

# REPORT FOR THE WEEK ENDING

Wednesday, 23 June 2004

Our Ref : RMW305/01/01/taj:bwh  
Trim Ref : 04/7813DO

24 June, 2004



## ***Rainfall***

There were further good falls of rain, of up to 100 mm, in the southern part of the Basin this week, generating a slightly better response in streamflow than last week. The response in flows was only small, and it has not been sufficient to alter River Murray Water's plans for on-going transfer of water from Hume Reservoir to Lake Victoria. However, the rain is steadily wetting the catchment areas such that rain events in the near future are expected to yield increasing volumes of runoff into the rivers and reservoirs.

The Bureau of Meteorology's latest seasonal rainfall outlook (refer to the attached map of rainfall probabilities for July to September 2004) shows a generally "neutral" outlook for the southern part of the Basin, that is, no indication of favouring wet or dry conditions over the next 3 months. The Bureau's website states: "*For most of the country, including the parts of NSW, SA and Victoria that have been very dry recently, the shifts in the odds are too weak to offer any firm guidance as to the most likely outcome for September quarter rainfall.*"

Even though there have been some good falls of rain recently, this is put into perspective by the Bureau's statement: "*even near average rainfall in the southeast of the country during the coming three months, will only raise the year-to-date total to somewhere near the tenth percentile. In other words, 90% of years would still be wetter.*"

Much more rain over an extended period of time will be necessary to turn around from the recent string of dry months, and generate significant volumes of runoff.

## ***System Operation***

A short lived rise in the Ovens River produced a temporary rise in inflow to Lake Mulwala from about 7 000 to 10 000 ML/day. In response, release from Hume Dam was temporarily reduced, but has since been increased to the former rate of about 6 000 ML/day. Release from Yarrowonga Weir has been increased slightly to 9 000 ML/day, and is expected to be gradually increased to about 10 000 ML/day by the end of June, as a continuation of the transfer of water to Lake Victoria.

Release from the Murray into the Edward River via the Edward Offtake has been ramped up over the week to maximum regulated rate of 1 600 ML/day in order to bypass the Murray constraint of the Barmah 'choke', and boost the rate of transfer of water to Lake Victoria using the Edward River.

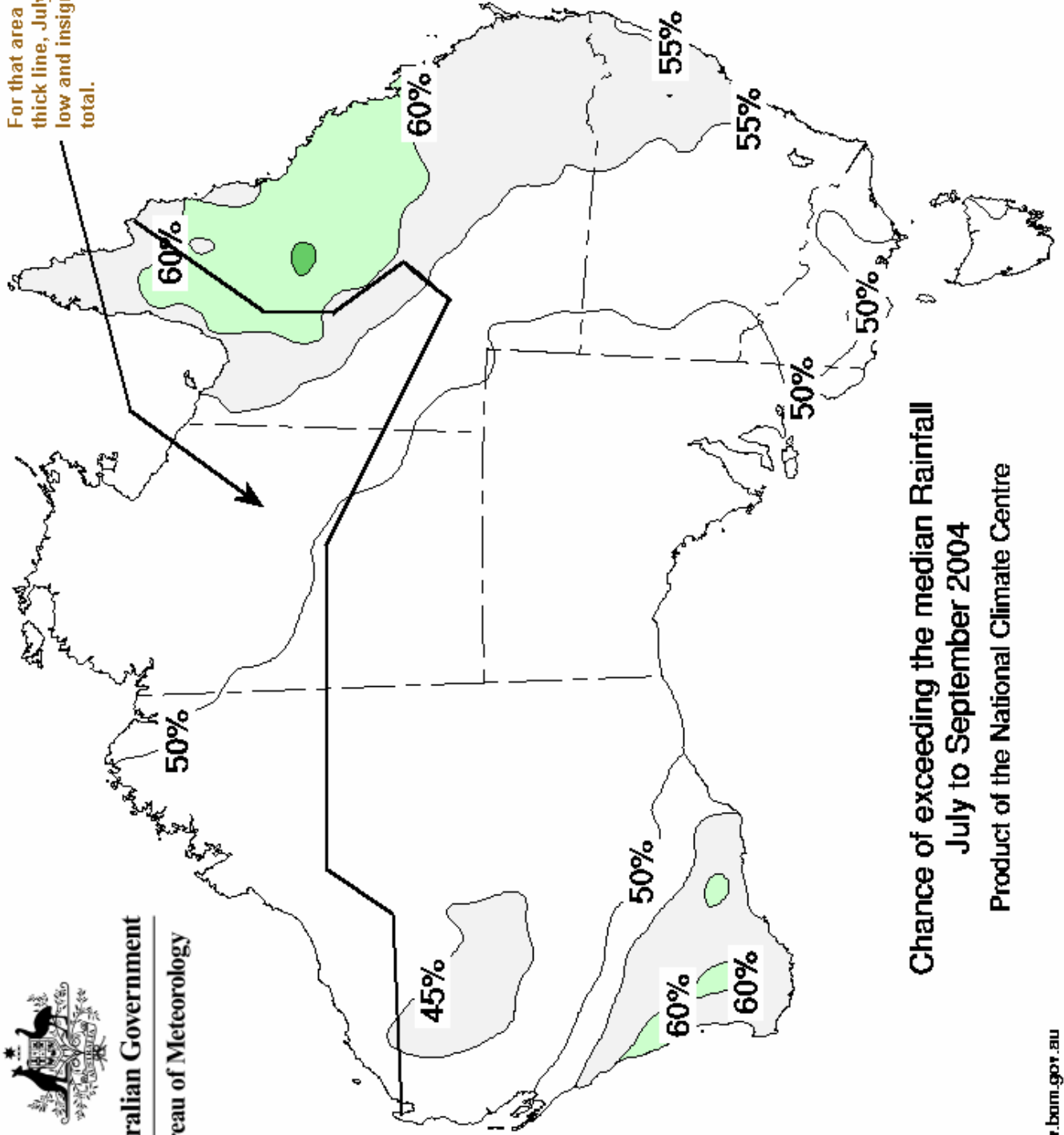
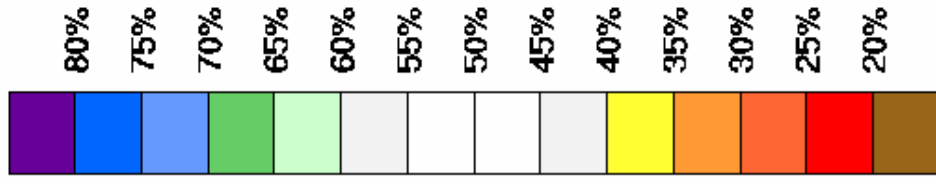
The rate of rise in storage in Lake Victoria increased this week due to arrival of higher flows in the River Murray and lower losses arising from the wetter conditions. Flow to South Australia is expected to average about 2 600 ML/day for rest of June in order to meet the June monthly entitlement volume (90 GL). Recent variations in daily flow to South Australia were necessary to facilitate maintenance work on Scadding's Bridge on Frenchmans Creek, the inlet channel to Lake Victoria.

DAVID DREVERMAN  
General Manager



**Australian Government**  
Bureau of Meteorology

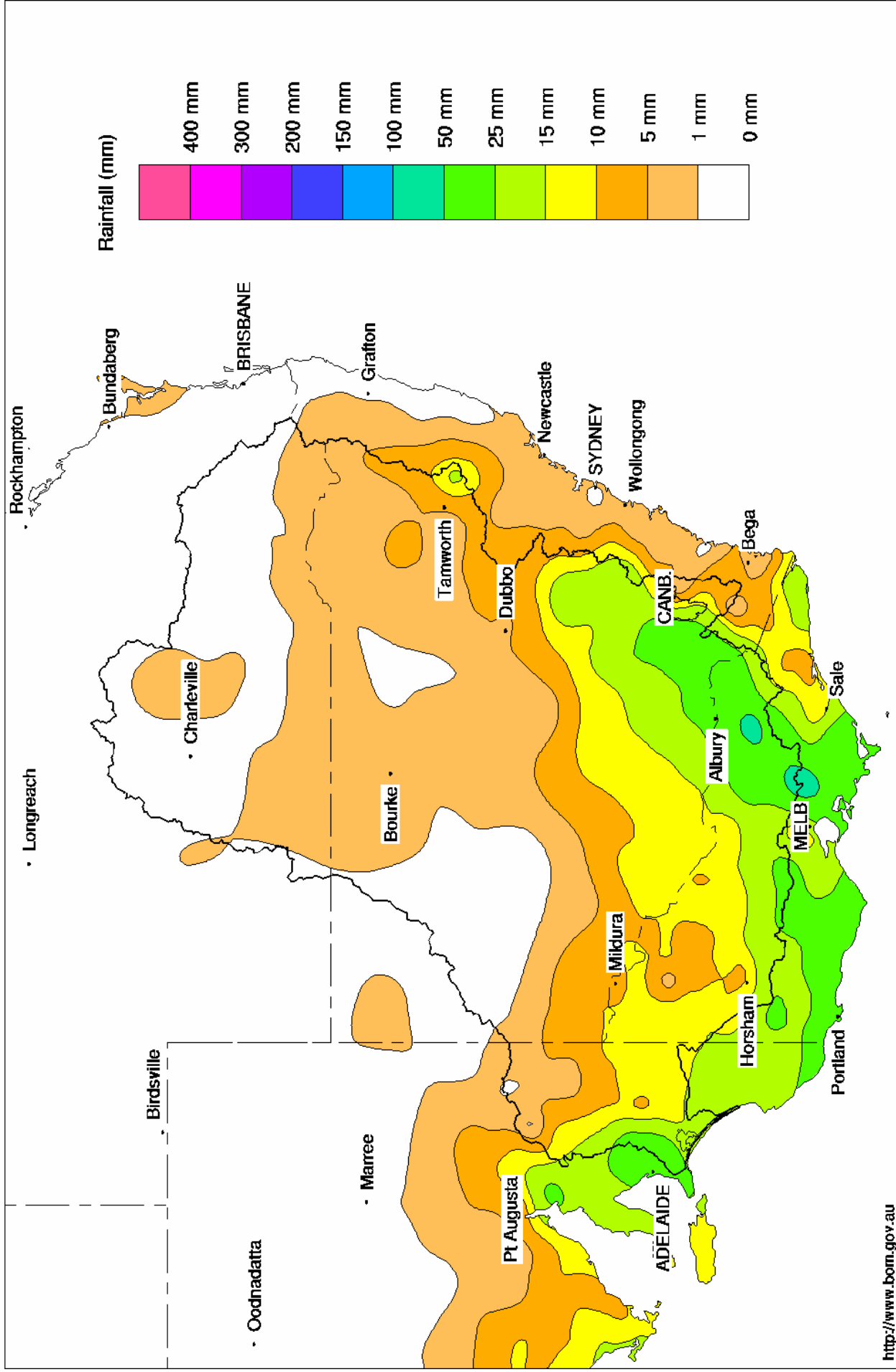
For that area of northern Australia within the thick line, July to September rainfall is commonly low and insignificant compared with the annual total.



**Chance of exceeding the median Rainfall  
July to September 2004**  
Product of the National Climate Centre

# Murray Darling Rainfall Analysis (mm) Week Ending 23rd June 2004

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	448.31	1 874	48%	80	1 794	+12
Hume Reservoir	192.00	3 038	170.27	290	10%	30	260	+23
Lake Victoria	27.00	680	22.65	230	34%	100	130	+16
Menindee Lakes		1 603 *		334	21%	640 #	0	-6
<b>Total</b>		<b>9 227</b>		<b>2 728</b>	<b>30%</b>	<b>850</b>	<b>2 184</b>	<b>+44</b>

\* Menindee surcharge capacity 1916 GL

% of Total Active MDBC Storage = 26%

# NSW Menindee Lakes Reserve

**Major State Storages**

Burrinjuck Reservoir	1 026	403	39%	3	400	+3
Blowering Reservoir	1 631	90	6%	24	66	-2
Eildon Reservoir	3 390	637	19%	100	537	+24

**Snowy Mountains Scheme**

Snowy diversions for week ending 22-Jun-2004

Storage	Active storage (GL)	Weekly change (GL)	Diversion (GL)	This week	From 1 May 2004
Lake Eucumbene - Total	1 819	+15	Snowy-Murray	+13	125
Snowy-Murray Component	879	-9	Tooma-Tumut	+6	18
Target Storage	1 240		Nett Diversion	7.7	107
			Murray 1 Release	+24	145

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

New South Wales	This week	From 1 July 2003
Murray Irrig. Ltd (Net)	.0	856.2
Wakool System loss	-1.1	42.4
Western Murray Irrig.	0.1	30.1
Licensed Pumps	2.0	327.0
Lower Darling	1.5	30.6
<b>TOTAL</b>	<b>2.4</b>	<b>1 286.3</b>

Victoria	This week	From 1 July 2003
Yarrawonga Main Channel (net)	.0	375
Torrumbarry System + Nyah (net)	0.0	588
Sunraysia Pumped Districts	0.0	158
Licensed pumps - GMW (Nyah+u/s)	0.0	56
Licensed pumps - SRW	1.9	209
<b>TOTAL</b>	<b>1.9</b>	<b>1 386</b>

**Flow to South Australia (GL)**

Entitlement this month	90	(2 300 ML/day)
Flow this week	16.4	
Flow so far this month	71	
Flow last month	94	

**Salinity (EC)**

(microsiemens/cm @ 25° C)

	Current	Average over the last week	Average since 1 August 2003
Swan Hill	100	110	100
Euston	130	140	120
Red Cliffs	110	100	120
Merbein	100	100	140
Burtundy (Darling)	340	330	1 800
Lock 9	150	180	180
Lake Victoria	280	290	250
Berri	310	330	280
Waikerie	470	440	380
Morgan	450	460	410
Mannum	420	410	430
Murray Bridge	440	440	480
Milang (Lake Alex.)	1 000	990	1 120
Poltalloch (Lake Alex.)	500	500	980
Meningie (Lake Alb.)	1 900	1 950	1 830
Goolwa Barrages	4 330	4 690	2 140

**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	-	-	-	3 820	F	4 330	2 990
Jingellic	4.0	2.00	208.52	7 440	F	7 270	4 540
Tallandoon ( Mitta Mitta River )	4.2	1.44	218.33	750	F	920	690
Heywoods	5.5	2.04	155.67	5 780	R	5 220	5 620
Doctors Point	5.5	2.32	150.79	6 730	F	6 810	6 260
Albury	4.3	1.33	148.77	-	-	-	-
Corowa	7.0	1.73	127.75	6 890	F	7 720	6 230
Yarrowonga Weir (d/s)	6.4	1.62	116.66	8 990	S	8 780	6 370
Tocumwal	6.4	2.10	105.94	9 350	R	8 730	5 980
Torrumbarry Weir (d/s)	7.3	2.41	80.96	7 210	R	6 680	5 120
Swan Hill	4.5	1.27	64.19	6 110	R	5 350	4 580
Wakool Junction	8.8	2.70	51.82	6 780	R	6 340	6 110
Euston Weir (d/s)	8.8	1.41	43.25	6 540	R	6 440	6 460
Mildura Weir (d/s)	-	-	30.97	7 120	F	6 680	6 810
Wentworth Weir (d/s)	7.3	2.94	27.70	6 050	S	6 090	5 760
Rufus Junction	-	2.72	19.65	2 180	R	1 890	3 050
Blanchetown (Lock 1 d/s)	-	-	-	3 830	S	3 910	4 020
<b>Tributaries</b>							
Kiewa at Bandiana	2.7	1.43	154.66	1 270	F	1 710	870
Ovens at Wangaratta	11.9	8.47	146.15	2 025	F	2 150	1 010
Goulburn at McCoys Bridge	9.0	1.21	92.63	450	R	370	340
Edward at Stevens Weir (d/s)	-	-	-	740	F	340	300
Edward at Liewah	-	1.22	56.60	649	F	720	820
Wakool at Stoney Crossing	-	0.46	54.95	418	S	450	540
Murrumbidgee at Balranald	5.0	0.68	56.64	368	F	550	620
Barwon at Mungindi	-	3.21	-	70	S	70	70
Darling at Bourke	-	4.06	-	243	S	270	330
Darling at Burtundy Rocks	-	0.72	-	111	S	110	130

<b>Natural Inflow to Hume</b> (ie pre Dartmouth & Snowy Mountains scheme)	8 410	5 100
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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	-0.14	-	No. 7 Rufus River	22.10	+0.07	+0.44
No 26 Torrumbarry	86.05	-0.01	-	No. 6 Murtho	19.25	-0.03	-0.09
No. 15 Euston	47.60	-0.01	-	No. 5 Renmark	16.30	-0.05	+0.04
No. 11 Mildura	34.40	+0.01	+0.17	No. 4 Bookpurnong	13.20	-0.02	+0.28
No. 10 Wentworth	30.80	+0.04	+0.30	No.3 Overland Corner	9.80	-0.04	+0.09
No. 9 Kulnine	27.40	+0.02	+0.06	No. 2 Waikerie	6.10	-0.03	+0.08
No. 8 Wangumma	24.60	+0.07	+0.08	No 1. Blanchetown	3.20	+0.04	-0.18

<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	-0.12	0.84	70.19	573
No. 5 Redbank	66.90	-0.39	0.15	61.45	269

**Barrages**

FSL = 0.75 m AHD

	Openings	Level	Status
Goolwa	128 openings	0.70	All closed
Mundoo	26 openings	0.70	All closed
Boundary Creek	6 openings	-	All closed
Ewe Island	111 gates	-	All closed
Tauwichee	322 gates	0.71	All closed

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

