

REPORT FOR THE WEEK ENDING

Wednesday, 1 December 2004

Our Ref : RMW305/01/01/PRS, DWG, BWH

3 December, 2004

Trim Ref : 04/12598DO



November Summary

During November there was above average rainfall across the majority of the Basin, especially in the south (see map). Total monthly inflow to the River Murray System was 591 GL, which is expected to occur 1 year in 2. The active MDBC storage increased this month by 159 GL and is currently at 46% of capacity. However, despite the good rainfall in November, inflow to the River Murray System between June and November 2004 is at a very low level, which is expected to be exceeded 8 years in 10.

Storage Levels (active) at the end of November, 2004

Storage	Dartmouth Reservoir	Hume Reservoir	Lake Victoria	Total MDBC active storage	*Menindee Lakes
Active MDBC Storage Volume	1696 GL (46% of capacity)	1643 GL (54% of capacity)	574 GL (100% of capacity)	3 878 GL (46 % of capacity)	*249 GL (15% of capacity)
Change for month	-56 GL	+174 GL	+41 GL	+159 GL	*-31 GL

* Currently under NSW control and not available to MDBC

Rainfall and Inflows

Over the past week conditions were warm to hot across the Basin, with many areas experiencing daily maximum temperatures over 40°C and strong northerly winds. Light rain was recorded later in the week in the southern part of the Basin (see map). Inflow rates to the Dartmouth and Hume Reservoirs have continued to decline and are currently at about 2 000 ML/day and 13 000 ML/day respectively. Tributary inflows have also receded this week, with the Kiewa and Ovens catchments providing a combined total of about 4 000 ML/day to the River Murray.

Inflow to the Darling River improved as a result of recent rainfall, with the Barwon River at Collarenebri increasing to 1 100 ML/day. However, this is expected to have little impact on storage in Menindee Lakes.

System Operation

In response to increased storage levels at the end of November, the transfer of water from Dartmouth Reservoir to Hume Reservoir has been reduced to about 4 000 ML/day. However, the release from Hume Reservoir has been increased to about 15 500 ML/day due to falling tributary inflow and the recent hot windy weather, which has increased irrigation demand and evaporation losses. The storage level of both Dartmouth and Hume Reservoirs declined this week, as did Menindee Lakes.

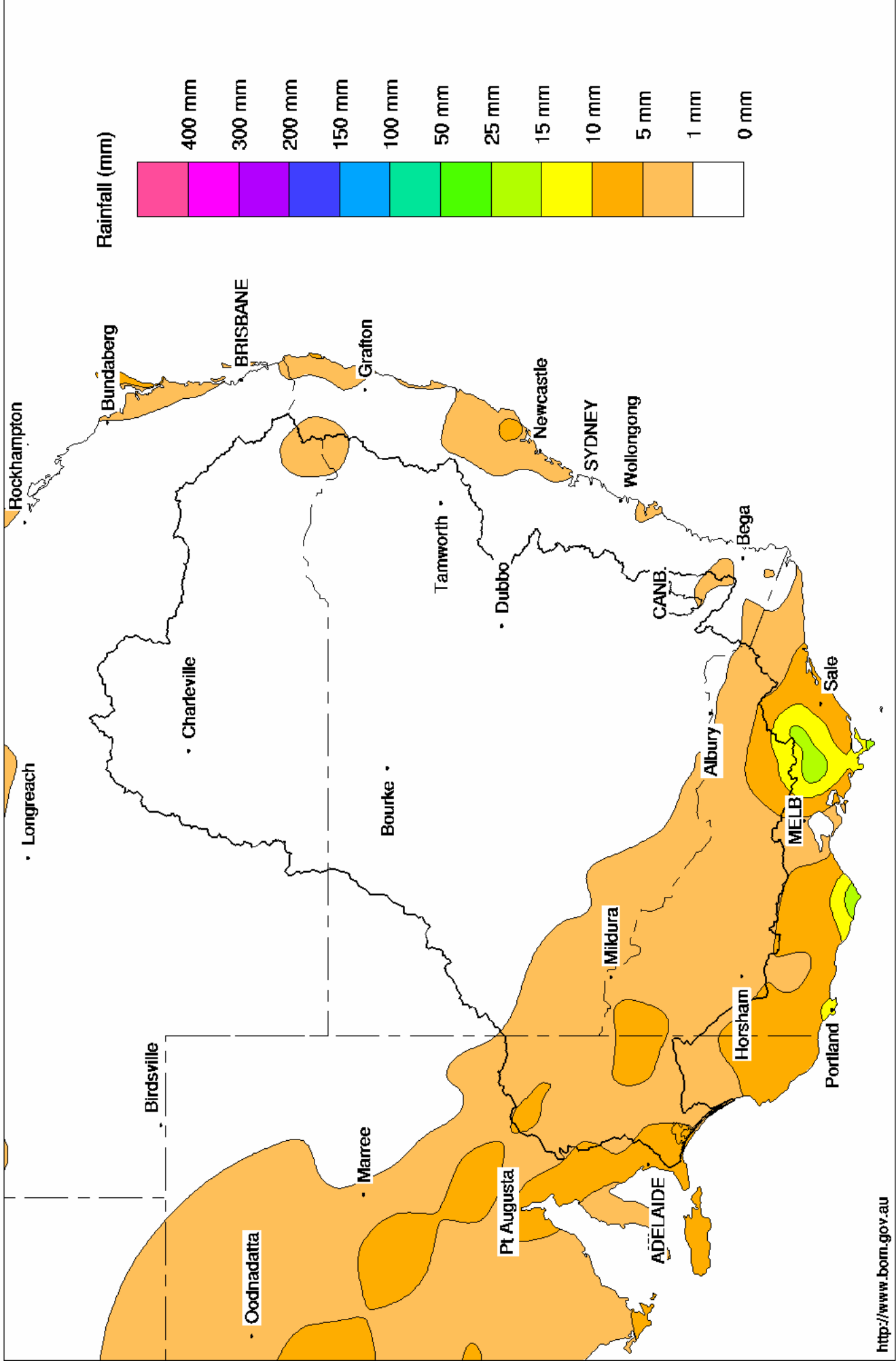
The storage of Lake Victoria has increased by 14 GL and it is expected to fill over the next few days. The recent higher River Murray flow has also resulted in an above entitlement flow to South Australia during November of about 12 000 ML.

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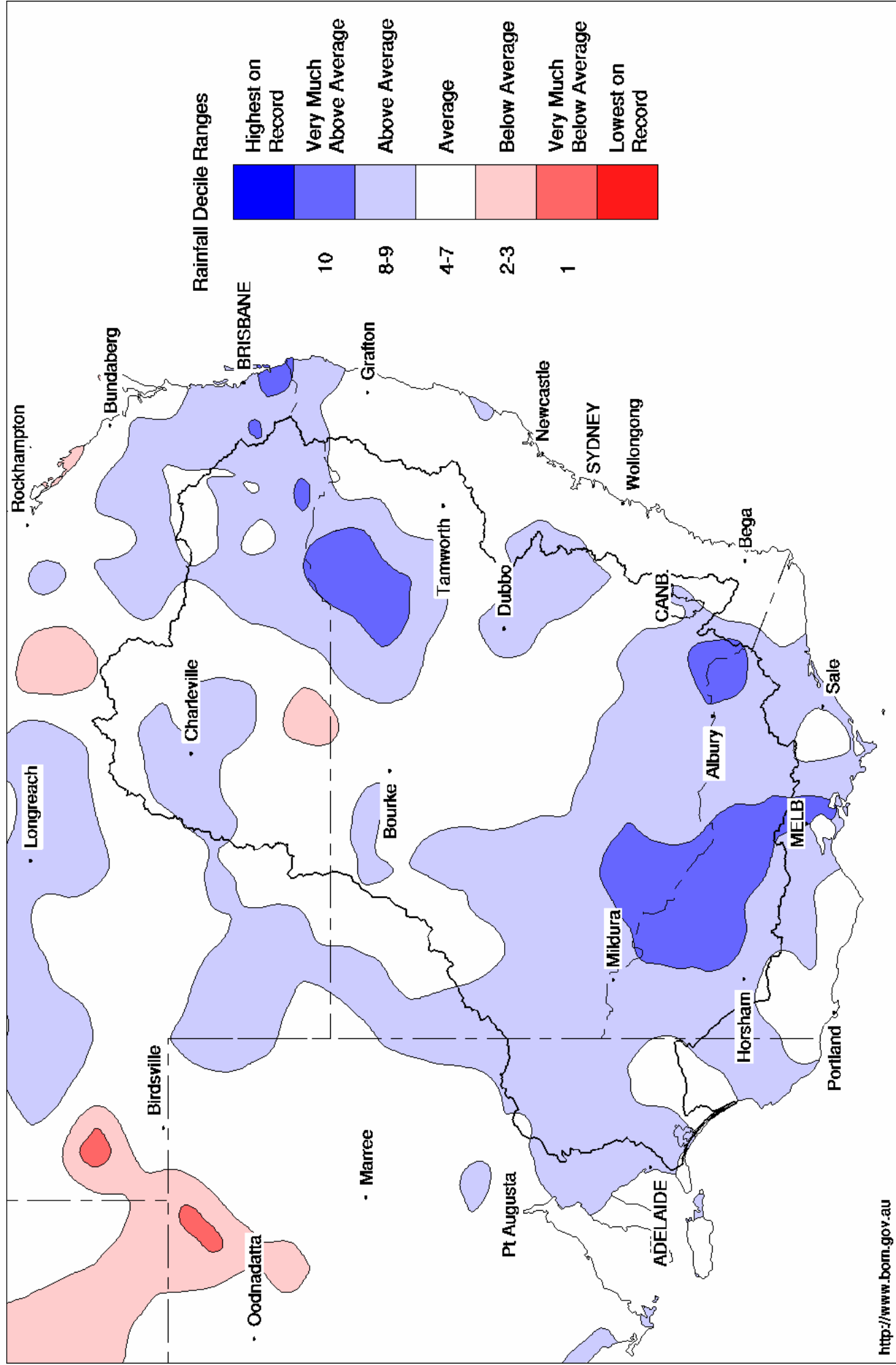
Murray Darling Rainfall Analysis (mm) Week Ending 1st December 2004

Product of the National Climate Centre



Murray Darling Rainfall Deciles November 2004

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)	Active Storage (GL)	Change in Storage for the week (GL)
				(GL)	%			
Dartmouth Reservoir	486.00	3 906	445.88	1 773	45%	80	1 693	-26
Hume Reservoir	192.00	3 038	183.76	1 640	54%	30	1 610	-8
Lake Victoria	27.00	677	-9.00	675	100%	100	575	+14
Menindee Lakes		1 603 *		248	15%	640 #	0	-8
Total		9 224		4 336	47%	850	3 878	-27

* Menindee surcharge capacity 1916 GL

% of Total Active MDBC Storage = **46%**

NSW Menindee Lakes Reserve

Major State Storages

Burrinjuck Reservoir	1 026	207	20%	3	204	+5
Blowering Reservoir	1 631	510	31%	24	486	+15
Eildon Reservoir	3 390	1 459	43%	100	1 359	-4

Snowy Mountains Scheme

Snowy diversions for week ending 30-Nov-2004

Storage	Active storage (GL)	Weekly change (GL)	Diversion (GL)	This week	From 1 May 2004
Lake Eucumbene - Total	2 566	n/a	Snowy-Murray	+23	331
Snowy-Murray Component	1 161	-	Tooma-Tumut	+9	213
Target Storage	1 510		Nett Diversion	13.3	119
			Murray 1 Release	+31	625

Major Diversions from Murray and Lower Darling (GL)

New South Wales	This week	From 1 July 2004
Murray Irrig. Ltd (Net)	23.4	310.4
Wakool System loss	2.0	3.0
Western Murray Irrig.	1.4	10.2
Licensed Pumps	7.9	106.9
Lower Darling	1.2	8.5
TOTAL	36.0	439.0

Victoria	This week	From 1 July 2004
Yarrawonga Main Channel (net)	15.4	126
Torrumbarry System + Nyah (net)	19.1	235
Sunraysia Pumped Districts	7.8	52
Licensed pumps - GMW (Nyah+u/s)	1.6	10
Licensed pumps - SRW	5.9	115
TOTAL	49.7	538

Flow to South Australia (GL)

Entitlement this month	217	(5 900 ML/day)
Flow this week	41.3	
Flow so far this month	0	
Flow last month	193	

Salinity (EC)

(microsiemens/cm @ 25° C)

	Current	Average over the last week	Average since 1 August 2004
Swan Hill	80	110	100
Euston	140	130	120
Red Cliffs	160	130	100
Merbein	120	130	110
Burtundy (Darling)	520	510	440
Lock 9	120	120	130
Lake Victoria	170	160	180
Berri	230	220	260
Waikerie	-	330	420
Morgan	350	360	430
Mannum	500	500	520
Murray Bridge	550	540	560
Milang (Lake Alex.)	1 350	1 350	1 250
Poltalloch (Lake Alex.)	1 050	1 050	1 040
Meningie (Lake Alb.)	2 170	2 160	2 100
Goolwa Barrages	1 780	1 740	1 830

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)				
River Murray							
Khancoban	-	-	-	7 360	F	5 270	4 660
Jingellic	4.0	2.25	208.77	9 710	F	7 780	9 990
Tallandoon (Mitta Mitta River)	4.2	2.46	219.35	5 150	F	6 740	7 650
Heywoods	5.5	3.03	156.66	16 060	R	14 150	10 070
Doctors Point	5.5	3.25	151.72	17 100	R	15 130	12 000
Albury	4.3	2.29	149.73	-	-	-	-
Corowa	7.0	3.10	129.12	16 100	R	15 010	11 040
Yarrowonga Weir (d/s)	6.4	1.76	116.80	10 000	S	10 000	10 040
Tocumwal	6.4	2.27	106.11	10 200	S	10 200	10 420
Torrumbarry Weir (d/s)	7.3	1.74	80.29	4 820	F	5 670	8 650
Swan Hill	4.5	1.14	64.06	5 260	F	7 010	9 670
Wakool Junction	8.8	3.47	52.59	10 250	F	12 070	14 230
Euston Weir (d/s)	8.8	2.10	43.94	10 720	F	11 640	13 340
Mildura Weir (d/s)	-	-	31.22	10 880	F	12 370	13 130
Wentworth Weir (d/s)	7.3	3.21	27.97	9 620	S	10 040	10 970
Rufus Junction	-	3.65	20.58	7 660	R	6 630	6 560
Blanchetown (Lock 1 d/s)	-	-	-	-	F	3 940	4 120
Tributaries							
Kiewa at Bandiana	2.7	1.63	154.86	1 650	R	1 430	2 370
Ovens at Wangaratta	11.9	8.49	146.17	2 082	F	2 490	4 490
Goulburn at McCoys Bridge	9.0	1.23	92.65	490	R	490	1 690
Edward at Stevens Weir (d/s)	-	-	-	2 500	F	2 500	2 500
Edward at Liewah	-	-	-	2 422	F	2 670	2 870
Wakool at Stoney Crossing	-	-	-	1 376	F	1 590	1 850
Murrumbidgee at Balranald	5.0	0.39	56.35	160	F	170	320
Barwon at Mungindi	-	3.26	-	150	F	500	60
Darling at Bourke	-	4.04	-	191	R	170	340
Darling at Burtundy Rocks	-	0.64	-	14	F	20	40

Natural Inflow to Hume (ie pre Dartmouth & Snowy Mountains scheme)	8 310	14 630
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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	-0.17	-	No. 7 Rufus River	22.10	-31.10	-28.25
No 26 Torrumbarry	86.05	+0.01	-	No. 6 Murtho	19.25	-28.25	-25.30
No. 15 Euston	47.60	-0.01	-	No. 5 Renmark	16.30	+0.04	+0.27
No. 11 Mildura	34.40	+0.02	+0.42	No. 4 Bookpurnong	13.20	+0.06	+0.66
No. 10 Wentworth	30.80	+0.06	+0.57	No.3 Overland Corner	9.80	-18.80	-15.10
No. 9 Kulnine	27.40	-36.40	-33.60	No. 2 Waikerie	6.10	-15.10	-12.20
No. 8 Wangumma	24.60	-33.60	-31.10	No 1. Blanchetown	3.20	-12.20	-9.75

Murrumbidgee	FSL (m AHD)	relation to FSL	d/s gauge ht.		Flow (ML/day)
			local (m)	(m AHD)	
No. 7 Maude	75.40	-0.00	0.7	70.05	398
No. 5 Redbank	66.90	-0.22	0.14	61.44	261

Barrages

FSL = 0.75 m AHD

	Openings	Level	Status
Goolwa	128 openings	0.62	All closed
Mundoo	26 openings	0.62	All closed
Boundary Creek	6 openings	-	All closed
Ewe Island	111 gates	-	All closed
Tauwichee	322 gates	0.68	All closed

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

