



RIVER MURRAY WEEKLY REPORT

FOR THE WEEK ENDING WEDNESDAY, 8 JANUARY 2014

Trim Ref: D14/1475

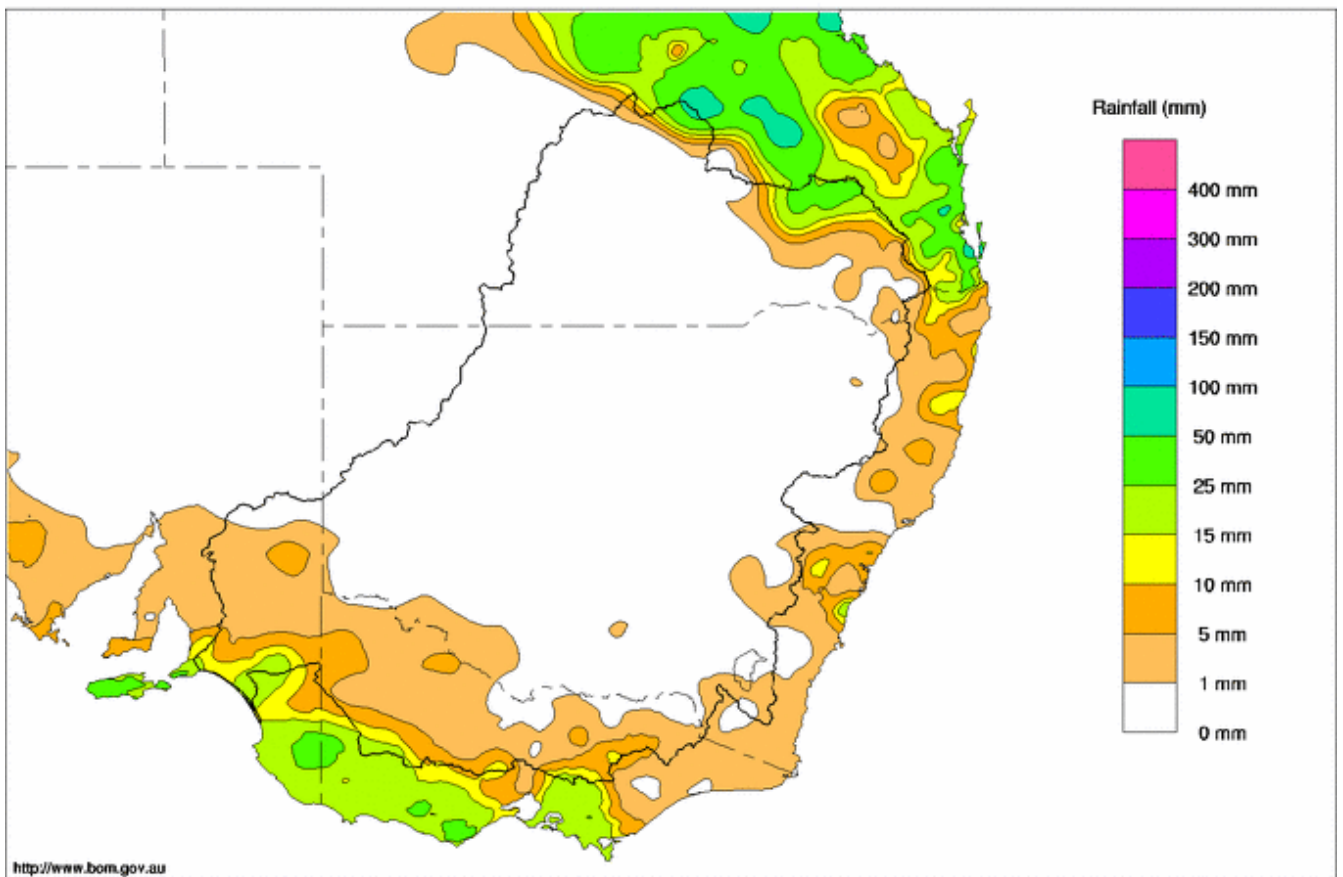
Rainfall and Inflows

The Murray-Darling Basin was mostly hot and dry this week, with only the southern districts and far north-east of the Basin receiving limited rainfall (Map 1). Highest reported totals in Queensland included 19mm at Miles and 11mm at Chinchilla. In the southern Basin, there was 24 mm at Meningie, 17 mm at Mt Buller and 11mm at Murrayvale.

Due to the lack of rainfall, tributaries in the upper Murray catchment have continued to recede. On the Mitta Mitta River, the flow at Hinnomunjie Bridge decreased from 320 to 260 ML/day. On the upper Murray, the flow at Biggara fell from 600 to 540 ML/day and at Wangaratta, the flow on the Ovens River receded from 550 to 400 ML/day.

Murray-Darling Rainfall Totals (mm) Week Ending 8th January 2014

Product of the National Climate Centre



Map 1 - Murray-Darling Basin rainfall for the week ending 8 January 2014 (Source: Bureau of Meteorology)

River Operations

MDBA active storage decreased by 175 GL this week and is currently 6,281 GL or 73% capacity. At Dartmouth Reservoir, the storage volume decreased by 27 GL to 3,657 GL (95% capacity). The release, measured at the Colemans gauge, was increased on Monday 6 January from 4,000 to 6,000 ML/day. A reduction to 5,500 ML/day is currently planned for Monday 13 January. These



releases form part of “harmony” transfers between Dartmouth and Hume Reservoirs, which aim to reduce the risk of Dartmouth Reservoir spilling in the coming winter-spring and improve summer water levels in Hume Reservoir, while still ensuring the security of future water supplies.

At Hume Reservoir, the storage volume decreased by 92 GL to 2,056 GL (68% capacity). The release averaged around 17,300 ML/day during the week and was increased to target 19,000 ML/day at Doctors Point in response to higher irrigation demands driven by dry conditions throughout the Murray.

At Yarrawonga Weir, the total diversion at the irrigation offtakes remained steady this week at 55 GL. Diversions are anticipated to increase towards the end of next week if forecast hot temperatures eventuate. The pool level in Lake Mulwala is currently 124.78 m AHD and the downstream release is steady at around 9,700 ML/day.

On the Edward River system, flow through the Edward and Gulpa Creek offtakes averaged 1,600 ML/day and 600 ML/day respectively. For the next few weeks, flow through Edward River offtake is expected to remain close to 1,600 ML/day, while a flow of 600 ML/day is being targeted for Gulpa Creek to supply environmental water to the Reed Beds wetland for the final stages of a bird breeding event. Downstream at Toonalook, flow in the Edward River remains steady at around 2,400 ML/day.

At Stevens Weir, the downstream flow is currently 1,470 ML/day and slowly receding to about 1,200 ML/day. Diversions to the Wakool River are about 130 ML/day, with about 400 ML/day flowing into Yallakool Creek. Wakool Main Canal diversions are currently 1,400 ML/day but may rise in the coming week in response to forecast warmer temperatures. The flow in the Edward River at Moulamein reached a peak of 1,675 ML/day throughout the week and is now slowly receding with the flow currently at about 1,500 ML/day.

On the Goulburn River at McCoys Bridge, the flow has held steady at around 950 ML/day. At Torrumbarry Weir, the flow downstream has receded to about 5,500 ML/day and is expected to continue receding towards 5,000 ML/day by mid-January.

At Balranald on the Murrumbidgee River, the flow peaked at 1,000 ML/day and is expected to recede to around 300 ML/day over the coming week. Downstream on the Murray at Euston, the flow is currently 6,800 ML/day and is expected to recede below 6,000 ML/day by mid-January.

At Mildura Weir, flow has been steadily receding and is currently 5,750 ML/day. Flows at Mildura Weir are expected to remain above 5,000 ML/day over the coming week. At Wentworth Weir, the flow is 9,300 ML/day and expected to recede to about 8,000 ML/day over the next week.

Total storage in Menindee Lakes fell by 59 GL over the last week to 636 GL (37% capacity). Release from the lakes is currently around 2,650 ML/day at Weir 32 and continues to be reduced gradually towards minimum rates.

At Lake Victoria, the storage volume increased by 4 GL to 606 GL (90% capacity). The flow to South Australia has been steadily receding during the last fortnight and is now at about 6,900 ML/day. Flows to SA are expected to remain close to normal entitlement flow at around 7,300 ML/day throughout the remainder of January 2014.

At the Lower Lakes, the 5-day average level for Lake Alexandrina is 0.74 m AHD and the estimated release through the barrages is 800 ML/day.

For media inquiries contact the Media Officer on 02 6279 0141

DAVID DREVERMAN
Executive Director, River Management



Water in Storage

Week ending Wednesday 08 Jan 2014

MDBA Storages	Full Supply Level	Full Supply Volume (GL)	Current Storage Level	Current Storage		Dead Storage (GL)	Active Storage (GL)	Change in Total Storage for the Week (GL)
	(m AHD)		(m AHD)	(GL)	%			
Dartmouth Reservoir	486.00	3 856	482.92	3 657	95%	71	3 586	-27
Hume Reservoir	192.00	3 005	186.75	2 056	68%	23	2 033	-92
Lake Victoria	27.00	677	26.41	606	90%	100	506	+4
Menindee Lakes		1 731*		636	37%	(480 #)	156	-59
Total		9 269		6 955	75%	--	6 281	-175
Total Active MDBA Storage							73% ^	

Major State Storages

Burrinjuck Reservoir	1 026	543	53%	3	540	-19
Blowering Reservoir	1 631	1 302	80%	24	1 278	-64
Eildon Reservoir	3 334	2 881	86%	100	2 781	-28

* Menindee surcharge capacity – 2050 GL

** All Data is rounded to nearest GL **

NSW takes control of Menindee Lakes when storage falls below 480 GL, and control reverts to MDBA when storage next reaches 640 GL

^ % of total active MDBA storage

Snowy Mountains Scheme

Snowy diversions for week ending 07 Jan 2014

Storage	Active Storage (GL)	Weekly Change (GL)	Diversions (GL)	This Week	From 1 May 2013
Lake Eucumbene - Total	1 571	n/a	Snowy-Murray	+0	591
Snowy-Murray Component	762	n/a	Tooma-Tumut	+0	234
Target Storage	1 520		Net Diversion	0	357
			Murray 1 Release	+0	867

Major Diversions from Murray and Lower Darling (GL) *

New South Wales	This Week	From 1 July 2013	Victoria	This Week	From 1 July 2013
Murray Irrig. Ltd (Net)	44.1	630	Yarrowonga Main Channel (net)	10	184
Wakool Sys Allowance	1.3	13	Torrumbarry System + Nyah (net)	14	260
Western Murray Irrigation	1.0	14	Sunraysia Pumped Districts	3.5	66
Licensed Pumps	6.5	121	Licensed pumps - GMW (Nyah+u/s)	1.1	138
Lower Darling	5.5	151	Licensed pumps - LMW	16	154
TOTAL	58.4	929	TOTAL	44.6	802

* Figures derived from estimates and monthly data. Please note that not all data may have been available at the time of creating this report.

** All data above is rounded to nearest 100 ML for weekly data and nearest GL for cumulative data**

Flow to South Australia (GL)

* Flow to SA will be greater than normal entitlement for this month due to the delivery of additional environmental water.

Entitlement this month	217.0 *	
Flow this week	60.2	(8 600 ML/day)
Flow so far this month	70.9	
Flow last month	374.1	

Salinity (EC) (microSiemens/cm at 25° C)

	Current	Average over the last week	Average since 1 August 2013
Swan Hill	30	50	90
Euston	80	80	100
Red Cliffs	100	90	110
Merbein	100	100	120
Burtundy (Darling)	540	540	520
Lock 9	230	240	150
Lake Victoria	220	210	260
Berri	240	230	260
Waikerie	250	270	310
Morgan	260	270	300
Mannum	270	270	340
Murray Bridge	260	260	360
Milang (Lake Alex.)	760	710	650
Poltalloch (Lake Alex.)	500	490	540
Meningie (Lake Alb.)	2 700	2 680	2 610
Goolwa Barrages	1 060	920	1 430



River Levels and Flows

Week ending Wednesday 08 Jan 2014

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	-	-	-	430	F	440	530
Jingellic	4.0	1.15	207.67	710	F	850	1 510
Tallandoon (Mitta Mitta River)	4.2	2.80	219.69	6 010	R	4 650	4 100
Heywoods	5.5	3.41	157.04	18 800	R	17 300	16 660
Doctors Point	5.5	3.35	151.82	19 070	R	17 500	16 900
Albury	4.3	2.41	149.85	-	-	-	-
Corowa	3.8	3.52	129.54	17 590	R	16 980	17 040
Yarrowonga Weir (d/s)	6.4	1.59	116.63	9 600	F	9 800	10 300
Tocumwal	6.4	2.25	106.09	9 420	S	9 700	10 000
Torrumbarry Weir (d/s)	7.3	1.96	80.51	5 490	F	5 650	6 710
Swan Hill	4.5	1.17	64.09	5 410	F	5 710	8 270
Wakool Junction	8.8	3.03	52.15	7 690	R	7 930	11 560
Euston Weir (d/s)	8.8	1.46	43.30	6 870	S	7 800	12 260
Mildura Weir (d/s)	-	-	-	-	F	-	-
Wentworth Weir (d/s)	7.3	2.98	27.74	9 330	F	10 600	15 620
Rufus Junction	-	3.46	20.39	6 280	F	7 990	11 560
Blanchetown (Lock 1 d/s)	-	0.92	-	5 990	F	6 760	9 860
Tributaries							
Kiewa at Bandiana	2.7	0.85	154.08	350	R	320	470
Ovens at Wangaratta	11.9	7.91	145.59	410	F	510	730
Goulburn at McCoys Bridge	9.0	1.48	92.90	940	F	980	1 010
Edward at Stevens Weir (d/s)	-	1.62	81.39	1 470	F	1 590	2 130
Edward at Liewah	-	2.26	57.64	1 630	R	1 450	1 170
Wakool at Stoney Crossing	-	1.66	55.15	1 050	S	1 000	1 030
Murrumbidgee at Balranald	5.0	1.41	57.37	1 010	F	670	310
Barwon at Mungindi	-	2.83	-	0	F	20	130
Darling at Bourke	-	3.98	-	30	R	20	30
Darling at Burtundy Rocks	-	2.10	-	3 150	S	3 200	3 260

Natural Inflow to Hume	1 950	2 530
------------------------	-------	-------

(i.e. Pre Dartmouth & Snowy Mountains scheme)

Weirs and Locks Pool levels above or below Full Supply Level (FSL)

Murray	FSL (m AHD)	u/s	d/s		FSL (m AHD)	u/s	d/s
Yarrowonga	124.90	-0.12	-	No. 7 Rufus River	22.10	-0.01	+1.16
No. 26 Torrumbarry	86.05	+0.00	-	No. 6 Murtho	19.25	-0.00	+0.22
No. 15 Euston	47.60	+0.00	-	No. 5 Renmark	16.30	+0.00	+0.23
No. 11 Mildura	34.40	+0.01	+0.11	No. 4 Bookpurnong	13.20	+0.09	+0.82
No. 10 Wentworth	30.80	+0.01	+0.34	No. 3 Overland Corner	9.80	+0.00	+0.32
No. 9 Kulnine	27.40	-0.07	-0.04	No. 2 Waikerie	6.10	+0.08	+0.27
No. 8 Wangumma	24.60	-0.10	+0.16	No. 1 Blanchetown	3.20	+0.04	+0.17

Lower Lakes FSL = 0.75 m AHD

Lake Alexandrina average level for the past 5 days (m AHD)	0.74
--	------

Barrages

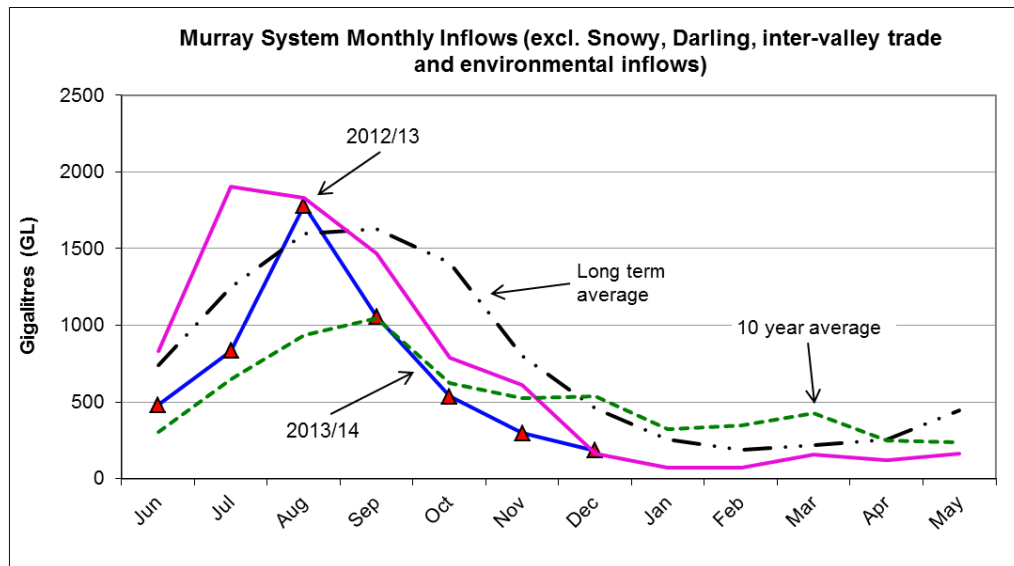
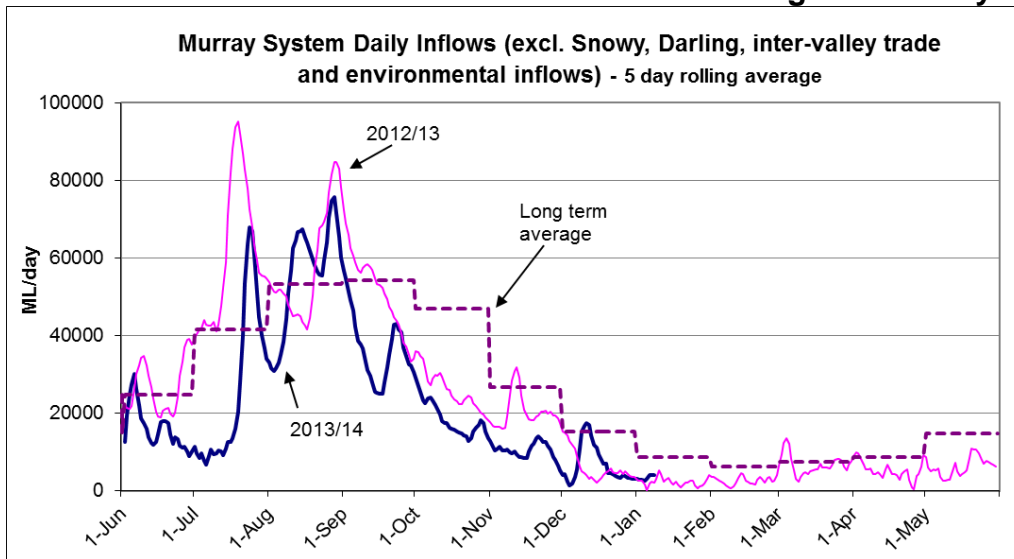
Fishways at Barrages

	Openings	Level (m AHD)	No. Open	Rock Ramp	Vertical Slot
Goolwa	128 openings	0.80	1	-	Open
Mundoo	26 openings	0.75	All closed	-	-
Boundary Creek	6 openings	-	0.1	-	-
Ewe Island	111 gates	-	All closed	-	-
Tauwichee	322 gates	0.73	2	Open	Open

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



Week ending Wednesday 08 Jan 2014



State Allocations (as at 08 Jan 2014)

NSW - Murray Valley

High security	100%
General security	100%

Victorian - Murray Valley

High reliability	100%
Low reliability	0%

NSW - Murrumbidgee Valley

High security	95%
General security	52%

Victorian - Goulburn Valley

High reliability	100%
Low reliability	0%

NSW - Lower Darling

High security	100%
General security	100%

South Australia - Murray Valley

High security	100%
---------------	------

NSW : <http://www.water.nsw.gov.au/Water-management/Water-availability/Water-allocations/Water-allocations-summary/water-allocations-summary/default.aspx>
 VIC : <http://www.g-mwater.com.au/water-resources/allocations/current.asp>
 SA : <http://www.environment.sa.gov.au/managing-natural-resources/river-murray>