

REPORT FOR THE WEEK ENDING

Wednesday, 8 October 2003

Our Ref : RMW305/01//01/ms

29 April, 2004



Rainfall

Rain fell across most of the Basin during the week (*see attached rainfall map*) with southern areas receiving at least 10 to 25 mm and the upper Murray catchment receiving 25 to 50 mm. Most of the rain in the upper Murray fell in the 24 hours to 9 am Thursday 2 October and produced minor, but short lived, increases in tributary flows. Drier conditions over the remainder of the week have resulted in streamflows continuing to recede.

MDBC storage

The volume in store in Dartmouth Reservoir has now reached 1 630 GL (42% of capacity) and in Hume Reservoir 2 080 GL (69% of capacity). Lake Victoria is now effectively full at 99% of capacity and is spilling. The total active MDBC storage is currently 4 200 GL or 50% of capacity.

River flows and System Operation

Flow in the Kiewa and Ovens Rivers receded to 3 800 and 5 900 ML/day respectively by 8 October 2003. The recession of flow in the Kiewa River has been slowed by light falls of rain late in the week as well as by the influence of snow melt. Discharge from Yarrowonga Weir remained above 11 000 ML/day all week but is expected to be reduced to 10 000 ML/day early next week as tributary inflows recede.

Irrigation demands are generally increasing along the river system and, coupled with the declining tributary inflows, will require release from Hume Dam to be increased above the current minimum discharge (600 ML/day) next week if conditions remain dry.

Flow at Barmah fell gradually during the week from 10 500 to 9 800 ML/day (9 October) and is expected to continue to fall slowly over the coming week as water returns from the Barmah-Millewa Forest. Release from Euston Weir remained steady at about 11 000 ML/day and is expected to fall next week.

Flow to South Australia remains above regulated requirements increasing from 7 000 to 8 000 ML/day over the past week as Lake Victoria nears full supply level. Flow above regulated requirements is expected to continue next week but cease later in October if conditions remain dry.

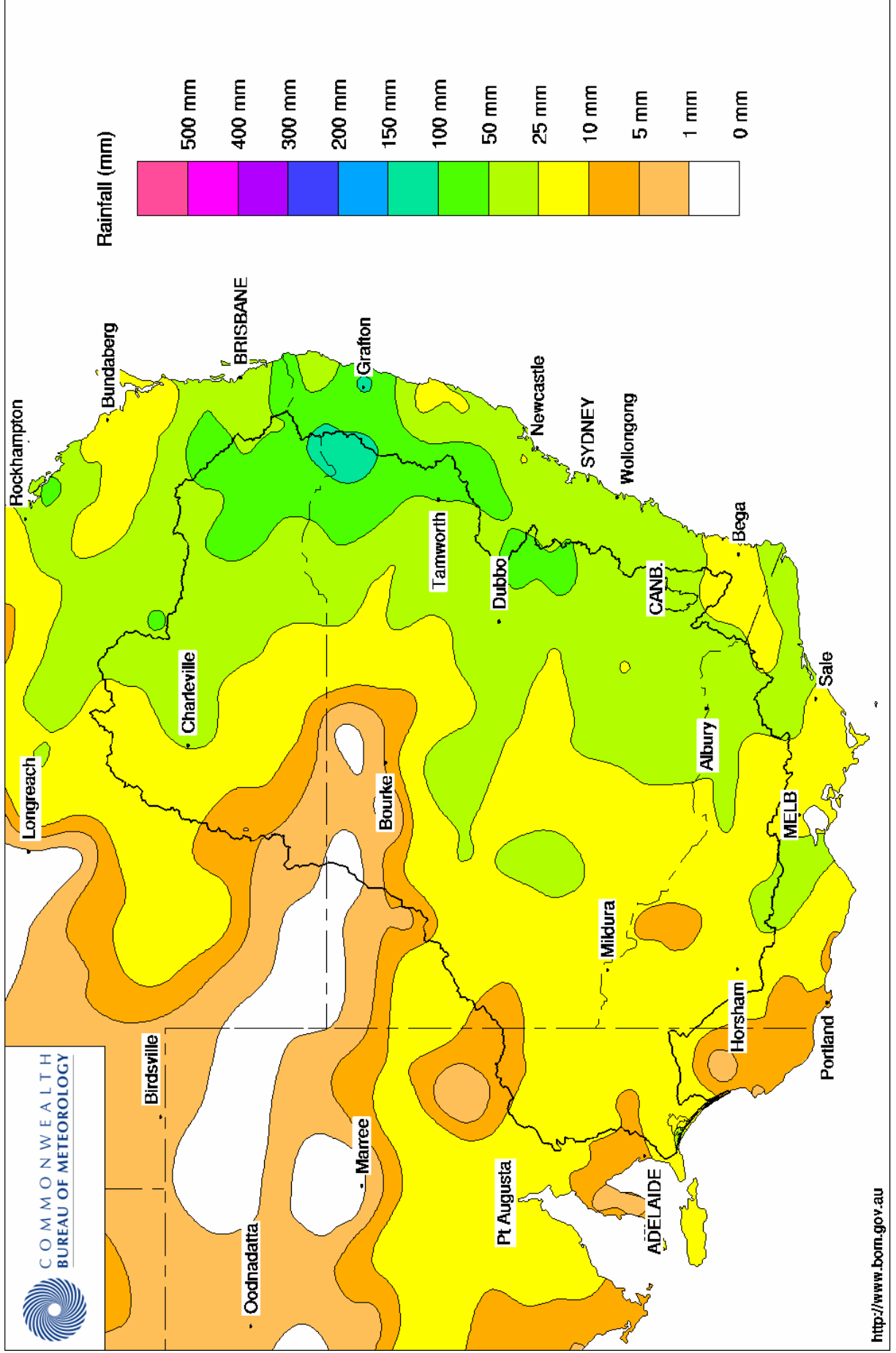
Lower Lakes and Barrage Operation

Rainfall in the Lower Lakes catchment combined with continued unregulated flow to South Australia saw the level of the Lower Lakes rise over the weekend. In response, additional gates at Goolwa and Tauwitchere barrages have been opened. Temporary closures of the barrage gates continue to be necessary from time to time when wind and tide conditions result in downstream levels exceeding upstream levels. There has been some measurable scouring of sand from the Murray Mouth due to the increased releases, as well as the effects of wind and tide, with the Mouth widening to more than 150 m .

DAVID DOLE
General Manager

Murray Darling Rainfall Analysis (mm) Week Ending 8th October 2003

Product of the National Climate Centre



Week ending Wednesday 08 Oct 2003

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	442.35	1 632	42%	80	1 552	+35
Hume Reservoir	192.00	3 038	186.73	2 084	69%	30	2 054	+127
Lake Victoria	27.00	680	26.96	676	99%	100	576	+27
Menindee Lakes		1 603 *		60	4%	640 #	0	-1
Total		9 227		4 451	48%	850	4 182	+188

* Menindee surcharge capacity 1916 GL

% of Total Active MDBC Storage = **50%**

NSW Menindee Lakes Reserve

Major State Storages

Burrinjuck Reservoir	1 026	408	40%	3	405	+42
Blowering Reservoir	1 631	880	54%	24	856	+41
Eildon Reservoir	3 390	1 290	38%	100	1 190	+46

Snowy Mountains Scheme

Snowy diversions for week ending 07-Oct-2003

Storage	Active storage (GL)	Weekly change (GL)	Diversion (GL)	This week	From 1 May 2003
Lake Eucumbene - Total	1 790	+46	Snowy-Murray	+9	500
Snowy-Murray Component	836	-	Tooma-Tumut	+14	161
Target Storage	1 400		Nett Diversion	-5.2	339
			Murray 1 Release	+24	699

Major Diversions from Murray and Lower Darling (GL)

New South Wales	This week	From 1 July 2003
Murray Irrig. Ltd (Net)	17.4	100.1
Wakool System loss	0.4	1.6
Western Murray Irrig.	0.2	2.0
Licensed Pumps	5.3	30.8
Lower Darling	0.1	1.1
TOTAL	23.5	135.5

Victoria	This week	From 1 July 2003
Yarrowonga Main Channel (net)	2.4	17
Torrumbary System + Nyah (net)	0.0	74
Sunraysia Pumped Districts	1.3	10
Licensed pumps - GMW (Nyah+u/s)	0.3	1
Licensed pumps - SRW	4.0	42
TOTAL	8.0	143

Flow to South Australia (GL)

Entitlement this month	170	
Flow this week	44.9	(6 400 ML/day)
Flow so far this month	52	
Flow last month	299	

Salinity (EC)

(microsiemens/cm @ 25° C)

	Current	Average over the last week	Average since 1 August 2003
Swan Hill	100	110	130
Euston	100	110	130
Red Cliffs	120	110	130
Merbein	100	100	130
Burtundy (Darling)	1 720	1 710	1 680
Lock 9	140	160	170
Lake Victoria	230	220	230
Berri	300	250	300
Waikerie	270	250	480
Morgan	260	250	490
Mannum	530	540	540
Murray Bridge	590	580	570
Milang (Lake Alex.)	830	870	1 010
Poltalloch (Lake Alex.)	1 050	1 000	1 080
Meningie (Lake Alb.)	1 660	1 460	1 430
Goolwa Barrages	1 190	1 320	3 170



Week ending Wednesday 08 Oct 2003

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	-	-	-	4 660	F	5 190	7 710
Jingellic	4.0	2.45	208.97	11 770	F	13 870	16 310
Tallandoon (Mitta Mitta River)	4.2	1.74	218.63	1 740	F	1 910	1 880
Heywoods	5.5	1.15	154.78	600	S	600	600
Doctors Point	5.5	1.99	150.46	3 790	F	4 760	5 340
Albury	4.3	1.02	148.46	-	-	-	-
Corowa	7.0	1.48	127.50	5 460	F	6 100	5 910
Yarrawonga Weir (d/s)	6.4	1.88	116.92	11 000	S	12 400	12 490
Tocumwal	6.4	2.47	106.31	12 020	F	13 120	14 400
Torrumbarry Weir (d/s)	7.3	2.90	81.45	9 060	S	9 440	10 680
Swan Hill	4.5	1.62	64.54	8 420	F	9 130	8 800
Wakool Junction	8.8	3.61	52.73	10 970	F	11 590	12 430
Euston Weir (d/s)	8.8	2.15	43.99	11 040	F	11 230	12 290
Mildura Weir (d/s)	-	-	31.23	11 650	F	11 650	-
Wentworth Weir (d/s)	7.3	3.28	28.04	10 740	F	10 890	13 160
Rufus Junction	-	3.69	20.62	7 890	R	5 920	9 770
Blanchetown (Lock 1 d/s)	-	-	-	6 340	F	6 980	10 960
Tributaries							
Kiewa at Bandiana	2.7	2.42	155.65	3 810	F	5 070	4 760
Ovens at Wangaratta	11.9	9.68	147.36	5 868	F	6 920	7 620
Goulburn at McCoys Bridge	9.0	1.66	93.08	1 174	R	1 050	2 880
Edward at Stevens Weir (d/s)	-	-	-	1 400	F	1 540	470
Edward at Liewah	-	1.26	56.64	677	F	1 090	2 150
Wakool at Stoney Crossing	-	0.66	55.15	870	F	960	1 470
Murrumbidgee at Balranald	5.0	0.62	56.58	267	S	260	170
Barwon at Mungindi	-	3.18	-	30	R	40	40
Darling at Bourke	-	3.97	-	100	S	100	120
Darling at Burtundy Rocks	-	0.63	-	0	F	0	0

Natural Inflow to Hume (ie pre Dartmouth & Snowy Mountains scheme)	24 800	27 170
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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	+0.01	-	No. 7 Rufus River	22.10	+0.07	+1.38
No. 26 Torrumbarry	86.05	-0.01	-	No. 6 Murtho	19.25	+0.05	+0.09
No. 15 Euston	47.60	-0.02	-	No. 5 Renmark	16.30	-0.02	+0.16
No. 11 Mildura	34.40	+0.04	+0.43	No. 4 Bookpurnong	13.20	-0.01	+0.68
No. 10 Wentworth	30.80	+0.03	+0.64	No.3 Overland Corner	9.80	+0.00	+0.25
No. 9 Kulnine	27.40	+0.10	+0.09	No. 2 Waikerie	6.10	-0.01	+0.25
No. 8 Wangumma	24.60	+0.03	+0.24	No 1. Blanchetown	3.20	+0.01	+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	-0.03	0.81	70.16	533
No. 5 Redbank	66.90	-0.15	0.1	61.4	228

Barrages

FSL = 0.75 m AHD

	Openings	Level	Status
Goolwa	128 openings	0.82	29
Mundoo	26 openings	0.88	All closed
Boundary Creek	6 openings	-	All closed
Ewe Island	111 gates	-	All closed
Tauwicheere	322 gates	0.82	19

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

