

# REPORT FOR THE WEEK ENDING

Wednesday, 8 November 2006



Our Ref : M2006/00012/prs, jw  
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10 November, 2006

## Rainfall

The past week saw some good rainfall across most of the Basin (*see attached map*), with areas in the northeast in particular receiving over 100mm. Southern areas received less than 25 mm, with only minimal increases in streamflow being observed. Further showers are forecast across much of the southern Murray-Darling Basin over the coming days.

## River Operations

Although failing to produce any significant runoff to the River Murray system, the recent rainfall combined with cooler temperatures had the effect of suppressing irrigation demands and reducing river transmission losses. This permitted releases from Hume Reservoir to be maintained at approximately 14 000 ML/day for most of this week, which has helped to slow the rate at which Hume Reservoir storage is falling. Storage in Hume is currently 308 GL (10% capacity), a reduction of 21 GL from last week.

The release from Dartmouth Reservoir will be increased slightly from Friday 10<sup>th</sup> November to approximately 10 300 ML/day in order to obtain a rise of about 3mm at the Tallandoon river gauge. This slight increase above the nominal channel capacity in the Mitta Mitta River of 10 000 ML/day was made possible following discussions with Mitta Mitta River riparian landowners. Some on-farm works on several properties have been undertaken to alleviate existing and likely problems associated with higher flows. These higher flows will assist in meeting demands on Hume storage over the coming months. The release rate from Dartmouth and the effects on riparian landowners will be reviewed over the coming weeks, with a view to making further small increases in flow in the Mitta Mitta River. Inflows to Dartmouth totalled 8 GL this week, and storage reduced by 65 GL to 1 718 GL (44% capacity).

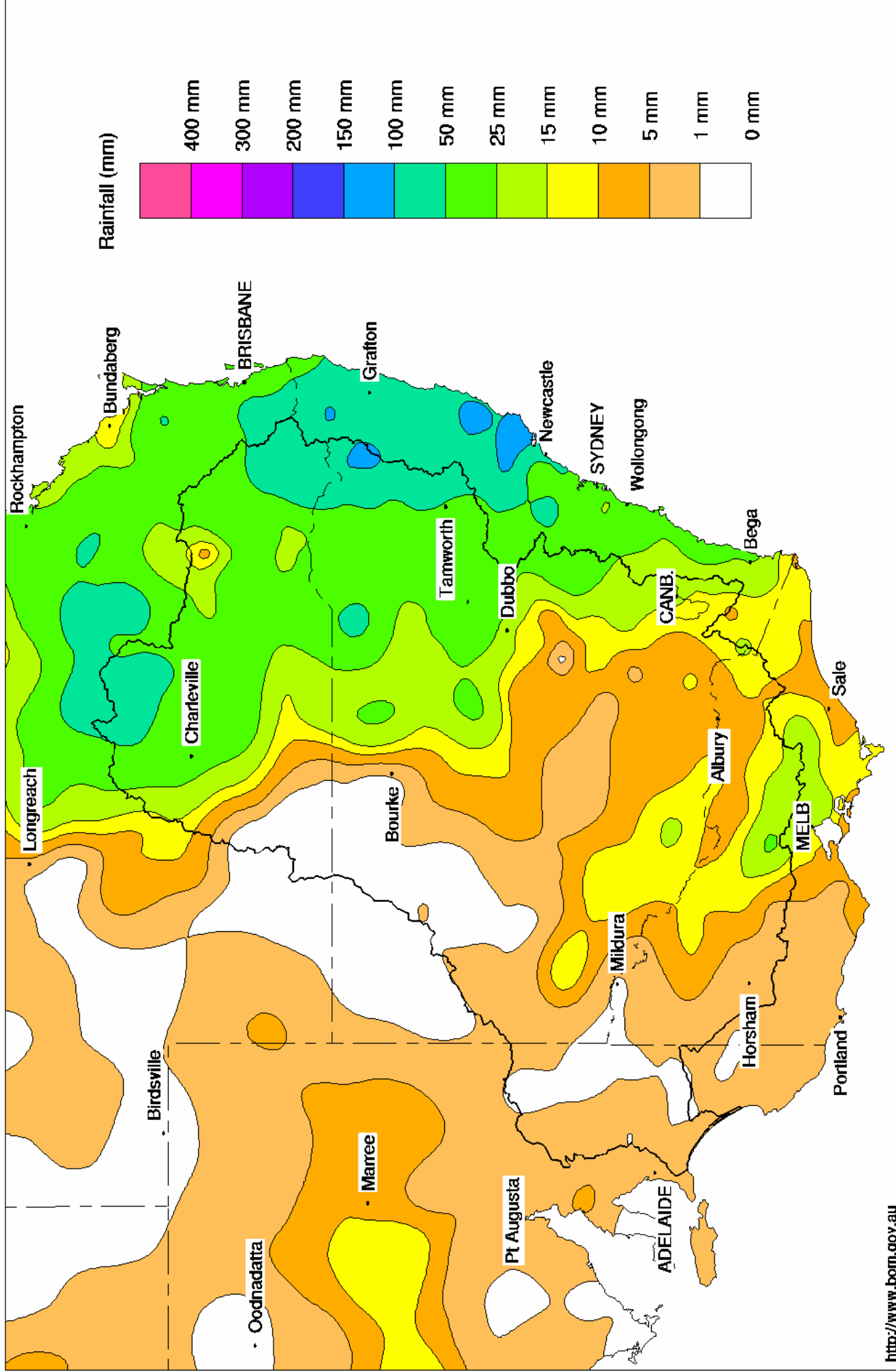
National Channel diversions have reduced to 2 400 ML/day, increasing the flow in the river downstream of Torrumbarry Weir to 6 000 ML/day. Higher flows in the mid-river are assisting Lake Victoria, where storage reduced only slightly this week by 11 GL to 486 GL (72% capacity). The flow to South Australia is averaging slightly more than 5 400 ML/day, which is 600 ML/day below the usual entitlement flow for November. Outflow from Lake Victoria is currently contributing about a third of this daily flow rate.

The level of the Lower Lakes is now slightly below 0.70 m AHD, with strong southerly winds being recorded during most of this week. Salinities in the lower Murray remain at relatively low levels (370 EC at Morgan), and the salinity in the Lower Lakes continues to gradually rise, currently 1 740 EC at Goolwa Barrage.

DAVID DREVERMAN  
General Manager

# Murray Darling Rainfall Analysis (mm) Week Ending 8th November 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	444.51	1 718	44%	80	1 638	-65
Hume Reservoir	192.00	3 038	170.58	308	10%	30	278	-21
Lake Victoria	27.00	677	25.35	486	72%	100	386	-11
Menindee Lakes		1 731 *		208	12%	(- -) #	0	-5
<b>Total</b>		<b>9 352</b>		<b>2 719</b>	<b>29%</b>	<b>--</b>	<b>2 301</b>	<b>-101</b>

\* Menindee surcharge capacity 2050 GL      % of Total Active MDBC Storage = 27%

# 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		309	30%	3	306	-1
Blowering Reservoir	1 631		506	31%	24	482	-33
Eildon Reservoir	3 390		567	17%	100	467	-20

**Snowy Mountains Scheme**

Snowy diversions for week ending 07-Nov-2006

Storage	Active storage (GL)	Weekly change (GL)	Diversions (GL)	This week	From 1 May 2006
Lake Eucumbene - Total	666	-9	Snowy-Murray	+12	652
Snowy-Murray Component	406	-13	Tooma-Tumut	+0	34
Target Storage	1 450		Nett Diversion	12.1	618
			Murray 1 Release	+17	741

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

New South Wales	This week	From 1 July 2006
Murray Irrig. Ltd (Net)	4.5	229.7
Wakool System loss	2.8	22.4
Western Murray Irrig.	0.7	6.9
Licensed Pumps	4.7	84.0
Lower Darling	0.4	11.4
<b>TOTAL</b>	<b>13.2</b>	<b>354.4</b>

Victoria	This week	From 1 July 2006
Yarrowonga Main Channel (net)	8.4	146
Torrumbarry System + Nyah (net)	18.2	297
Sunraysia Pumped Districts	4.7	41
Licensed pumps - GMW (Nyah+u/s)	7.9	41
Licensed pumps - LMW	6.6	30
<b>TOTAL</b>	<b>45.7</b>	<b>556</b>

**Flow to South Australia (GL)**

Entitlement this month	180	
Flow this week	37.8	(5 400 ML/day)
Flow so far this month	43	
Flow last month	153	

**Salinity (EC)**

(microsiemens/cm @ 25° C)

	Current	Average over the last week	Average since 1 August 2006
Swan Hill	60	60	70
Euston	110	110	100
Red Cliffs	130	120	120
Merbein	100	100	110
Burtundy (Darling)	830	770	660
Lock 9	140	140	130
Lake Victoria	160	160	150
Berri	210	210	230
Waikerie	340	350	380
Morgan	370	380	400
Mannum	460	460	450
Murray Bridge	470	470	410
Milang (Lake Alex.)	1 250	1 230	1 150
Poltalloch (Lake Alex.)	1 190	1 150	890
Meningie (Lake Alb.)	2 190	2 230	2 200
Goolwa Barrages	1 740	1 780	1 620



**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	-	-	-	3 300	R	2 440	2 540
Jingellic	4.0	1.43	207.95	2 700	S	2 530	2 500
Tallandoon ( Mitta Mitta River )	4.2	3.27	220.16	9 880	R	9 900	9 930
Heywoods	5.5	2.91	156.54	14 030	R	14 360	16 050
Doctors Point	5.5	3.00	151.47	14 000	R	14 210	16 030
Albury	4.3	1.98	149.42	-	-	-	-
Corowa	7.0	2.94	128.96	14 700	F	15 670	16 790
Yarrowonga Weir (d/s)	6.4	1.73	116.77	10 300	S	10 300	9 860
Tocumwal	6.4	2.26	106.10	10 120	S	10 130	10 100
Torrumbarry Weir (d/s)	7.3	2.06	80.61	5 970	R	5 680	5 390
Swan Hill	4.5	1.17	64.09	5 450	R	5 180	4 650
Wakool Junction	8.8	3.11	52.23	8 510	R	8 230	7 410
Euston Weir (d/s)	8.8	1.60	43.44	8 000	R	7 430	6 480
Mildura Weir (d/s)	-	-	-	5 770	F	5 300	4 510
Wentworth Weir (d/s)	7.3	2.93	27.69	5 490	R	5 020	4 190
Rufus Junction	-	3.19	20.12	4 930	S	4 920	4 470
Blanchetown (Lock 1 d/s)	-	0.80	-	3 290	S	3 170	2 860
<b>Tributaries</b>							
Kiewa at Bandiana	2.7	0.61	153.84	140	F	180	140
Ovens at Wangaratta	11.9	7.52	145.20	88	F	100	90
Goulburn at McCoys Bridge	9.0	1.17	92.59	415	R	400	410
Edward at Stevens Weir (d/s)	-	2.44	82.21	2 710	F	2 710	2 710
Edward at Liewah	-	3.04	58.42	2 630	S	2 620	2 520
Wakool at Stoney Crossing	-	0.73	55.22	1 150	S	1 110	960
Murrumbidgee at Balranald	5.0	1.01	56.97	537	R	350	210
Barwon at Mungindi	-	3.26	-	136	R	50	40
Darling at Bourke	-	3.42	-	-	F	-	-
Darling at Burtundy Rocks	-	0.77	-	249	R	190	-

<b>Natural Inflow to Hume</b> (ie pre Dartmouth & Snowy Mountains scheme)	610	240
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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	-0.08	-	No. 7 Rufus River	22.10	+0.10	+0.87
No 26 Torrumbarry	86.05	-0.08	-	No. 6 Murtho	19.25	+0.01	+0.09
No. 15 Euston	47.60	+0.00	-	No. 5 Renmark	16.30	+0.02	+0.16
No. 11 Mildura	34.40	+0.06	+0.18	No. 4 Bookpurnong	13.20	+0.04	+0.57
No. 10 Wentworth	30.80	+0.06	+0.29	No.3 Overland Corner	9.80	+0.03	+0.19
No. 9 Kulnine	27.40	+0.02	+0.02	No. 2 Waikerie	6.10	+0.03	+0.10
No. 8 Wangumma	24.60	+0.01	+0.19	No 1. Blanchetown	3.20	+0.01	+0.05

<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	+0.07	1.36	70.71	1520
No. 5 Redbank	66.90	-1.12	0.86	62.16	1050



**Lower Lakes**

FSL = 0.75 m AHD

	(m AHD)
Lake Alexandrina average level for the past 5 days	0.71

**Barrages**

**Fishways @ Barrages**

	Openings	Level (m AHD)	Status	Rock Ramp	Vertical Slot
Goolwa	128 openings	0.78	All closed	-	Open
Mundoo	26 openings	0.80	All closed	-	-
Boundary Creek	6 openings	-	All closed	-	-
Ewe Island	111 gates	-	All closed	-	-
Tauwichee	322 gates	0.75	All closed	Open	Open

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