

# REPORT FOR THE WEEK ENDING

Wednesday, 7 December 2005

*Our Ref : M2005/00066/prs*  
*Trim Ref : 05/23212*

8 December, 2005



## ***Rainfall and Inflow***

This week widespread rainfall up to 100 mm was received across the Murray-Darling Basin, with the greatest falls occurring in the Southern parts of the Basin (*see attached map*). Rainfall contracted to the NW (showers up to 5 mm) which has done little to improve flows in the Darling River. Up to 65 mm of rain fell across parts of NE Victoria on 2 December which produced peak inflows to the River Murray of around 4500 and 6000 ML/day from the Kiewa and Ovens Rivers, respectively.

Storage in Dartmouth Reservoir increased by 20 GL to about 2 500 GL (or 64.2% of capacity) this week, whilst that in Hume Reservoir fell slightly to about 2 660 GL (or 87.5 % of capacity).

## ***River Murray Operations***

This week the release from Hume Reservoir was reduced from about 16 500 ML/day to 9 500 ML/day in response to rainfall on Friday which reduced irrigation demand over the weekend and also in accordance with the Barmah-Millewa Forest environmental watering program. To date approximately 450 GL has been released from the Barmah-Millewa Forest Environmental Water Account held in Hume Reservoir which is being actively managed to achieve environmental benefits for the forest.

The release from Yarrawonga Weir was gradually reduced from 15 000 ML/day to 14 000 ML/day late last week, but subsequently increased to 16 000 ML/day for a short time to pass the increased inflows to the Murray from the Ovens River. It is expected that the release from Yarrawonga will now be gradually reduced back toward channel capacity (10 300 ML/day) during December unless there is further significant rainfall.

Over coming weeks the upper pool level of Lock/Weirs 1, 4, 5 and 6, which have been raised since late September to provide local environmental watering, will be gradually lowered back to normal pool level.

## ***Summary for November 2005***

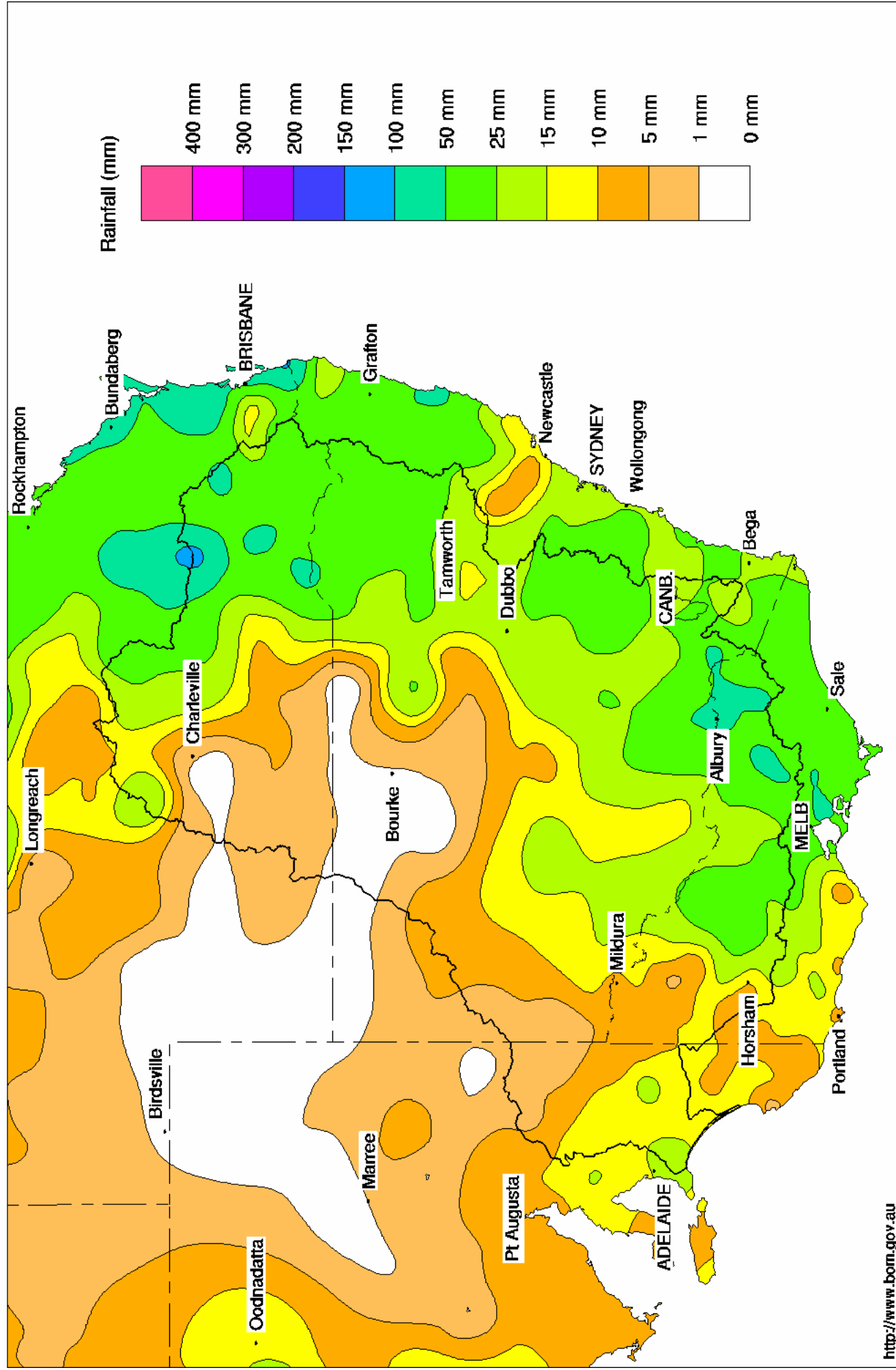
Rainfall was widespread across much of the Murray-Darling Basin during November. Above average falls predominated much of the Southern Basin, however falls were average to very much below average across NW parts of the Basin (*see attached map*). November delivered above average rainfall to the Northern and Eastern areas of Victoria. Most of the rainfall in this area fell during widespread severe thunderstorms on 8 November that caused flash flooding in some areas.

The total volume in MDBC storage decreased by about 30 GL to 5 589 GL (75% active storage capacity) during November, which is about 1 700 GL greater than at the same time last year, but is still below the long-term average for this time of the year (7 000 GL).

DAVID DREVERMAN  
General Manager

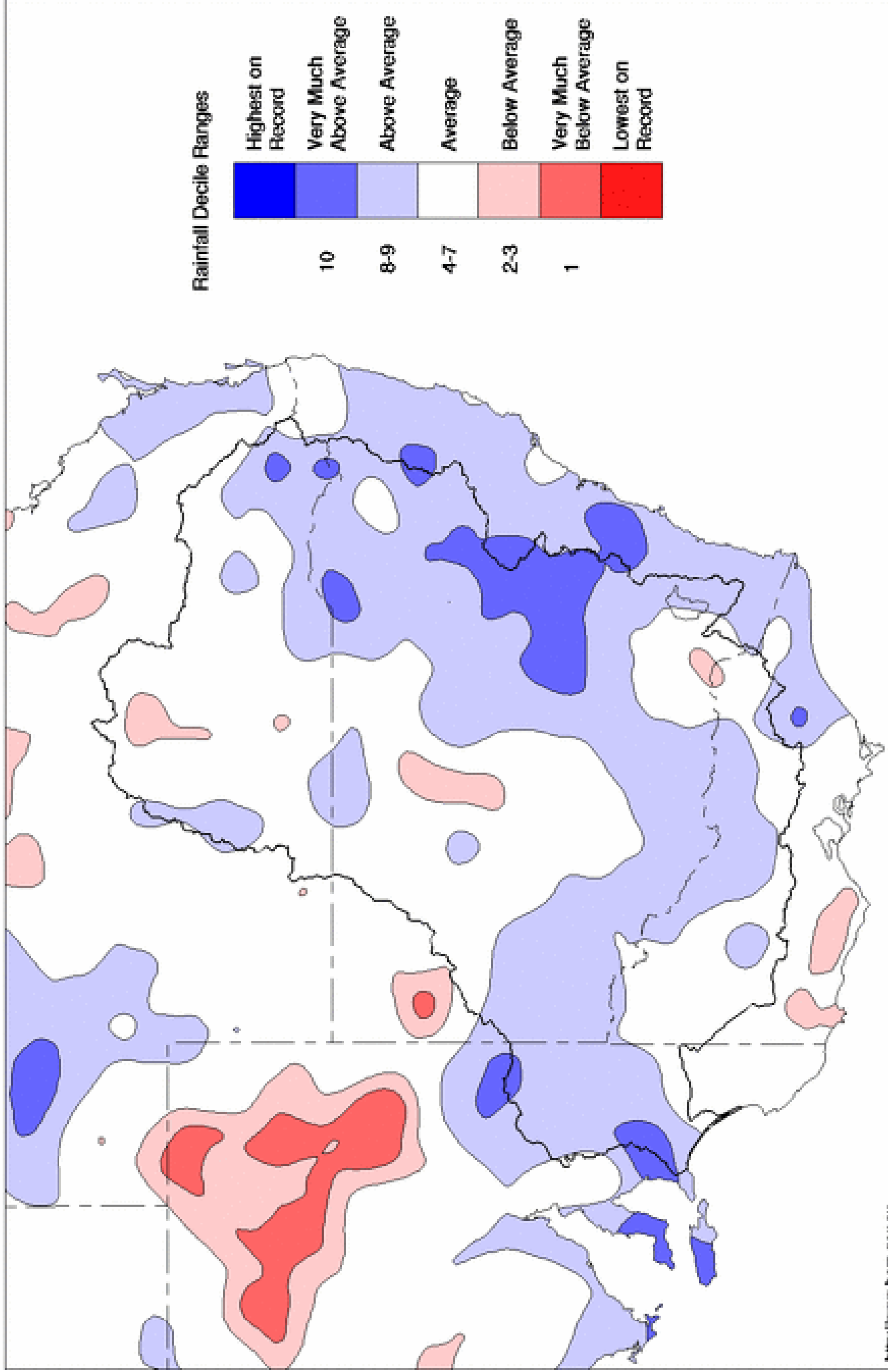
# Murray Darling Rainfall Analysis (mm) Week Ending 7th December 2005

Product of the National Climate Centre



# Murray Darling Rainfall Deciles November 2005

Distribution Based on Gridded Data  
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	461.93	2 508	64%	80	2 428	+20
Hume Reservoir	192.00	3 038	190.05	2 659	88%	30	2 629	-4
Lake Victoria	27.00	677	26.98	674	100%	100	574	-1
Menindee Lakes		1 731 *		413	24%	(- -) #	0	-14
<b>Total</b>		<b>9 352</b>		<b>6 254</b>	<b>67%</b>	<b>--</b>	<b>5 631</b>	<b>+0</b>

\* Menindee surcharge capacity 2050 GL

% of Total Active MDBC Storage = **66%**

# 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	759	74%	3	756	+12
Blowering Reservoir	1 631	1 056	65%	24	1 032	-15
Eildon Reservoir	3 390	1 641	48%	100	1 541	+2

**Snowy Mountains Scheme**

Snowy diversions for week ending 06-Dec-2005

Storage	Active storage (GL)	Weekly change (GL)	Diversions (GL)	This week	From 1 May 2005
Lake Eucumbene - Total	2 283	-21	Snowy-Murray	+20	457
Snowy-Murray Component	1 149	-6	Tooma-Tumut	+5	230
Target Storage	1 510		Nett Diversion	14.4	227
			Murray 1 Release	+26	745

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

New South Wales	This week	From 1 July 2005
Murray Irrig. Ltd (Net)	27.4	373.9
Wakool System loss	0.0	7.2
Western Murray Irrig.	1.0	6.5
Licensed Pumps	7.7	99.6
Lower Darling	0.5	21.7
<b>TOTAL</b>	<b>36.5</b>	<b>508.8</b>

Victoria	This week	From 1 July 2005
Yarrawonga Main Channel (net)	10.3	87
Torrumbarry System + Nyah (net)	14.9	240
Sunraysia Pumped Districts	5.6	36
Licensed pumps - GMW (Nyah+u/s)	1.7	11
Licensed pumps - SRW	6.8	100
<b>TOTAL</b>	<b>39.2</b>	<b>474</b>

**Flow to South Australia (GL)**

Entitlement this month	217	
Flow this week	79.9	(11 400 ML/day)
Flow so far this month	80	
Flow last month	339	

**Salinity (EC)**

(microsiemens/cm @ 25° C)

	Current	Average over the last week	Average since 1 August 2005
Swan Hill	100	110	110
Euston	110	120	130
Red Cliffs	140	140	140
Merbein	130	120	120
Burtundy (Darling)	610	600	540
Lock 9	120	120	140
Lake Victoria	160	180	190
Berri	180	180	230
Waikerie	-	-	370
Morgan	260	250	340
Mannum	300	300	400
Murray Bridge	350	330	410
Milang (Lake Alex.)	1 280	1 280	1 340
Poltalloch (Lake Alex.)	840	800	910
Meningie (Lake Alb.)	2 180	2 140	2 090
Goolwa Barrages	1 610	1 560	1 780



**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	-	-	-	7 450	R	4 960	2 500
Jingellic	4.0	2.21	208.73	9 090	S	8 070	4 760
Tallandoon ( Mitta Mitta River )	4.2	1.64	218.53	1 190	R	1 330	1 950
Heywoods	5.5	2.47	156.10	9 400	F	12 180	16 470
Doctors Point	5.5	2.77	151.24	11 400	R	14 210	18 340
Albury	4.3	1.78	149.22	-	-	-	-
Corowa	7.0	2.82	128.84	13 700	F	17 440	19 230
Yarrowonga Weir (d/s)	6.4	2.36	117.40	15 000	F	15 110	15 000
Tocumwal	6.4	3.08	106.92	17 020	R	16 130	16 260
Torrumbarry Weir (d/s)	7.3	2.86	81.41	8 940	F	9 610	11 140
Swan Hill	4.5	1.81	64.73	9 690	F	10 040	10 580
Wakool Junction	8.8	4.37	53.49	14 940	F	15 330	15 850
Euston Weir (d/s)	8.8	2.57	44.41	14 510	F	14 800	15 520
Mildura Weir (d/s)	-	-	31.42	13 700	F	14 590	14 530
Wentworth Weir (d/s)	7.3	3.38	28.14	11 130	R	10 860	12 300
Rufus Junction	-	4.17	21.10	10 900	R	11 040	8 640
Blanchetown (Lock 1 d/s)	-	-	-	9 880	R	9 400	7 890
<b>Tributaries</b>							
Kiewa at Bandiana	2.7	2.02	155.25	2 480	R	2 610	1 980
Ovens at Wangaratta	11.9	8.97	146.65	3 520	F	3 860	3 380
Goulburn at McCoys Bridge	9.0	1.44	92.86	815	R	870	1 270
Edward at Stevens Weir (d/s)	-	-	-	4 040	F	3 700	4 470
Edward at Liewah	-	3.16	58.54	2 930	F	3 110	3 190
Wakool at Stoney Crossing	-	0.99	55.48	2 190	F	2 450	2 540
Murrumbidgee at Balranald	5.0	0.48	56.44	204	F	210	220
Barwon at Mungindi	-	3.63	-	1 200	S	820	350
Darling at Bourke	-	4.06	-	223	S	280	230
Darling at Burtundy Rocks	-	0.71	-	63	F	60	60

<b>Natural Inflow to Hume</b> (ie pre Dartmouth & Snowy Mountains scheme)	12 170	5 510
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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	+0.04	-	No. 7 Rufus River	22.10	+0.08	+1.88
No 26 Torrumbarry	86.05	+0.00	-	No. 6 Murtho	19.25	+0.14	+0.70
No. 15 Euston	47.60	-0.02	-	No. 5 Renmark	16.30	+0.47	+0.67
No. 11 Mildura	34.40	+0.05	+0.62	No. 4 Bookpurnong	13.20	+0.32	+1.24
No. 10 Wentworth	30.80	+0.05	+0.74	No.3 Overland Corner	9.80	+0.01	+0.47
No. 9 Kulnine	27.40	+0.04	+0.75	No. 2 Waikerie	6.10	+0.01	+0.48
No. 8 Wangumma	24.60	+0.58	+0.60	No 1. Blanchetown	3.20	+0.11	+0.31

<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	-0.91	0.6	69.95	296
No. 5 Redbank	66.90	-0.16	0.13	61.43	252

**Lower Lakes**

FSL = 0.75 m AHD

	(m AHD)
Lake Alexandrina average level for the past 5 days	0.85

**Barrages**

	Openings	Level (m AHD)	Status
Goolwa	128 openings	0.86	1
Mundoo	26 openings	0.96	All closed
Boundary Creek	6 openings	-	All closed
Ewe Island	111 gates	-	All closed
Tauwichee	322 gates	0.87	2



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