REPORT FOR THE WEEK ENDING

Wednesday, 3 December 2003

Our Ref : RMW305/01/01/prs

29 April, 2004

River Murray Water
A Business Unit of MDBC

Weather and stream flow response

Warm and dry conditions early in the week were followed by thunderstorm activity over much of the mid and upper Murray in recent days. This has produced patchy rainfall, totalling up to 50 mm in some areas (see attached map), but only minor rises in stream flow. The forecast for coming days is for continued thunderstorm activity, including the prospect of heavy rain in the Darling River catchment.

Upper Murray storages and system inflows

In response to local rainfall, inflow to Dartmouth Reservoir rose from 1,300 to 3,600 ML/day during the week increasing the storage volume to 1,798 GL (46% of storage capacity). After receding for much of the last week, unregulated inflows into Hume Reservoir have risen again today as flows originating in the upper Murray catchment reach the dam. Releases from Hume were increased to 14,900 ML/day on Monday, 1 December. Reduced irrigation diversions since this date have enabled gradual reductions in release to 11,100 ML/day (3 December). Releases exceeded inflows for the week and the storage volume reduced by 43 GL to 2 084 GL (68% of storage capacity).

The total River Murray system inflow (excluding contribution from the Snowy Scheme) for November was relatively low and at a level expected to be exceeded about 7 years in 10 over the long term. Season to date inflows (June to November 2003 combined) are also at a level expected to be exceeded about 7 years in 10 over the long term. This compares to the season to date inflows for this time last year (June to November 2002), that were at a level expected to be exceeded about 9 years in 10.

Mid and lower Murray

Increased flow from the Goulburn River into the Murray was observed peaking during the week at about 900 ML/day. Minor rises in flow to the Murray from the Murrumbidgee River are expected next week. Discharge from Euston Weir has risen to a peak of 8,500 ML/day today, the highest since mid-October 2003. Flow to South Australia is being maintained at the entitlement rate of 7,000 ML/day for November. Much of this water is being sourced from Lake Victoria resulting in a fall in lake levels by 26 cm to 563 GL (83% storage capacity).

Water resource availability

Improvements in water availability over November have enabled an increase in general security allocations for NSW Murray Valley irrigators to 55% of entitlement. Victorian and South Australian Murray allocations remain at 100% of water right and 95% licensed entitlement respectively.

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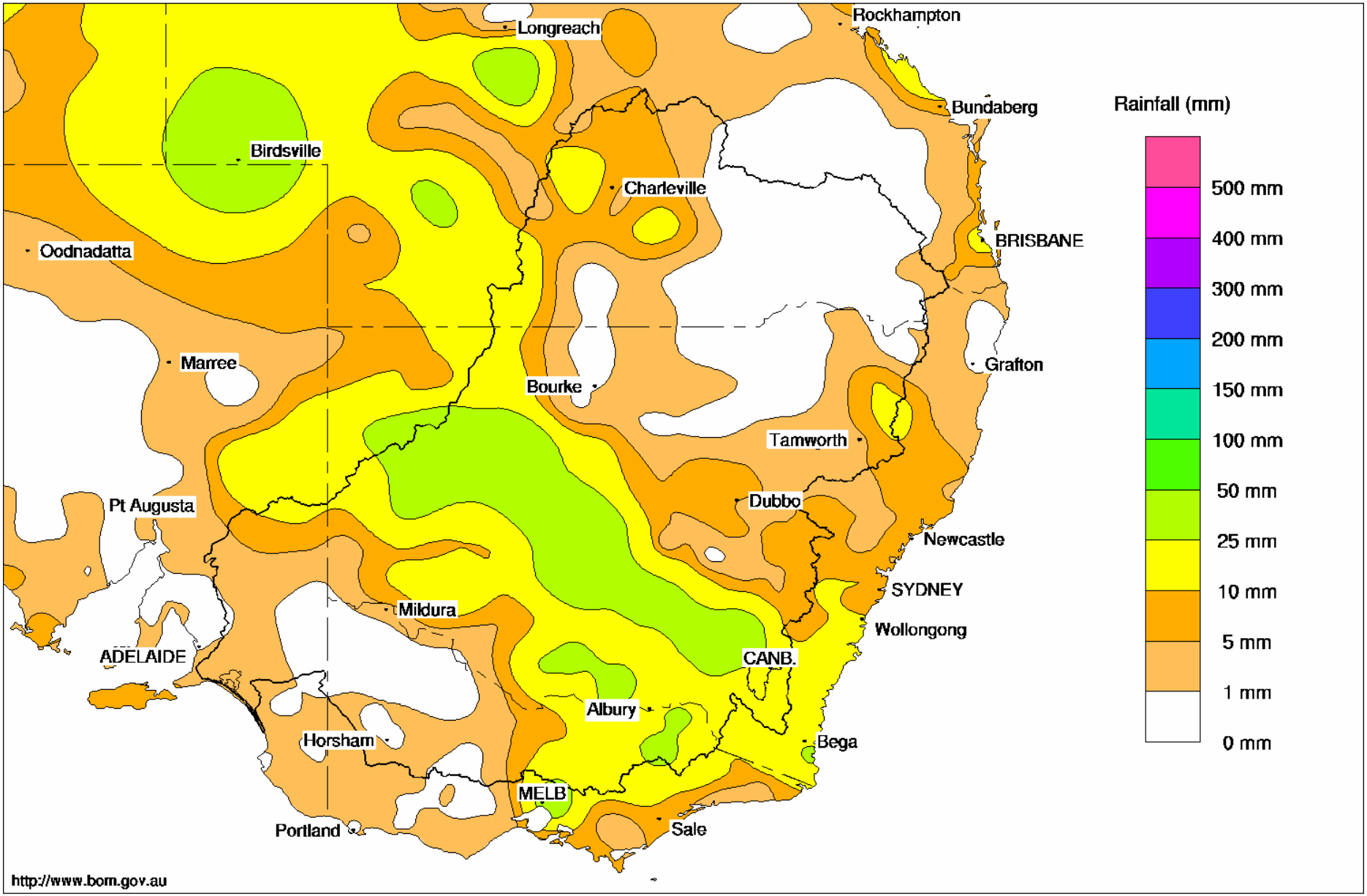
Murray Darling Rainfall Analysis (mm) Week Ending 3rd December 2003

Product of the National Climate Centre



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Week ending Wednesday 03 Dec 2003

Water in Storage

MDBC Storages	Full Supply Level	Full Supply Volume	Current Storage Level	Current Storage		Dead Storage	Active Storage	Change in Storage for the week
	(m AHD)	(GL)	(m AHD)	(GL)	%	(GL)	(GL)	(GL)
Dartmouth Reservoir	486.00	3 906	446.48	1 798	46%	80	1 718	+15
Hume Reservoir	192.00	3 038	186.73	2 084	69%	30	2 054	-43
Lake Victoria	27.00	680	25.94	563	83%	100	463	-28
Menindee Lakes		1 603 *		48	3%	640 #	0	-1
Total		**9 227**		**4 493**	**49%**	**850**	**4 235**	**-56**

* Menindee surcharge capacity 1916 GL

% of Total Active MDBC Storage = **51%**

\# NSW Menindee Lakes Reserve

Major State Storages

Burrinjuck Reservoir	1 026		476	46%	3	473	+14
Blowering Reservoir	1 631		921	56%	24	897	-8
Eildon Reservoir	3 390		1 442	43%	100	1 342	-7

Snowy Mountains Scheme

Snowy diversions for week ending 02-Dec-2003

Storage	Active storage (GL)	Weekly change (GL)	Diversion (GL)	This week	From 1 May 2003
Lake Eucumbene - Total	1 817	+10	Snowy-Murray	+5	529
Snowy-Murray Component	1 038	-	Tooma-Tumut	+12	215
Target Storage	1 510		Nett Diversion	-6.8	314
			Murray 1 Release	+7	801

Major Diversions from Murray and Lower Darling (GL)

New South Wales	This week	From 1 July 2003
Murray Irrig. Ltd (Net)	11.2	265.6
Wakool System loss	0.5	14.3
Western Murray Irrig.	1.1	7.4
Licensed Pumps	5.0	71.7
Lower Darling	0.3	3.2
TOTAL	**18.1**	**362.3**

Victoria	This week	From 1 July 2003
Yarrawonga Main Channel (net)	5.1	95
Torrumbarry System + Nyah (net)	10.6	208
Sunraysia Pumped Districts	6.5	44
Licensed pumps - GMW (Nyah+u/s)	0.6	8
Licensed pumps - SRW	8.2	82
TOTAL	**31.0**	**437**

Flow to South Australia (GL)

Entitlement this month	217
Flow this week	44.0
Flow so far this month	21
Flow last month	179

(6 300 ML/day)

Salinity (EC)

(microsiemens/cm @ 25° C)

	Current	Average over the last week	Average since 1 August 2003
Swan Hill	100	80	110
Euston	130	130	130
Red Cliffs	170	160	130
Merbein	180	180	140
Burtundy (Darling)	2 140	2 100	1 760
Lock 9	200	200	170
Lake Victoria	230	220	230
Berri	270	270	280
Waikerie	-	350	420
Morgan	390	390	430
Mannum	370	360	450
Murray Bridge	380	370	510
Milang (Lake Alex.)	1 180	1 210	1 060
Poltalloch (Lake Alex.)	950	1 180	1 100
Meningie (Lake Alb.)	1 610	1 670	1 500
Goolwa Barrages	1 490	1 480	2 330

River Murray Water
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Week ending Wednesday 03 Dec 2003

River Levels and Flows

River Murray	Minor Flood stage (m)	Gauge height local (m)	Gauge height (m AHD)	Flow (ML/day)	Trend	Average flow this week (ML/day)	Average flow last week (ML/day)
Khancoban	-	-	-	2 620	F	1 380	3 160
Jingellic	4.0	1.81	208.33	5 730	R	4 250	6 890
Tallandoon (Mitta Mitta River)	4.2	1.49	218.38	960	S	880	1 090
Heywoods	5.5	2.62	156.25	12 010	F	11 440	9 100
Doctors Point	5.5	2.88	151.35	12 400	F	12 160	10 010
Albury	4.3	1.84	149.28	-	-	-	-
Corowa	7.0	3.09	129.11	16 100	R	11 880	13 390
Yarrawonga Weir (d/s)	6.4	1.82	116.86	10 500	S	10 500	10 640
Tocumwal	6.4	2.38	106.22	11 350	F	11 350	11 430
Torrumbarry Weir (d/s)	7.3	2.06	80.61	6 000	F	6 950	6 260
Swan Hill	4.5	1.34	64.26	6 520	F	7 200	4 610
Wakool Junction	8.8	3.29	52.41	9 380	R	8 260	5 120
Euston Weir (d/s)	8.8	1.75	43.59	8 520	R	6 440	4 610
Mildura Weir (d/s)		-	30.92	4 600	F	4 020	3 400
Wentworth Weir (d/s)	7.3	2.83	27.59	3 560	R	3 060	3 020
Rufus Junction	-	3.51	20.44	6 810	R	5 960	5 690
Blanchetown (Lock 1 d/s)	-	-	-	3 770	S	3 880	3 960
Tributaries							
Kiewa at Bandiana	2.7	1.51	154.74	1 420	R	1 290	1 540
Ovens at Wangaratta	11.9	8.52	146.20	2 166	R	2 000	2 700
Goulburn at McCoys Bridge	9.0	1.36	92.78	685	R	790	580
Edward at Stevens Weir (d/s)	-	-	-	2 920	F	2 920	2 640
Edward at Liewah	-	2.70	58.08	2 240	R	1 660	780
Wakool at Stoney Crossing	-	0.50	54.99	485	R	440	420
Murrumbidgee at Balranald	5.0	0.51	56.47	204	S	220	250
Barwon at Mungindi	-	3.20	-	60	F	80	130
Darling at Bourke	-	4.02	-	151	S	150	210
Darling at Burtundy Rocks	-	0.67	-	36	S	20	10

Natural Inflow to Hume (ie pre Dartmouth & Snowy Mountains scheme)	8 830	10 210

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	-0.16	-	No. 7 Rufus River	22.10	+0.04	+1.18
No 26 Torrumbarry	86.05	+0.00	-	No. 6 Murtho	19.25	+0.04	+0.11
No. 15 Euston	47.60	-0.01	-	No. 5 Renmark	16.30	+0.02	+0.18
No. 11 Mildura	34.40	+0.04	+0.12	No. 4 Bookpurnong	13.20	+0.03	+0.59
No. 10 Wentworth	30.80	+0.05	+0.19	No.3 Overland Corner	9.80	-0.01	+0.15
No. 9 Kulnine	27.40	+0.01	+0.00	No. 2 Waikerie	6.10	+0.00	+0.07
No. 8 Wangumma	24.60	+0.01	+0.05	No 1. Blanchetown	3.20	-0.02	+0.17

Murrumbidgee	FSL (m AHD)	relation to FSL	d/s gauge ht. local (m)	d/s gauge ht. (m AHD)	Flow (ML/day)
No. 7 Maude	75.40	-0.10	1.51	70.86	1830
No. 5 Redbank	66.90	-0.78	0.11	61.41	236

Barrages

FSL = 0.75 m AHD

	Openings	Level	Status
Goolwa	128 openings	0.82	All closed
Mundoo	26 openings	0.81	All closed
Boundary Creek	6 openings	-	All closed
Ewe Island	111 gates	-	All closed
Tauwitchere	322 gates	0.81	All closed

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

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