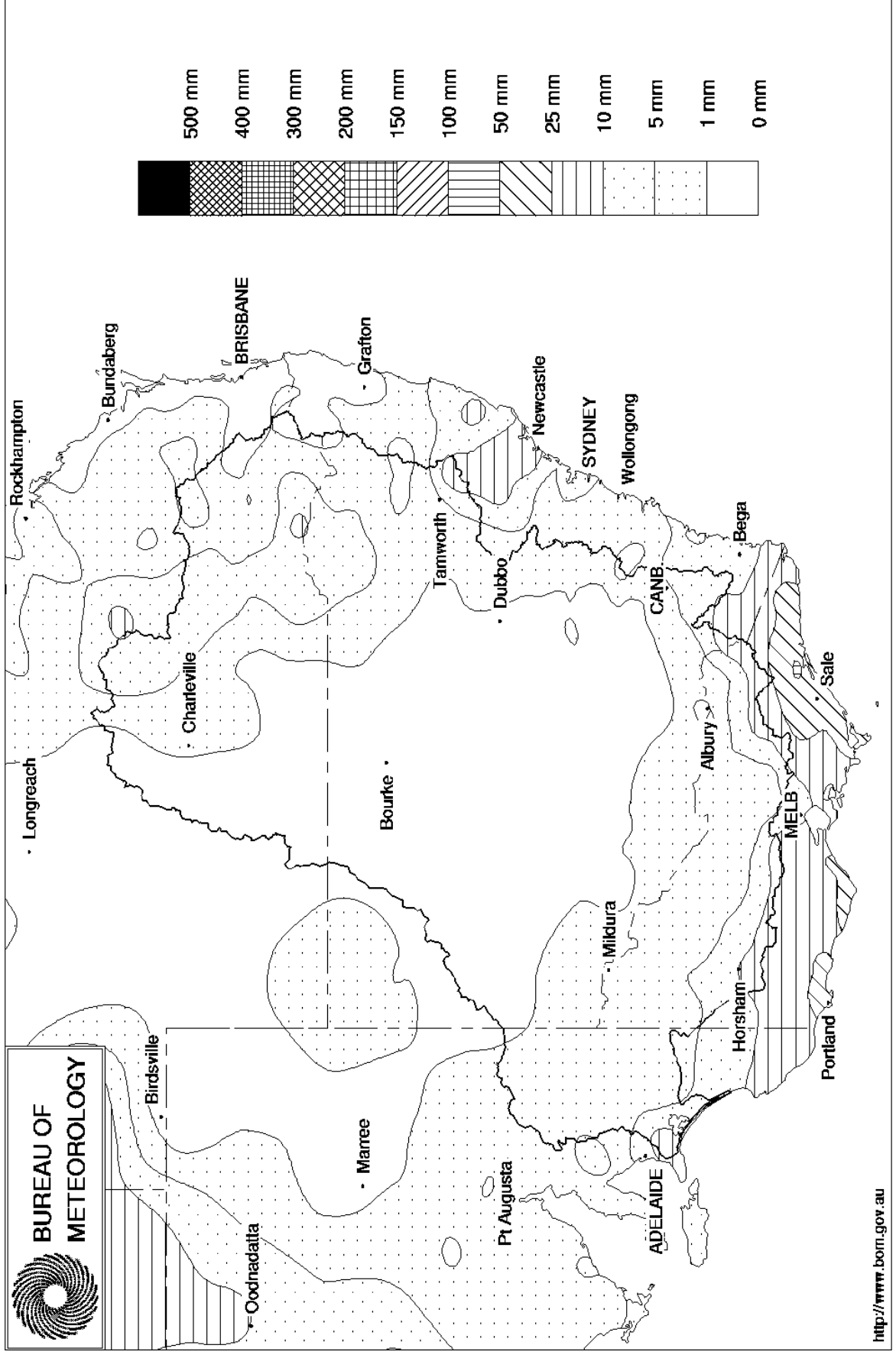
Release from Menindee Lakes has been gradually reduced to 6 300 ML/day, and storage volume in the Lakes has decreased by 65 GL this week to 1 101 GL (65% of capacity) as a result of release and evaporation. If conditions in the River Murray upstream of Wentworth remain dry, then the release will remain at this rate in the short term and gradually fall as the lake levels fall over December and January.

At the start of December, flow to South Australia was increased from about 6 000 to about 7 000 ML/day to meet the average December entitlement flow of 7 000 ML/day. Storage in Lake Victoria is currently 601 GL, however, it is expected to begin to slowly decline in mid December if conditions remain dry.

DAVID DOLE  
General Manager

# Murray Darling Rainfall Analysis (mm) Week Ending 5th December 2001

Product of the National Climate Centre



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Week ending 05-Dec-2001

### Water in Storage

MDBC Storages	Full Supply Level m AHD	Full Supply Capacity GL	Storage Level m AHD	Current Storage		Dead storage GL	Active storage GL	Change for the week GL
				GL	%			
Dartmouth Reservoir	486.00	3906	478.31	3421	88%	80	3341	-16
Hume Reservoir	192.00	3038	188.14	2315	76%	30	2285	-58
Lake Victoria	27.00	680	26.29	601	88%	100	501	+7
Menindee		1682 *		1101	65%	480 #	621	-64
<b>Total</b>		<b>9306</b>		<b>7439</b>	<b>80%</b>	<b>690</b>	<b>6749</b>	<b>-132</b>

\* Menindee surcharge capacity 1999 GL

% of Total Active MDBC Storage = **78%**

# NSW Menindee Lakes Reserve

### Major State Storages

Burrinjuck Reservoir	1026	462	45%	3	459	-29
Blowering Reservoir	1631	864	53%	24	840	-42
Eildon Reservoir	3390	1416	42%	100	1316	-28

### Snowy Mountains Scheme

Snowy diversions for week ending 04-Dec-2001

Storage (GL)	Current storage	Weekly change	Diversion	This week	From 1st May
Lake Eucumbene - Total	3196	+9	Snowy-Murray	+15	460
Snowy-Murray Component	1472	-	Tooma-Tumut	+4	199
Target Storage	1510		Nett Diversion	10.8	261
			Murray 1 Release	+17	728

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

New South Wales	This week	From 1 July
Murray Irrig. Ltd (Net)	50.8	560.3
Wakool System loss	1.7	11.3
Western Murray Irrig.	1.0	8.5
Licensed Pumps	8.8	125.2
Lower Darling	4.1	23.6
<b>TOTAL</b>	<b>66.5</b>	<b>728.8</b>

Victoria	This week	From 1 July
Yarrowonga Main Channel (net)	18.7	177.3
Torrumbarry System + Nyah (net)	24.6	305.6
Sunraysia Pumped Districts	5.6	50.8
Licensed pumps - GMW (Nyah+u/s)	1.6	29.1
Licensed pumps - SRW	5.8	77.3
<b>TOTAL</b>	<b>56.3</b>	<b>640.2</b>

### Flow to South Australia (GL)

Entitlement this month	217
Flow this week	46.3
Flow so far this month	34
Flow last month	221

### Salinity (EC)

(microsiemens/cm @ 25 C)

	Current	Average over the last week	Average since 1 August
Swan Hill	190	190	237
Euston	190	204	257
Red Cliffs	280	280	325
Merbein	280	270	302
Burtundy	470	463	419
Lock 9	450	421	374
L. Victoria	400	398	369
Berri	490	492	426
Waikerie	600	580	516
Morgan	570	555	511
Mannum	480	501	509
Murray Bridge	550	550	551
Meningie	1250	1250	1172
Goolwa Barrages	980	993	1322



Week ending 05-Dec-2001

**River Levels and Flows**

	Minor Flood stage m	Gauge height m	Flow ML/day	Trend	Average flow this week ML/day	Average flow last week ML/day
<b>River Murray</b>						
Khancoban	-	-	2220	F	2750	2990
Jingellic	4.0	1.67	4660	F	5180	6930
Tallandoon ( Mitta Mitta River )	4.2	2.46	5150	F	4580	5020
Heywoods	5.5	3.32	20210	R	19760	16940
Doctors Point	5.5	3.57	21100	F	21100	18260
Albury	4.3	2.60	-	F	-	-
Corowa	7.0	3.74	21100	F	20670	17590
Yarrowonga Weir (d/s)	6.4	1.79	10400	S	10410	9260
Tocumwal	6.4	2.30	9507	S	9450	8030
Torrumbarry Weir (d/s)	7.3	1.44	3538	S	3320	2830
Stevens Weir (d/s)		1.79	1770	F	1334	1496
Swan Hill	4.5	0.77	2540	R	2350	2170
Wakool Junction	8.8	2.13	3783	S	3800	4250
Euston Weir (d/s)	8.8	1.01	4010	R	3720	4410
Wentworth Weir (d/s)	7.3	3.14	8920	R	8560	8490
Rufus Junction	-	3.53	6676	R	6230	5670
Blanchetown (Lock 1 d/s)	-	-	4780	R	4610	3740
<b>Tributaries</b>						
Kiewa at Bandiana	2.7	1.29	1160	R	1130	1160
Ovens at Wangaratta	11.9	8.36	1545	R	1490	1930
Goulburn at McCoys Bridge	9.0	1.16	383	F	470	430
Edward at Liewah	-	2.03	1430	F	1760	2180
Wakool at Stoney Crossing	-	0.38	292	F	330	450
Murrumbidgee at Balranald	5.0	-9.00	200	S	190	220
Darling at Bourke	-	4.05	310	F	360	460
Darling at Burtundy Rocks	-	3.64	6740	S	6660	5570
Barwon at Mungindi	-	3.42	530	F	480	140

<b>Natural Inflow to Hume</b> (ie pre Dartmouth & Snowy Mountains scheme)	9200	8710
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**Weirs and Locks**

**Pool levels above or below design level**

<b>Murray</b>	FSL (M AHD)	u/s	d/s		FSL (M AHD)	u/s	d/s
Yarrowonga	124.90	-0.13	-	No. 7 Rufus River	22.10	+0.07	+1.22
No 26 Torrumbarry	86.05	+0.00	-	No. 6 Murtho	19.25	+0.04	+0.13
No. 15 Euston	47.60	-0.05	-	No. 5 Renmark	16.30	+0.02	+0.22
No. 11 Mildura	34.40	+0.05	+0.05	No. 4 Bookpurnong	13.20	+0.04	+0.70
No. 10 Wentworth	30.80	+0.02	+0.50	No.3 Overland Corner	9.80	+0.00	+0.19
No. 9 Kulnine	27.40	+0.06	+0.11	No. 2 Waikerie	6.10	+0.00	+0.17
No. 8 Wangumma	24.60	+0.08	+0.19	No 1. Blanchetown	3.20	+0.04	+0.11

<b>Murrumbidgee</b>	FSL (M AHD)	relation to FSL	d/s gauge ht. metres	Flow ML/day
No. 7 Maude	75.40	-0.15	0.82	546
No. 5 Redbank	66.90	-0.20	0.14	261

**Barrages**

FSL = 0.75 m AHD

	Openings	Level	Status
Goolwa	128 openings	0.82	All closed
Mundoo	26 openings	0.85	All closed
Boundary Creek	6 openings	-	All closed
Ewe Island	111 gates	-	All closed
Tauwichee	322 gates	0.81	1

