



RIVER MURRAY WEEKLY REPORT

FOR THE WEEK ENDING WEDNESDAY, 18 JUNE 2014

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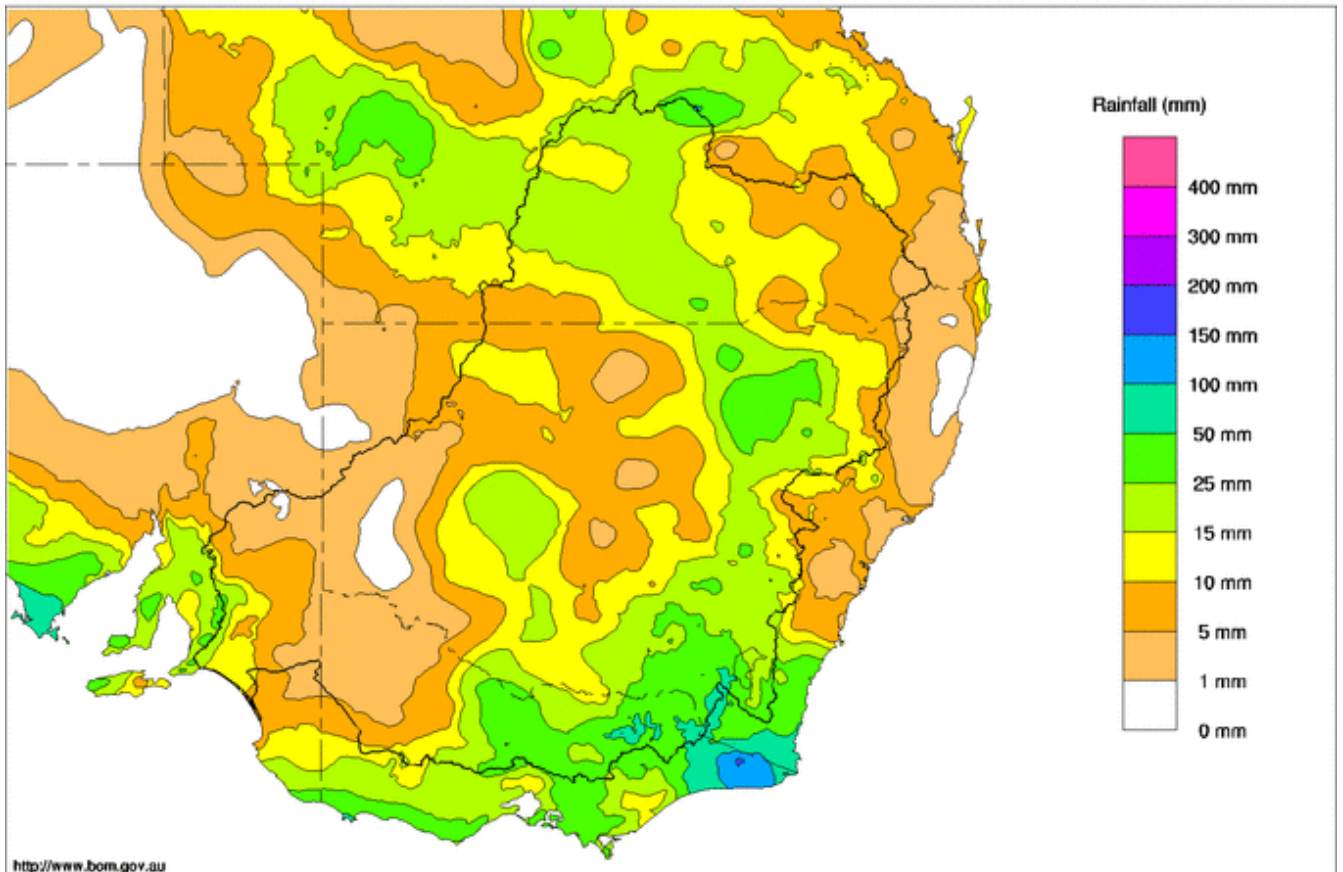
Rainfall and Inflows

Rainfall was widespread throughout the Murray-Darling Basin this week, due to a cold front that produced a large rain-band that extended in an arc from Queensland right through to southern Victoria (Map 1). A low pressure system off the New South Wales coast continued to produce further rain and snow across the Snowy Mountains towards the end of the week.

Highest weekly rainfall totals were recorded in the south-eastern ranges, including 113mm at Mt Buffalo (Vic) and 65 mm at Perisher Valley (NSW). Other notable totals included 61 mm at Myrtleford (Vic) on the Ovens River, 61 mm at Cheshunt (Vic) on the King River, and 25 mm at Carnavon Station (Qld) in the far north of the Basin.

Murray-Darling Rainfall Totals (mm) Week Ending 18th June 2014

Product of the National Climate Centre



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Map 1 - Murray-Darling Basin rainfall for the week ending 11 June 2014 (Source: Bureau of Meteorology).

Stream flows in the upper Murray system tributaries peaked following last weekend's rain and are now slowly receding. On the upper River Murray the flow at Biggara rose to 1,500 ML/day and is now 1,100 ML/day. On the Mitta Mitta River, the flow at Hinnomunjie Bridge peaked at 1,400 ML/day and is currently 900 ML/day. On the Ovens River, the flow at Wangaratta reached 3,900 ML/day and is now around 3,700 ML/day.



River Operations

- Tributary inflows increase following further rain;
- Hume and Dartmouth storage levels gradually rising;
- Flow to South Australia modified to assist Lake Victoria works.

MDBA total storage rose by 52 GL this week, with the active storage now 5,119 GL or 61%.

At **Dartmouth** Reservoir, the storage volume increased by 7 GL to 3,466 GL (90% capacity). The release, measured at Colemans gauge, has increased from 200 ML/day to 800 ML/day due to entitlement releases by AGL Hydro for electricity generation.

At **Hume** Reservoir, the storage increased 50 GL to 1,404 GL (47% capacity). The release remains steady at 600 ML/day. Doctors Point gauge, which is located on the Murray downstream of the Kiewa River junction, rose this week to 2,200 ML/day due to increased tributary flows from the Kiewa catchment.

At **Yarrowonga** Weir, the downstream release was increased from 4,500 ML/day to 5,500 ML/day to reduce the Lake Mulwala pool level ahead of last weekend's rain. Once the rain had passed, the release was steadily reduced to around 4,000 ML/day, which has raised the pool to 124.85 m AHD. The release will increase over coming days to around 5,500 ML/day as further inflows enter Lake Mulwala.

On the **Edward** River system, the combined flow through the Edward River and Gulpa Creek offtakes is steady at around 1,000 ML/day. Due to works downstream of Stevens Weir, the majority of flow in the Edward River is being diverted through Colligen and Yallakool Creeks. Colligen Creek is currently steady at 550 ML/day whilst Yallakool Creek is flowing at around 190 ML/day.

On the **Goulburn** River, the flow at McCoys Bridge is 1,600 ML/day and forecast to rise to 2,200 ML/day in coming days as flows from the recent rain progress down the catchment. At **Torrumbarry** Weir, diversions at National Channel are steady at 700 ML/day with this water supplying an environmental watering event in Gunbower Forest. The downstream flow at Torrumbarry is currently 5,400 ML/day.

Following rain in the **Murrumbidgee** catchment, the flow at Balranald rose to 850 ML/day during the week before receding to 600 ML/day. Downstream on the Murray at **Euston**, the flow is steady at around 6,600 ML/day.

At **Menindee Lakes**, the storage volume decreased by 2 GL and is now 386 GL (22% capacity). The release at Weir 32 is 200 ML/day and the flow downstream at Burtundy is 160 ML/day.

The flow at **Wentworth** Weir increased throughout the week from 3,000 ML/day to 6,000 ML/day. Flows at Wentworth over the coming week are forecast to be around 5,500 ML/day. At **Lake Victoria**, the storage volume has decreased by 3 GL to 443 GL (65% capacity, 24.95 m AHD).

Following consultation between MDBA and **South Australia**, the targeted daily flow across the border has been modified from 3,000 ML/day to 4,000 ML/day for the final 15 days in June. This will reduce inflows into Lake Victoria, where essential works on the outlet structure are aided by lower storage levels. The additional 15 GL that will be delivered to South Australia in June is planned to be deducted from July and August entitlement flows.

At the **Lower Lakes**, the five-day average level in Lake Alexandrina is 0.65 m AHD. Releases through the barrages have been impacted over the past week due to high tides and large swell. The current release is estimated to be around 1,200 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 18 Jun 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	479.86	3 466	90%	71	3 395	+7
Hume Reservoir	192.00	3 005	182.22	1 404	47%	23	1 381	+50
Lake Victoria	27.00	677	24.95	443	65%	100	343	-3
Menindee Lakes		1 731*		386	22%	(- -) #	0	-2
Total		9 269		5 699	61%	- -	5 119	+52
Total Active MDBA Storage							61% ^	

Major State Storages

Burrinjuck Reservoir	1 026	595	58%	3	592	+9
Blowering Reservoir	1 631	952	58%	24	928	+35
Eildon Reservoir	3 334	2 334	70%	100	2 234	+12

* 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 17 Jun 2014

Storage	Active Storage (GL)	Weekly Change (GL)	Diversions (GL)	This Week	From 1 May 2014
Lake Eucumbene - Total	1 540	n/a	Snowy-Murray	+13	96
Snowy-Murray Component	839	n/a	Tooma-Tumut	+9	40
Target Storage	1 240		Net Diversions	4	56
			Murray 1 Release	+19	133

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)	0.0	1080	Yarrowonga Main Channel (net)	0	312
Wakool Sys Allowance	-0.4	52	Torrumbarry System + Nyah (net)	7.3	559
Western Murray Irrigation	0.2	27	Sunraysia Pumped Districts	0.6	111
Licensed Pumps	1.4	243	Licensed pumps - GMW (Nyah+u/s)	5.3	179
Lower Darling	0.1	198	Licensed pumps - LMW	1.5	300
TOTAL	1.3	1600	TOTAL	14.7	1461

* 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	90.0 *	
Flow this week	24.9	(3 600 ML/day)
Flow so far this month	57.6	
Flow last month	114.7	

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

	Current	Average over the last week	Average since 1 August 2013
Swan Hill	120	110	100
Euston	120	140	110
Red Cliffs	180	190	120
Merbein	230	210	130
Burtundy (Darling)	640	630	510
Lock 9	220	220	180
Lake Victoria	230	230	240
Berri	410	380	280
Waikerie	430	440	330
Morgan	440	410	330
Mannum	370	360	360
Murray Bridge	450	430	380
Milang (Lake Alex.)	690	690	680
Poltalloch (Lake Alex.)	610	600	570
Meningie (Lake Alb.)	2 480	2 450	2 640
Goolwa Barrages	1 380	1 410	1 290



River Levels and Flows

Week ending Wednesday 18 Jun 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	-	-	-	5 060	F	3 690	3 770
Jingellic	4.0	2.14	208.66	7 900	R	5 910	6 740
Tallandoon (Mitta Mitta River)	4.2	1.49	218.38	670	F	660	1 300
Heywoods	5.5	1.30	154.93	600	S	600	650
Doctors Point	5.5	1.68	150.15	2 210	R	2 010	2 100
Albury	4.3	0.80	148.24	-	-	-	-
Corowa	3.8	0.86	126.88	2 690	F	2 360	2 580
Yarrowonga Weir (d/s)	6.4	0.80	115.84	4 000	S	4 690	4 580
Tocumwal	6.4	1.41	105.25	4 390	F	4 940	4 770
Torrumbarry Weir (d/s)	7.3	1.95	80.50	5 460	F	5 320	5 820
Swan Hill	4.5	1.09	64.01	4 940	S	5 150	4 150
Wakool Junction	8.8	2.63	51.75	6 300	F	6 400	4 660
Euston Weir (d/s)	8.8	1.43	43.27	6 680	S	6 160	4 290
Mildura Weir (d/s)	-	-	-	-	-	-	-
Wentworth Weir (d/s)	7.3	3.04	27.80	6 020	R	4 030	3 300
Rufus Junction	-	3.04	19.97	3 940	R	2 790	2 240
Blanchetown (Lock 1 d/s)	-	0.60	-	3 000	R	2 590	2 590
Tributaries							
Kiewa at Bandiana	2.7	1.76	154.99	1 640	R	1 400	1 540
Ovens at Wangaratta	11.9	9.14	146.82	3 750	R	2 930	2 780
Goulburn at McCoys Bridge	9.0	1.89	93.31	1 650	R	1 550	2 830
Edward at Stevens Weir (d/s)	-	-	-	320	S	300	460
Edward at Liewah	-	1.24	56.62	660	R	490	420
Wakool at Stoney Crossing	-	1.49	54.98	560	R	470	470
Murrumbidgee at Balranald	5.0	0.98	56.94	610	F	690	460
Barwon at Mungindi	-	3.12	-	0	F	0	20
Darling at Bourke	-	4.03	-	110	S	110	130
Darling at Burtundy Rocks	-	0.75	-	140	S	150	160

Natural Inflow to Hume (i.e. Pre Dartmouth & Snowy Mountains scheme)	7 320	7 470
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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	-0.05	-	No. 7 Rufus River	22.10	+0.05	+0.73
No. 26 Torrumbarry	86.05	+0.00	-	No. 6 Murtho	19.25	+0.07	+0.04
No. 15 Euston	47.60	+0.20	-	No. 5 Renmark	16.30	+0.08	+0.09
No. 11 Mildura	34.40	+0.04	+0.10	No. 4 Bookpurnong	13.20	+0.01	+0.46
No. 10 Wentworth	30.80	+0.01	+0.40	No. 3 Overland Corner	9.80	+0.12	+0.33
No. 9 Kulnine	27.40	+0.16	+0.55	No. 2 Waikerie	6.10	+0.14	+0.26
No. 8 Wangumma	24.60	+0.56	+0.12	No. 1 Blanchetown	3.20	+0.18	-0.15

Lower Lakes FSL = 0.75 m AHD

Lake Alexandrina average level for the past 5 days (m AHD)	0.65
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Barrages

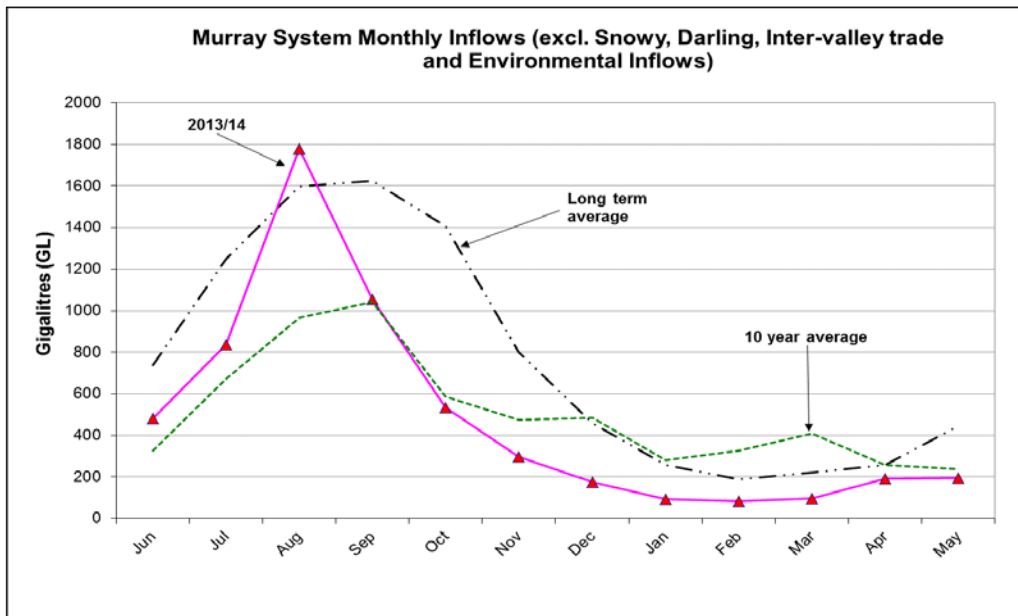
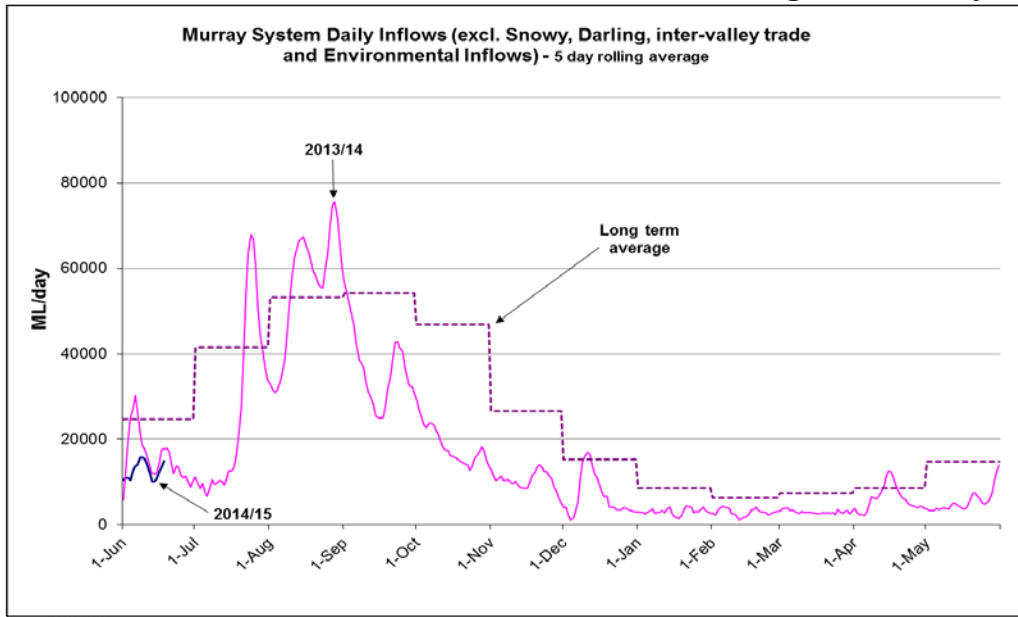
Fishways at Barrages

	Openings	Level (m AHD)	No. Open	Rock Ramp	Vertical Slot
Goolwa	128 openings	0.69	All closed	-	Open
Mundoo	26 openings	0.67	All closed	-	-
Boundary Creek	6 openings	-	0.1	-	-
Ewe Island	111 gates	-	All closed	-	-
Tauwichee	322 gates	0.70	5	Open	Open

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



Week ending Wednesday 18 Jun 2014



State Allocations (as at 18 Jun 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	63%

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%
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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>