

# REPORT FOR THE WEEK ENDING

Wednesday, 6 February 2002

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

7 February, 2002



Widespread rain was recorded across the Murray-Darling Basin, with heaviest falls along the Great Divide. Falls of between 50 and 100 mm were widespread in upper Murray and Murrumbidgee catchment areas; and falls in the range 25 to 50 mm were recorded in parts of the mid Murray. In the Darling River system, falls of 25 to 100 mm were recorded in New South Wales and Queensland, tributaries, however at this stage, it is not anticipated that significant flows will reach the Darling River. Little or no rain was recorded in western parts of the Basin including the Sunraysia district.

Whilst falls of between 25 and 75 mm were recorded in the catchments of Hume and Dartmouth Reservoirs, the dry antecedent conditions has resulted in little additional inflows to the storages. Release from Hume Dam was reduced from 21 000 to 17 000 ML/day in response to reduced demands, and will continue to be reduced next week. Storage in Hume Reservoir fell by 100 GL this week and is currently 1 337 GL (44% of capacity).

Diversion from Lake Mulwala reduced from 12 500 to 7 500 ML/day during the week in response to rainfall and cooler conditions in adjacent irrigation areas. Without further rain, irrigation diversions are likely to slowly rise next week. Release from Yarrowonga Weir was maintained at 9 800 ML/day, but was increased to 10 400 ML/day late in the week as not all of the rejected irrigation orders in transit could be stored and re-regulated in Lake Mulwala.

Tributary inflows to the River Murray from the Kiewa, Ovens, Goulburn, Campaspe, Loddon and Murrumbidgee Rivers remain very low, and currently total only about 1 300 ML/day

Diversion from Torrumbarry Weir pool to National Channel increased from 3 000 to 3 800 ML/day, and flow downstream of Torrumbarry Weir decreased from 5 000 to about 3 500 ML/day. The river level at Swan Hill peaked at 1.07 m gauge height early in the week, and then receded to 0.86; and is expected to continue to recede to about 0.80 m next week.

Flow downstream of Euston Weir is currently peaking at about 4 800 ML/day and is expected to recede to 3 700 ML/day by the end of next week. The weekly pulsing of release from Euston Weir has been temporarily suspended whilst increased flows are passing Euston.

Release downstream of Menindee Lakes to the Darling River is now 2 100 ML/day and will gradually be reduced toward the minimum requirement of 350 ML/day by the end of February. Storage in Menindee Lakes is currently about 600 GL (30% of surcharge capacity).

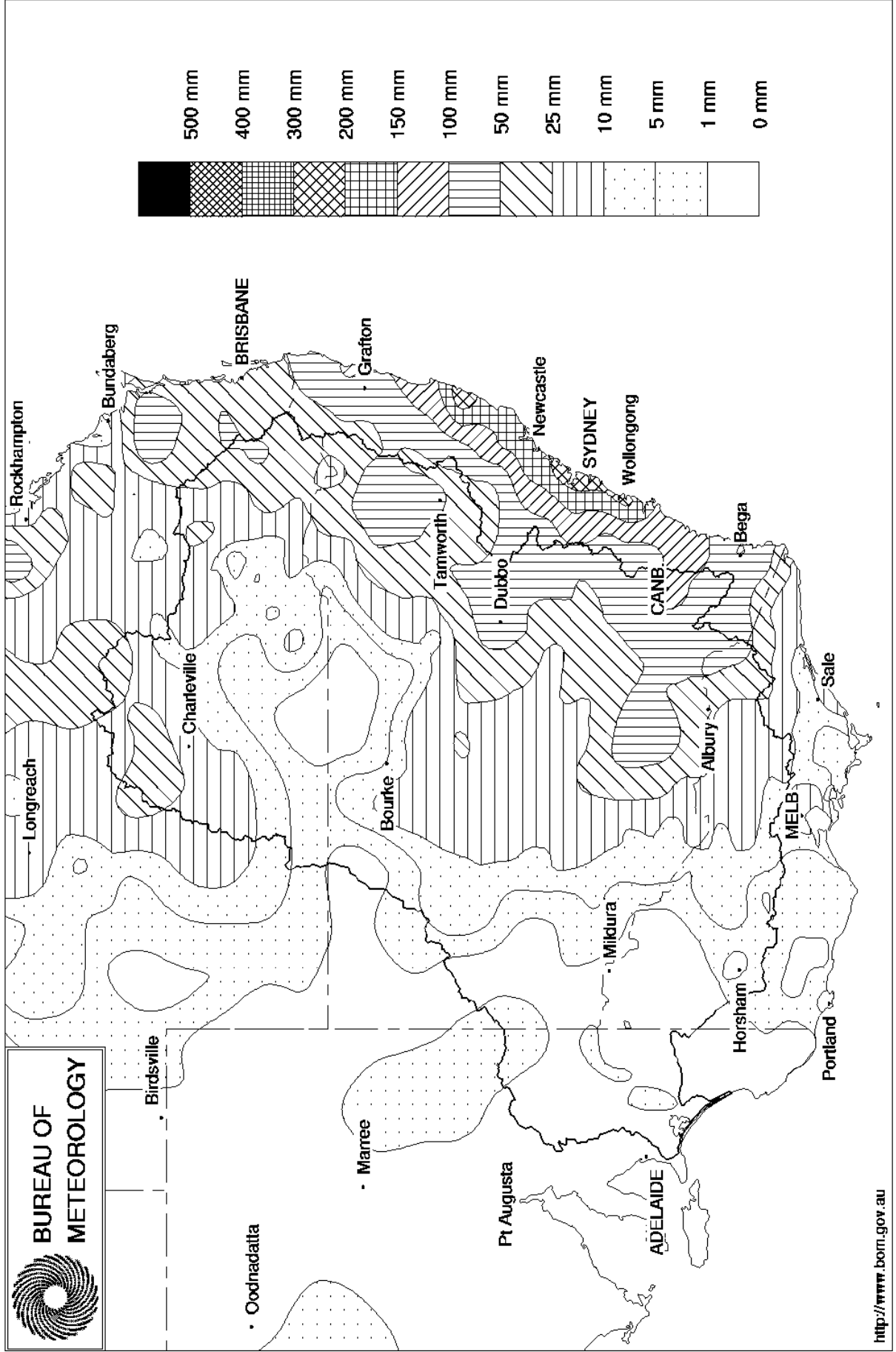
## **Changes to Data Pages**

Recipients of the Weekly Report are advised that several enhancements have been made to the data pages of the Weekly Report. Notable additions include river flow downstream of Mildura Weir as recorded at the new flow station. For many stations, river height information is now given relative to Australian Height Datum (i.e. 'above sea level'), as well as the local gauge height. The AHD figure allows a comparison of river levels at different locations relative to a common datum.

DAVID DOLE  
General Manager

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

Product of the National Climate Centre



## Week ending Wednesday 06 Feb 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 for the week (GL)
				(GL)	%			
Dartmouth Reservoir	486.00	3 906	476.90	3 336	85%	80	3 256	-2
Hume Reservoir	192.00	3 038	181.48	1 337	44%	30	1 307	-100
Lake Victoria	27.00	680	25.29	493	73%	100	393	-20
Menindee Lakes		1 682 *		601	36%	480 #	121	-37
<b>Total</b>		<b>9 306</b>		<b>5 767</b>	<b>62%</b>	<b>690</b>	<b>5 077</b>	<b>-158</b>

\* Menindee surcharge capacity 1999 GL

% of Total Active MDBC Storage = **59%**

# NSW Menindee Lakes Reserve

### Major State Storages

Burrinjuck Reservoir	1 026		178	17%	3	175	+1
Blowering Reservoir	1 631		443	27%	24	419	-34
Eildon Reservoir	3 390		1 051	31%	100	951	-32

### Snowy Mountains Scheme

Snowy diversions for week ending 05-Feb-2002

Storage (GL)	Current storage	Weekly change	Diversion	This week	From 1 May 2001
Lake Eucumbene - Total	3 062	-10	Snowy-Murray	+30	623
Snowy-Murray Component	1 368	-	Tooma-Tumut	+3	220
Target Storage	1 460		Nett Diversion	26.9	403
			Murray 1 Release	+35	911

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

New South Wales	This week	From 1 July 2001
Murray Irrig. Ltd (Net)	50.9	1 061.2
Wakool System loss	1.3	25.6
Western Murray Irrig.	1.3	20.0
Licensed Pumps	16.4	237.3
Lower Darling	7.1	77.6
<b>TOTAL</b>	<b>77.0</b>	<b>1 421.7</b>

Victoria	This week	From 1 July 2001
Yarrowonga Main Channel (net)	17.4	353
Torrumbarry System + Nyah (net)	25.5	538
Sunraysia Pumped Districts	7.2	113
Licensed pumps - GMW (Nyah+u/s)	2.6	49
Licensed pumps - SRW	6.0	126
<b>TOTAL</b>	<b>58.8</b>	<b>1 180</b>

### Flow to South Australia (GL)

Entitlement this month	194	(7 000 ML/day)
Flow this week	49.3	
Flow so far this month	42	
Flow last month	220	

### Salinity (EC)

(microsiemens/cm @ 25° C)

	Current	Average over the last week	Average since 1 August 2001
Swan Hill	130	133	211
Euston	220	204	235
Red Cliffs	250	250	306
Merbein	260	280	297
Burtundy	590	592	454
Lock 9	500	493	403
Lake Victoria	450	445	387
Berri	560	558	451
Waikerie	590	580	540
Morgan	590	586	537
Mannum	620	610	525
Murray Bridge	650	645	561
Meningie	1 330	1 300	1 205
Goolwa Barrages	1 560	1 600	1 411



Week ending Wednesday 06 Feb 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	-	-	-	6 170	F	5 570	3 500
Jingellic	4.0	2.18	208.70	9 100	R	7 030	5 330
Tallandoon ( Mitta Mitta River )	4.2	1.58	218.47	1 220	F	1 180	1 190
Heywoods	5.5	3.20	156.83	17 380	F	20 090	20 000
Doctors Point	5.5	3.36	151.83	18 500	F	20 910	20 930
Albury	4.3	2.35	149.79	-	-	-	-
Corowa	7.0	3.83	129.85	21 800	S	21 870	22 190
Yarrowonga Weir (d/s)	6.4	1.71	116.75	9 810	S	9 810	10 300
Tocumwal	6.4	2.27	106.11	9 630	R	9 410	9 820
Torrumbarry Weir (d/s)	7.3	1.37	79.92	3 450	R	3 950	5 040
Swan Hill	4.5	0.86	63.78	3 360	F	4 080	3 930
Wakool Junction	8.8	2.42	51.54	5 340	F	5 520	4 750
Euston Weir (d/s)	8.8	1.16	43.00	4 790	R	4 510	3 650
Mildura Weir (d/s)	-	-	30.86	3 300	F	2 470	2 370
Wentworth Weir (d/s)	7.3	2.97	27.73	5 710	R	5 140	5 180
Rufus Junction	-	3.55	17.68	6 800	R	6 610	6 600
Blanchetown (Lock 1 d/s)	-	-	-	4 220	R	4 040	4 350
<b>Tributaries</b>							
Kiewa at Bandiana	2.7	0.75	153.98	290	S	320	430
Ovens at Wangaratta	11.9	7.77	145.45	331	R	250	390
Goulburn at McCoys Bridge	9.0	1.21	92.63	463	R	410	600
Edward at Stevens Weir (d/s)	-	-	-	1 390	F	1 650	1 560
Edward at Liewah	-	2.01	57.39	1 410	R	1 280	1 050
Wakool at Stoney Crossing	-	0.58	55.07	672	R	570	530
Murrumbidgee at Balranald	5.0	0.43	56.39	180	F	180	220
Barwon at Mungindi	-	3.20	-	60	R	230	0
Darling at Bourke	-	3.96	-	80	F	120	230
Darling at Burtundy Rocks	-	1.95	-	3 130	F	3 370	3 810

<b>Natural Inflow to Hume</b> (ie pre Dartmouth & Snowy Mountains scheme)	1 670	3 230
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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	+0.04	-	No. 7 Rufus River	22.10	+0.09	+1.23
No 26 Torrumbarry	86.05	+0.00	-	No. 6 Murtho	19.25	+0.04	+0.12
No. 15 Euston	47.60	+0.00	-	No. 5 Renmark	16.30	+0.02	+0.20
No. 11 Mildura	34.40	+0.06	+0.06	No. 4 Bookpurnong	13.20	+0.03	+0.68
No. 10 Wentworth	30.80	+0.04	+0.33	No.3 Overland Corner	9.80	+0.00	+0.16
No. 9 Kulnine	27.40	+0.10	+0.00	No. 2 Waikerie	6.10	+0.01	+0.14
No. 8 Wangumma	24.60	+0.03	+0.09	No 1. Blanchetown	3.20	+0.03	-0.04

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	0.86	70.21	601
No. 5 Redbank	66.90	-0.78	0.21	61.51	324

## Barrages

FSL = 0.75 m AHD

	Openings	Level	Status
Goolwa	128 openings	0.66	All closed
Mundoo	26 openings	0.64	All closed
Boundary Creek	6 openings	-	All closed
Ewe Island	111 gates	-	All closed
Tauwichee	322 gates	0.66	All closed

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