



RIVER MURRAY WEEKLY REPORT

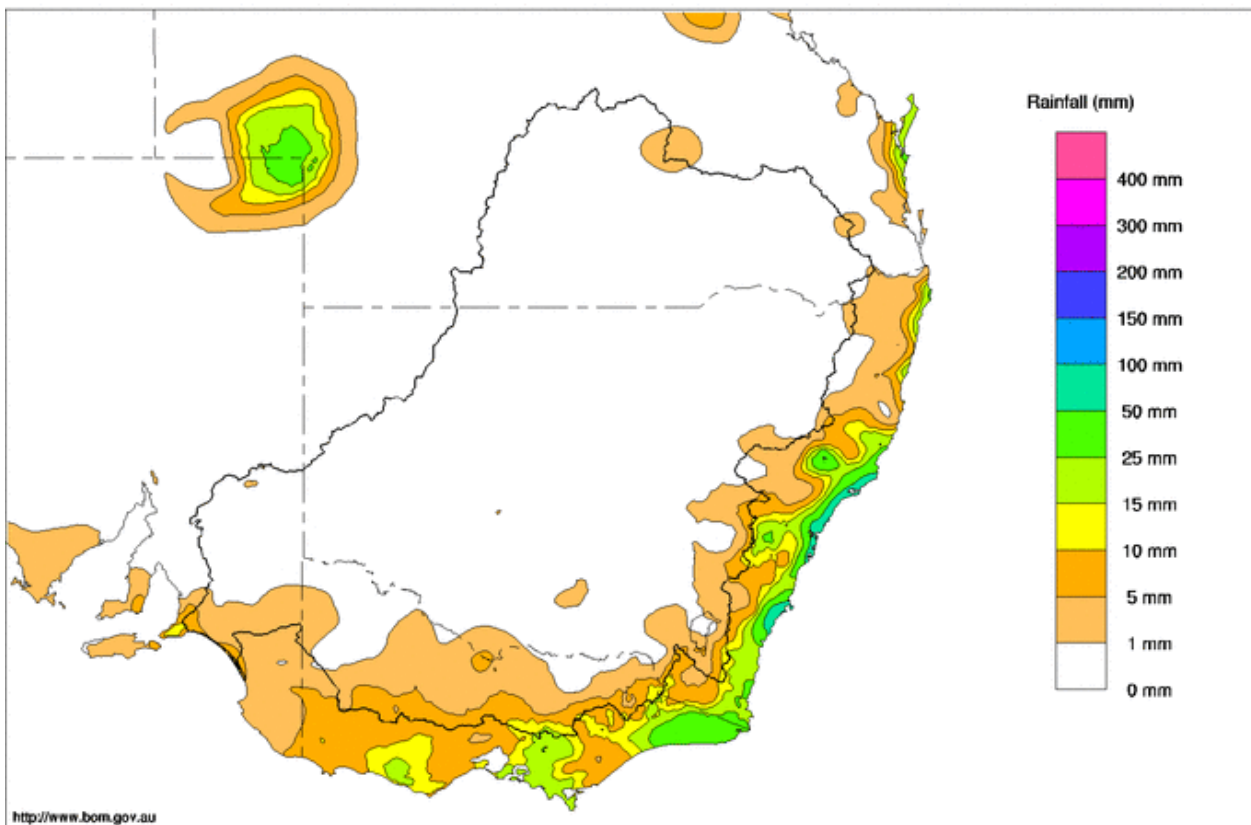
FOR THE WEEK ENDING WEDNESDAY, 11 JUNE 2014

Trim Ref: D14/19525

Rainfall and Inflows

Rain this week was confined mostly to the southern and eastern fringes of the Murray-Darling Basin. It was associated with a cold front and trough in the Tasman Sea that generated persistent south-easterly winds along the Victorian and NSW coasts. This resulted in coastal showers but only light rainfall along and adjacent to the Great Divide. The vast bulk of the Basin remained dry. Highest reported weekly totals included 16 mm at Mt Buller and 10 mm at Falls Creek and Kilmore Gap.

Murray-Darling Rainfall Totals (mm) Week Ending 11th 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).

With a relatively dry week across the upper Murray catchments, flows along the main tributaries have generally receded. On the Mitta Mitta River, the flow at Hinnomunjie Bridge decreased from a peak of 1,050 ML/day one week ago to the current flow of 600 ML/day. The Murray at Biggara receded from 1,000 ML/day to 600 ML/day. On the Ovens River, the flow at Rocky Point fell from around 2,700 ML/day to 1,400 ML/day.

River Operations

- Tributary inflows from the Kiewa, Ovens and Goulburn Rivers recede;
- Rainfall forecast for the coming week likely to boost inflows again;
- Water is being stored in Kow Swamp, one of the Victorian mid-Murray storages ahead of potential El Niño conditions



MDBA total storage increased by 59 GL this week, with the active storage now 5,065 GL or 60% capacity. Releases from the upper storages are being held to a minimum, with tributary inflows meeting system demands. At **Dartmouth** Reservoir, the storage volume increased by 2 GL to 3,459 GL (90% capacity). Entitlement releases by AGL Hydro for electricity generation ceased at the end of the week. The flow at Colemans reduced from 2,000 ML/day to 700 ML/day early in the week, and returned to the normal minimum of 200 ML/day by the end of the week.

At **Hume** Reservoir, the storage volume increased by 60 GL to 1,354 GL (45%) with around half of the inflows due to Snowy Hydro and AGL Hydro releases for electricity generation. The release from Hume was steady at 600 ML/day. Downstream at Doctors Point, the flow receded from 2,600 to 1,500 ML/day.

At **Yarrowonga Weir**, inflows averaged around 4,800 ML/day during the week. The pool level increased 3 cm to 124.88 m AHD. The downstream release from Yarrowonga Weir was steady, averaging 4,600 ML/day. The release will be increased over the coming days to reduce the pool level prior to rainfall forecast in the coming week.

On the **Edward** River system, the combined flow through the Edward River and Gulpa Creek offtakes increased to around 900 ML/day. These higher inflows increased the level in the Stevens Weir pool and the diversions to Yallakool and Colligen Creeks while the flow downstream of Stevens Weir is being managed at around 300 ML/day to protect maintenance works at Tumudgery Creek Regulator.

On the **Goulburn** River, the flow at McCoys Bridge receded from 3,700 ML/day to 1,900 ML/day.

At **Torrumbarry** Weir, the diversion at National Channel was steady at 1,900 ML/day. This includes around 700 ML/day supplying an environmental watering event in **Gunbower Forest** and 1,200 ML/day for storage in Kow Swamp. Victorian water managers are harvesting water for storage in Kow Swamp, one of the Victorian mid-Murray storages, in anticipation of potential El Niño conditions. This harvesting will cease next week and in response, the flow at National Channel is expected to reduce to around 750 ML/day.

At **Swan Hill** the flow has increased to 5,400 ML/day. The flow is forecast to fall to around 4,500 ML/day next week. Downstream at **Euston** Weir, the pool level is steady at 47.8 m AHD (20 cm above full supply level) and the release is forecast to increase to around 6,500 ML/day in the coming week.

Environmental watering continued at **Hattah Lakes** this week. Pumps are now delivering around 930 ML/day via Chalka Creek South and the flow is expected to remain around this rate in the coming week.

At **Menindee Lakes**, the storage volume has decreased by 4 GL and is now 388 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 is currently 3,000 ML/day and is expected to rise to around 5,000 ML/day late next week. The storage in **Lake Victoria** was steady at 446 GL (66% capacity, 24.98 m AHD).

Flow across the border to **South Australia** averaged 3,000 ML/day over the past week. At the **Lower Lakes**, the five-day average level in Lake Alexandrina was steady at 0.66 m AHD. At Lake Albert, the average daily salinity is slightly below 2,500 EC. The release through the barrages is estimated to be around 2,200 ML/day; however the barrages are expected to be closed over the coming weekend due to high tides and large swell.

For media inquiries contact the Media Officer on 02 6279 0141

DAVID DREVERMAN
Executive Director, River Management



Water in Storage

Week ending Wednesday 11 Jun 2014

MDBA Storages	Full Supply Level	Full Supply Volume (GL)	Current Storage Level (m AHD)	Current Storage		Dead Storage (GL)	Active Storage (GL)	Change in Total Storage for the Week (GL)
	(m AHD)			(GL)	(GL)			
Dartmouth Reservoir	486.00	3 856	479.74	3 459	90%	71	3 388	+2
Hume Reservoir	192.00	3 005	181.82	1 354	45%	23	1 331	+60
Lake Victoria	27.00	677	24.98	446	66%	100	346	+0
Menindee Lakes		1 731*		388	22%	(- -) #	0	-4
Total		9 269		5 647	61%	--	5 065	+59
Total Active MDBA Storage							60% ^	

Major State Storages

Burrinjuck Reservoir	1 026	586	57%	3	583	+7
Blowering Reservoir	1 631	917	56%	24	893	+30
Eildon Reservoir	3 334	2 322	70%	100	2 222	+11

* 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 10 Jun 2014

Storage	Active Storage (GL)	Weekly Change (GL)	Diversions (GL)	This Week	From 1 May 2014
Lake Eucumbene - Total	1 543	n/a	Snowy-Murray	+14	83
Snowy-Murray Component	839	n/a	Tooma-Tumut	+8	31
Target Storage	1 240		Net Diversion	6	52
			Murray 1 Release	+21	113

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)	-0.3	1080	Yarrowonga Main Channel (net)	0	312
Wakool Sys Allowance	-0.1	53	Torrumbarry System + Nyah (net)	13	552
Western Murray Irrigation	0.1	27	Sunraysia Pumped Districts	0.1	110
Licensed Pumps	1.3	241	Licensed pumps - GMW (Nyah+u/s)	1.5	173
Lower Darling	0.1	198	Licensed pumps - LMW	1.5	298
TOTAL	1.1	1599	TOTAL	16.1	1445

* 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	21.0
Flow so far this month	32.7
Flow last month	114.7

(3 000 ML/day)

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

	Current	Average over the last week	Average since 1 August 2013
Swan Hill	80	90	90
Euston	150	150	100
Red Cliffs	180	180	120
Merbein	200	200	130
Burtundy (Darling)	630	620	510
Lock 9	200	180	180
Lake Victoria	230	220	240
Berri	350	360	280
Waikerie	440	410	320
Morgan	390	370	330
Mannum	360	360	360
Murray Bridge	420	430	380
Milang (Lake Alex.)	690	680	680
Poltalloch (Lake Alex.)	590	580	560
Meningie (Lake Alb.)	2 510	2 500	2 640
Goolwa Barrages	1 050	1 160	1 290



River Levels and Flows

Week ending Wednesday 11 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	-	-	-	2 830	F	4 070	4 260
Jingellic	4.0	1.79	208.31	5 020	F	6 740	5 860
Tallandoon (Mitta Mitta River)	4.2	1.57	218.46	850	F	1 300	800
Heywoods	5.5	1.29	154.92	600	S	650	600
Doctors Point	5.5	1.53	150.00	1 500	F	2 100	2 320
Albury	4.3	0.71	148.15	-	-	-	-
Corowa	3.8	0.77	126.79	2 350	F	2 580	2 850
Yarrowonga Weir (d/s)	6.4	0.90	115.94	4 530	F	4 580	3 950
Tocumwal	6.4	1.48	105.32	4 750	S	4 770	3 710
Torrumbarry Weir (d/s)	7.3	1.91	80.46	5 340	F	5 820	3 140
Swan Hill	4.5	1.16	64.08	5 390	R	4 150	2 570
Wakool Junction	8.8	2.48	51.60	5 710	R	4 660	4 550
Euston Weir (d/s)	8.8	1.11	42.95	4 860	R	4 290	4 680
Mildura Weir (d/s)	-	-	-	-	-	-	-
Wentworth Weir (d/s)	7.3	2.89	27.65	3 030	F	3 300	3 760
Rufus Junction	-	2.67	19.60	2 190	S	2 240	2 280
Blanchetown (Lock 1 d/s)	-	0.56	-	2 570	S	2 590	2 420
Tributaries							
Kiewa at Bandiana	2.7	1.29	154.52	900	F	1 540	1 720
Ovens at Wangaratta	11.9	8.61	146.29	2 150	F	2 780	3 440
Goulburn at McCoys Bridge	9.0	2.01	93.43	1 870	F	2 830	1 820
Edward at Stevens Weir (d/s)	-	0.53	80.30	300	F	460	310
Edward at Liewah	-	0.87	56.25	410	F	420	690
Wakool at Stoney Crossing	-	1.42	54.92	430	S	470	650
Murrumbidgee at Balranald	5.0	0.83	56.79	470	R	460	330
Barwon at Mungindi	-	3.12	-	0	F	20	40
Darling at Bourke	-	4.03	-	130	S	130	130
Darling at Burtundy Rocks	-	0.75	-	160	S	160	150

Natural Inflow to Hume	7 230	9 490
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(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	-0.02	-	No. 7 Rufus River	22.10	+0.04	+0.39
No. 26 Torrumbarry	86.05	-0.01	-	No. 6 Murtho	19.25	+0.02	+0.01
No. 15 Euston	47.60	+0.20	-	No. 5 Renmark	16.30	+0.08	+0.07
No. 11 Mildura	34.40	+0.00	+0.01	No. 4 Bookpurnong	13.20	+0.01	+0.31
No. 10 Wentworth	30.80	+0.02	+0.25	No. 3 Overland Corner	9.80	+0.09	+0.34
No. 9 Kulnine	27.40	+0.12	+0.50	No. 2 Waikerie	6.10	+0.18	+0.25
No. 8 Wangumma	24.60	+0.52	+0.07	No. 1 Blanchetown	3.20	+0.19	-0.19

Lower Lakes FSL = 0.75 m AHD

Lake Alexandrina average level for the past 5 days (m AHD)	0.66
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Barrages

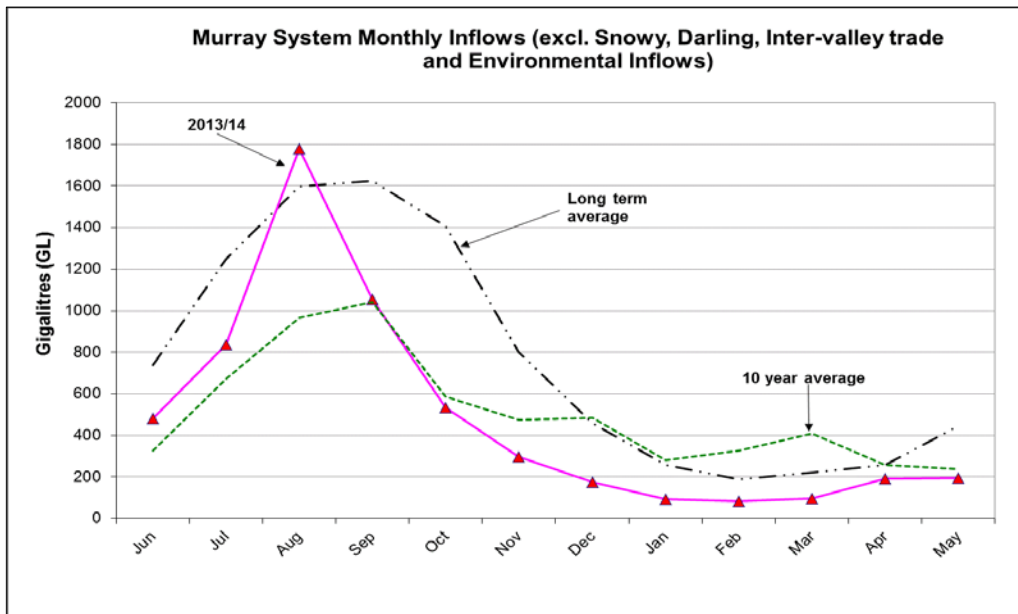
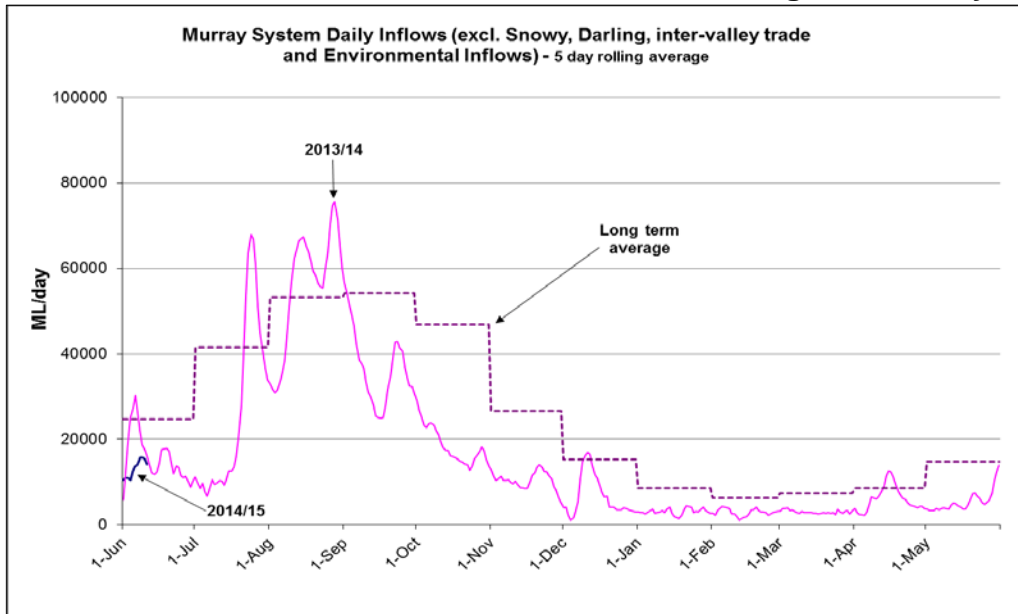
Fishways at Barrages

	Openings	Level (m AHD)	No. Open	Rock Ramp	Vertical Slot
Goolwa	128 openings	0.72	5	-	Open
Mundoo	26 openings	0.70	All closed	-	-
Boundary Creek	6 openings	-	0.1	-	-
Ewe Island	111 gates	-	All closed	-	-
Tauwichee	322 gates	0.71	5	Open	Open

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



Week ending Wednesday 11 Jun 2014



State Allocations (as at 11 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>