

REPORT FOR THE WEEK ENDING

Wednesday, 16 April 2003

Our Ref : MDBC:269 :ng

17 April, 2003



Rain Blankets Basin

Rain was recorded across virtually the entire Murray-Darling Basin this week. Falls ranged from very light (1-5 mm) in the south-west, up to falls in excess of 130 mm in the very north of the basin. The catchments of Dartmouth and Hume Dams received from 10 to 50 mm with heavier falls of up to 100 mm recorded in the upper Kiewa, Ovens and Goulburn River catchments.

Due to the very dry state of the upper Murray catchments only small increases in streamflows have been observed. Flow in the Ovens River at Wangaratta increased from about 50 to 900 ML/day – a level not seen since October 2002 - and is expected to begin receding early next week.

System Operation

Reduced irrigation demands, evaporation rates and river losses have permitted significant reductions in regulated releases. Release from Dartmouth Dam, currently 700 ML/day, will be reduced to 600 ML/day early next week and remain at this rate at least until after Easter. Release from Hume Dam was reduced from 9 000 to 4 000 ML/day as measured at Albury/Wodonga. This may be increased next week if dry conditions prevail and irrigation demands again rise. Release from Yarrawonga Weir was reduced from 5 800 to 4 500 ML/day and is expected to remain at about this rate next week if conditions remain dry.

Release from Torrumbarry Weir was increased from 2 800 to 3 800 ML/day after irrigation diversions reduced in response to the rain. It is expected that release will gradually reduce to about 2 400 ML/day later in April if conditions remain dry. River levels at Swan Hill, currently 0.80 m gauge height are expected to rise to about 0.85 m over Easter before gradually falling towards the minimum target level of 0.60 m in late April.

Water Quality

Moderate increases in turbidity levels have been reported in the bushfire affected areas as the recent rain brings ash and sediment into streams. However, turbidity has generally been much less than that observed after heavy rain fell in the upper Ovens River catchment in March.

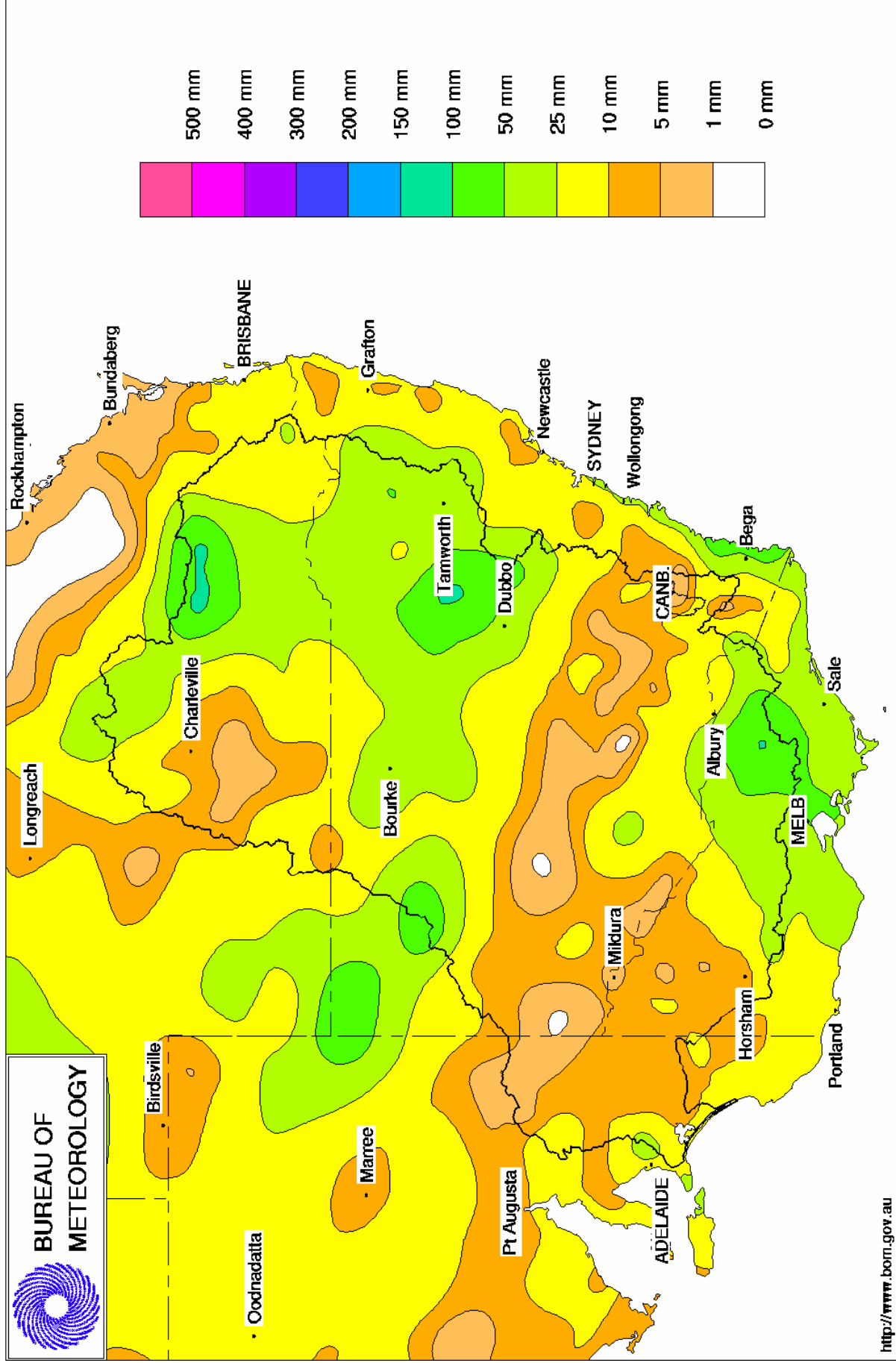
Algal counts across the River Murray system are generally steady with high alert levels persisting in Hume Reservoir, Lake Mulwala and the lower Darling River. It can be expected that the cooler and windier conditions that have occurred recently will lead to gradual reductions in cell counts over the coming weeks.

Salinity levels remain steady throughout most of the River Murray system. River salinity downstream of Torrumbarry remains low compared to previous seasons. However at Lake Wetherell in the Menindee Lakes scheme, water salinity has increased as the first of the Darling inflows reach the Lake. Salinity at the Main Weir is currently about 1 900 EC, but is currently expected to increase to about 2 500 EC once the higher salinity water fully mixes. The salinity at Wilcannia has now receded to about 700 EC. The NSW Department of Sustainable Natural Resources is monitoring salinity in Lake Wetherell closely, and further information will be provided as it becomes available.

DAVID DOLE
General Manager

Murray Darling Rainfall Analysis (mm) Week Ending 16th April 2003

Product of the National Climate Centre



Week ending Wednesday 16 Apr 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	428.06	1 135	29%	80	1 055	-4
Hume Reservoir	192.00	3 038	168.43	196	6%	30	166	+4
Lake Victoria	27.00	680	23.26	288	42%	100	188	-21
Menindee Lakes		1 682 *		108	6%	640 #	0	+46
Total		9 306		1 726	19%	850	1 408	+24

* Menindee surcharge capacity 1999 GL

% of Total Active MDBC Storage = 17%

NSW Menindee Lakes Reserve

Major State Storages

Burrinjuck Reservoir	1 026	48	5%	3	45	-2
Blowering Reservoir	1 631	63	4%	24	39	+12
Eildon Reservoir	3 390	309	9%	100	209	-2

Snowy Mountains Scheme

Snowy diversions for week ending 15-Apr-2003

Storage (GL)	Current storage	Weekly change	Diversion	This week	From 1 May 2002
Lake Eucumbene - Total	2 241	-43	Snowy-Murray	+42	870
Snowy-Murray Component	1 009	-	Tooma-Tumut	+0	205
Target Storage	1 340		Nett Diversion	41.5	665
			Murray 1 Release	+45	1 091

Major Diversions from Murray and Lower Darling (GL)

New South Wales	This week	From 1 July 2002
Murray Irrig. Ltd (Net)	11.9	502.5
Wakool System loss	2.1	50.1
Western Murray Irrig.	0.5	27.7
Licensed Pumps	3.2	191.4
Lower Darling	0.9	119.5
TOTAL	18.5	891.2

Victoria	This week	From 1 July 2002
Yarrowonga Main Channel (net)	6.2	458
Torrumbarry System + Nyah (net)	10.2	777
Sunraysia Pumped Districts	3.1	148
Licensed pumps - GMW (Nyah+u/s)	1.0	69
Licensed pumps - SRW	3.4	174
TOTAL	23.9	1 627

Flow to South Australia (GL)

Entitlement this month	135	(4 500 ML/day)
Flow this week	31.8	
Flow so far this month	72	
Flow last month	186	

Salinity (EC)

(microsiemens/cm @ 25° C)

	Current	Average over the last week	Average since 1 August 2002
Swan Hill	70	70	80
Euston	100	110	120
Red Cliffs	160	160	130
Merbein	190	190	140
Burtundy (Darling)	1 380	1 360	1 150
Lock 9	140	130	170
Lake Victoria	280	270	300
Berri	280	300	330
Waikerie	330	340	400
Morgan	390	380	490
Mannum	380	380	570
Murray Bridge	440	450	650
Milang (Lake Alex.)	1 170	1 200	1 160
Poltalloch (Lake Alex.)	1 160	1 130	1 160
Meningie (Lake Alb.)	1 800	1 750	1 620
Goolwa Barrages	4 290	2 930	3 240



Week ending Wednesday 16 Apr 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	-	-	-	6 100	F	6 060	6 160
Jingellic	4.0	1.95	208.47	6 980	R	6 530	6 560
Tallandoon (Mitta Mitta River)	4.2	1.51	218.40	1 010	F	1 180	1 170
Heywoods	5.5	1.77	155.40	3 540	F	6 770	9 980
Doctors Point	5.5	2.01	150.48	3 930	F	6 620	9 450
Albury	4.3	1.04	148.48	-	-	-	-
Corowa	7.0	1.56	127.58	5 910	F	8 740	10 970
Yarrawonga Weir (d/s)	6.4	0.84	115.88	4 220	F	5 150	5 830
Tocumwal	6.4	1.41	105.25	4 850	F	5 400	5 740
Torrumbarry Weir (d/s)	7.3	1.45	80.00	3 820	R	3 400	2 920
Swan Hill	4.5	0.80	63.72	3 050	R	2 750	2 920
Wakool Junction	8.8	1.81	50.93	3 210	R	3 100	3 370
Euston Weir (d/s)	8.8	0.74	42.58	3 090	F	3 200	3 450
Mildura Weir (d/s)	-	-	30.82	2 820	F	2 870	2 840
Wentworth Weir (d/s)	7.3	2.93	27.69	1 900	F	2 120	2 040
Rufus Junction	-	3.06	19.99	4 250	S	4 250	4 130
Blanchetown (Lock 1 d/s)	-	-	-	3 270	S	3 250	3 130
Tributaries							
Kiewa at Bandiana	2.7	0.87	154.10	470	R	150	80
Ovens at Wangaratta	11.9	8.04	145.72	880	R	370	70
Goulburn at McCoys Bridge	9.0	1.40	92.82	741	R	520	400
Edward at Stevens Weir (d/s)	-	-	-	440	F	290	150
Edward at Liewah	-	0.58	55.96	240	F	280	240
Wakool at Stoney Crossing	-	0.42	54.91	325	S	310	290
Murrumbidgee at Balranald	5.0	0.58	56.54	244	S	240	210
Barwon at Mungindi	-	3.44	-	580	F	620	580
Darling at Bourke	-	4.18	-	840	F	810	970
Darling at Burtundy Rocks	-	0.69	-	90	S	100	90

Natural Inflow to Hume (ie pre Dartmouth & Snowy Mountains scheme)	1 000	550
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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	-0.04	-	No. 7 Rufus River	22.10	+0.04	+0.75
No 26 Torrumbarry	86.05	+0.00	-	No. 6 Murtho	19.25	+0.01	+0.00
No. 15 Euston	47.60	-0.01	-	No. 5 Renmark	16.30	+0.01	+0.10
No. 11 Mildura	34.40	-0.01	+0.02	No. 4 Bookpurnong	13.20	+0.02	+0.45
No. 10 Wentworth	30.80	+0.01	+0.29	No.3 Overland Corner	9.80	+0.04	+0.17
No. 9 Kulnine	27.40	+0.17	+0.03	No. 2 Waikerie	6.10	+0.04	+0.12
No. 8 Wangumma	24.60	+0.05	+0.03	No 1. Blanchetown	3.20	+0.04	-0.39

Murrumbidgee	FSL (m AHD)	relation to FSL	d/s gauge ht.		Flow (ML/day)
			local (m)	(m AHD)	
No. 7 Maude	75.40	-1.02	0.6	69.95	296
No. 5 Redbank	66.90	-0.87	0.18	61.48	296

Barrages

FSL = 0.75 m AHD

	Openings	Level	Status
Goolwa	128 openings	0.44	All closed
Mundoo	26 openings	0.40	All closed
Boundary Creek	6 openings	-	All closed
Ewe Island	111 gates	-	All closed
Tauwichee	322 gates	0.40	All closed

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

