REPORT FOR THE WEEK ENDING

Wednesday, 28 September 2005

Our Ref : M2005/00066/prs 29 September, 2005

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Rainfall and inflows

Rainfall across the Basin was patchy this week, with the highest falls occurring in central NSW and along the River Murray in South Australia (*see attached map*). However on the evening of 28 September, heavy rainfall was recorded across the Ovens, Kiewa, Mitta Mitta and Murray catchments. This rainfall is expected to generate significant inflow to the upper storages over the coming week and the Bureau of Meteorology has released a moderate flood warning for the River Murray upstream of Hume Reservoir and a minor flood warning for the Mitta Mitta River upstream of Dartmouth Reservoir (http://www.bom.gov.au/hydro/flood/vic).

River Murray operations

Release from Dartmouth Dam remains at the minimum level of 200 ML/day and inflows to this storage over the past week have averaged 5 000 ML/day. Storage in Dartmouth Reservoir is now 2 273 GL (58% capacity). At Hume Reservoir, the storage level increased by 111 GL to 2 385 GL (78% capacity). Prior to this most recent rain, there was about a 20% chance of filling Hume Reservoir this season and an extremely low possibility of filling Dartmouth Reservoir. This will be reviewed next week once the magnitude of this latest inflow event is known.

The flow downstream of Yarrawonga Weir was temporarily reduced to 8 500 ML/day, but has since been increased to 12 800 ML/day in response to local rain and a reduction in irrigation diversions. At Stevens Weir, the flow in the Edward River is currently 3 300 ML/day and the Wakool River at Stoney Crossing peaked during the week at about 1 400 ML/day.

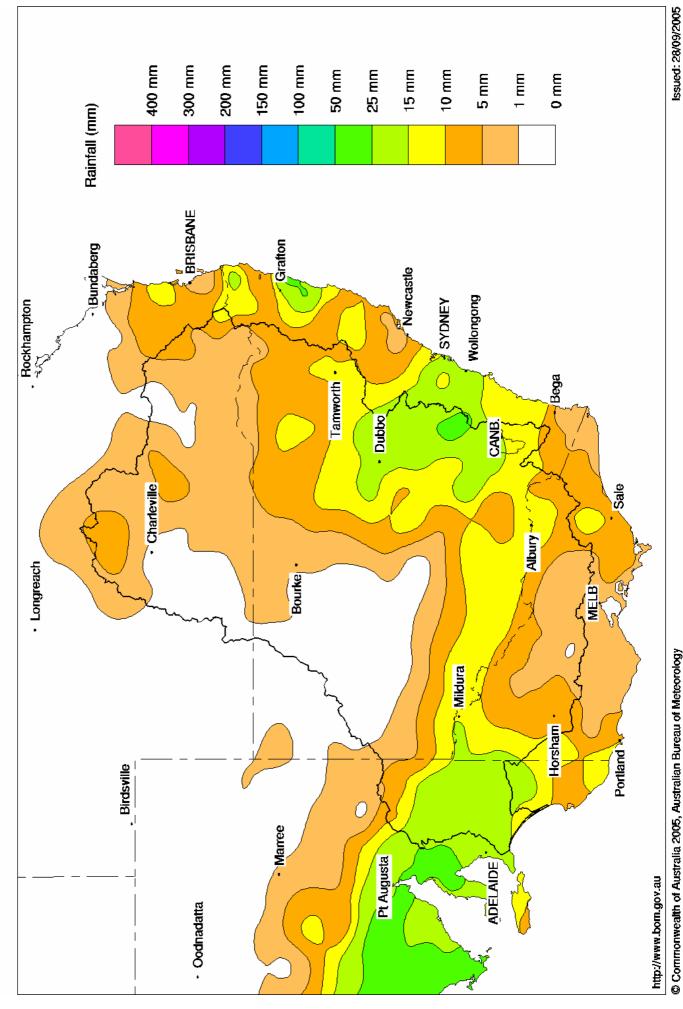
Inflow from the Murrumbidgee River temporarily increased to about 2 000 ML/day, which is expected to increase the flow downstream of Euston Weir to about 14 000 ML/day this weekend. Lake Victoria storage has increased to 655 GL (97%) and is expected to fill over the coming weeks.

As indicated last week, South Australia is currently receiving above entitlement flow. To maximise the environmental benefits of this higher flow, the level of several weir pools along the Lower Murray are being raised to 'boost' river levels as much as possible to water drought stressed River Red Gums and other floodplain vegetation. On September 29, Lock 1 upstream pool was 8 cm above Full Supply Level (FSL), Lock 4 was 22 cm above FSL, Lock 5 was 39 cm above FSL, Lock 6 was 15 cm above FSL and Lock 8 was 38 cm above FSL. Further increases to weir pool levels are planned for Locks 5 and 8.

The level of the Lower Lakes has gradually increased over the past week and it is currently 0.83 m AHD. Several barrage gates were closed during the week in order to gradually raise the lake level towards 0.85 m AHD, however gates remain open at Goolwa, Ewe Island, Boundary Creek and Tauwitchere Barrages. Since the opening of the Barrages on 21 July, it is estimated that approximately 230 GL has flowed from the Lower Lakes into the Coorong and Murray Mouth.

DAVID DREVERMAN General Manager

Murray Darling Rainfall Analysis (mm) Week Ending 28th September 2005 Product of the National Climate Centre



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Water in Storage

MDBC Storages	Full Supply Level	Full Supply Volume	Current Storage Level	Current Storage		Dead Storage	MDBC Active Storage	Change in Storage for the week
	(m AHD)	(GL)	(m AHD)	(GL)	%	(GL)	(GL)	(GL)
Dartmouth Reservoir	486.00	3 906	457.17	2 273	58%	80	2 193	+32
Hume Reservoir	192.00	3 038	188.54	2 385	78%	30	2 355	+111
Lake Victoria	27.00	677	26.82	655	97%	100	555	+14
Menindee Lakes		1 731 *		481	28%	() #	0	-1
Total		9 352		5 794	62%	-,-	5 103	+156

^{*} Menindee surcharge capacity 2050 GL

Major State Storages

Burrinjuck Reservoir	1 026	591	58%	3	588	+23
Blowering Reservoir	1 631	911	56%	24	887	+25
Eildon Reservoir	3 390	1 509	45%	100	1 409	+45

Snowy Mountains Scheme

Snowy diversions for week ending 27-Sep-2005

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Storage	Active storage (GL)	Weekly change (GL)	Diversion (GL)	This week	From 1 May 2005
Lake Eucumbene - Total	2 154	+26	Snowy-Murray	+5	326
Snowy-Murray Component	1 001	+28	Tooma-Tumut	+10	155
Target Storage	1 240		Nett Diversion	-4.7	171
			Murray 1 Release	+25	514

Major Diversions from Murray and Lower Darling (GL)

New South Wales	This week	From 1 July 2005
Murray Irrig. Ltd (Net)	24.6	110.0
Wakool System loss	0.0	9.3
Western Murray Irrig.	0.3	1.4
Licensed Pumps	11.8	37.4
Lower Darling	0.4	10.1
TOTAL	37.1	168.2

Victoria	This week	From 1 July 2005
Yarrawonga Main Channel (net)	3.1	12
Torrumbarry System + Nyah (net)	21.1	113
Sunraysia Pumped Districts	2.0	7
Licensed pumps - GMW (Nyah+u/s)	0.5	2
Licensed pumps - SRW	4.1	34
TOTAL	30.7	167

Flow to South Australia (GL)

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Entitlement this month	135	
Flow this week	72.2	(10 300 ML/day
Flow so far this month	220	
Flow last month	124	

Salinity (EC) (microsiemens/cm @ 25° C)

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	Current	Average over the last	Average since
	Odifent	week	1 August 2005
Swan Hill	80	80	110
Euston	110	120	140
Red Cliffs	120	140	150
Merbein	150	120	110
Burtundy (Darling)	530	540	530
Lock 9	150	140	150
Lake Victoria	170	180	190
Berri	210	220	280
Waikerie	-	340	440
Morgan	340	360	440
Mannum	500	500	470
Murray Bridge	470	480	460
Milang (Lake Alex.)	1 380	1 380	1 390
Poltalloch (Lake Alex.)	1 080	1 090	1 030
Meningie (Lake Alb.)	2 160	2 170	2 070
Goolwa Barrages	1 550	1 610	2 100



[%] of Total Active MDBC Storage = **60%**

[#] NSW takes control of Menindee Lakes when storage falls below 480 GL, and control reverts to MDBC when storage next reaches 640 GL

Week ending Wednesday 28 Sep 2005

River Levels and Flows

	Minor Flood stage	Gauge	height	Flow	Trend	Average flow this week	Average flow last week
River Murray	(m)	local (m)	(m AHD)	(ML/day)		(ML/day)	(ML/day)
Khancoban	-	-	-	6 420	R	5 730	5 710
Jingellic	4.0	2.58	209.10	12 960	R	12 720	17 590
Tallandoon (Mitta Mitta River)	4.2	1.88	218.77	2 250	F	2 520	3 710
Heywoods	5.5	1.24	154.87	700	F	1 630	600
Doctors Point	5.5	2.02	150.49	4 150	F	4 520	5 090
Albury	4.3	1.07	148.51	-	-	-	-
Corowa	7.0	1.45	127.47	4 860	F	4 560	6 170
Yarrawonga Weir (d/s)	6.4	1.69	116.73	9 500	R	9 310	18 060
Tocumwal	6.4	2.12	105.96	9 080	F	10 820	20 260
Torrumbarry Weir (d/s)	7.3	2.83	81.38	8 780	F	9 250	10 620
Swan Hill	4.5	1.69	64.61	9 040	R	9 320	10 300
Wakool Junction	8.8	-	-	12 590	F	13 130	15 040
Euston Weir (d/s)	8.8	2.35	44.19	12 810	R	12 850	15 480
Mildura Weir (d/s)		-	31.30	11 090	F	11 580	18 020
Wentworth Weir (d/s)	7.3	3.32	28.08	10 830	R	10 830	13 050
Rufus Junction	-	3.90	20.83	9 080	F	9 610	8 540
Blanchetown (Lock 1 d/s)	-	-	-	10 300	R	8 440	7 670
Tributaries							
Kiewa at Bandiana	2.7	2.43	155.66	3 960	R	3 280	6 760
Ovens at Wangaratta	11.9	9.77	147.45	6 219	F	7 240	12 910
Goulburn at McCoys Bridge	9.0	1.40	92.82	755	F	880	1 920
Edward at Stevens Weir (d/s)	-	-	-	3 310	F	3 370	3 080
Edward at Liewah	-	2.82	58.20	2 370	F	2 520	3 060
Wakool at Stoney Crossing	-	0.79	55.28	1 380	S	1 320	860
Murrumbidgee at Balranald	5.0	2.24	58.20	1 680	F	990	240
Barwon at Mungindi	-	3.23	-	90	S	80	30
Darling at Bourke	-	4.10	-	371	R	240	250
Darling at Burtundy Rocks	-	0.70	-	76	S	90	100

Natural Inflow to Hume (ie pre Dartmouth & Snowy Mountains scheme)	21 880	35 500
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Weirs and Locks

Weirs and Loc	ks	Pool levels above or below design level					
Murray	FSL (m AHD)	u/s	d/s		FSL (m AHD)	u/s	d/s
Yarrawonga	124.90	+0.03	-	No. 7 Rufus River	22.10	+0.17	+1.60
No 26 Torrumbarry	86.05	-0.01	-	No. 6 Murtho	19.25	+0.14	+0.59
No. 15 Euston	47.60	-0.01	-	No. 5 Renmark	16.30	+0.39	+0.52
No. 11 Mildura	34.40	+0.02	+0.50	No. 4 Bookpurnong	13.20	+0.24	+1.24
No. 10 Wentworth	30.80	-0.02	+0.68	No.3 Overland Corner	9.80	+0.08	+0.49
No. 9 Kulnine	27.40	+0.01	+0.49	No. 2 Waikerie	6.10	+0.07	+0.45
No. 8 Wangumma	24.60	+0.37	+0.50	No 1. Blanchetown	3.20	+0.09	+0.13

Murrumbidgee	FSL	relation	d/s gauge ht.		Flow
	(m AHD)	to FSL	local (m)	(m AHD)	(ML/day)
No. 7 Maude	75.40	-0.29	1.04	70.39	882
No. 5 Redbank	66.90	+0.11	0.31	61.61	426

Lower Lakes

 $FSL = 0.75 \, \text{m}$ AHD

	(m AHD)
Lake Alexandrina average level for the past 5 days	0.83

Barrages

- a a.g. c			
	Openings	Level (m AHD)	Status
Goolwa	128 openings	0.98	3
Mundoo	26 openings	0.90	All closed
Boundary Creek	6 openings	-	1
Ewe Island	111 gates	-	1
Tauwitchere	322 gates	0.96	4

