

# REPORT FOR THE WEEK ENDING

Wednesday, 12 June 2002

Our Ref : MDBC:269 :dc:bh

14 June, 2002



Good falls of rain were recorded in the upper Murray, with parts of the catchments of Hume and Dartmouth Reservoirs receiving 25 to 50 mm. Unregulated inflows to Dartmouth and Hume Reservoirs have shown little response due to the dry antecedent catchment conditions.

Recent inflow conditions in the Hume catchment are indicated by the calculated 'natural' inflow to Hume Reservoir for May 2002, which was 78 GL. According to historical records, inflows of this level or lower for May would occur in only 15 years in 100 over the long term. The 'natural' inflow to Hume is the inflow which would have occurred under natural conditions, that is without Dartmouth Dam and the Snowy Mountains Scheme.

As advised last week, release from Dartmouth Reservoir was increased from 1 000 to 3 000 ML/day with the commencement of a program of transfer of water to Hume Reservoir to assist in meeting downstream flow requirements over the remainder of the season. Storage in Dartmouth has changed little this week, but is forecast to decline next week if conditions are dry. Further increase in the rate of release from Dartmouth may be made later in June if inflows to Hume remain low.

With minimum release rates being maintained from Hume Reservoir, storage has increased by 40 GL to 367 GL (12 % of capacity) as a result of continuing release from the Snowy Mountains Scheme, some increase in unregulated inflow, and partly due to the transfer of water from Dartmouth.

Release from Yarrawonga Weir has remained steady near the minimum rate of 1 800 ML/day, but is forecast to rise slightly over the coming week as a result of increased inflows from both the Kiewa and Ovens Rivers.

Flow at Swan Hill has receded from 6 800 to 2 900 ML/day, and is forecast to fall to about 2 500 ML/day (0.7 m gauge height) by 20 June before rising to about 3 000 ML/day by late June.

Flow in the Murray downstream of Euston Weir declined from its peak of 10 900 early in the week to 6 900 ML/day by the end of the week, and is forecast to continue to gradually recede to about 4 000 ML/day by end of June without further significant rain.

Refilling of the Mildura Weir pool has now been completed as the pool level rose from 32.4 to 34.4 m (full supply level), a rise of 2 metres over the week. Flow downstream of the weir is currently 8 000 ML/day and falling.

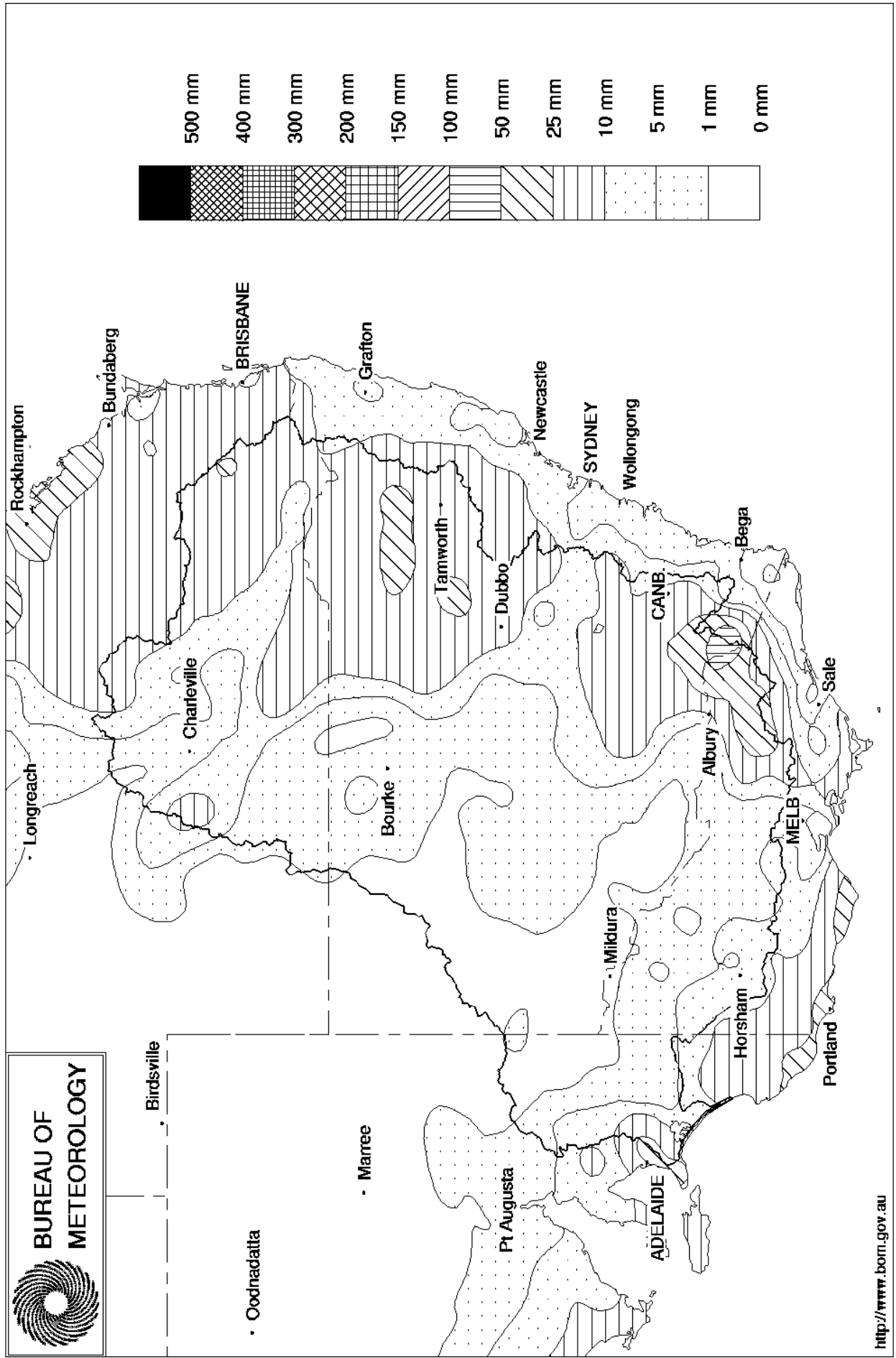
Flow downstream of Wentworth Weir peaked at 8 300 ML/day at the end of the week. Flow to South Australia is being maintained at the June entitlement rate of 3 000 ML/day, and any additional flow upstream of Lake Victoria is being stored in the lake, and storage has risen by 31 GL this week to 349 GL or 51 % of capacity.

River Murray salinity at Swan Hill and Mildura has averaged about 220 and 270 EC respectively during the week. Further downstream in South Australia, river salinity has averaged 380 and 710 EC respectively and Lock 6 and Lock 1. With low flows along the Darling River, salinities have averaged about 1 400, 870 and 790 EC respectively at Wilcannia, Weir 32 and Burtundy.

DAVID DOLE  
General Manager

# Murray Darling Rainfall Analysis (mm) Week Ending 12th June 2002

Product of the National Climate Centre



**Week ending Wednesday 12 Jun 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	476.25	3 297	84%	80	3 217	+0
Hume Reservoir	192.00	3 038	171.49	367	12%	30	337	+41
Lake Victoria	27.00	680	23.88	349	51%	100	249	+31
Menindee Lakes		1 682 *		402	24%	640 #	0	-6
<b>Total</b>		<b>9 306</b>		<b>4 415</b>	<b>47%</b>	<b>850</b>	<b>3 803</b>	<b>+65</b>

\* Menindee surcharge capacity 1999 GL

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

# NSW Menindee Lakes Reserve

**Major State Storages**

Burrinjuck Reservoir	1 026	240	23%	3	237	-1
Blowering Reservoir	1 631	308	19%	24	284	+17
Eildon Reservoir	3 390	655	19%	100	555	+4

**Snowy Mountains Scheme**

Snowy diversions for week ending 11-Jun-2002

Storage (GL)	Current storage	Weekly change	Diversion	This week	From 1 May 2002
Lake Eucumbene - Total	2 770	+18	Snowy-Murray	+4	60
Snowy-Murray Component	1 325	-	Tooma-Tumut	+6	15
Target Storage	1 240		Nett Diversion	-2.0	46
			Murray 1 Release	+18	84

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

New South Wales	This week	From 1 July 2001
Murray Irrig. Ltd (Net)	- .2	1 528.3
Wakool System loss	0.0	45.0
Western Murray Irrig.	0.2	29.7
Licensed Pumps	1.1	436.2
Lower Darling	0.1	123.7
<b>TOTAL</b>	<b>1.2</b>	<b>2 163.0</b>

Victoria	This week	From 1 July 2001
Yarrawonga Main Channel (net)	.0	545
Torrumbarry System + Nyah (net)	0.0	842
Sunraysia Pumped Districts	1.0	156
Licensed pumps - GMW (Nyah+u/s)	0.1	100
Licensed pumps - SRW	0.0	189
<b>TOTAL</b>	<b>1.1</b>	<b>1 832</b>

**Flow to South Australia (GL)**

Entitlement this month	90	(2 900 ML/day)
Flow this week	20.4	
Flow so far this month	36	
Flow last month	93	

**Salinity (EC)**

(microsiemens/cm @ 25° C)

	Current	Average over the last week	Average since 1 August 2001
Swan Hill	180	209	181
Euston	150	157	206
Red Cliffs	160	210	275
Merbein	170	240	266
Burtundy	790	790	554
Lock 9	320	280	376
Lake Victoria	470	401	408
Berri	530	534	483
Waikerie	660	670	578
Morgan	710	699	592
Mannum	630	623	562
Murray Bridge	670	683	610
Meningie	1 550	1 550	1 268
Goolwa Barrages	4 170	3 221	1 619



Week ending Wednesday 12 Jun 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	-	-	-	3 800	F	4 550	2 170
Jingellic	4.0	1.92	208.44	6 710	F	6 240	3 280
Tallandoon ( Mitta Mitta River )	4.2	1.86	218.75	2 180	R	1 470	860
Heywoods	5.5	1.21	154.84	850	F	960	890
Doctors Point	5.5	1.54	150.01	1 210	S	1 280	1 250
Albury	4.3	0.68	148.12	-	-	-	-
Corowa	7.0	0.60	126.62	1 260	F	1 360	1 300
Yarrawonga Weir (d/s)	6.4	0.46	115.50	1 760	S	1 800	2 270
Tocumwal	6.4	0.95	104.79	2 250	S	2 250	3 570
Torrumbarry Weir (d/s)	7.3	1.10	79.65	2 560	R	2 740	6 200
Swan Hill	4.5	0.76	63.68	2 860	F	4 010	8 070
Wakool Junction	8.8	2.63	51.75	6 180	F	7 990	10 180
Euston Weir (d/s)	8.8	1.60	43.44	7 620	F	9 490	10 030
Mildura Weir (d/s)	-	-	31.11	8 000	F	8 080	7 050
Wentworth Weir (d/s)	7.3	3.12	27.88	8 490	R	7 730	7 760
Rufus Junction	-	2.73	18.06	2 490	S	2 400	2 430
Blanchetown (Lock 1 d/s)	-	-	-	2 600	R	2 500	2 440
<b>Tributaries</b>							
Kiewa at Bandiana	2.7	1.13	154.36	800	R	460	430
Ovens at Wangaratta	11.9	8.04	145.72	793	R	480	460
Goulburn at McCoys Bridge	9.0	1.15	92.57	368	R	360	420
Edward at Stevens Weir (d/s)	-	-	-	360	F	750	2 030
Edward at Liewah	-	2.82	58.20	2 460	F	2 540	2 230
Wakool at Stoney Crossing	-	0.45	54.94	402	F	460	540
Murrumbidgee at Balranald	5.0	0.69	56.65	380	F	380	360
Barwon at Mungindi	-	3.19	-	40	F	80	120
Darling at Bourke	-	4.01	-	190	F	220	290
Darling at Burtundy Rocks	-	0.73	-	160	F	170	190

<b>Natural Inflow to Hume</b> (ie pre Dartmouth & Snowy Mountains scheme)	6 620	3 030
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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
Yarrawonga	124.90	-5.75	-	No. 7 Rufus River	22.10	+0.14	+0.42
No 26 Torrumbarry	86.05	+0.00	-	No. 6 Murtho	19.25	+0.01	-0.01
No. 15 Euston	47.60	-0.01	-	No. 5 Renmark	16.30	+0.05	+0.06
No. 11 Mildura	34.40	-0.01	+0.31	No. 4 Bookpurnong	13.20	+0.02	+0.27
No. 10 Wentworth	30.80	+0.06	+0.48	No.3 Overland Corner	9.80	+0.00	+0.13
No. 9 Kulnine	27.40	+0.09	+0.09	No. 2 Waikerie	6.10	+0.02	+0.07
No. 8 Wangumma	24.60	+0.10	+0.15	No 1. Blanchetown	3.20	+0.04	-0.25

Murrumbidgee	FSL (m AHD)	relation to FSL	d/s gauge ht.		Flow (ML/day)
			local (m)	(m AHD)	
No. 7 Maude	75.40	-0.72	0.64	69.99	335
No. 5 Redbank	66.90	-0.17	0.2	61.5	314

### Barrages

FSL = 0.75 m AHD

	Openings	Level	Status
Goolwa	128 openings	0.57	All closed
Mundoo	26 openings	0.55	All closed
Boundary Creek	6 openings	-	All closed
Ewe Island	111 gates	-	All closed
Tauwitchere	322 gates	0.60	All closed

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

