

# REPORT FOR THE WEEK ENDING

Wednesday, 7 September 2005

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8 September, 2005



## ***Rainfall and Inflow***

Rainfall across the Basin this week was highest in northern and western NSW, with 31 mm falling at Menindee and 41 mm at Tamworth (*see attached map*). Although there was very little rain in the south-east of the Basin, there was a significant increase of inflows to the River Murray System as a result of rain from the previous week.

The inflow to both Hume and Dartmouth Reservoirs peaked at about 30 000 ML/day and the Kiewa River at Bandiana peaked at about 10 000 ML/day. The flow in the Ovens River at Wangaratta reached about 38 000 ML/day and the Goulburn River contributed a peak inflow to the River Murray of about 16 000 ML/day. During the week the MDBC active storage increased by 294 GL to 4302 GL, which is 51% capacity.

## ***River Murray Operations***

The flow downstream of Yarrawonga Weir was temporarily increased to 31 000 ML/day on 5 September to pass the higher inflow from the Ovens and Kiewa Rivers. It has been gradually reduced to 21 000 ML/day (8 September) as inflows recede.

Flow at Torrumbarry Weir has increased to 20 000 ML/day to pass the higher inflow from the Goulburn River, but will gradually reduce over the coming week. The inflow from the Goulburn River is expected to produce a peak flow of about 17 000 ML/day in the River Murray at Swan Hill over the coming week and a similar flow rate is expected downstream of Euston Weir later this month.

Flow at Wentworth Weir has increased to 11 000 ML/day as a result of rain in the upper catchment during early August. This flow rate is in excess of the current entitlement flow to South Australia and the inlet capacity of Lake Victoria. Consequently, there is currently a small surplus flow into South Australia of about 1 000 ML/day in excess of the September entitlement flow (4 500 ML/day). The surplus flow to South Australia is expected to continue over the coming week as the higher flow from the Goulburn River approaches Lake Victoria.

However, the present higher flow downstream of Yarrawonga Weir will be greatly mitigated as it flows through the Barmah-Millewa Forest and by the time it reaches Lake Victoria in early October, is expected to be fully regulated and stored in Lake Victoria. Storage in Lake Victoria increased this week by 41 GL to 554 GL (82%).

With the present surplus flow into South Australia, the flow downstream of Locks 1 to 6 has increased by about 1 000 ML/day. The level of the Lower Lakes has remained steady during the week at 0.86m AHD and the number of barrage gates open remains the same, although four gates at Ewe Island Barrage were temporarily closed between the 2<sup>nd</sup> and 5<sup>th</sup> September.

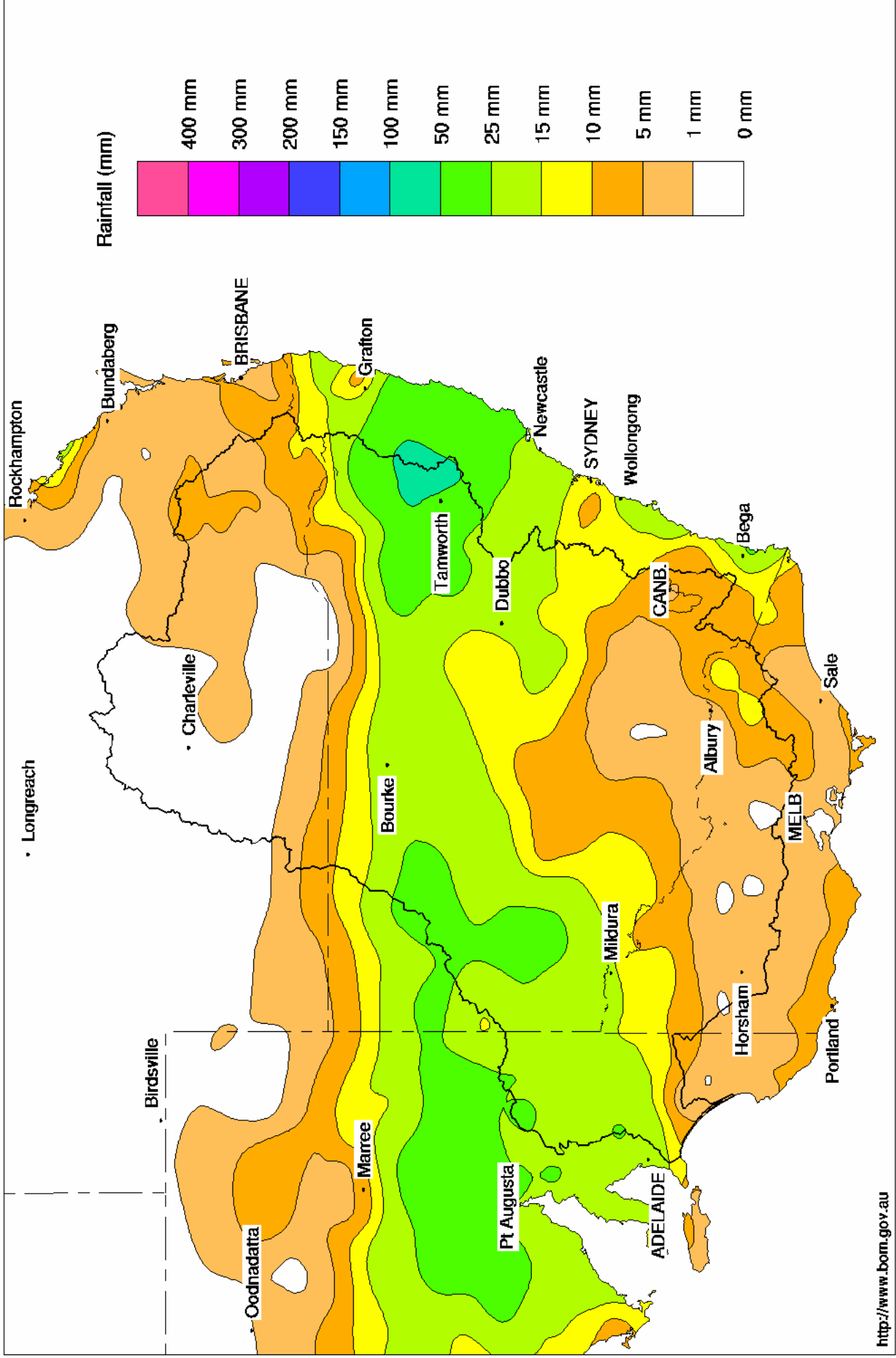
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# Murray Darling Rainfall Analysis (mm) Week Ending 7th September 2005

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	453.07	2 083	53%	80	2 003	+92
Hume Reservoir	192.00	3 038	185.38	1 875	62%	30	1 845	+158
Lake Victoria	27.00	677	25.96	554	82%	100	454	+41
Menindee Lakes		1 731 *		481	28%	(- -) #	0	+4
<b>Total</b>		<b>9 352</b>		<b>4 993</b>	<b>53%</b>	<b>--</b>	<b>4 302</b>	<b>+294</b>

\* Menindee surcharge capacity 2050 GL

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

# 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		482	47%	3	479	+10
Blowering Reservoir	1 631		769	47%	24	745	+35
Eildon Reservoir	3 390		1 365	40%	100	1 265	+143

**Snowy Mountains Scheme**

Snowy diversions for week ending 06-Sep-2005

Storage	Active storage (GL)	Weekly change (GL)	Diversions (GL)	This week	From 1 May 2005
Lake Eucumbene - Total	2 024	+34	Snowy-Murray	+6	299
Snowy-Murray Component	905	+21	Tooma-Tumut	+11	116
Target Storage	1 240		Nett Diversion	-4.6	183
			Murray 1 Release	+24	430

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

New South Wales	This week	From 1 July 2005
Murray Irrig. Ltd (Net)	1.4	34.0
Wakool System loss	0.2	10.8
Western Murray Irrig.	0.2	.8
Licensed Pumps	1.0	7.6
Lower Darling	1.8	8.4
<b>TOTAL</b>	<b>4.7</b>	<b>61.6</b>

Victoria	This week	From 1 July 2005
Yarrowonga Main Channel (net)	.2	3
Torrumbarry System + Nyah (net)	3.9	53
Sunraysia Pumped Districts	0.4	3
Licensed pumps - GMW (Nyah+u/s)	0.1	1
Licensed pumps - SRW	4.1	21
<b>TOTAL</b>	<b>8.7</b>	<b>82</b>

**Flow to South Australia (GL)**

Entitlement this month	135	
Flow this week	34.2	(4 900 ML/day)
Flow so far this month	34	
Flow last month	124	

**Salinity (EC)**

(microsiemens/cm @ 25° C)

	Current	Average over the last week	Average since 1 August 2005
Swan Hill	150	110	120
Euston	150	160	140
Red Cliffs	140	150	150
Merbein	120	120	110
Burtundy (Darling)	520	510	530
Lock 9	140	160	160
Lake Victoria	160	180	190
Berri	280	280	300
Waikerie	-	430	490
Morgan	420	420	460
Mannum	480	480	460
Murray Bridge	490	450	440
Milang (Lake Alex.)	1 420	1 390	1 390
Poltalloch (Lake Alex.)	1 010	1 020	1 040
Meningie (Lake Alb.)	2 130	2 100	2 100
Goolwa Barrages	1 860	1 880	2 250



**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	-	-	-	4 210	R	5 090	4 850
Jingellic	4.0	2.40	208.92	10 900	F	15 420	9 160
Tallandoon ( Mitta Mitta River )	4.2	2.10	218.99	3 200	F	4 590	2 650
Heywoods	5.5	1.25	154.88	600	S	600	600
Doctors Point	5.5	2.18	150.65	5 380	F	7 180	3 690
Albury	4.3	1.20	148.64	-	-	-	-
Corowa	7.0	1.67	127.69	6 040	F	6 720	4 270
Yarrowonga Weir (d/s)	6.4	3.48	118.52	25 000	F	21 570	14 460
Tocumwal	6.4	4.09	107.93	26 530	R	17 940	14 880
Torrumbarry Weir (d/s)	7.3	5.09	83.64	19 310	R	12 910	10 490
Swan Hill	4.5	2.00	64.92	10 990	R	10 190	9 150
Wakool Junction	8.8	-	-	13 630	S	13 610	11 720
Euston Weir (d/s)	8.8	2.47	44.31	13 740	F	13 350	12 260
Mildura Weir (d/s)	-	-	31.32	14 680	F	14 350	12 480
Wentworth Weir (d/s)	7.3	3.36	28.12	11 190	S	10 700	10 030
Rufus Junction	-	3.31	20.24	5 290	R	4 350	3 500
Blanchetown (Lock 1 d/s)	-	-	-	4 960	R	4 270	4 170
<b>Tributaries</b>							
Kiewa at Bandiana	2.7	2.54	155.77	6 310	F	7 690	3 670
Ovens at Wangaratta	11.9	10.88	148.56	12 025	F	23 160	8 570
Goulburn at McCoys Bridge	9.0	5.73	97.15	11 924	F	9 110	2 190
Edward at Stevens Weir (d/s)	-	-	-	2 850	F	2 860	2 910
Edward at Liewah	-	3.32	58.70	3 210	R	3 090	2 910
Wakool at Stoney Crossing	-	0.62	55.11	847	S	850	780
Murrumbidgee at Balranald	5.0	0.60	56.56	264	F	300	830
Barwon at Mungindi	-	3.20	-	60	S	110	120
Darling at Bourke	-	4.12	-	502	F	550	670
Darling at Burtundy Rocks	-	0.69	-	61	S	40	30

<b>Natural Inflow to Hume</b> (ie pre Dartmouth & Snowy Mountains scheme)	37 260	16 840
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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	-0.09	-	No. 7 Rufus River	22.10	+0.15	+1.01
No 26 Torrumbarry	86.05	+0.01	-	No. 6 Murtho	19.25	+0.04	+0.11
No. 15 Euston	47.60	-0.30	-	No. 5 Renmark	16.30	+0.01	+0.21
No. 11 Mildura	34.40	+0.05	+0.52	No. 4 Bookpurnong	13.20	+0.09	+0.70
No. 10 Wentworth	30.80	-0.03	+0.72	No.3 Overland Corner	9.80	+0.05	+0.24
No. 9 Kulnine	27.40	+0.10	+0.09	No. 2 Waikerie	6.10	+0.03	+0.22
No. 8 Wangumma	24.60	+0.04	+0.30	No 1. Blanchetown	3.20	+0.08	-0.06

<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	-0.21	1.1	70.45	991
No. 5 Redbank	66.90	-0.23	0.2	61.5	314

**Lower Lakes**

FSL = 0.75 m AHD

	(m AHD)
Lake Alexandrina average level for the past 5 days	0.86

**Barrages**

	Openings	Level (m AHD)	Status
Goolwa	128 openings	0.92	All closed
Mundoo	26 openings	0.90	All closed
Boundary Creek	6 openings	-	2
Ewe Island	111 gates	-	9
Tauwichee	322 gates	0.96	3

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

