

REPORT FOR THE WEEK ENDING

Wednesday, 30 June 2004

Our Ref : RMW305/01/01/bwh
Trim Ref : 04/7755DO

2 July, 2004



Rainfall and Inflows

Further rainfall in upper Murray and tributary catchments, generally in the range 10 to 50 mm, has led to renewed but relatively small increases in streamflow. Lower falls were recorded throughout most of the southern half of the NSW part of the Basin.

Inflow to Dartmouth Reservoir increased to 3 000 ML/day by 1 July. Inflow to Hume Reservoir increased to 8 000 ML/day, but included an average contribution of 3 500 ML/day from the Snowy Mountains Scheme over the week. Ovens River flow to the Murray peaked at 3 500 ML/day.

Inflow to Hume Reservoir (excluding transfer from the Snowy Scheme) for June 2004 was about 90 GL, an inflow level which is exceeded about 6 years in 10 over the long term, or a little better than median for June. Inflow for the 3 month period ending June 2004, however, was quite low – at a volume which is exceeded 9 years in 10 over the long term.

System Operation

Whilst total Commission storage increased by only 56 GL over the week, this is underestimating the improvement because a significant volume of water is currently in transit to Lake Victoria as a result of release from Hume Reservoir, and tributary contributions to the Murray. Consequently, storage in Lake Victoria is forecast to steadily rise in coming weeks and months.

In response to recent rain and increased tributary flows particularly in the Ovens River, release from Hume Reservoir was temporarily reduced from 6 000 to 3 500 ML/day by 28 June before being increased to 6 000 ML/day by the end of the week. This has allowed storage in Hume to slowly build over the week by 18 GL to 307 GL (10% of capacity).

Release from Yarrawonga Weir has been increased from 9 000 to 9 800 ML/day as part of the on-going program of transfer to Lake Victoria. Of this, an average of 5 000 ML/day was provided from Hume, and the remainder (about half) was provided by the Kiewa and Ovens Rivers. River conditions in the Barmah-Millewa Forest are being monitored by State forest agencies in order to avoid overbank flow arising from regulated flows. However, if significant rises occur in the Ovens and Kiewa Rivers, forest regulators may need to be opened in response to higher Murray flows.

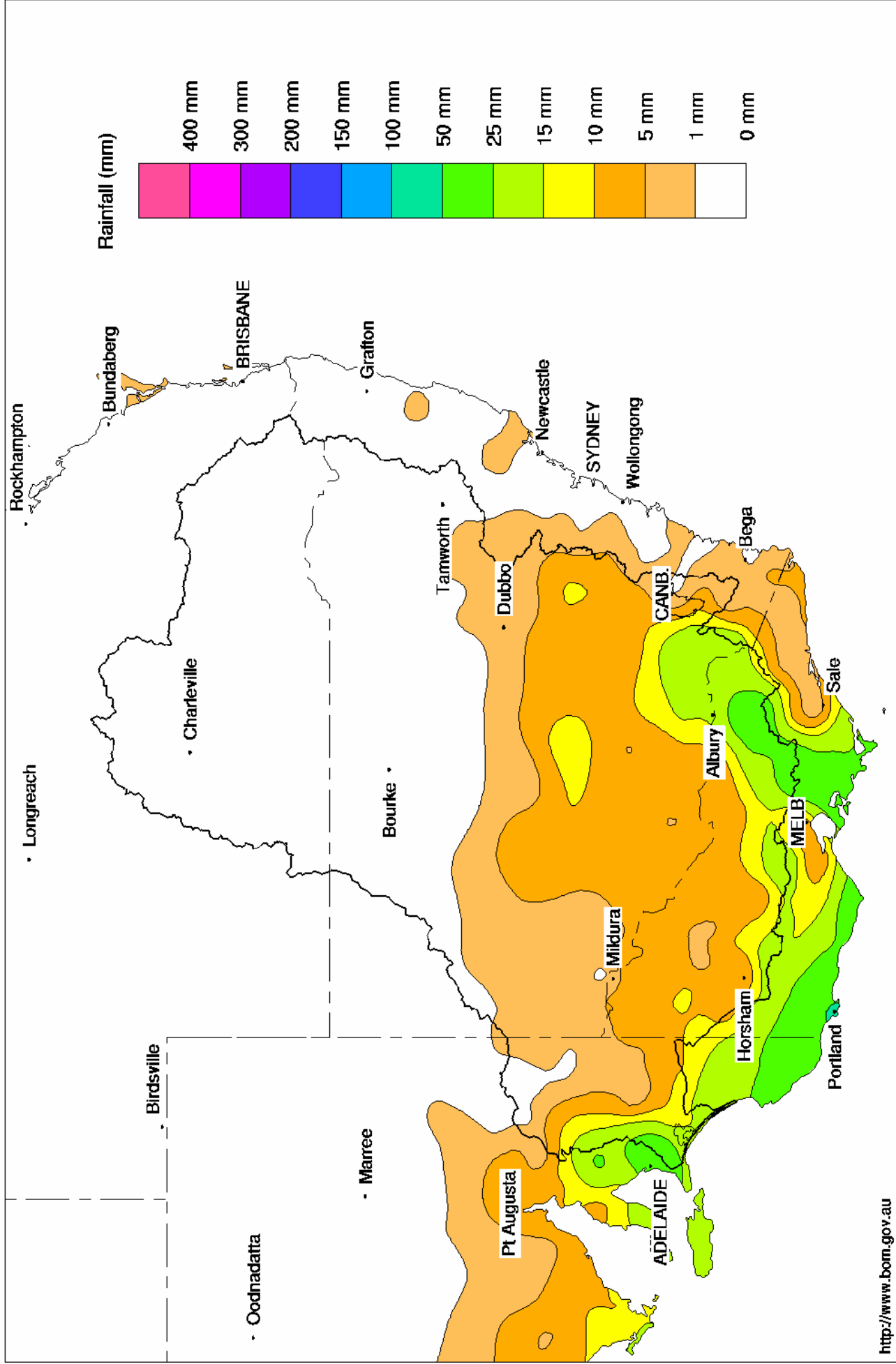
Contributions to the River Murray from the Goulburn River and Murrumbidgee Rivers remain low at about 400 and 300 ML/day respectively. Further downstream, flow at Euston Weir has increased from 6 500 to 7 500 ML/day with the arrival of some of the increased release from Yarrawonga Weir in recent weeks for the transfer of resources to Lake Victoria. Flow at Euston is forecast to continue to rise to a peak of about 10 000 ML/day by late July without further significant rain.

With the arrival of increased Murray flows, the rate of increase in storage in Lake Victoria has improved, and storage has risen by 26 GL compared with a rise of 16 GL last week. In early July, flow to South Australia is being increased from the June entitlement average rate of 3 000 ML/day, to the July entitlement average rate of 3 500 ML/day.

DAVID DREVERMAN
General Manager

Murray Darling Rainfall Analysis (mm) Week Ending 30th June 2004

Product of the National Climate Centre



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	448.66	1 889	48%	80	1 809	+15
Hume Reservoir	192.00	3 038	170.56	307	10%	30	277	+18
Lake Victoria	27.00	680	22.93	256	38%	100	156	+26
Menindee Lakes		1 603 *		332	21%	640 #	0	-2
Total		9 227		2 785	30%	850	2 243	+56

* Menindee surcharge capacity 1916 GL

% of Total Active MDBC Storage = **27%**

NSW Menindee Lakes Reserve

Major State Storages

Burrinjuck Reservoir	1 026	404	39%	3	401	+1
Blowering Reservoir	1 631	88	5%	24	64	-1
Eildon Reservoir	3 390	673	20%	100	573	+36

Snowy Mountains Scheme

Snowy diversions for week ending 29-Jun-2004

Storage	Active storage (GL)	Weekly change (GL)	Diversion (GL)	This week	From 1 May 2004
Lake Eucumbene - Total	1 827	+8	Snowy-Murray	+18	143
Snowy-Murray Component	865	-14	Tooma-Tumut	+4	23
Target Storage	1 240		Nett Diversion	14.1	121
			Murray 1 Release	+21	167

Major Diversions from Murray and Lower Darling (GL)

New South Wales	This week	From 1 July 2003
Murray Irrig. Ltd (Net)	.0	856.2
Wakool System loss	-1.1	41.3
Western Murray Irrig.	0.1	30.2
Licensed Pumps	1.9	328.9
Lower Darling	2.3	32.5
TOTAL	3.2	1 289.1

Victoria	This week	From 1 July 2003
Yarrawonga Main Channel (net)	.0	375
Torrumbarry System + Nyah (net)	0.0	586
Sunraysia Pumped Districts	0.9	159
Licensed pumps - GMW (Nyah+u/s)	0.1	56
Licensed pumps - SRW	1.9	210
TOTAL	2.8	1 387

Flow to South Australia (GL)

Entitlement this month	90	
Flow this week	18.7	(2 700 ML/day)
Flow so far this month	90	
Flow last month	94	

Salinity (EC)

(microsiemens/cm @ 25° C)

	Current	Average over the last week	Average since 1 August 2003
Swan Hill	90	90	100
Euston	120	120	120
Red Cliffs	100	100	120
Merbein	110	120	140
Burtundy (Darling)	340	340	1 770
Lock 9	160	170	180
Lake Victoria	280	280	250
Berri	330	320	280
Waikerie	440	440	380
Morgan	470	460	410
Mannum	440	430	430
Murray Bridge	470	460	480
Milang (Lake Alex.)	900	940	1 120
Poltalloch (Lake Alex.)	-	-	980
Meningie (Lake Alb.)	1 540	1 680	1 820
Goolwa Barrages	4 860	4 840	2 200



River Levels and Flows

	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)				
River Murray							
Khancoban	-	-	-	4 640	F	3 080	4 330
Jingellic	4.0	1.97	208.49	7 160	R	5 930	7 270
Tallandoon (Mitta Mitta River)	4.2	1.51	218.40	930	F	1 010	920
Heywoods	5.5	2.15	155.78	6 190	R	4 990	5 220
Doctors Point	5.5	2.41	150.88	7 640	R	6 380	6 810
Albury	4.3	1.41	148.85	-	-	-	-
Corowa	7.0	1.58	127.60	5 540	F	6 620	7 720
Yarrowonga Weir (d/s)	6.4	1.69	116.73	9 500	S	9 350	8 780
Tocumwal	6.4	2.18	106.02	9 910	S	9 650	8 730
Torrumbarry Weir (d/s)	7.3	2.57	81.12	7 860	R	7 600	6 680
Swan Hill	4.5	1.41	64.33	7 060	R	6 710	5 350
Wakool Junction	8.8	2.96	52.08	7 870	R	7 500	6 340
Euston Weir (d/s)	8.8	1.57	43.41	7 450	R	7 150	6 440
Mildura Weir (d/s)	-	-	31.03	7 390	F	7 180	6 680
Wentworth Weir (d/s)	7.3	3.01	27.77	6 290	R	6 040	6 090
Rufus Junction	-	2.73	19.66	2 230	F	2 310	1 890
Blanchetown (Lock 1 d/s)	-	-	-	2 460	S	2 660	3 910
Tributaries							
Kiewa at Bandiana	2.7	1.43	154.66	1 270	F	1 580	1 710
Ovens at Wangaratta	11.9	8.81	146.49	3 030	F	2 800	2 150
Goulburn at McCoys Bridge	9.0	1.19	92.61	416	F	470	370
Edward at Stevens Weir (d/s)	-	-	-	1 600	F	1 420	340
Edward at Liewah	-	1.04	56.42	520	F	570	720
Wakool at Stoney Crossing	-	0.48	54.97	451	R	430	450
Murrumbidgee at Balranald	5.0	0.59	56.55	298	S	310	550
Barwon at Mungindi	-	3.20	-	60	F	70	70
Darling at Bourke	-	4.04	-	191	S	210	270
Darling at Burtundy Rocks	-	0.70	-	76	S	90	110

Natural Inflow to Hume (ie pre Dartmouth & Snowy Mountains scheme)	7 820	8 410
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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	-0.17	-	No. 7 Rufus River	22.10	+0.07	+0.45
No 26 Torrumbarry	86.05	-0.01	-	No. 6 Murtho	19.25	+0.00	-0.08
No. 15 Euston	47.60	-0.01	-	No. 5 Renmark	16.30	-0.02	+0.04
No. 11 Mildura	34.40	+0.04	+0.23	No. 4 Bookpurnong	13.20	-0.02	+0.24
No. 10 Wentworth	30.80	+0.06	+0.37	No.3 Overland Corner	9.80	-0.02	+0.04
No. 9 Kulnine	27.40	+0.04	+0.07	No. 2 Waikerie	6.10	+0.03	+0.01
No. 8 Wangumma	24.60	+0.07	+0.09	No 1. Blanchetown	3.20	+0.00	-0.21

Murrumbidgee	FSL (m AHD)	relation to FSL	d/s gauge ht.		Flow (ML/day)
			local (m)	(m AHD)	
No. 7 Maude	75.40	-0.22	0.55	69.9	252
No. 5 Redbank	66.90	-0.38	0.15	61.45	269

Barrages

FSL = 0.75 m AHD

	Openings	Level	Status
Goolwa	128 openings	0.46	All closed
Mundoo	26 openings	0.60	All closed
Boundary Creek	6 openings	-	All closed
Ewe Island	111 gates	-	All closed
Tauwicheere	322 gates	0.57	All closed



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