

REPORT FOR THE WEEK ENDING

Wednesday, 8 September 2004

Our Ref : RMW305/01/01/prs, jm
Trim Ref : 04/10335DO

10 September, 2004



Rainfall

This week again saw good widespread falls of rain across the Basin, particularly over the last past 48 hours (to 9am on 9th September – see attached rainfall map). Up to 100mm has fallen over the Great Dividing Range and in the north west of the Basin. Further rain is forecast over the coming week, so the magnitude of the stream flow response will not become known for a few days. On the 8th September the Bureau of Meteorology issued a moderate flood warning for the Mitta Mitta River upstream of Dartmouth Dam, and minor flood warnings for the Kiewa River. Moderate flooding was forecast by the Bureau for parts of the King and Ovens Rivers.

August Overview

Rainfall in August was generally about average across the Basin (*see map attached*), however as conditions have been so dry, the stream flow response has been relatively low. Total River Murray System inflows, including those from tributaries, were at a level exceeded about 8 years in 10. Storage levels at the end August also remain low, as indicated in the following table.

Storage	Dartmouth	Hume	Lake Victoria	Menindee Lakes	Total Storage
End August 2004	1888 GL (or 48% full)	791 GL (or 26% full)	550 GL (or 81% full)	316 GL (or 20% full)	3545 GL (or 38% full)
Storage levels exceeded about	8 years in 10	9 years in 10	9 years in 10	9 years in 10	

However given the recent rainfall, the total storage level has increased by about 160 GL since the end of August, and further increases are expected in response to the rain in the last few days. Further sizeable increases in storage can be expected if heavy follow-up rains occur.

System Operation

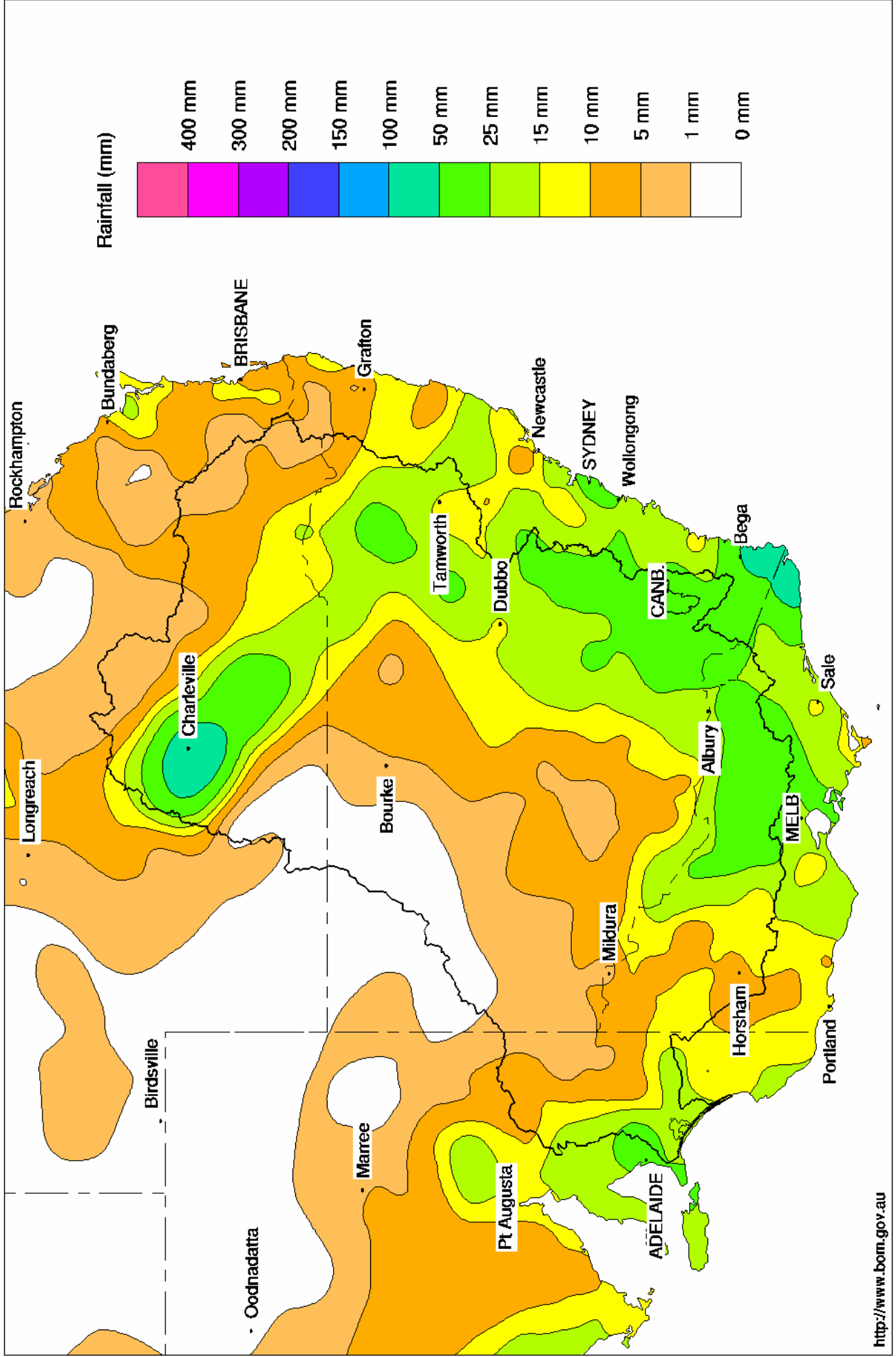
The release from Dartmouth was increased to 5 500 ML/day early this week as part of the program to transfer water to Hume Reservoir. However this release has been temporarily reduced to a low rate in response to the heavy rain and raised inflows from Snowy Creek and other tributaries to the Mitta Mitta River, in order to maintain the flow at Tallandoon at less than about 10 000 ML/day.

Flow downstream of Yarrawonga has been held at about 7 000 to 8 000 ML/day this week, however as a result of National Channel diversions, the flow downstream of Torrumbarry temporarily decreased to about 2 250 ML/day. This is expected to increase to about 3 700 ML/day over the coming week.

DAVID DREVERMAN
General Manager

Murray Darling Rainfall Analysis (mm) Week Ending 8th September 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	448.19	1 869	48%	80	1 789	-18
Hume Reservoir	192.00	3 038	178.27	964	32%	30	934	+151
Lake Victoria	27.00	677	26.02	561	83%	100	461	+8
Menindee Lakes		1 603 *		313	20%	640 #	0	-3
Total		9 224		3 707	40%	850	3 184	+139

* Menindee surcharge capacity 1916 GL

% of Total Active MDBC Storage = **38%**

NSW Menindee Lakes Reserve

Major State Storages

Burrinjuck Reservoir	1 026		370	36%	3	367	-1
Blowering Reservoir	1 631		363	22%	24	339	+68
Eildon Reservoir	3 390		1 137	34%	100	1 037	+27

Snowy Mountains Scheme

Snowy diversions for week ending 07-Sep-2004

Storage	Active storage (GL)	Weekly change (GL)	Diversion (GL)	This week	From 1 May 2004
Lake Eucumbene - Total	2 054	+59	Snowy-Murray	+1	240
Snowy-Murray Component	857	-	Tooma-Tumut	+18	95
Target Storage	1 240		Nett Diversion	-17.1	145
			Murray 1 Release	+20	331

Major Diversions from Murray and Lower Darling (GL)

New South Wales	This week	From 1 July 2004
Murray Irrig. Ltd (Net)	6.1	41.5
Wakool System loss	0.7	6.2
Western Murray Irrig.	0.1	1.6
Licensed Pumps	3.5	17.7
Lower Darling	0.0	1.1
TOTAL	10.4	68.0

Victoria	This week	From 1 July 2004
Yarrawonga Main Channel (net)	4.6	13
Torrumbarry System + Nyah (net)	25.2	76
Sunraysia Pumped Districts	0.6	6
Licensed pumps - GMW (Nyah+u/s)	0.2	1
Licensed pumps - SRW	3.5	22
TOTAL	34.2	118

Flow to South Australia (GL)

Entitlement this month	135	
Flow this week	31.5	(4 500 ML/day)
Flow so far this month	36	
Flow last month	124	

Salinity (EC)

(microsiemens/cm @ 25° C)

	Current	Average over the last week	Average since 1 August 2004
Swan Hill	100	100	110
Euston	200	180	120
Red Cliffs	100	90	60
Merbein	110	90	70
Burtundy (Darling)	410	400	370
Lock 9	130	120	120
Lake Victoria	160	170	190
Berri	260	260	290
Waikerie	-	450	470
Morgan	510	500	480
Mannum	590	580	520
Murray Bridge	510	500	520
Milang (Lake Alex.)	1 250	1 230	1 060
Poltalloch (Lake Alex.)	1 020	1 080	1 030
Meningie (Lake Alb.)	2 010	2 220	2 030
Goolwa Barrages	1 640	1 660	2 240



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	-	-	-	4 200	F	4 930	5 840
Jingellic	4.0	2.36	208.88	10 770	R	12 670	9 740
Tallandoon (Mitta Mitta River)	4.2	2.85	219.74	7 840	R	7 070	6 180
Heywoods	5.5	1.67	155.30	3 020	R	1 160	1 510
Doctors Point	5.5	2.26	150.73	6 130	R	3 760	3 620
Albury	4.3	1.24	148.68	-	-	-	-
Corowa	7.0	1.17	127.19	3 550	R	3 580	3 160
Yarrowonga Weir (d/s)	6.4	1.48	116.52	8 020	S	7 850	7 360
Tocumwal	6.4	1.99	105.83	8 160	R	7 690	8 390
Torrumbarry Weir (d/s)	7.3	1.42	79.97	3 700	R	2 630	5 420
Swan Hill	4.5	0.71	63.63	2 550	R	3 760	5 670
Wakool Junction	8.8	2.51	51.63	5 990	F	7 810	8 740
Euston Weir (d/s)	8.8	1.53	43.37	7 220	F	8 370	8 420
Mildura Weir (d/s)	-	-	31.10	8 760	F	8 770	9 300
Wentworth Weir (d/s)	7.3	3.10	27.86	8 010	F	7 960	8 250
Rufus Junction	-	3.03	19.96	3 960	R	4 090	3 630
Blanchetown (Lock 1 d/s)	-	-	-	3 730	S	3 760	2 670
Tributaries							
Kiewa at Bandiana	2.7	2.55	155.78	6 630	R	3 200	2 330
Ovens at Wangaratta	11.9	9.02	146.70	3 672	F	4 250	4 890
Goulburn at McCoys Bridge	9.0	1.30	92.72	610	R	530	520
Edward at Stevens Weir (d/s)	-	-	-	1 610	F	1 540	1 890
Edward at Liewah	-	2.44	57.82	1 860	F	2 080	2 590
Wakool at Stoney Crossing	-	0.51	55.00	507	F	600	680
Murrumbidgee at Balranald	5.0	0.44	56.40	191	S	190	220
Barwon at Mungindi	-	3.19	-	40	R	40	30
Darling at Bourke	-	3.98	-	72	S	80	80
Darling at Burtundy Rocks	-	0.67	-	36	R	30	20

Natural Inflow to Hume (ie pre Dartmouth & Snowy Mountains scheme)	20 570	13 320
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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	-0.12	-	No. 7 Rufus River	22.10	+0.10	+0.73
No 26 Torrumbarry	86.05	+0.00	-	No. 6 Murtho	19.25	+0.09	+0.04
No. 15 Euston	47.60	-0.02	-	No. 5 Renmark	16.30	+0.05	+0.14
No. 11 Mildura	34.40	+0.03	+0.30	No. 4 Bookpurnong	13.20	+0.05	+0.49
No. 10 Wentworth	30.80	+0.03	+0.46	No.3 Overland Corner	9.80	+0.06	+0.21
No. 9 Kulnine	27.40	+0.06	+0.09	No. 2 Waikerie	6.10	+0.04	+0.12
No. 8 Wangumma	24.60	+0.07	+0.16	No 1. Blanchetown	3.20	+0.03	+0.15

Murrumbidgee	FSL (m AHD)	relation to FSL	d/s gauge ht.		Flow (ML/day)
			local (m)	(m AHD)	
No. 7 Maude	75.40	-0.10	0.81	70.16	533
No. 5 Redbank	66.90	-0.69	0.11	61.41	236

Barrages

FSL = 0.75 m AHD

	Openings	Level	Status
Goolwa	128 openings	0.60	All closed
Mundoo	26 openings	-	All closed
Boundary Creek	6 openings	-	All closed
Ewe Island	111 gates	-	All closed
Tauwicheere	322 gates	0.70	All closed



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