

# REPORT FOR THE WEEK ENDING

Wednesday, 13 November 2002

Our Ref: MDBC:269 :dc:bwh

15 November, 2002



## *Dry conditions persist*

Most areas of the Murray-Darling Basin recorded no rainfall this week, with the remaining regions receiving only minor rainfall. Unregulated inflows to upper Murray storages remain very low.

Temperatures across the Basin have continued to climb over recent weeks, and are generally forecast to rise to between the mid to high thirties along much of the River Murray next week.

## *Upper Murray storages*

Storage in Dartmouth Reservoir was drawn down by 66 GL to 2 350 GL or 60 % of capacity. Under continuing dry conditions, with continuing release at or near channel capacity, storage in Dartmouth is forecast to fall to about 20 % of capacity by autumn 2003.

Storage in Hume Reservoir has declined by a further 55 GL to 607 GL or 20 % of capacity. Release is currently targeted to achieve a flow of 20 000 ML/day at Albury/Wodonga, which is expected to be increased to about 22 500 ML/day early next week. If conditions remain dry, storage in Hume is forecast to fall to very low levels in summer/autumn 2003.

## *Mid Murray flow*

Diversion to National Channel from Torrumbarry Weir pool was further increased this week from 2 600 to 3 000 ML/day, with another minor increase expected early next week. As a result, release from Torrumbarry Weir has been reduced from 8 400 to 8 000 ML/day.

Further downstream, flow at Euston (currently 11 400 ML/day) is forecast to reduce slightly over the coming week due to the effects of increased diversion rates at National Channel.

## *Lake Victoria*

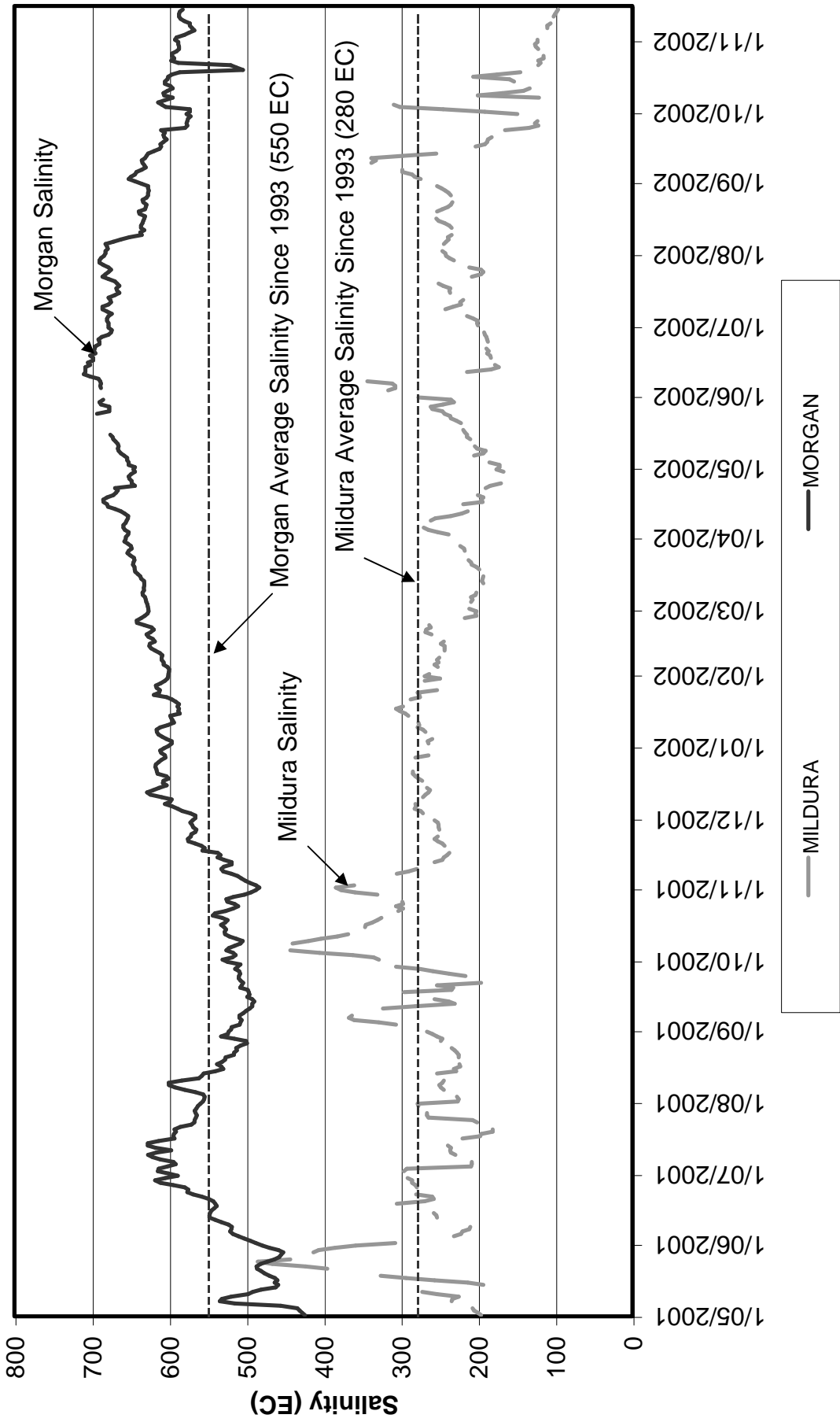
Storage in Lake Victoria rose by a further 15 GL to 494 GL or 73 % of capacity. Under continuing dry conditions, storage is forecast to continue rising until early December when the entitlement flow to South Australia will be increased from 6 000 to 7 000 ML/day. Storage is then forecast to progressively fall to very low levels by autumn 2003.

## *River salinity*

Salinity of the River Murray has remained relatively low at most locations along the Murray. Salinity at selected stations recorded on 13 November is as follows: Swan Hill, 60 (EC); Euston, 80; Mildura, 100; Morgan, 590; and Lake Albert, 1 770. River salinity levels at Mildura and Morgan since May 2001 are shown on the attached diagram.

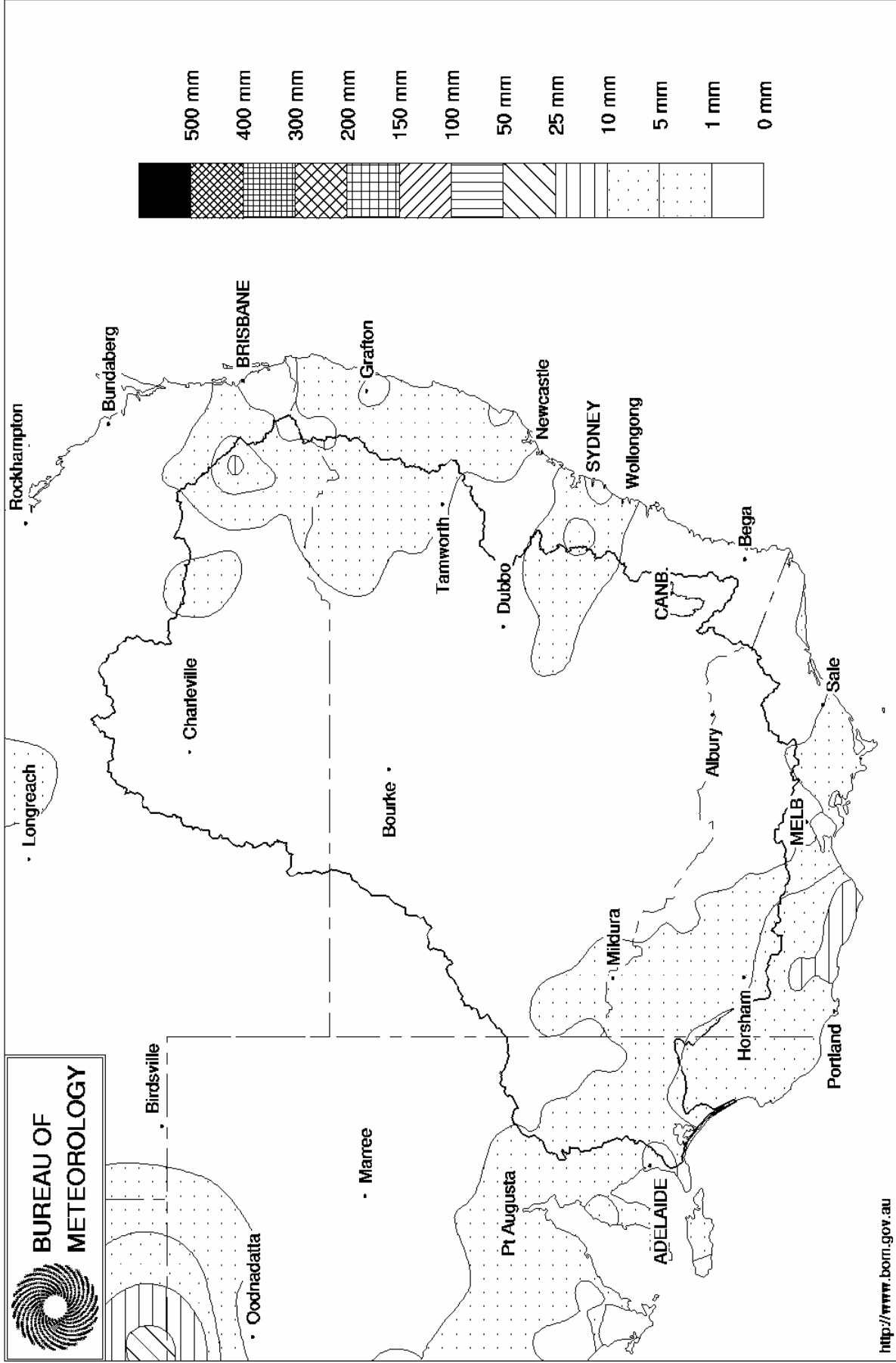
DAVID DOLE  
General Manager

# River Murray Salinity At Mildura & Swan Hill (May 2001 to November 2002)



# Murray Darling Rainfall Analysis (mm) Week Ending 13th November 2002

Product of the National Climate Centre



## Week ending Wednesday 13 Nov 2002

### 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	458.96	2 360	60%	80	2 280	-66
Hume Reservoir	192.00	3 038	174.68	616	20%	30	586	-55
Lake Victoria	27.00	680	25.30	494	73%	100	394	+15
Menindee Lakes		1 682 *		191	11%	640 #	0	-16
<b>Total</b>		<b>9 306</b>		<b>3 661</b>	<b>39%</b>	<b>850</b>	<b>3 260</b>	<b>-122</b>

\* Menindee surcharge capacity 1999 GL

% of Total Active MDBC Storage = **39%**

# NSW Menindee Lakes Reserve

### Major State Storages

Burrinjuck Reservoir	1 026	300	29%	3	297	-2
Blowering Reservoir	1 631	249	15%	24	225	-44
Eildon Reservoir	3 390	723	21%	100	623	-24

### Snowy Mountains Scheme

Snowy diversions for week ending 12-Nov-2002

Storage (GL)	Current storage	Weekly change	Diversion	This week	From 1 May 2002
Lake Eucumbene - Total	3 183	-8	Snowy-Murray	+12	229
Snowy-Murray Component	1 551	-3	Tooma-Tumut	+2	180
Target Storage	1 450		Nett Diversion	9.9	49
			Murray 1 Release	+16	463

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

New South Wales	This week	From 1 July 2002
Murray Irrig. Ltd (Net)	6.2	293.0
Wakool System loss	1.0	16.8
Western Murray Irrig.	1.0	8.4
Licensed Pumps	3.7	90.0
Lower Darling	5.4	64.9
<b>TOTAL</b>	<b>17.4</b>	<b>473.2</b>

Victoria	This week	From 1 July 2002
Yarrawonga Main Channel (net)	15.4	199
Torrumbarry System + Nyah (net)	19.1	392
Sunraysia Pumped Districts	5.8	47
Licensed pumps - GMW (Nyah+u/s)	1.7	22
Licensed pumps - SRW	5.8	57
<b>TOTAL</b>	<b>47.8</b>	<b>718</b>

### Flow to South Australia (GL)

Entitlement this month	180	
Flow this week	42.6	(6 100 ML/day)
Flow so far this month	79	
Flow last month	171	

### Salinity (EC)

(microsiemens/cm @ 25° C)

	Current	Average over the last week	Average since 1 August 2002
Swan Hill	60	60	100
Euston	80	80	150
Red Cliffs	90	90	170
Merbein	90	100	180
Burtundy (Darling)	700	750	850
Lock 9	130	140	230
Lake Victoria	260	310	350
Berri	350	360	400
Waikerie	-	-	570
Morgan	590	580	610
Mannum	630	640	660
Murray Bridge	720	710	730
Milang (Lake Alex.)	1 190	1 050	970
Poltalloch (Lake Alex.)	1 300	1 140	1 110
Meningie (Lake Alb.)	1 770	1 540	1 470
Goolwa Barrages	2 210	2 400	3 540



## Week ending Wednesday 13 Nov 2002

### River Levels and Flows

River Murray	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)				
Khancoban	-	-	-	2 190	F	3 390	2 180
Jingellic	4.0	1.60	208.12	4 120	F	4 480	3 560
Tallandoon ( Mitta Mitta River )	4.2	3.19	220.08	9 960	S	9 980	10 030
Heywoods	5.5	3.36	156.99	19 650	F	20 550	20 210
Doctors Point	5.5	3.48	151.95	20 000	F	21 130	20 840
Albury	4.3	2.54	149.98	-	-	-	-
Corowa	7.0	3.83	129.85	21 800	S	21 770	21 410
Yarrowonga Weir (d/s)	6.4	2.37	117.41	15 000	R	14 840	14 000
Tocumwal	6.4	2.90	106.74	14 800	S	14 550	13 930
Torrumbarry Weir (d/s)	7.3	2.60	81.15	7 960	S	8 090	8 340
Swan Hill	4.5	1.49	64.41	7 500	F	7 680	7 630
Wakool Junction	8.8	3.73	52.85	10 900	S	11 000	10 840
Euston Weir (d/s)	8.8	2.20	44.04	11 350	R	11 450	11 190
Mildura Weir (d/s)	-	-	31.13	7 980	F	8 100	8 090
Wentworth Weir (d/s)	7.3	3.14	27.90	8 720	R	8 600	8 550
Rufus Junction	-	3.29	17.69	5 500	F	5 620	5 410
Blanchetown (Lock 1 d/s)	-	-	-	3 060	S	3 040	3 080
<b>Tributaries</b>							
Kiewa at Bandiana	2.7	0.76	153.99	320	F	480	610
Ovens at Wangaratta	11.9	7.86	145.54	472	S	530	690
Goulburn at McCoys Bridge	9.0	1.19	92.61	416	S	380	390
Edward at Stevens Weir (d/s)	-	-	-	2 900	F	2 900	2 890
Edward at Liewah	-	2.97	58.35	2 690	S	2 750	2 740
Wakool at Stoney Crossing	-	0.87	55.36	1 570	R	1 540	1 610
Murrumbidgee at Balranald	5.0	0.40	56.36	170	F	210	220
Barwon at Mungindi	-	3.17	-	20	F	40	30
Darling at Bourke	-	3.93	-	20	S	50	110
Darling at Burtundy Rocks	-	0.66	-	40	S	10	0

<b>Natural Inflow to Hume</b> (ie pre Dartmouth & Snowy Mountains scheme)	2 010	3 140
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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	-0.18	-	No. 7 Rufus River	22.10	+0.11	+0.97
No. 26 Torrumbarry	86.05	+0.00	-	No. 6 Murtho	19.25	+0.03	+0.08
No. 15 Euston	47.60	+0.00	-	No. 5 Renmark	16.30	+0.03	+0.14
No. 11 Mildura	34.40	+0.04	+0.33	No. 4 Bookpurnong	13.20	+0.02	+0.54
No. 10 Wentworth	30.80	+0.04	+0.50	No.3 Overland Corner	9.80	+0.02	+0.14
No. 9 Kulnine	27.40	+0.03	+0.06	No. 2 Waikerie	6.10	+0.04	+0.10
No. 8 Wangumma	24.60	+0.01	+0.20	No. 1. Blanchetown	3.20	+0.00	+0.05

Murrumbidgee	FSL (m AHD)	relation to FSL	d/s gauge ht.		Flow (ML/day)
			local (m)	(m AHD)	
No. 7 Maude	75.40	-0.08	1.46	70.81	1730
No. 5 Redbank	66.90	-0.67	0.14	61.44	261

### Barrages

FSL = 0.75 m AHD

	Openings	Level	Status
Goolwa	128 openings	0.55	All closed
Mundoo	26 openings	0.63	All closed
Boundary Creek	6 openings	-	All closed
Ewe Island	111 gates	-	All closed
Tauwitchere	322 gates	0.63	All closed

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

