

# REPORT FOR THE WEEK ENDING

Wednesday, 25 October 2006



*Our Ref : M2006/00012/prs, jw*  
*Trim Ref : 06/22704*

26 October, 2006

## Inflows

Dry conditions prevailed across much of the Basin this week. The upper catchments received only minimal rainfall (*see attached map*), generating little or no runoff into storages, although some isolated areas in the north-east of the Basin received over 15mm. The total rainfall during October has failed to exceed 25 mm across the entire Basin.

## Operation of storages

An easing of downstream irrigation demands permitted release from Hume Reservoir to be reduced this week to 15 000 ML/day, with storage in Hume falling by 28 GL to 366 GL (12% capacity). To assist with meeting downstream requirements, the release from Dartmouth Reservoir has been maintained at approximately 10 000 ML/day, which is close to channel capacity in the Mitta Mitta River. Dartmouth storage fell by 64 GL to 1844 GL (47% capacity).

As part of River Murray Water's management of the persistent drought conditions, a meeting was initiated this week with landholders along the Mitta Mitta River in order to discuss the possibility of achieving a minor increase in the release from Dartmouth. It was agreed that a rise of 100mm in the Mitta Mitta might be possible whilst retaining flow in-channel. It was agreed that no increase in levels would occur until a number of access, pump siting and erosion problems are resolved. An increase of 100mm would boost flow by approximately 600 ML/day, which would help to maintain discharge capacity in Hume Reservoir through summer, in order to meet downstream requirements.

## River operations

In order to supplement transfers to Lake Victoria, flows are continuing through the Edward-Wakool system, with Colligen Creek increasing slightly to 1 050 ML/day and flow downstream of Stevens Weir being maintained at 2 700 ML/day. A reduction in diversions through National Channel has seen flow downstream of Torrumbarry Weir increase steadily over the week to approximately 5 000 ML/day.

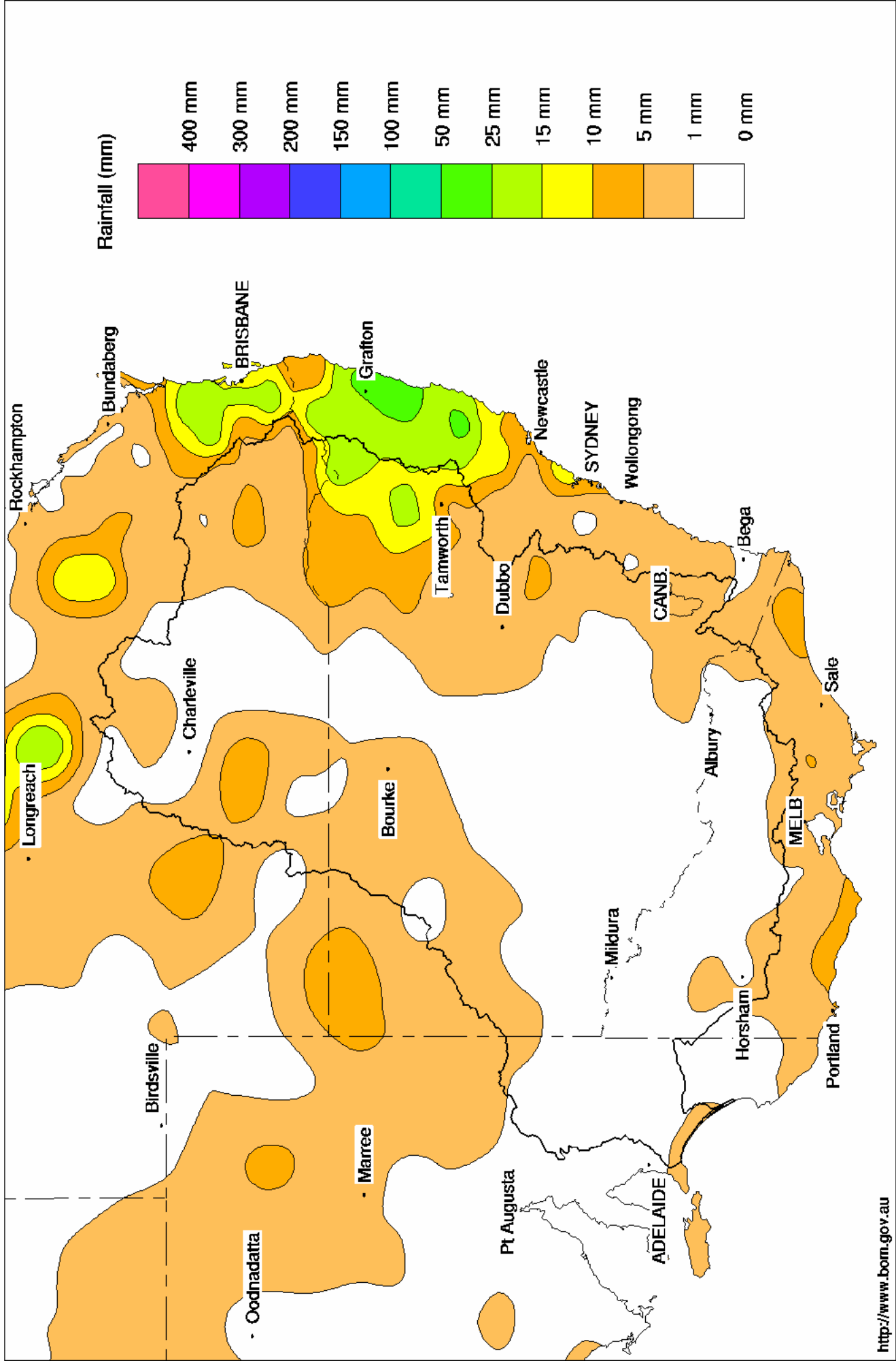
Storage in Lake Victoria fell 14 GL this week to 510 GL (75% capacity), with outflow from the Lake contributing approximately 50% of the daily flow entitlement to South Australia, which has averaged 4 900 ML/day this week (600 ML/day below usual October flow).

The level of the Lower Lakes dropped a further 3 cm this week, currently 0.74m, with flow passing Lock 1 Blanchetown averaging 3 100 ML/day. Small releases are continuing through the fishways on Tauwichee and Goolwa Barrages.

DAVID DREVERMAN  
General Manager

# Murray Darling Rainfall Analysis (mm) Week Ending 25th October 2006

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)	MDBC Active Storage (GL)	Change in Storage for the week (GL)
				(GL)	%			
Dartmouth Reservoir	486.00	3 906	447.59	1 844	47%	80	1 764	-65
Hume Reservoir	192.00	3 038	171.47	366	12%	30	336	-28
Lake Victoria	27.00	677	25.58	511	75%	100	411	-13
Menindee Lakes		1 731 *		218	13%	(- -) #	0	-4
<b>Total</b>		<b>9 352</b>		<b>2 939</b>	<b>31%</b>	<b>--</b>	<b>2 511</b>	<b>-110</b>

\* Menindee surcharge capacity 2050 GL

% of Total Active MDBC Storage = **30%**

# NSW takes control of Menindee Lakes when storage falls below 480 GL, and control reverts to MDBC when storage next reaches 640 GL

**Major State Storages**

Burrinjuck Reservoir	1 026		311	30%	3	308	-1
Blowering Reservoir	1 631		590	36%	24	566	-58
Eildon Reservoir	3 390		608	18%	100	508	-14

**Snowy Mountains Scheme**

Snowy diversions for week ending 24-Oct-2006

Storage	Active storage (GL)	Weekly change (GL)	Diversions (GL)	This week	From 1 May 2006
Lake Eucumbene - Total	688	-12	Snowy-Murray	+15	623
Snowy-Murray Component	434	-13	Tooma-Tumut	+0	34
Target Storage	1 400		Nett Diversion	15.3	589
			Murray 1 Release	+17	707

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

New South Wales	This week	From 1 July 2006
Murray Irrig. Ltd (Net)	9.1	216.2
Wakool System loss	2.7	17.2
Western Murray Irrig.	0.7	5.5
Licensed Pumps	6.9	72.9
Lower Darling	0.5	10.6
<b>TOTAL</b>	<b>19.8</b>	<b>322.4</b>

Victoria	This week	From 1 July 2006
Yarrawonga Main Channel (net)	12.7	126
Torrumbarry System + Nyah (net)	22.2	259
Sunraysia Pumped Districts	4.3	32
Licensed pumps - GMW (Nyah+u/s)	6.1	27
Licensed pumps - LMW	5.0	17
<b>TOTAL</b>	<b>50.2</b>	<b>461</b>

**Flow to South Australia (GL)**

Entitlement this month	170	
Flow this week	34.5	(4 900 ML/day)
Flow so far this month	124	
Flow last month	120	

**Salinity (EC)**

(microsiemens/cm @ 25° C)

	Current	Average over the last week	Average since 1 August 2006
Swan Hill	60	60	80
Euston	90	80	100
Red Cliffs	110	130	120
Merbein	130	130	110
Burtundy (Darling)	710	720	640
Lock 9	120	120	130
Lake Victoria	160	150	150
Berri	210	220	240
Waikerie	370	380	380
Morgan	400	410	400
Mannum	470	470	440
Murray Bridge	440	440	400
Milang (Lake Alex.)	1 190	1 180	1 140
Poltalloch (Lake Alex.)	1 040	1 020	860
Meningie (Lake Alb.)	2 230	2 240	2 190
Goolwa Barrages	1 760	1 760	1 600



**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	-	-	-	1 780	F	2 560	4 180
Jingellic	4.0	1.34	207.86	2 090	F	3 190	4 330
Tallandoon ( Mitta Mitta River )	4.2	3.28	220.17	9 940	R	9 940	9 950
Heywoods	5.5	2.96	156.59	15 090	F	16 230	17 200
Doctors Point	5.5	3.07	151.54	14 900	F	16 000	17 310
Albury	4.3	2.05	149.49	-	-	-	-
Corowa	7.0	3.24	129.26	17 300	F	17 300	18 610
Yarrowonga Weir (d/s)	6.4	1.73	116.77	9 790	S	9 790	9 790
Tocumwal	6.4	2.26	106.10	10 120	R	10 050	10 080
Torrumbarry Weir (d/s)	7.3	1.78	80.33	4 950	F	4 870	4 290
Swan Hill	4.5	1.02	63.94	4 440	S	4 230	3 740
Wakool Junction	8.8	2.79	51.91	7 140	R	6 750	5 900
Euston Weir (d/s)	8.8	1.31	43.15	6 200	R	5 980	5 050
Mildura Weir (d/s)	-	-	-	4 000	F	4 030	3 710
Wentworth Weir (d/s)	7.3	2.88	27.64	4 090	R	3 780	3 350
Rufus Junction	-	3.15	20.08	4 680	R	4 380	4 340
Blanchetown (Lock 1 d/s)	-	1.00	-	2 520	F	3 140	2 840
<b>Tributaries</b>							
Kiewa at Bandiana	2.7	0.63	153.86	160	F	190	320
Ovens at Wangaratta	11.9	7.54	145.22	105	F	130	170
Goulburn at McCoys Bridge	9.0	1.16	92.58	385	S	380	390
Edward at Stevens Weir (d/s)	-	2.44	-	2 710	S	2 720	2 710
Edward at Liewah	-	2.95	58.33	2 510	S	2 510	2 540
Wakool at Stoney Crossing	-	0.63	55.12	847	R	760	460
Murrumbidgee at Balranald	5.0	0.49	56.45	209	R	200	200
Barwon at Mungindi	-	3.20	-	44	F	90	110
Darling at Bourke	-	3.61	-	-	F	-	-
Darling at Burtundy Rocks	-	0.39	-	0	F	0	-

<b>Natural Inflow to Hume</b> (ie pre Dartmouth & Snowy Mountains scheme)	1 350	760
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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	-0.11	-	No. 7 Rufus River	22.10	+0.11	+0.84
No 26 Torrumbarry	86.05	-0.14	-	No. 6 Murtho	19.25	-0.05	+0.04
No. 15 Euston	47.60	-0.02	-	No. 5 Renmark	16.30	-0.02	+0.17
No. 11 Mildura	34.40	+0.00	+0.09	No. 4 Bookpurnong	13.20	+0.08	+0.42
No. 10 Wentworth	30.80	+0.01	+0.24	No.3 Overland Corner	9.80	+0.03	+0.15
No. 9 Kulnine	27.40	+0.01	+0.01	No. 2 Waikerie	6.10	+0.01	+0.10
No. 8 Wangumma	24.60	+0.01	+0.18	No 1. Blanchetown	3.20	-0.02	+0.25

Murrumbidgee	FSL (m AHD)	relation to FSL	d/s gauge ht.		Flow (ML/day)
			local (m)	(m AHD)	
No. 7 Maude	75.40	-3.49	0.51	69.86	219
No. 5 Redbank	66.90	-2.32	0.18	61.48	296



**Lower Lakes**

FSL = 0.75 m AHD

	(m AHD)
Lake Alexandrina average level for the past 5 days	0.75

**Barrages**

**Fishways @ Barrages**

	Openings	Level (m AHD)	Status	Rock Ramp	Vertical Slot
Goolwa	128 openings	0.60	All closed	-	Open
Mundoo	26 openings	0.60	All closed	-	-
Boundary Creek	6 openings	-	All closed	-	-
Ewe Island	111 gates	-	All closed	-	-
Tauwichee	322 gates	0.55	All closed	Open	Open

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