

# REPORT FOR THE WEEK ENDING

Wednesday, 17 December 2003

Our Ref: RMW305/01/01/ms:bwh

29 April, 2004



## ***Rainfall***

Rainfall across the southern parts of the Basin was generally less than 10 mm with very little rain along the Murray Valley. Some areas of the upper Darling River system catchment received up to 50 mm. The rain in the Darling River system in recent weeks is forecast to produce a volume of 5 to 10 GL additional inflow to Menindee Lakes in coming weeks.

## ***Headwater Storages***

Release from Dartmouth Reservoir was increased near the end of the week from the minimum of 200 ML/day to about 2 200 ML/day by 18 December specifically for the purpose of electricity generation. As at 19 December, release is being gradually reduced toward minimum rates. Storage has been near steady at 47% of capacity over the week. Unless there is a very significant change in inflow conditions, it is expected that transfer of water resources from Dartmouth to Hume will commence by late December, initially at low rates. This transfer is required to augment storage in Hume Reservoir in order to meet water supply requirements for Victoria, South Australia and New South Wales over the remainder of the irrigation season.

Storage in Hume Reservoir has been drawn down by 90 GL over the week to meet downstream requirements including on-going transfer of water to Lake Victoria in order to meet the requirements of all three States over the remainder of the season. Release from Hume was increased over the week to produce an increase flow at Albury/Wodonga from 15 000 to 18 000 ML/day in order to meet increasing irrigation demand and river losses resulting from the higher temperatures.

## ***Mid Murray Operation***

Diversion from Lake Mulwala to Mulwala Canal has increased from 4 700 to 6 100 ML/day (the highest rate this irrigation season), however, this includes transfer of more than 2 000 ML/day to the Edward River as part of the transfer of resources to Lake Victoria. Consequently, flow on the Edward River downstream of Stevens Weir is being maintained at 2 900 ML/day (channel capacity for the Werai Forest). Diversion to Yarrawonga Main Channel is currently 2 500 ML/day (about 80% of capacity). Release from Yarrawonga Weir is being maintained near channel capacity for the Barmah-Millewa Forest to meet downstream requirements including on-going transfer of water to Lake Victoria. Further downstream, diversion to National Channel for the Torrumbarry Irrigation System has been steady at 2 500 ML/day (about 60% of capacity). Inflows to the River Murray from the Goulburn and Murrumbidgee Rivers remain at low rates.

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**The Commission, River Murray Water and staff at the storages, weirs and barrages of the River Murray System wish you a safe and happy festive season.**

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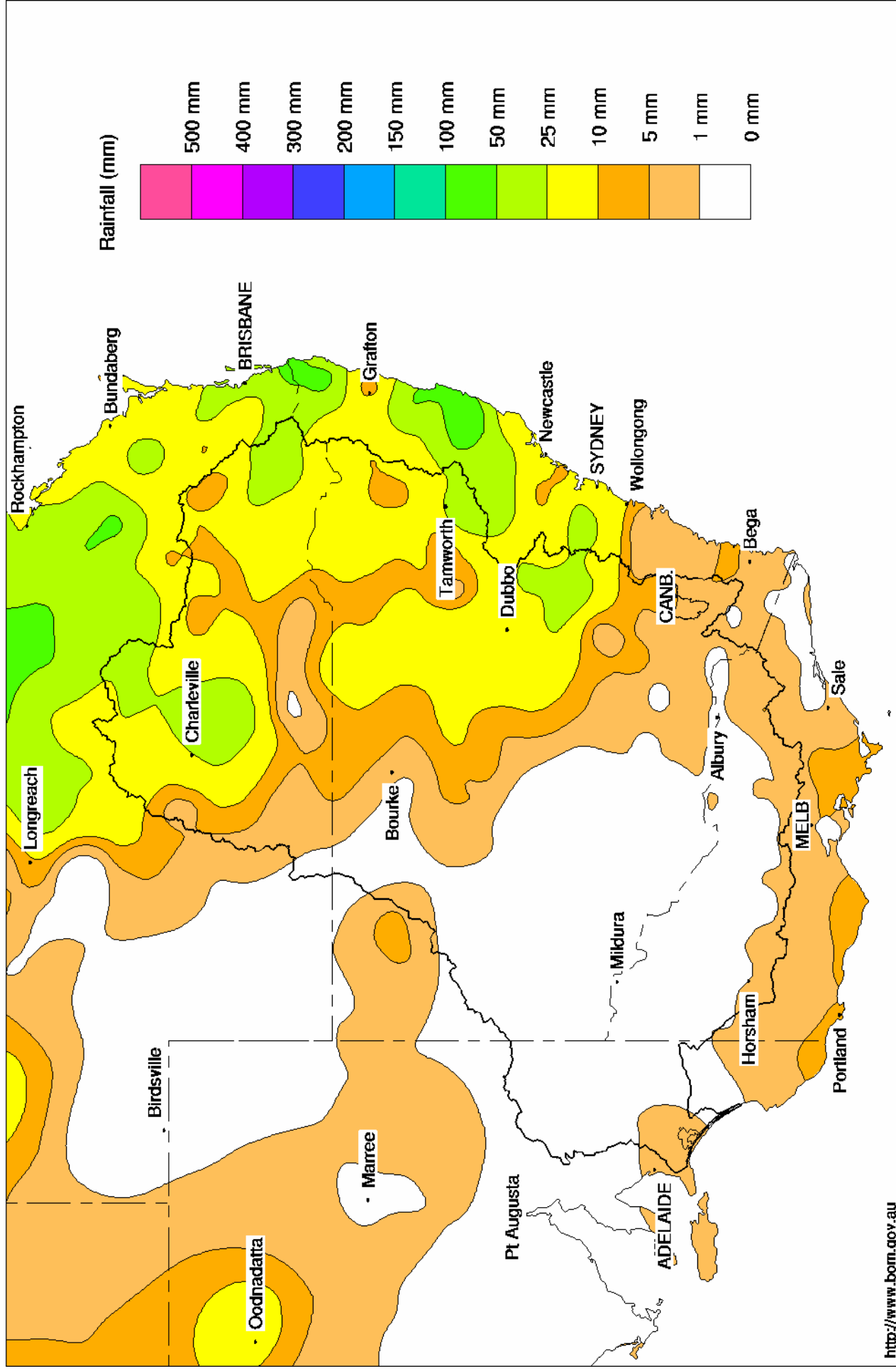
***Note: There will be no Weekly Report issued for the week ending 24 December 2003. The next Report is scheduled to cover the two week period ending 31 December 2003.***

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# Murray Darling Rainfall Analysis (mm) Week Ending 17th December 2003

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	447.00	1 819	47%	80	1 739	+7
Hume Reservoir	192.00	3 038	185.90	1 953	64%	30	1 923	-89
Lake Victoria	27.00	680	25.76	544	80%	100	444	-11
Menindee Lakes		1 603 *		47	3%	640 #	0	-0
<b>Total</b>		<b>9 227</b>		<b>4 363</b>	<b>47%</b>	<b>850</b>	<b>4 106</b>	<b>-93</b>

\* Menindee surcharge capacity 1916 GL

% of Total Active MDBC Storage = **49%**

# NSW Menindee Lakes Reserve

**Major State Storages**

Burrinjuck Reservoir	1 026	512	50%	3	509	+4
Blowering Reservoir	1 631	961	59%	24	937	-2
Eildon Reservoir	3 390	1 404	41%	100	1 304	-24

**Snowy Mountains Scheme**

Snowy diversions for week ending 16-Dec-2003

Storage	Active storage (GL)	Weekly change (GL)	Diversion (GL)	This week	From 1 May 2003
Lake Eucumbene - Total	1 807	-19	Snowy-Murray	+3	533
Snowy-Murray Component	1 063	-	Tooma-Tumut	+7	228
Target Storage	1 510		Nett Diversion	-3.8	304
			Murray 1 Release	+9	818

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

New South Wales	This week	From 1 July 2003
Murray Irrig. Ltd (Net)	23.3	299.1
Wakool System loss	0.0	14.3
Western Murray Irrig.	1.3	9.4
Licensed Pumps	7.5	86.0
Lower Darling	0.4	4.0
<b>TOTAL</b>	<b>32.5</b>	<b>412.8</b>

Victoria	This week	From 1 July 2003
Yarrawonga Main Channel (net)	15.9	117
Torrumbarry System + Nyah (net)	17.3	242
Sunraysia Pumped Districts	7.6	55
Licensed pumps - GMW (Nyah+u/s)	0.9	9
Licensed pumps - SRW	8.2	99
<b>TOTAL</b>	<b>50.0</b>	<b>522</b>

**Flow to South Australia (GL)**

Entitlement this month	217	(7 000 ML/day)
Flow this week	49.3	
Flow so far this month	119	
Flow last month	179	

**Salinity (EC)**

(microsiemens/cm @ 25° C)

	Current	Average over the last week	Average since 1 August 2003
Swan Hill	110	120	110
Euston	110	110	120
Red Cliffs	120	130	130
Merbein	140	150	140
Burtundy (Darling)	2 540	2 410	1 820
Lock 9	190	200	170
Lake Victoria	230	230	230
Berri	260	270	280
Waikerie	-	-	420
Morgan	390	390	430
Mannum	-	400	450
Murray Bridge	410	400	490
Milang (Lake Alex.)	1 230	1 160	1 070
Poltalloch (Lake Alex.)	1 240	1 150	1 100
Meningie (Lake Alb.)	1 820	1 720	1 520
Goolwa Barrages	1 780	1 670	2 260



**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)				
<b>River Murray</b>							
Khancoban	-	-	-	860	F	1 030	2 020
Jingellic	4.0	1.41	207.93	2 710	F	3 730	5 160
Tallandoon ( Mitta Mitta River )	4.2	1.72	218.61	1 670	R	1 180	1 010
Heywoods	5.5	3.14	156.77	17 930	R	16 700	11 880
Doctors Point	5.5	3.33	151.80	18 100	R	17 400	12 750
Albury	4.3	2.34	149.78	-	-	-	-
Corowa	7.0	3.31	129.33	17 700	F	17 370	13 760
Yarrowonga Weir (d/s)	6.4	1.79	116.83	10 300	S	10 370	10 510
Tocumwal	6.4	2.32	106.16	10 910	S	11 040	11 240
Torrumbarry Weir (d/s)	7.3	1.89	80.44	5 380	F	5 740	6 520
Swan Hill	4.5	1.13	64.05	5 200	F	5 650	6 040
Wakool Junction	8.8	3.18	52.30	8 860	F	9 140	9 020
Euston Weir (d/s)	8.8	1.72	43.56	8 340	S	8 290	8 490
Mildura Weir (d/s)	-	-	30.92	6 550	F	6 740	7 390
Wentworth Weir (d/s)	7.3	2.90	27.66	5 480	S	5 790	6 350
Rufus Junction	-	3.43	20.36	6 330	F	6 670	6 650
Blanchetown (Lock 1 d/s)	-	-	-	4 600	F	5 010	3 720
<b>Tributaries</b>							
Kiewa at Bandiana	2.7	1.14	154.37	810	R	1 150	1 450
Ovens at Wangaratta	11.9	8.23	145.91	1 379	S	1 500	2 450
Goulburn at McCoys Bridge	9.0	1.30	92.72	591	R	520	740
Edward at Stevens Weir (d/s)	-	-	-	2 920	F	2 920	2 880
Edward at Liewah	-	3.01	58.39	2 740	S	2 750	2 630
Wakool at Stoney Crossing	-	0.80	55.29	1 300	R	1 010	630
Murrumbidgee at Balranald	5.0	0.44	56.40	161	F	190	240
Barwon at Mungindi	-	3.86	-	2 350	R	1 200	80
Darling at Bourke	-	3.98	-	72	F	90	100
Darling at Burtundy Rocks	-	0.68	-	48	R	50	50

<b>Natural Inflow to Hume</b> (ie pre Dartmouth & Snowy Mountains scheme)	6 880	9 310
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**Weirs and Locks**

**Pool levels above or below design level**

<b>Murray</b>	FSL (m AHD)	u/s	d/s		FSL (m AHD)	u/s	d/s
Yarrowonga	124.90	-0.20	-	No. 7 Rufus River	22.10	+0.07	+1.13
No 26 Torrumbarry	86.05	+0.00	-	No. 6 Murtho	19.25	+0.00	+0.12
No. 15 Euston	47.60	+0.00	-	No. 5 Renmark	16.30	+0.03	+0.20
No. 11 Mildura	34.40	+0.00	+0.12	No. 4 Bookpurnong	13.20	+0.05	+0.68
No. 10 Wentworth	30.80	-0.01	+0.26	No.3 Overland Corner	9.80	+0.02	+0.19
No. 9 Kulnine	27.40	+0.02	+0.03	No. 2 Waikerie	6.10	+0.02	+0.15
No. 8 Wangumma	24.60	+0.03	+0.14	No 1. Blanchetown	3.20	+0.02	+0.15

<b>Murrumbidgee</b>	FSL (m AHD)	relation to FSL	d/s gauge ht.		Flow (ML/day)
			local (m)	(m AHD)	
No. 7 Maude	75.40	-0.34	0.62	69.97	315
No. 5 Redbank	66.90	-0.01	0.15	61.45	269

**Barrages**

FSL = 0.75 m AHD

	Openings	Level	Status
Goolwa	128 openings	0.64	All closed
Mundoo	26 openings	0.62	All closed
Boundary Creek	6 openings	-	All closed
Ewe Island	111 gates	-	All closed
Tauwichee	322 gates	0.53	All closed

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

