

REPORT FOR THE WEEK ENDING

Wednesday, 2 June 2004

Our Ref : RMW305/01/01/bwh
Trim Ref : 04/6487DO

4 June, 2004



Rainfall

Light rainfall of up to 10 mm was recorded throughout much of the River Murray and lower Darling River, with slightly higher falls in parts of northern Victorian tributaries. However, these falls had only a minor effect on streamflows in most areas.

The Bureau of Meteorology has reported a serious to severe rainfall deficiency for much of the River Murray for the three month period March to May 2004 (see diagram attached) a similar pattern to that reported for the three month period ending April 2004.

Upper Murray Storages

Inflows to Dartmouth Reservoir showed little response to the recent rain, with actual inflows currently about 600 ML/day. Similarly with Hume Reservoir, inflows are currently about 5 000 ML/day, of which about 3 000 is due to release from Murray 1 power station in the Snowy Mountains Scheme.

Unregulated inflow to Hume Reservoir for May 2004 was low at about 25 GL, with a level of exceedence of 95% - i.e. a May inflow level which is exceeded 95 years in 100 over the long term.

Release from Dartmouth has been maintained at the minimum rate of 200 ML/day. System inflow conditions and storage level of Hume Reservoir and Lake Victoria are being kept under review as part of operations planning for the 2004/05 irrigation season. If there is no significant improvement in inflows to Hume or in tributaries flows to the Murray downstream of Hume, transfer of water resources from Dartmouth to Hume may be required to commence as early as mid to late winter.

Mid Murray

Release from Yarrawonga Weir has been maintained at 4 500 ML/day in order to meet flow requirements in the mid Murray, and to contribute to meeting the entitlement flow to South Australia, and a low rate of transfer of resources to Lake Victoria. If there is no significant improvement in tributary inflows to the Murray between Hume Dam and the Darling River, the rate of transfer of resources from Hume Reservoir to Lake Victoria is likely to be increased in coming weeks. Storage in Lake Victoria is currently 198 GL (29% of capacity), which is 78 GL less than at the same time last year, and 102 GL less than at the same time in 2002.

River Salinity

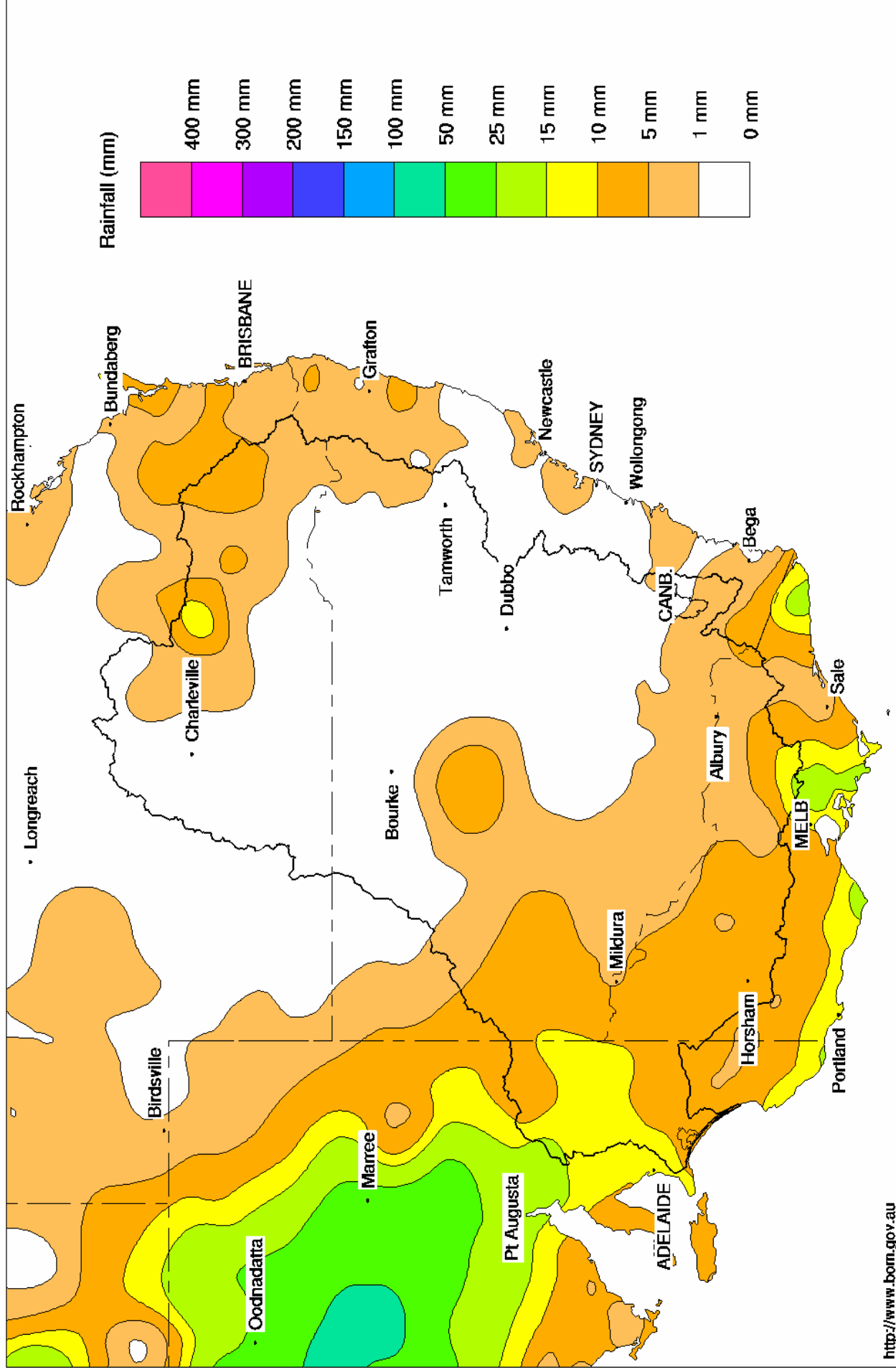
River Murray salinity levels remain low compared with long term averages for May and June at most locations from Swan Hill (currently 110 EC) in the mid Murray to Morgan (currently 480 EC) in the lower Murray in South Australia.

Salinity in the lower Darling River is 430 EC, however, the Darling salt load entering the Murray is low because the Darling flow contribution is currently 150 ML/day out of a Murray flow of about 4 000 ML/day downstream of the junction with the Darling.

DAVID DREVERMAN
General Manager

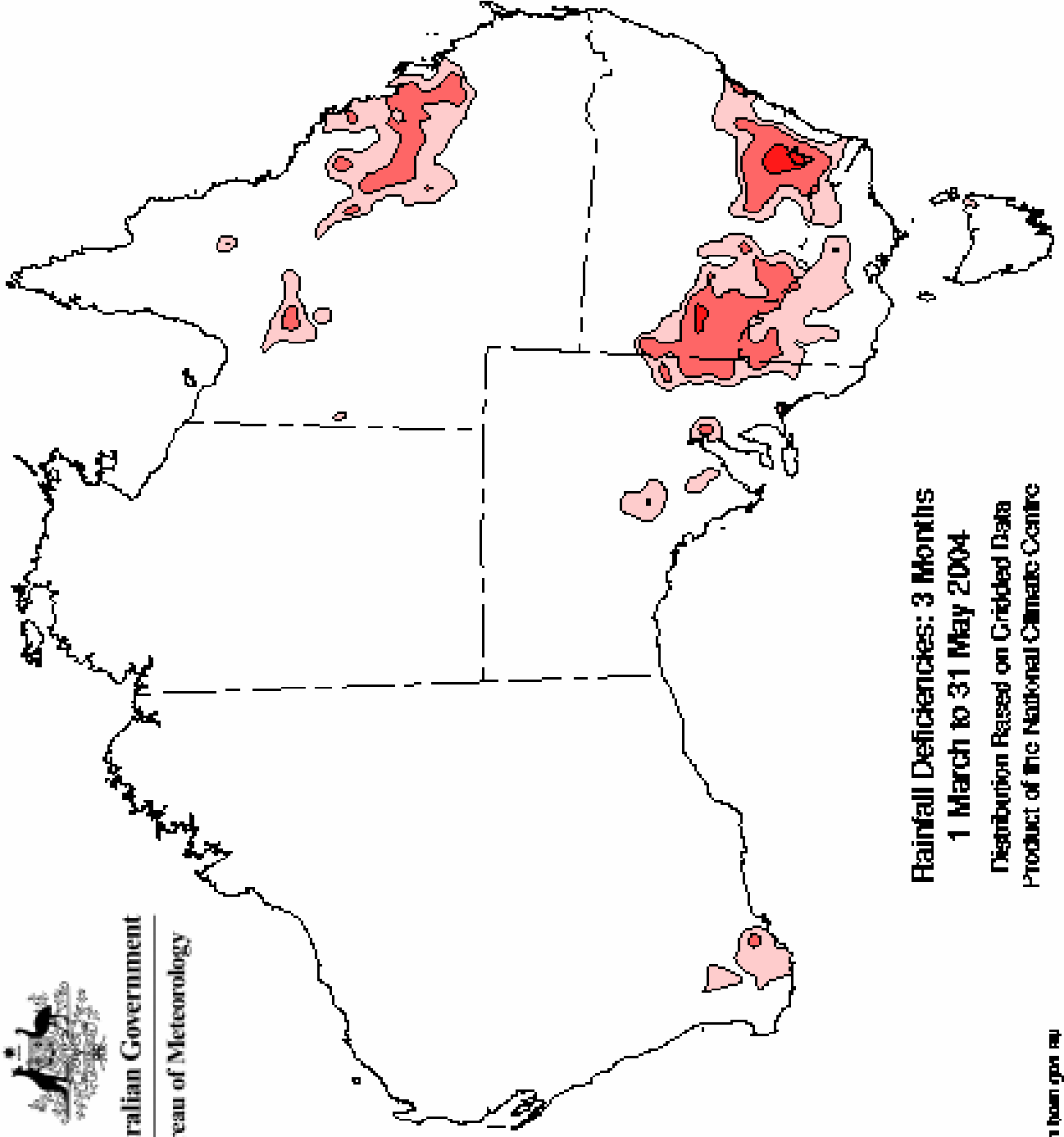
Murray Daring Rainfall Analysis (mm) Week Ending 2nd June 2004

Product of the National Climate Centre





Australian Government
Bureau of Meteorology



Rainfall Percentile Ranking

10

5

Serious
Deficiency

Severe
Deficiency

Lowest on
Record

Rainfall Deficiencies: 3 Months
1 March to 31 May 2004
Distribution Based on Gridded Data
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	447.67	1 847	47%	80	1 767	+4
Hume Reservoir	192.00	3 038	169.71	258	9%	30	228	+15
Lake Victoria	27.00	680	22.30	198	29%	100	98	-2
Menindee Lakes		1 603 *		340	21%	640 #	0	+0
Total		9 227		2 644	29%	850	2 094	+17

* Menindee surcharge capacity 1916 GL

% of Total Active MDBC Storage = 25%

NSW Menindee Lakes Reserve

Major State Storages

Burrinjuck Reservoir	1 026	400	39%	3	397	-1
Blowering Reservoir	1 631	96	6%	24	72	-2
Eildon Reservoir	3 390	604	18%	100	504	-1

Snowy Mountains Scheme

Snowy diversions for week ending 01-Jun-2004

Storage	Active storage (GL)	Weekly change (GL)	Diversion (GL)	This week	From 1 May 2004
Lake Eucumbene - Total	1 796	-10	Snowy-Murray	+21	77
Snowy-Murray Component	901	-22	Tooma-Tumut	+2	6
Target Storage	1 240		Nett Diversion	19.2	71
			Murray 1 Release	+24	85

Major Diversions from Murray and Lower Darling (GL)

New South Wales	This week	From 1 July 2003
Murray Irrig. Ltd (Net)	.0	856.8
Wakool System loss	0.1	44.9
Western Murray Irrig.	0.2	29.9
Licensed Pumps	5.4	319.3
Lower Darling	0.2	29.1
TOTAL	5.8	1 280.1

Victoria	This week	From 1 July 2003
Yarrawonga Main Channel (net)	.0	375
Torrumbarry System + Nyah (net)	0.0	606
Sunraysia Pumped Districts	0.0	157
Licensed pumps - GMW (Nyah+u/s)	0.2	56
Licensed pumps - SRW	1.9	203
TOTAL	2.0	1 397

Flow to South Australia (GL)

Entitlement this month	90	(3 800 ML/day)
Flow this week	26.5	
Flow so far this month	8	
Flow last month	94	

Salinity (EC)

(microsiemens/cm @ 25° C)

	Current	Average over the last week	Average since 1 August 2003
Swan Hill	110	110	100
Euston	130	130	120
Red Cliffs	110	130	130
Merbein	170	170	140
Burtundy (Darling)	380	490	1 900
Lock 9	170	180	180
Lake Victoria	280	280	250
Berri	320	320	280
Waikerie	-	-	380
Morgan	490	470	410
Mannum	410	410	440
Murray Bridge	460	470	480
Milang (Lake Alex.)	1 040	1 030	1 130
Poltalloch (Lake Alex.)	570	600	1 020
Meningie (Lake Alb.)	2 250	2 240	1 810
Goolwa Barrages	1 860	1 950	2 080

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	-	-	-	3 950	F	3 530	3 350
Jingellic	4.0	1.68	208.20	4 740	R	4 400	4 250
Tallandoon (Mitta Mitta River)	4.2	1.26	218.15	420	S	430	490
Heywoods	5.5	1.72	155.35	2 840	R	2 190	2 250
Doctors Point	5.5	1.96	150.43	3 590	R	2 980	2 900
Albury	4.3	1.02	148.46	-	-	-	-
Corowa	7.0	1.06	127.08	3 260	R	3 180	3 370
Yarrowonga Weir (d/s)	6.4	0.90	115.94	4 530	R	4 500	4 090
Tocumwal	6.4	1.34	105.18	4 540	S	4 540	4 130
Torrumbarry Weir (d/s)	7.3	1.72	80.27	4 750	F	4 670	4 180
Swan Hill	4.5	1.01	63.93	4 440	S	4 440	3 870
Wakool Junction	8.8	2.34	51.46	5 320	R	5 070	4 320
Euston Weir (d/s)	8.8	1.13	42.97	5 030	R	4 790	3 700
Mildura Weir (d/s)	-	-	30.90	4 580	F	4 240	2 660
Wentworth Weir (d/s)	7.3	2.82	27.58	4 270	R	3 910	2 740
Rufus Junction	-	2.96	19.89	3 530	F	3 280	2 390
Blanchetown (Lock 1 d/s)	-	-	-	3 570	R	3 040	2 540
Tributaries							
Kiewa at Bandiana	2.7	0.95	154.18	560	R	610	520
Ovens at Wangaratta	11.9	8.05	145.73	904	S	1 080	860
Goulburn at McCoys Bridge	9.0	1.15	92.57	349	S	420	560
Edward at Stevens Weir (d/s)	-	-	-	510	S	570	570
Edward at Liewah	-	1.10	56.48	560	R	420	630
Wakool at Stoney Crossing	-	0.51	55.00	507	R	400	270
Murrumbidgee at Balranald	5.0	0.80	56.76	475	R	330	270
Barwon at Mungindi	-	3.21	-	70	F	90	100
Darling at Bourke	-	4.06	-	243	S	230	250
Darling at Burtundy Rocks	-	0.74	-	153	S	180	250

Natural Inflow to Hume (ie pre Dartmouth & Snowy Mountains scheme)	2 430	2 920
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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	-0.21	-	No. 7 Rufus River	22.10	+0.13	+0.71
No 26 Torrumbarry	86.05	+0.00	-	No. 6 Murtho	19.25	+0.08	+0.07
No. 15 Euston	47.60	+0.00	-	No. 5 Renmark	16.30	+0.08	+0.16
No. 11 Mildura	34.40	+0.06	+0.10	No. 4 Bookpurnong	13.20	+0.08	+0.48
No. 10 Wentworth	30.80	+0.04	+0.18	No.3 Overland Corner	9.80	+0.04	+0.17
No. 9 Kulnine	27.40	-0.02	-0.06	No. 2 Waikerie	6.10	+0.05	+0.13
No. 8 Wangumma	24.60	-0.08	+0.19	No 1. Blanchetown	3.20	+0.06	-0.24

Murrumbidgee	FSL (m AHD)	relation to FSL	d/s gauge ht.		Flow (ML/day)
			local (m)	(m AHD)	
No. 7 Maude	75.40	-1.35	1	70.35	814
No. 5 Redbank	66.90	-1.17	0.43	61.73	558

Barrages

FSL = 0.75 m AHD

	Openings	Level	Status
Goolwa	128 openings	0.60	All closed
Mundoo	26 openings	0.58	All closed
Boundary Creek	6 openings	-	All closed
Ewe Island	111 gates	-	All closed
Tauwichee	322 gates	0.61	All closed

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

